

SECTION LAN

LAN SYSTEM

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PRECAUTIONS

PFP:00001

Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EKS004AL

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

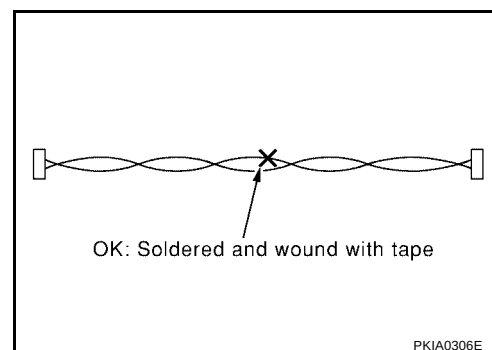
WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

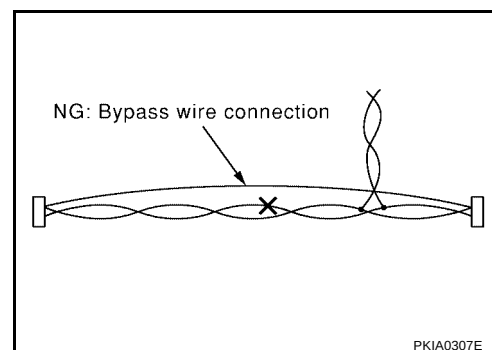
Precautions for CAN System

EKS0050R

- Do not apply voltage of 7.0V or higher to terminal to be measured.
- Maximum open terminal voltage of tester in use must be less than 7.0V.
- Before checking harnesses, turn ignition switch OFF and disconnect battery negative cable.
- Area to be repaired must be soldered and wrapped with tape. Make sure that fraying of twisted wire is within 110 mm (4.33 in).



- Do not make a bypass connection to repaired area. (If the circuit is bypassed, characteristics of twisted wire will be lost.)



Wiring Diagrams and Trouble Diagnosis

EKS0050S

When you read wiring diagrams, refer to the following:

- [GI-12, "How to Read Wiring Diagrams"](#)
- [PG-3, "POWER SUPPLY ROUTING CIRCUIT"](#)

When you perform trouble diagnosis, refer to the following:

- [GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#)

- [GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident"](#)

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CAN COMMUNICATION

PFP:23710

System Description

EKS004AP

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN System Type

EKS004AQ

Refer to the following table to determine CAN system type.

CAN system type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Input/output signal chart	LAN-9, "TYPE 1/ TYPE 2/TYPE 3"			LAN-11, "TYPE 4/ TYPE 5/TYPE 6"			LAN-13, "TYPE 7/ TYPE 8"		LAN-15, "TYPE 9/TYPE 10/TYPE 11"			LAN-17, "TYPE 12/ TYPE 13"		LAN-19, "TYPE 14/TYPE 15/ TYPE 16"		
CAN system trouble diagnosis	LAN-21	LAN-39	LAN-58	LAN-77	LAN-97	LAN-119	LAN-141	LAN-165	LAN-189	LAN-209	LAN-231	LAN-253	LAN-277	LAN-301	LAN-321	LAN-343
Transmission	M/T			4 A/T				5 A/T								
Brake control	ABS						VDC		ABS			VDC		TCS		
Navigation system			x			x		x			x		x			x
Automatic drive positioner		x	x		x	x	x	x		x	x	x	x		x	x

x: Applicable

CAN COMMUNICATION

[CAN]

EKS0050Q

Input/Output Signal Chart TYPE 1/TYPER 2/TYPER 3

T: Transmit R: Receive

Signals	ECM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T	R			R		R	
Engine status signal	T			R				
Engine coolant temperature signal	T				R			
Key switch signal				T		R		
Ignition switch signal				T		R		R
ABS operation signal	R						T	
Fuel consumption monitor signal	T				R			
		R	R		T			
A/C switch signal	R			T				
A/C compressor request signal	T							R
Blower fan motor switch signal	R			T				
A/C control signal		T	T		R			
		R	R		T			
Cooling fan speed request signal	T							R
Cooling fan speed signal	R							T
Position light request signal				T	R			R
Low beam request signal				T				R
Low beam status signal	R							T
High beam request signal				T	R			R
High beam status signal	R							T
Front fog light request signal				T				R
Day time running light request signal				T	R			
Vehicle speed signal					R		T	
	R	R		R	T	R		
Sleep wake up signal				T	R	R		
Door switch signal		R	R	T	R			R
Turn indicator signal				T	R			
Cornering lamp request signal				T				R
Key fob ID signal				T		R		
Key fob door unlock signal				T		R		
Oil pressure switch signal				R				T
				T	R			
Buzzer output signal				T	R			
Fuel level sensor signal	R				T			
ASCD SET indicator signal	T				R			
ASCD CRUISE indicator signal	T				R			

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CAN COMMUNICATION

[CAN]

Signals	ECM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Malfunction indicator lamp signal	T				R			
Front wiper request signal				T				R
Front wiper stop position signal				R				T
Rear window defogger switch signal				T				R
Rear window defogger control signal	R	R	R					T
Hood switch signal				R				T
Theft warning horn request signal				T				R
Horn chirp signal				T				R
ABS warning lamp signal					R		T	
Brake warning lamp signal					R		T	
System setting signal		T	T	R		R		
		R	R	T		T		
Distance to empty signal		R	R		T			
Seat belt buckle switch signal				R	T			
Parking brake switch signal				R	T			

CAN COMMUNICATION

[CAN]

TYPE 4/TYPE 5/TYPE 6

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T		R			R		R	
Engine status signal	T				R				
Engine coolant temperature signal	T					R			
Key switch signal					T		R		
Ignition switch signal					T		R		R
ABS operation signal	R							T	
Fuel consumption monitor signal	T					R			
			R	R		T			
A/C switch signal	R				T				
A/C compressor request signal	T								R
Blower fan motor switch signal	R				T				
A/C control signal			T	T		R			
			R	R		T			
Cooling fan speed request signal	T								R
Cooling fan speed signal	R								T
Position light request signal					T	R			R
Low beam request signal					T				R
Low beam status signal	R								T
High beam request signal					T	R			R
High beam status signal	R								T
Front fog light request signal					T				R
Day time running light request signal					T	R			
Vehicle speed signal						R		T	
	R		R		R	T	R		
Sleep wake up signal					T	R	R		R
Door switch signal			R	R	T	R	R		R
Turn indicator signal					T	R			
Cornering lamp request signal					T				R
Key fob ID signal					T		R		
Key fob door unlock signal					T		R		
Oil pressure switch signal					R				T
					T	R			
Buzzer output signal					T	R			
Fuel level sensor signal	R					T			
ASCD SET indicator signal	T					R			
ASCD CRUISE indicator signal	T					R			
Malfunction indicator lamp signal	T					R			

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper request signal					T				R
Front wiper stop position signal					R				T
Rear window defogger switch signal					T				R
Rear window defogger control signal	R		R	R		R			T
Hood switch signal					R				T
Theft warning horn request signal					T				R
Horn chirp signal					T				R
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
System setting signal			T	T	R		R		
			R	R	T		T		
Distance to empty signal			R	R		T			
Seat belt buckle switch signal					R	T			
Parking brake switch signal					R	T			
A/T self-diagnosis signal	R	T							
Engine and A/T integrated control signal					R	T			
A/T self-diagnosis signal	R	T			R	T			
Accelerator pedal position signal	T							R	
Closed throttle position signal	T	R							
Wide open throttle position signal	T	R							
P range signal		T					R	R	
R range signal		T					R		
Stop lamp switch signal		R				T			
Input shaft revolution signal	R	T							
Output shaft revolution signal	R	T							
ASCD operation signal	T	R							
ASCD OD cancel request	T	R							
A/T position indicator lamp signal		T				R			
A/T CHECK indicator lamp signal		T				R			
3rd position switch signal		R				T			

CAN COMMUNICATION

[CAN]

TYPE 7/TYPER 8

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T		R			R			R	
Engine status signal	T				R					
Engine coolant temperature signal	T					R				
Key switch signal					T			R		
Ignition switch signal					T			R		R
ABS operation signal	R								T	
Fuel consumption monitor signal	T					R				
			R	R		T				
A/C switch signal	R				T					
A/C compressor request signal	T									R
Blower fan motor switch signal	R				T					
A/C control signal			T	T		R				
			R	R		T				
Cooling fan speed request signal	T									R
Cooling fan speed signal	R									T
Position light request signal					T	R				R
Low beam request signal					T					R
Low beam status signal	R									T
High beam request signal					T	R				R
High beam status signal	R									T
Front fog light request signal					T					R
Day time running light request signal					T	R				
Vehicle speed signal						R			T	
	R		R		R	T		R		
Sleep wake up signal					T	R		R		R
Door switch signal			R	R	T	R		R		R
Turn indicator signal					T	R				
Cornering lamp request signal					T					R
Key fob ID signal					T			R		
Key fob door unlock signal					T			R		
Oil pressure switch signal					R					T
					T	R				
Buzzer output signal					T	R				
Fuel level sensor signal	R					T				
ASCD SET indicator signal	T					R				
ASCD CRUISE indicator signal	T					R				
Malfunction indicator lamp signal	T					R				

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Front wiper request signal					T					R
Front wiper stop position signal					R					T
Rear window defogger switch signal					T					R
Rear window defogger control signal	R		R	R						T
Hood switch signal					R					T
Theft warning horn request signal					T					R
Horn chirp signal					T					R
ABS warning lamp signal						R			T	
Brake warning lamp signal						R			T	
System setting signal			T	T	R			R		
			R	R	T			T		
Distance to empty signal			R	R		T				
Seat belt buckle switch signal					R	T				
Parking brake switch signal					R	T				
A/T self-diagnosis signal	R	T								
Engine and A/T integrated control signal	T	R								
	R	T								
Accelerator pedal position sensor	T								R	
Closed throttle position signal	T	R								
Wide open throttle position signal	T	R								
P range signal		T						R	R	
R range signal		T						R		
Stop lamp switch signal		R				T				
TCS operation signal	R								T	
VDC operation signal	R								T	
Input shaft revolution signal	R	T								
Output shaft revolution signal	R	T								
ASCD operation signal	T	R								
ASCD OD cancel request	T	R								
Steering angle sensor signal							T		R	
VDC OFF indicator lamp signal						R			T	
SLIP indicator lamp signal						R			T	
A/T CHECK indicator lamp signal		T				R				
A/T position indicator lamp signal		T				R				
A/T shift schedule change demand signal		R							T	
3rd position switch signal		R				T				

CAN COMMUNICATION

[CAN]

TYPE 9/TYPE 10/TYPE 11

T: Transmit R: Receive

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Engine speed signal	T	R	R			R		R	
Engine status signal	T				R				
Engine coolant temperature signal	T	R				R			
Key switch signal					T		R		
Ignition switch signal					T		R		R
ABS operation signal	R	R						T	
Fuel consumption monitor signal	T					R			
			R	R		T			
A/C switch signal	R				T				
A/C compressor request signal	T								R
Blower fan motor switch signal	R				T				
A/C control signal			T	T		R			
			R	R		T			
Cooling fan speed request signal	T								R
Cooling fan speed signal	R								T
Position light request signal					T	R			R
Low beam request signal					T				R
Low beam status signal	R								T
High beam request signal					T	R			R
High beam status signal	R								T
Front fog light request signal					T				R
Day time running light request signal					T	R			
Vehicle speed signal						R		T	
	R	R	R		R	T	R		
Sleep wake up signal					T	R	R		
Door switch signal			R	R	T	R	R		R
Turn indicator signal					T	R			
Cornering lamp request signal					T				R
Key fob ID signal					T		R		
Key fob door unlock signal					T		R		
Oil pressure switch signal					R				T
					T	R			
Buzzer output signal					T	R			
Fuel level sensor signal	R					T			
ASCD SET indicator signal	T					R			
ASCD CRUISE indicator signal	T					R			
Malfunction indicator lamp signal	T					R			

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Dis- play control unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat control unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper request signal					T				R
Front wiper stop position signal					R				T
Rear window defogger switch signal					T				R
Rear window defogger control signal	R		R	R					T
Hood switch signal					R				T
Theft warning horn request signal					T				R
Horn chirp signal					T				R
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
System setting signal			T	T	R		R		
			R	R	T		T		
Distance to empty signal			R	R		T			
Seat belt buckle switch signal					R	T			
Parking brake switch signal					R	T			
ASCD operation signal	T	R							
ASCD OD cancel request	T	R							
A/T CHECK indicator lamp signal		T				R			
A/T position indicator lamp signal		T				R			
Manual mode indicator signal		T				R			
A/T self-diagnosis signal	R	T							
Electric throttle control signal	T	R							
Engine and A/T integrated control signal	T	R							
	R	T							
Accelerator pedal position signal	T							R	
P range signal		T					R	R	
R range signal		T					R		
Stop lamp switch signal		R				T			
Input shaft revolution signal	R	T							
Output shaft revolution signal	R	T							

CAN COMMUNICATION

[CAN]

TYPE 12/TYPE 13

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T	R	R			R			R	
Engine status signal	T				R					
Engine coolant temperature signal	T	R				R				
Key switch signal					T			R		
Ignition switch signal					T			R		R
ABS operation signal	R	R							T	
Fuel consumption monitor signal	T					R				
			R	R		T				
A/C switch signal	R				T					
A/C compressor request signal	T									R
Blower fan motor switch signal	R				T					
A/C control signal			T	T		R				
			R	R		T				
Cooling fan speed request signal	T									R
Cooling fan speed signal	R									T
Position light request signal					T	R				R
Low beam request signal					T					R
Low beam status signal	R									T
High beam request signal					T	R				R
High beam status signal	R									T
Front fog light request signal					T					R
Day time running light request signal					T	R				
Vehicle speed signal						R			T	
	R	R	R		R	T		R		
Sleep wake up signal					T	R		R		R
Door switch signal			R	R	T	R		R		R
Turn indicator signal					T	R				
Cornering lamp request signal					T					R
Key fob ID signal					T			R		
Key fob door unlock signal					T			R		
Oil pressure switch signal					R					T
					T	R				
Buzzer output signal					T	R				
Fuel level sensor signal	R					T				
ASCD SET indicator signal	T					R				
ASCD CRUISE indicator signal	T					R				
Malfunction indicator lamp signal	T					R				

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Steer- ing angle sensor	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper request signal					T					R
Front wiper stop position signal					R					T
Rear window defogger switch signal					T					R
Rear window defogger control signal	R		R	R						T
Hood switch signal					R					T
Theft warning horn request signal					T					R
Horn chirp signal					T					R
ABS warning lamp signal						R			T	
Brake warning lamp signal						R			T	
System setting signal			T	T	R			R		
			R	R	T			T		
Distance to empty signal			R	R		T				
Seat belt buckle switch signal					R	T				
Parking brake switch signal					R	T				
A/T self-diagnosis signal	R	T								
Electric throttle control signal	T	R								
Engine and A/T integrated control signal	T	R								
	R	T								
Accelerator pedal position signal	T								R	
P range signal		T						R	R	
R range signal		T						R		
Stop lamp switch signal		R				T				
TCS operation signal	R	R							T	
VDC operation signal	R	R							T	
Input shaft revolution signal	R	T								
Output shaft revolution signal	R	T								
ASCD operation signal	T	R								
ASCD OD cancel request	T	R								
Steering angle sensor signal							T		R	
VDC OFF indicator lamp signal						R			T	
SLIP indicator lamp signal						R			T	
A/T CHECK indicator lamp signal		T				R				
A/T position indicator lamp signal		T				R				
A/T shift schedule change demand sig- nal		R							T	
Manual mode indicator signal		T				R				

CAN COMMUNICATION

[CAN]

TYPE 14/TYPE 15/TYPE 16

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T	R	R			R		R	
Engine status signal	T				R				
Engine coolant temperature signal	T	R				R			
Key switch signal					T		R		
Ignition switch signal					T		R		R
ABS operation signal	R	R						T	
Fuel consumption monitor signal	T					R			
			R	R		T			
A/C switch signal	R				T				
A/C compressor request signal	T								R
Blower fan motor switch signal	R				T				
A/C control signal			T	T		R			
			R	R		T			
Cooling fan speed request signal	T								R
Cooling fan speed signal	R								T
Position light request signal					T	R			R
Low beam request signal					T				R
Low beam status signal	R								T
High beam request signal					T	R			R
High beam status signal	R								T
Front fog light request signal					T				R
Day time running light request signal					T	R			
Vehicle speed signal						R		T	
	R	R	R		R	T	R		
Sleep wake up signal					T	R	R		R
Door switch signal			R	R	T	R	R		R
Turn indicator signal					T	R			
Cornering lamp request signal					T				R
Key fob ID signal					T		R		
Key fob door unlock signal					T		R		
Oil pressure switch signal					R				T
					T	R			
Buzzer output signal					T	R			
Fuel level sensor signal	R					T			
ASCD SET indicator signal	T					R			
ASCD CRUISE indicator signal	T					R			
Malfunction indicator lamp signal	T					R			

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CAN COMMUNICATION

[CAN]

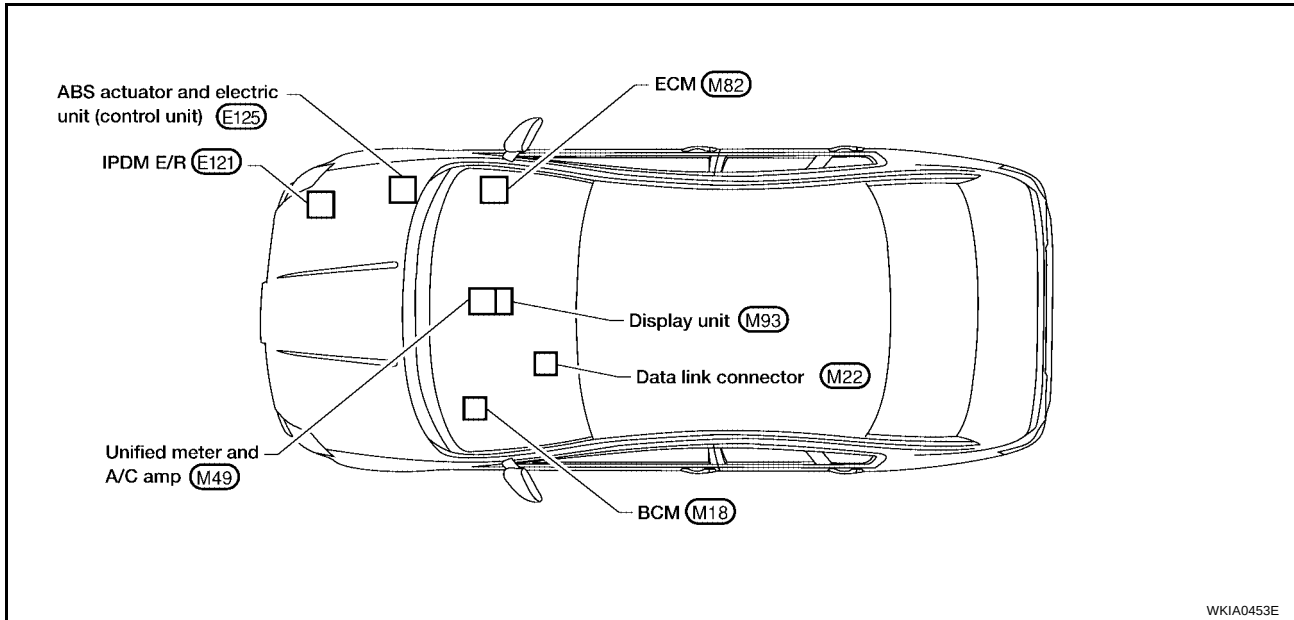
Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper request signal					T				R
Front wiper stop position signal					R				T
Rear window defogger switch signal					T				R
Rear window defogger control signal	R		R	R					T
Hood switch signal					R				T
Theft warning horn request signal					T				R
Horn chirp signal					T				R
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
System setting signal			T	T	R		R		
			R	R	T		T		
Distance to empty signal			R	R		T			
Seat belt buckle switch signal					R	T			
Parking brake switch signal					R	T			
A/T self-diagnosis signal	R	T							
Electric throttle control signal	T	R							
Engine and A/T integrated control signal	T	R							
	R	T							
Accelerator pedal position signal	T							R	
P range signal		T					R	R	
R range signal		T					R		
Stop lamp switch signal		R				T			
TCS operation signal	R	R						T	
Input shaft revolution signal	R	T							
Output shaft revolution signal	R	T							
ASCD operation signal	T	R							
ASCD OD cancel request	T	R							
SLIP indicator lamp signal						R		T	
A/T CHECK indicator lamp signal		T				R			
A/T position indicator lamp signal		T				R			
A/T shift schedule change demand signal		R						T	
Manual mode indicator signal		T				R			

CAN SYSTEM (TYPE 1)

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

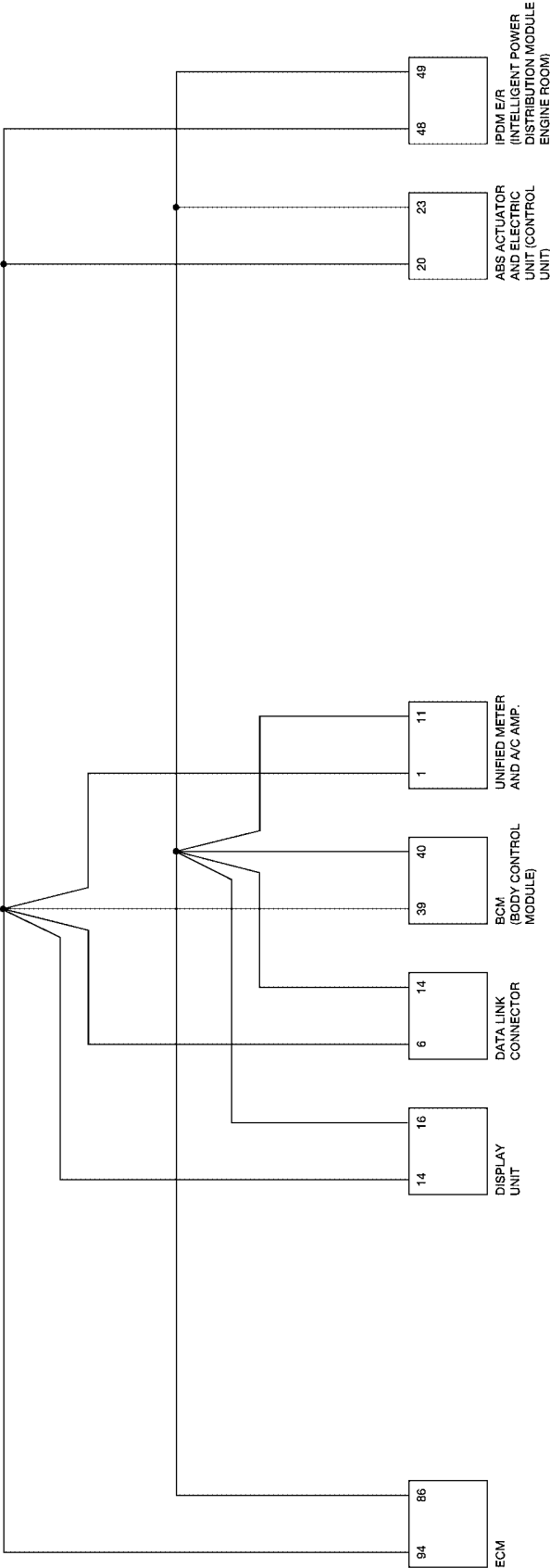
Component Parts and Harness Connector Location



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Schematic

EKS0050A

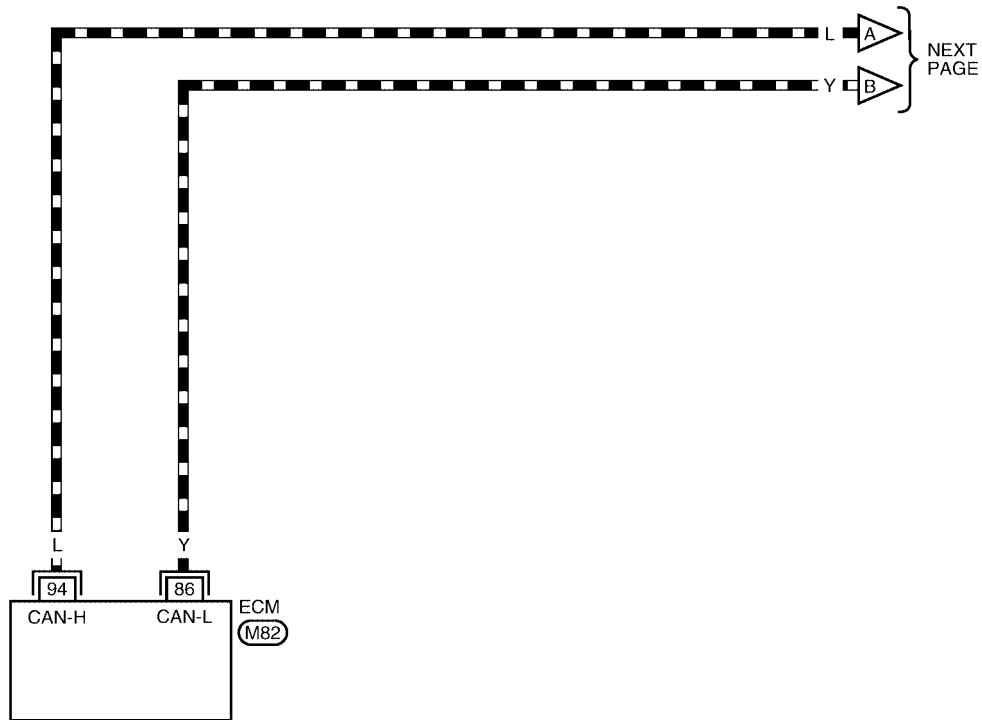


WKWA0453E

Wiring Diagram - CAN -

LAN-CAN-1

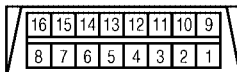
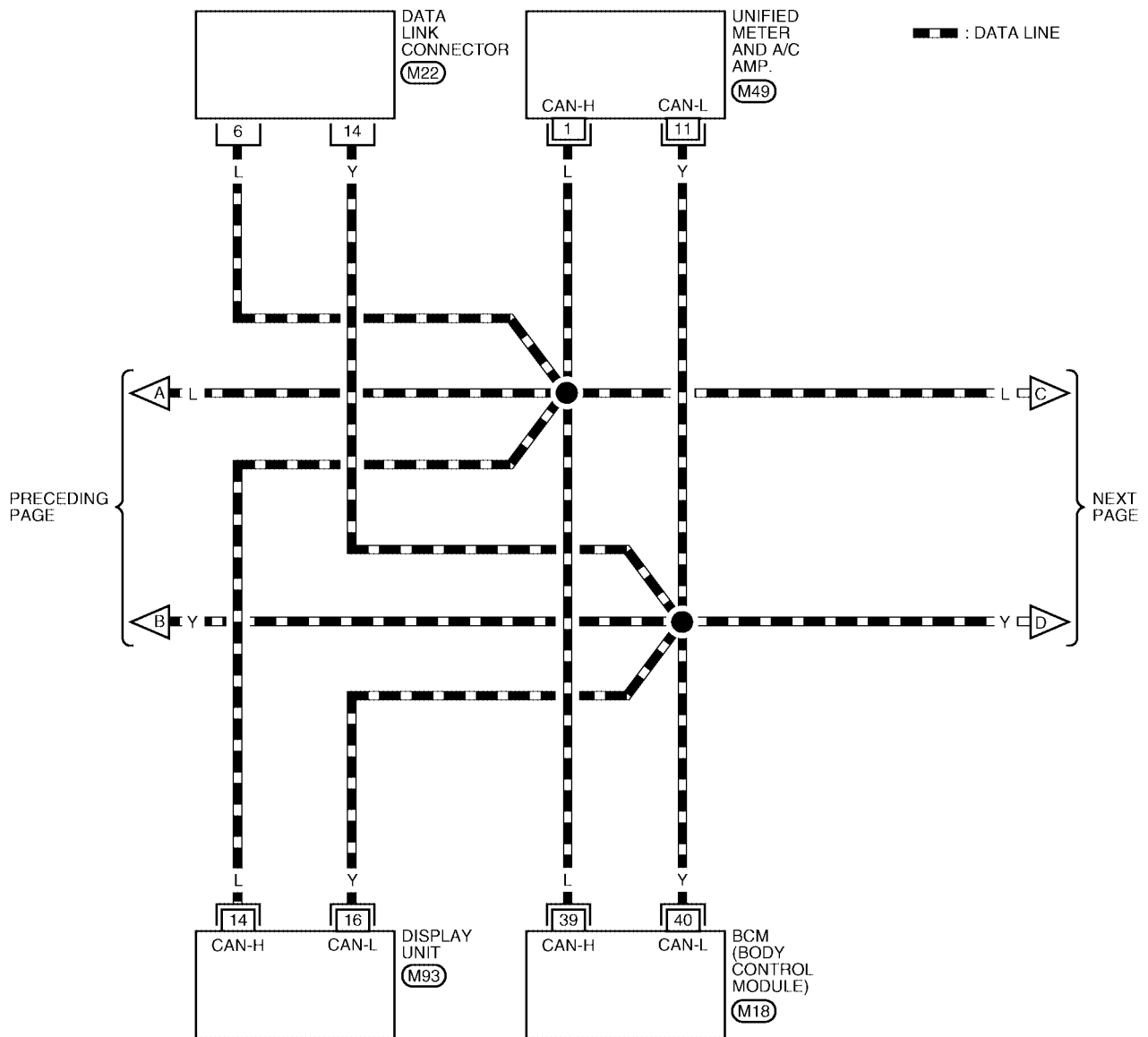
▬ : DATA LINE



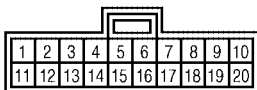
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REFER TO THE FOLLOWING.
(M82) - ELECTRICAL
UNITS

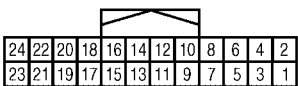
LAN-CAN-2



(M22)
W



(M49)
GR

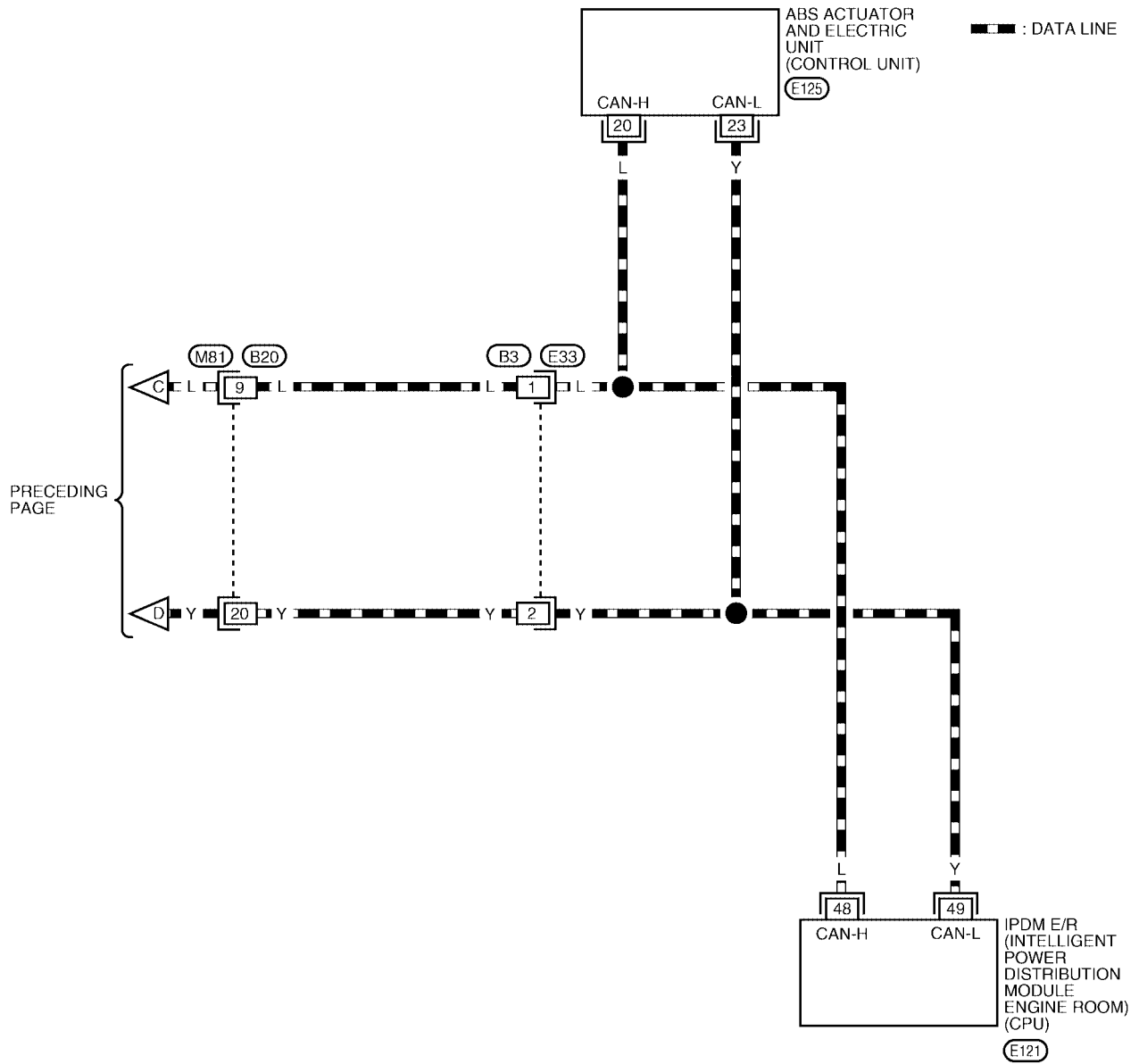


(M93)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-3



1	2	3	4	5	6	7	8	9	M81
10	11	12	13	14	15	16	17	18	GR

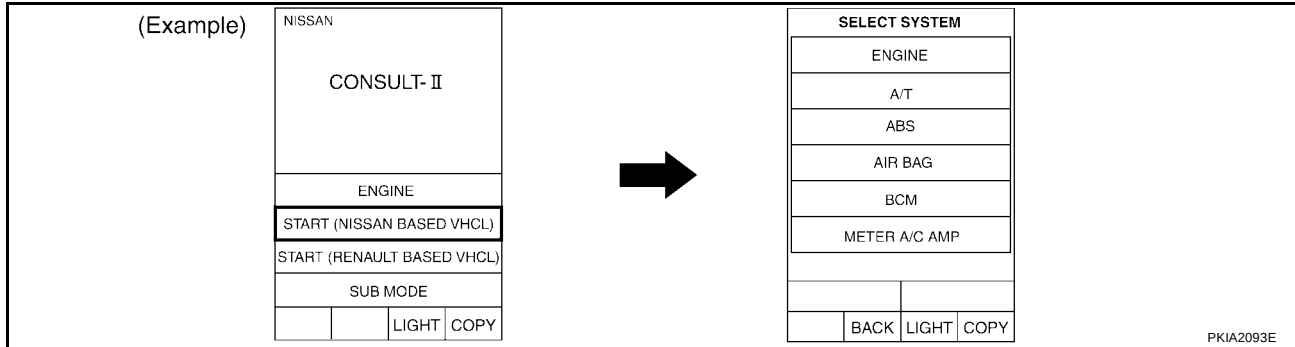
1	2	E33
3	4	W

45	46	47	48	49	50	51	52	E121
53	54	55	56	57	58	59	60	W

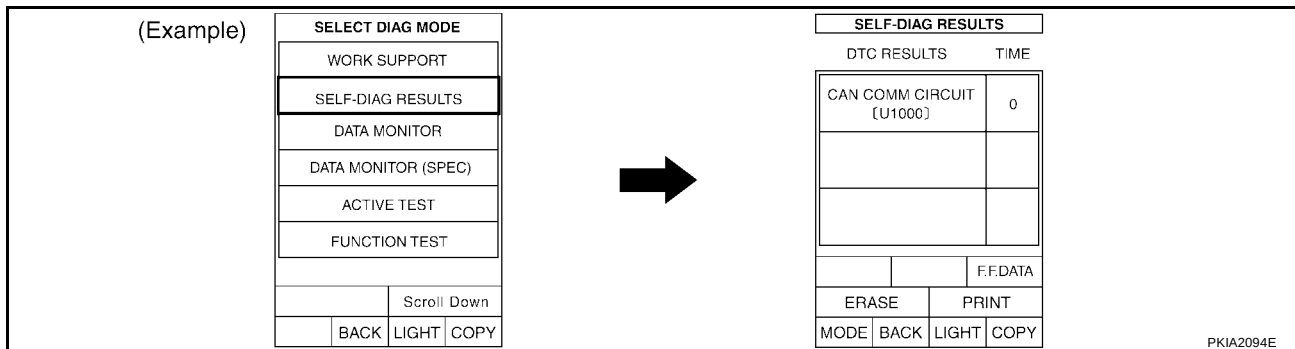
REFER TO THE FOLLOWING.
(E125) - ELECTRICAL UNITS

Work Flow

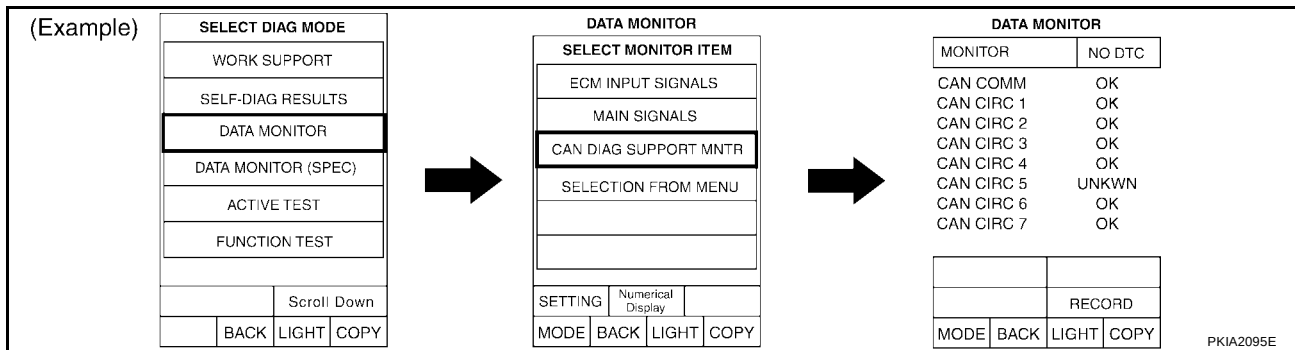
- When there are no indications of "METER A/C AMP", "BCM" or "IPDM E/R" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No display", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 1)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0631E

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0632E

CAN SYSTEM (TYPE 1)

[CAN]

Case 2

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	~~CAN COMM~~	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0633E

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	~~CIRC 3~~	-	~~CIRC 5~~	~~CIRC 2~~	-	~~CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0634E

Case 3

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	~~CAN CIRC 4~~	-	-	~~CAN CIRC 3~~
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CIRC 1	CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0635E

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0636E

CAN SYSTEM (TYPE 1)

[CAN]

Case 4

Replace unified meter and A/C amp.

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	✓ CAN CIRC 2	✓ CAN CIRC 7	-	✓ CAN CIRC 4	✓ CAN CIRC 5	✓ CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0637E

Case 5

Replace ABS actuator and electric unit (control unit).

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	✓ CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	✓ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0638E

Case 6

Replace IPDM E/R.

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	✓ CAN CIRC 3	-	-	✓ CAN CIRC 2	-	-

WKIA0639E

Case 7

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-32](#)

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	✓ CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	✓ CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	✓ CAN CIRC 5	✓ CAN CIRC 6
BCM	No Disp	CAN COMM	CIRC 1	CIRC 2	-	CAN CIRC 4	-	-	✓ CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	✓ CAN CIRC 2	-	-	-	-	-
IPDM E/R	✓ No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0640E

CAN SYSTEM (TYPE 1)

[CAN]

Case 8

Check ECM circuit. Refer to [LAN-33](#).

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0641E

Case 9

Check display unit circuit. Refer to [LAN-34](#).

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0642E

Case 10

Check data link connector circuit. Refer to [LAN-34](#).

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0643E

Case 11

Check BCM circuit. Refer to [LAN-35](#).

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	AHS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0644E

CAN SYSTEM (TYPE 1)

[CAN]

Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-35](#).

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0645E

Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-36](#).

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0646E

Case 14

Check IPDM E/R circuit. Refer to [LAN-36](#).

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0647E

Case 15

Check CAN communication circuit. Refer to [LAN-37](#).

	CONSUL I Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0648E

Case 16

Check IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0649E

Case 17Check IPDM E/R Ignition relay circuit. Refer to [LAN-37](#).

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0650E

Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

EKS0050E

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect memory seat module connector P2, ABS actuator and electric unit (control unit) connector E125 and M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

6 (L) - 20 (L) : Continuity should exist.

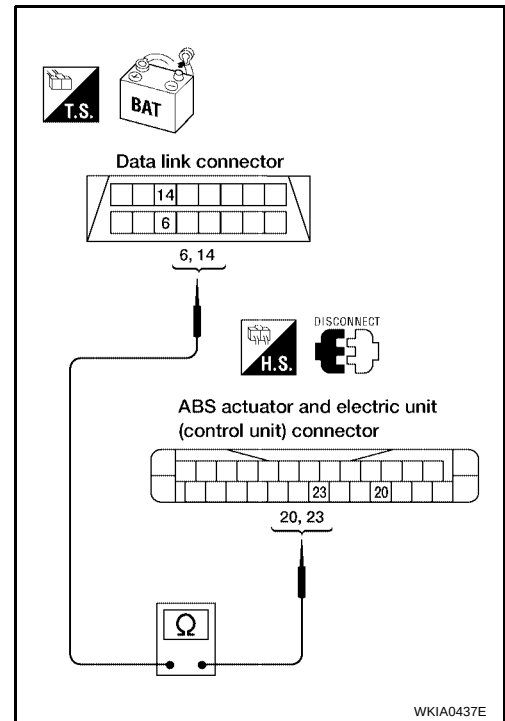
14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to

[LAN-26](#).

NG >> Repair harness.



EKS0050F

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

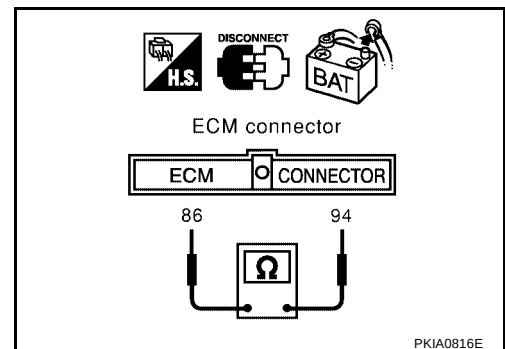
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and data link connector M22.



Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

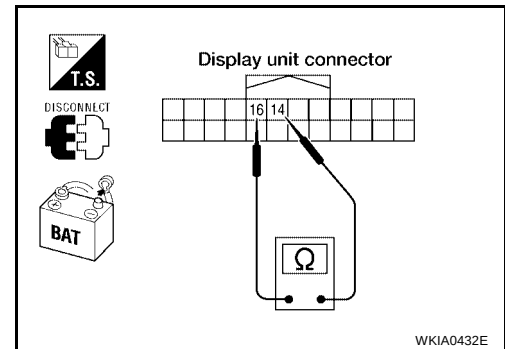
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

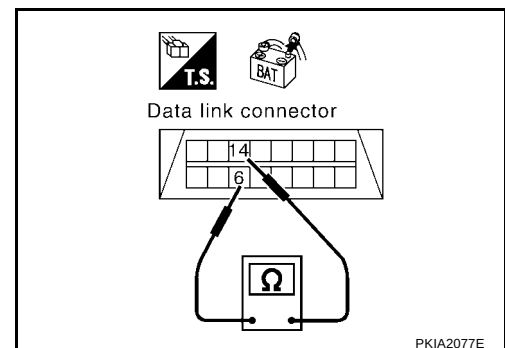
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-26](#).
NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

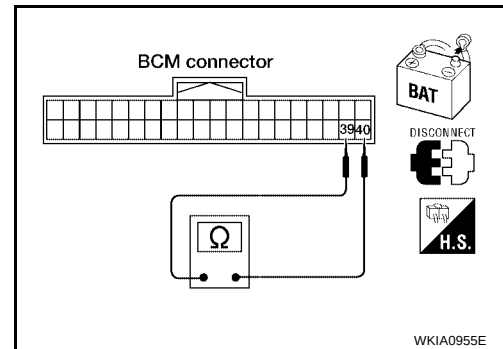
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.

**Unified Meter and A/C Amp. Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

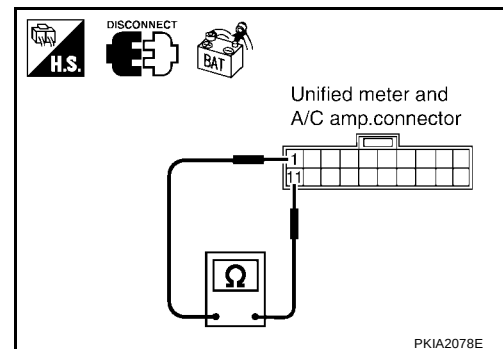
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

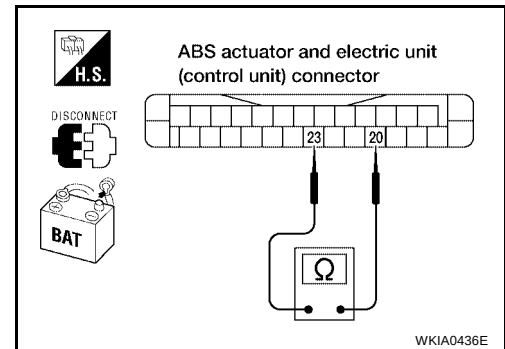
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y)**: Approx. 54 - 66Ω**

OK or NG

OK >> Replace ABS actuator and electric unit (control unit).

NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS0050M

IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

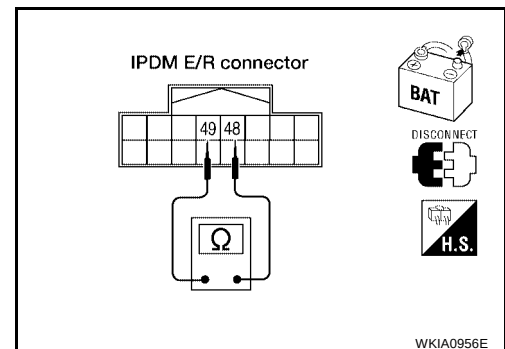
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)**: Approx. 108 - 132Ω**

OK or NG

OK >> Replace IPDM E/R.

NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

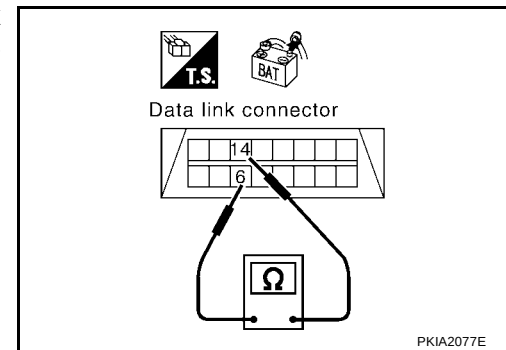
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.

**3. CHECK HARNESS FOR SHORT TO GROUND**

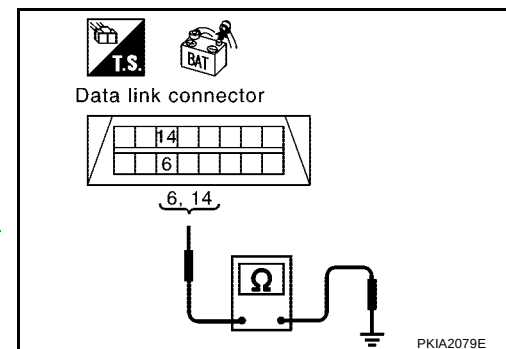
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-38, "Component Inspection"](#).
 NG >> Repair the harness.

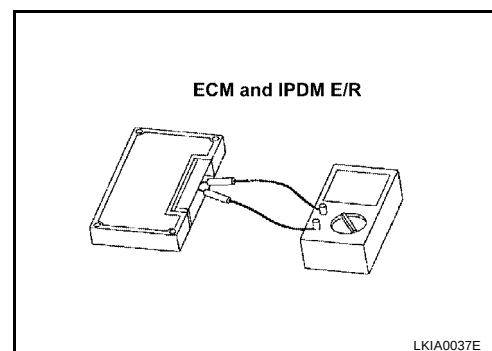
**IPDM E/R Ignition Relay Circuit Check**

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

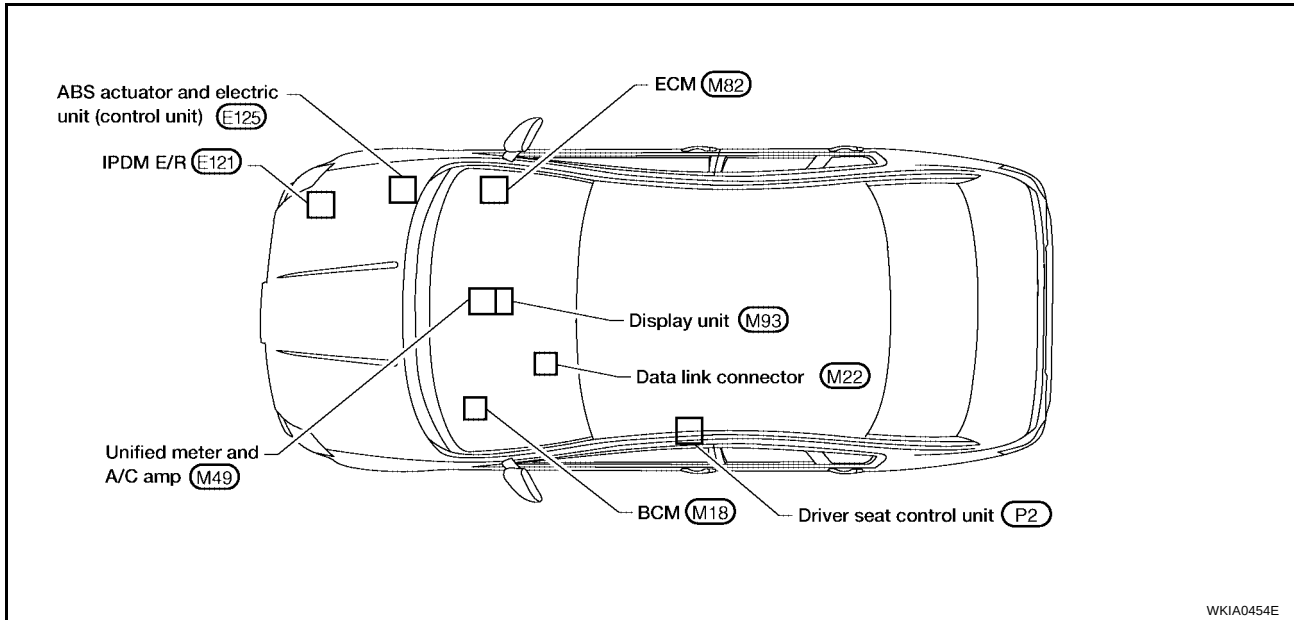


CAN SYSTEM (TYPE 2)

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

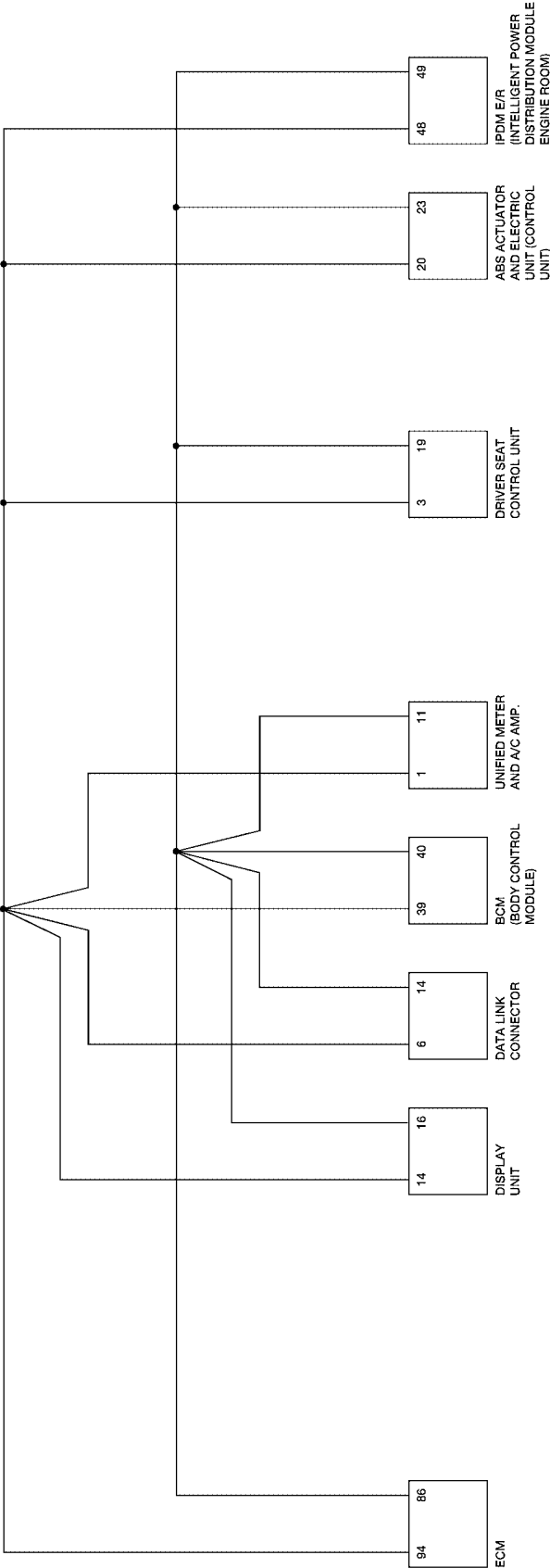
Component Parts and Harness Connector Location



A
B
C
D
E
F
G
H
I
J
LAN
L
M

Schematic

EKS004ZQ



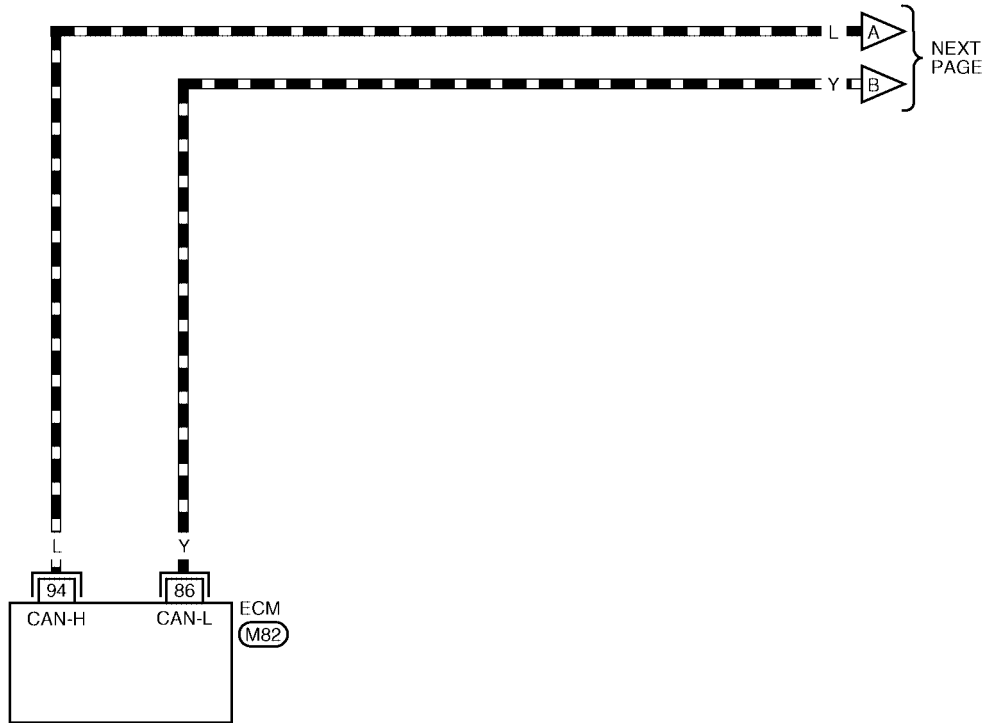
WKWA0449E

Wiring Diagram - CAN -

EKS004ZR

LAN-CAN-4

DATA LINE

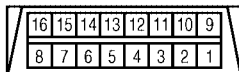
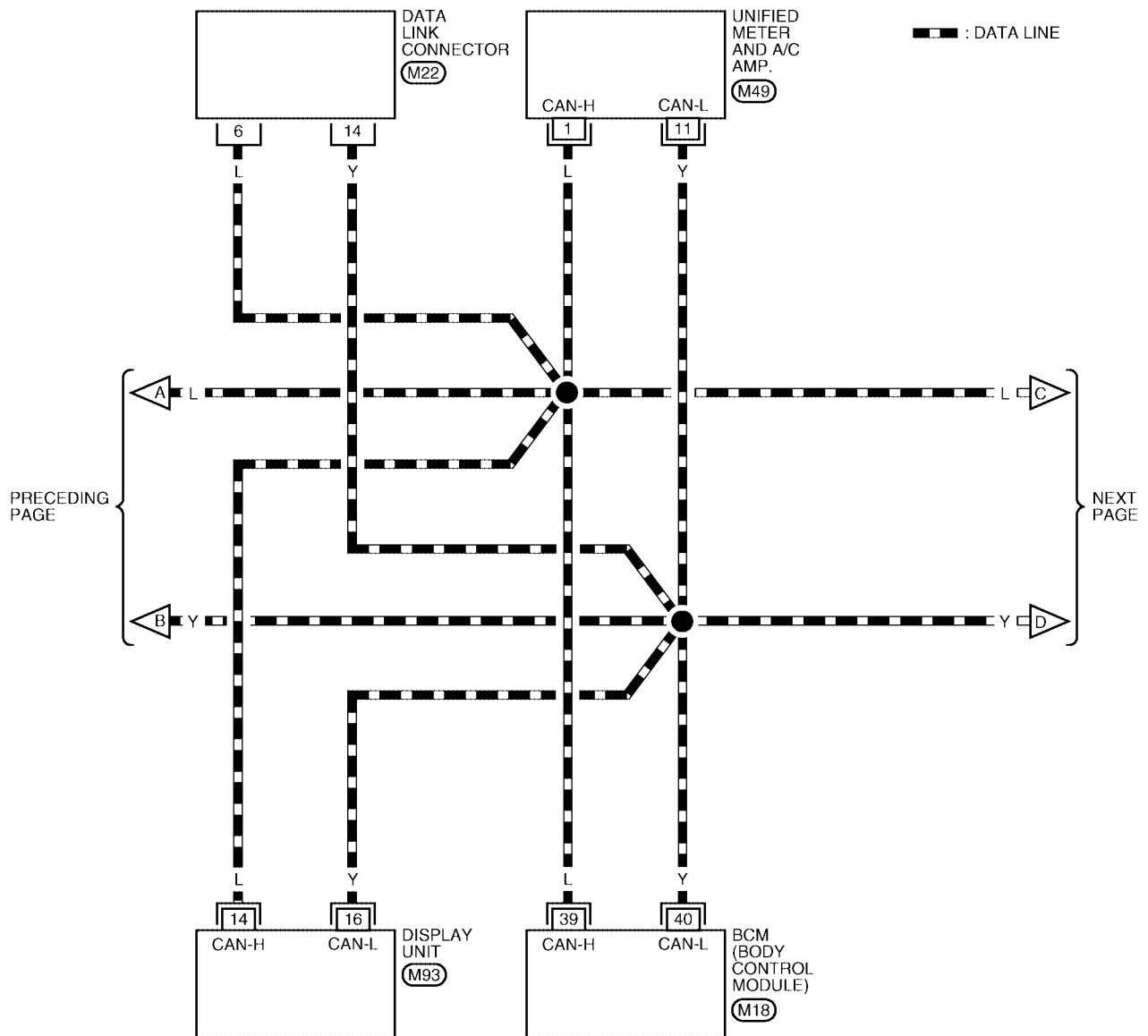


A
B
C
D
E
F
G
H
I
J
LAN
L
M

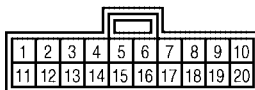
REFER TO THE FOLLOWING.
M82 - ELECTRICAL
UNITS

WKWA0450E

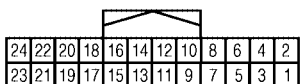
LAN-CAN-5



(M22)
W



(M49)
GR

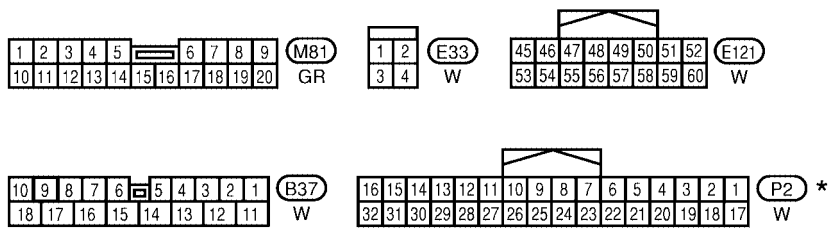
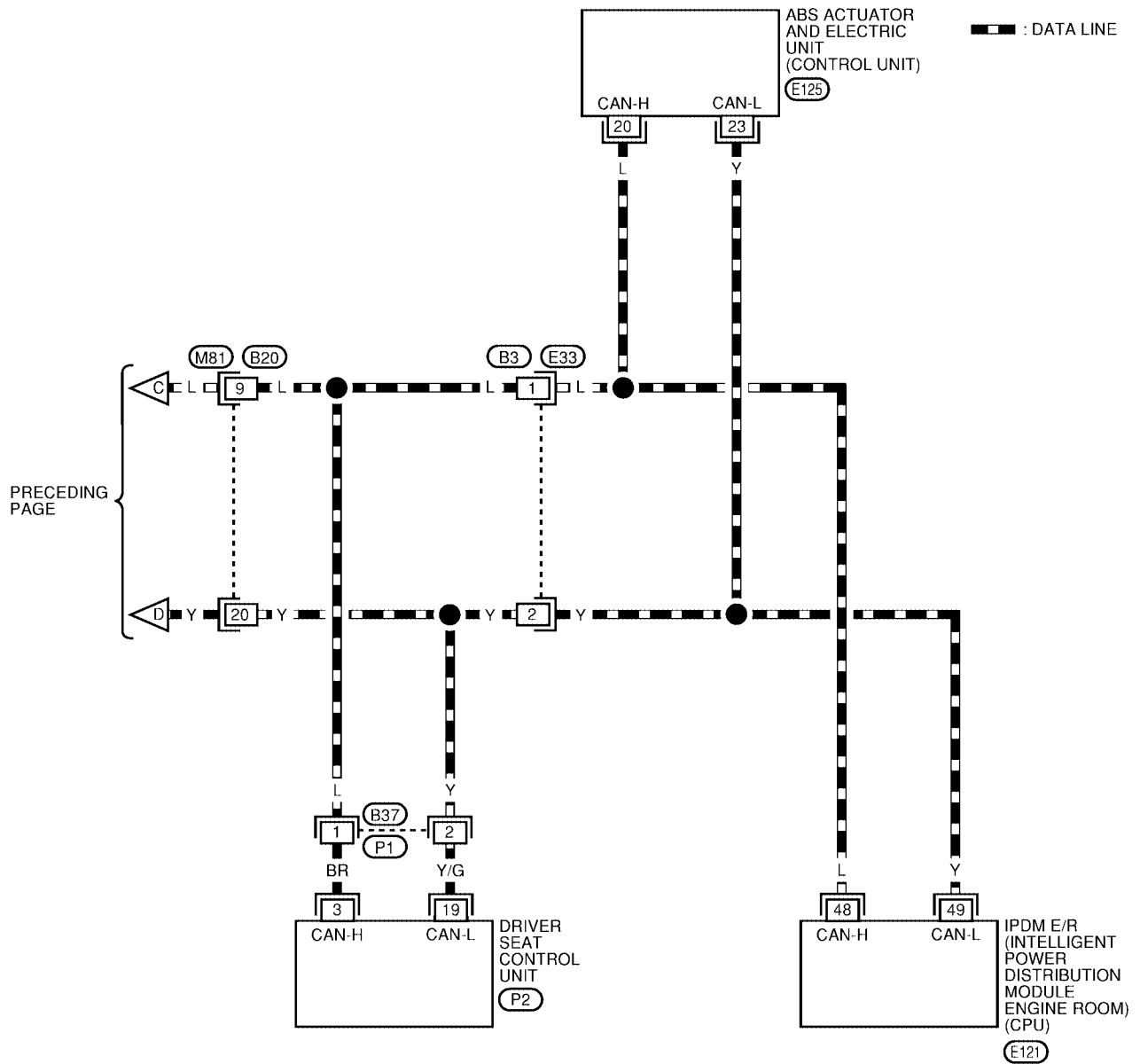


(M93)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-6



* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

REFER TO THE FOLLOWING.

(E125) - ELECTRICAL UNITS

WKWA0452E

CAN SYSTEM (TYPE 2)

[CAN]

EKS004ZS

Work Flow

- When there are no indications of "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".

(Example)

NISSAN				SELECT SYSTEM	
CONSULT-II				ENGINE	
ENGINE				A/T	
START (NISSAN BASED VHCL)				ABS	
START (RENAULT BASED VHCL)				AIR BAG	
SUB MODE				BCM	
				METER A/C AMP	
LIGHT COPY				BACK LIGHT COPY	

PKIA2093E

- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE		SELF-DIAG RESULTS	
WORK SUPPORT		DTC RESULTS TIME	
SELF-DIAG RESULTS		CAN COMM CIRCUIT [U1000] 0	
DATA MONITOR			
DATA MONITOR (SPEC)			
ACTIVE TEST			
FUNCTION TEST			
		F.F.DATA	
Scroll Down		ERASE PRINT	
BACK LIGHT COPY		MODE BACK LIGHT COPY	

PKIA2094E

- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE		DATA MONITOR		DATA MONITOR	
WORK SUPPORT		SELECT MONITOR ITEM		MONITOR NO DTC	
SELF-DIAG RESULTS		ECM INPUT SIGNALS		CAN COMM OK	
DATA MONITOR		MAIN SIGNALS		CAN CIRC 1 OK	
DATA MONITOR (SPEC)		CAN DIAG SUPPORT MNTR		CAN CIRC 2 OK	
ACTIVE TEST		SELECTION FROM MENU		CAN CIRC 3 OK	
FUNCTION TEST				CAN CIRC 4 OK	
				CAN CIRC 5 UNKWN	
Scroll Down				CAN CIRC 6 OK	
BACK LIGHT COPY		SETTING Numerical Display		CAN CIRC 7 OK	
		MODE BACK LIGHT COPY			
				RECORD	
				MODE BACK LIGHT COPY	

PKIA2095E

- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0438E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 2)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0651E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0652E

CAN SYSTEM (TYPE 2)

[CAN]

Case 2

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	~~CAN COMM~~	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0653E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	~~CIRC 3~~	-	~~CIRC 5~~	~~CIRC 2~~	-	-	~~CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0654E

Case 3

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	~~CAN CIRC 4~~	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0655E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0656E

CAN SYSTEM (TYPE 2)

[CAN]

Case 4

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0657E

Case 5

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0658E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0659E

Case 6

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0660E

Case 7

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	~~CAN CIRC 3~~	-	-	~~CAN CIRC 2~~	-	-	-

WKIA0661E

Case 8Check harness between data link connector and driver seat control unit. Refer to [LAN-51](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	~~CAN CIRC 7~~
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	~~CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	~~CAN CIRC 5~~	~~CAN CIRC 6~~
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	CAN CIRC 4	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	~~No Disp~~	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	-	-	-	-
IPDM E/R	~~No Disp~~	-	CIRC 1	CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0662E

Case 9Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-52](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	~~CAN CIRC 7~~
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	~~CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	~~CAN CIRC 5~~	~~CAN CIRC 6~~
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	CAN CIRC 4	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	-	-	-	-
IPDM E/R	~~No Disp~~	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0663E

Case 10Check ECM circuit. Refer to [LAN-52](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	~~CAN CIRC 1~~	-	-	~~CAN CIRC 4~~	~~CAN CIRC 6~~	-	-	~~CAN CIRC 7~~
DISPLAY UNIT	-	CAN COMM	CIRC 1	~~CIRC 3~~	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	~~CAN CIRC 2~~	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	~~CIRC 2~~	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	~~CAN CIRC 3~~	-	-	CAN CIRC 2	-	-	-

WKIA0664E

Case 11Check display unit circuit. Refer to [LAN-53](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0665E

Case 12Check data link connector circuit. Refer to [LAN-53](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0666E

Case 13Check BCM circuit. Refer to [LAN-54](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0667E

Case 14Check unified meter and A/C amp. circuit. Refer to [LAN-54](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0668E

CAN SYSTEM (TYPE 2)

[CAN]

Case 15

Check driver seat control unit circuit. Refer to [LAN-55](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0669E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-55](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0670E

Case 17

Check IPDM E/R circuit. Refer to [LAN-56](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0671E

Case 18

Check CAN communication circuit. Refer to [LAN-56](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0672E

Case 19

Check IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0673E

Case 20

Check IPDM E/R Ignition relay circuit. Refer to [LAN-57](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0674E

Circuit Check Between Driver Seat Control Unit and Data Link Connector

EKS004ZU

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

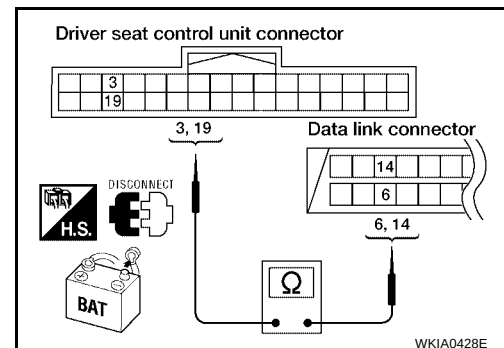
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-44](#).
NG >> Repair harness.



WKIA0428E

Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

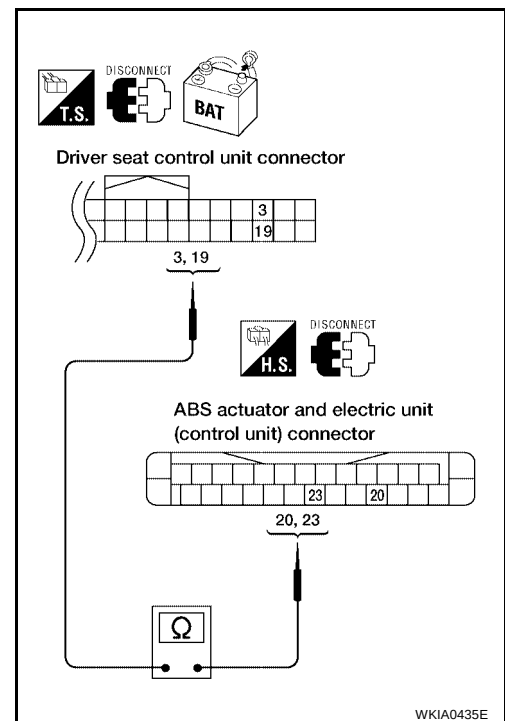
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-44](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

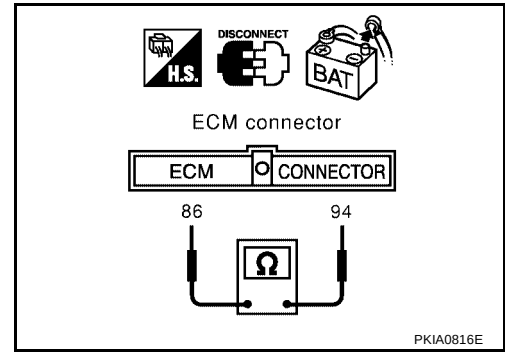
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and data link connector M22.



EKS004ZY

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

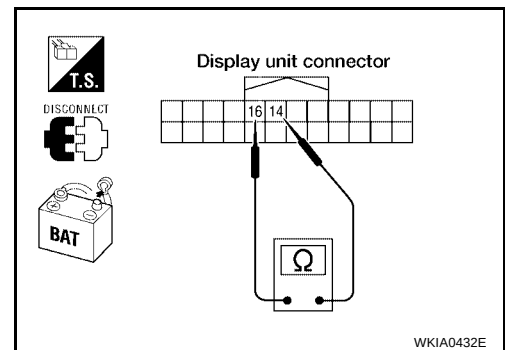
Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



EKS004ZZ

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

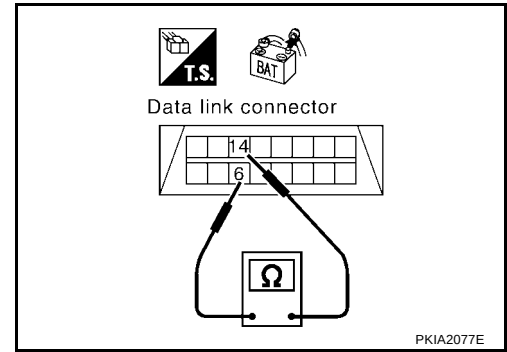
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-44](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS00500

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

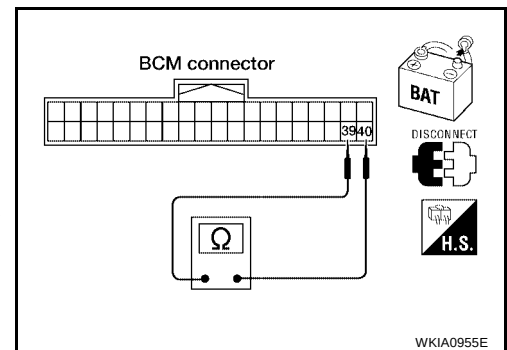
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
- NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00501

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

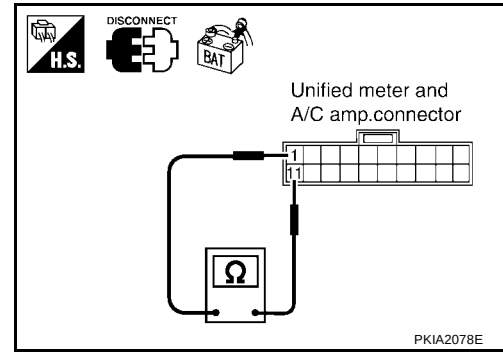
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS00502

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

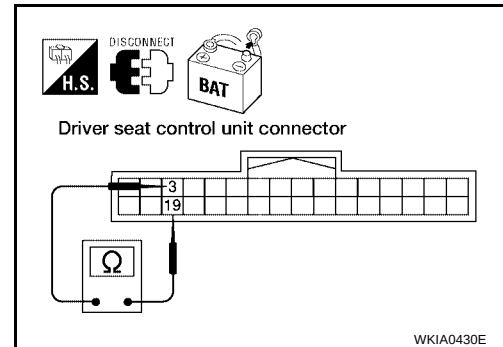
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



EKS00503

ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

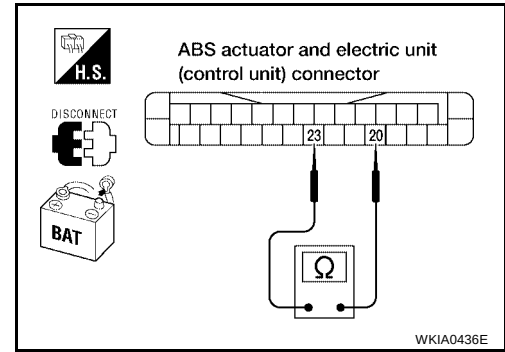
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS00504

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

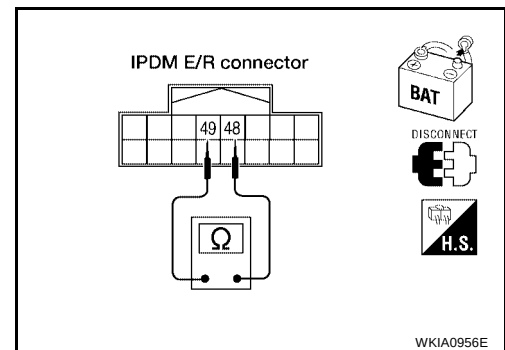
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS00505

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

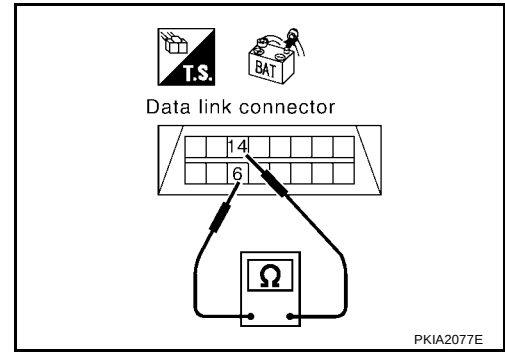
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

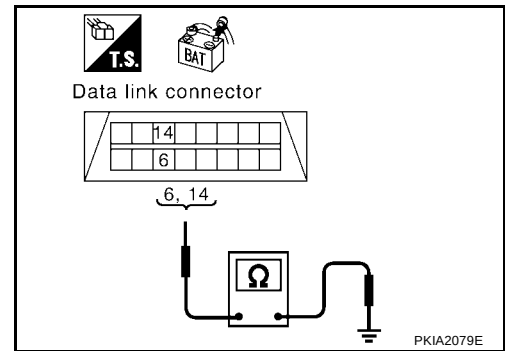
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-57, "Component Inspection"](#).
NG >> Repair the harness.



IPDM E/R Ignition Relay Circuit Check

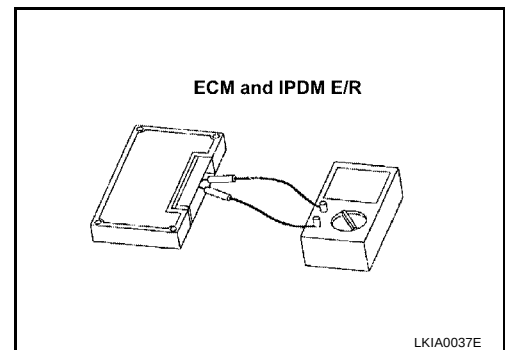
Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 3)

PFP:23710

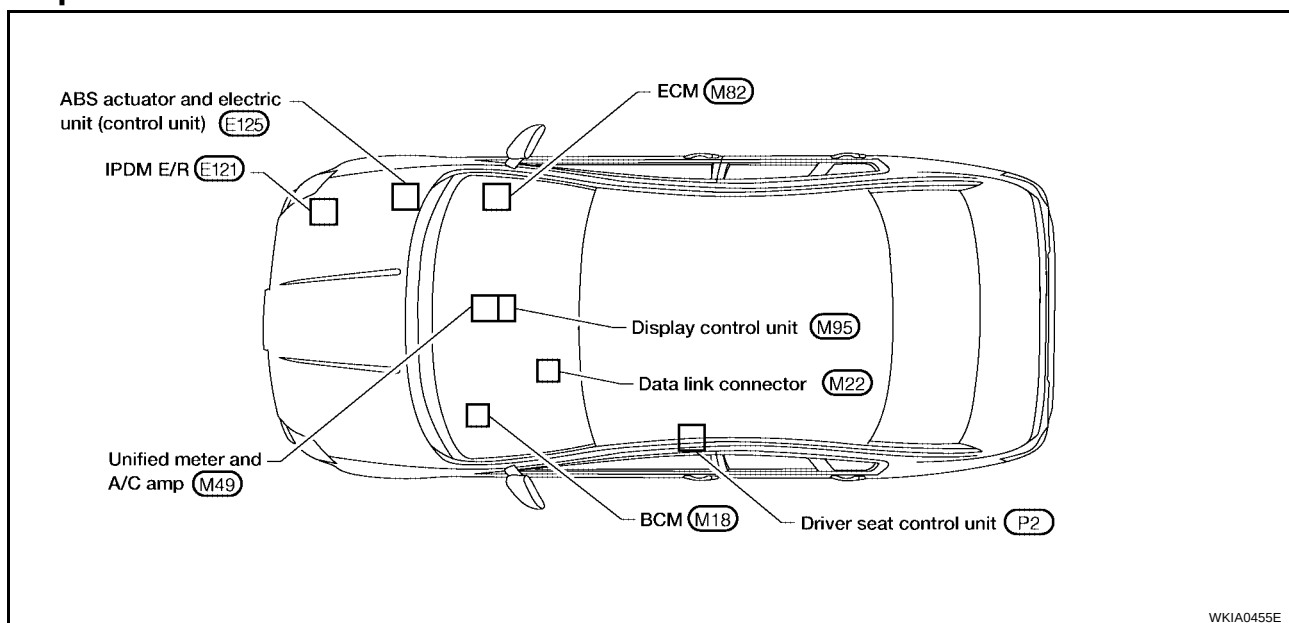
System Description

EKS004Z4

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

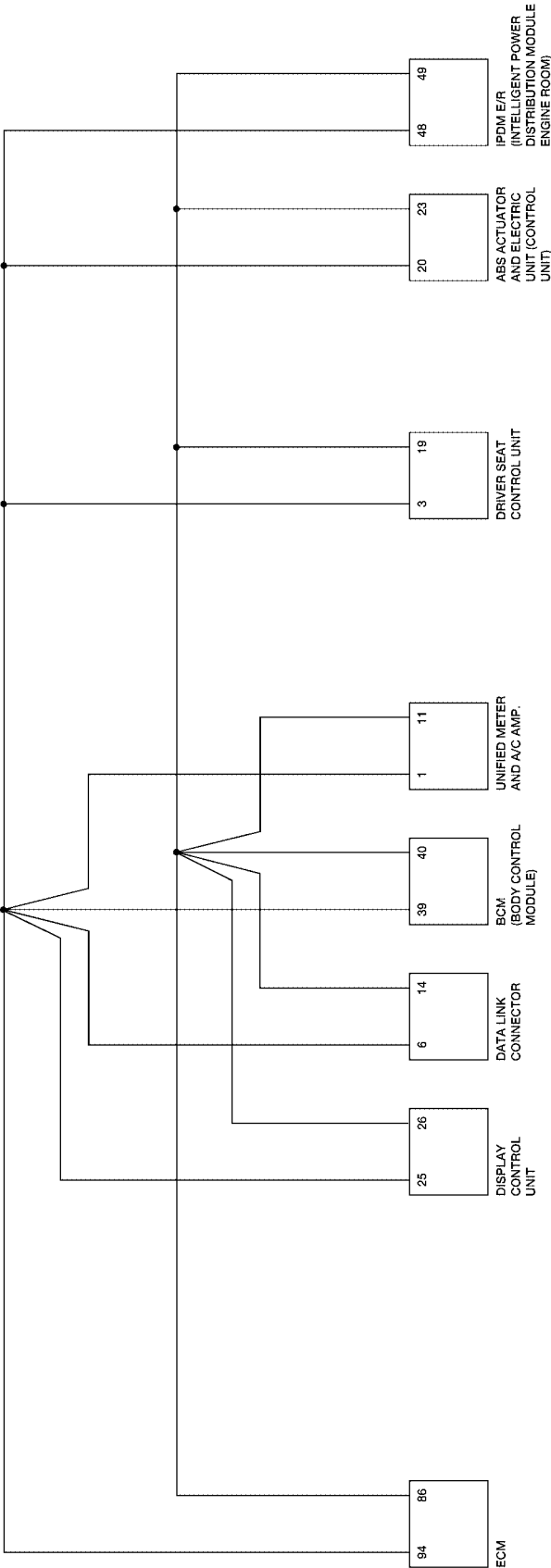
EKS004Z5



WKIA0455E

Schematic

EKS004Z6



A

B

C

D

E

F

G

H

I

J

LAN

L

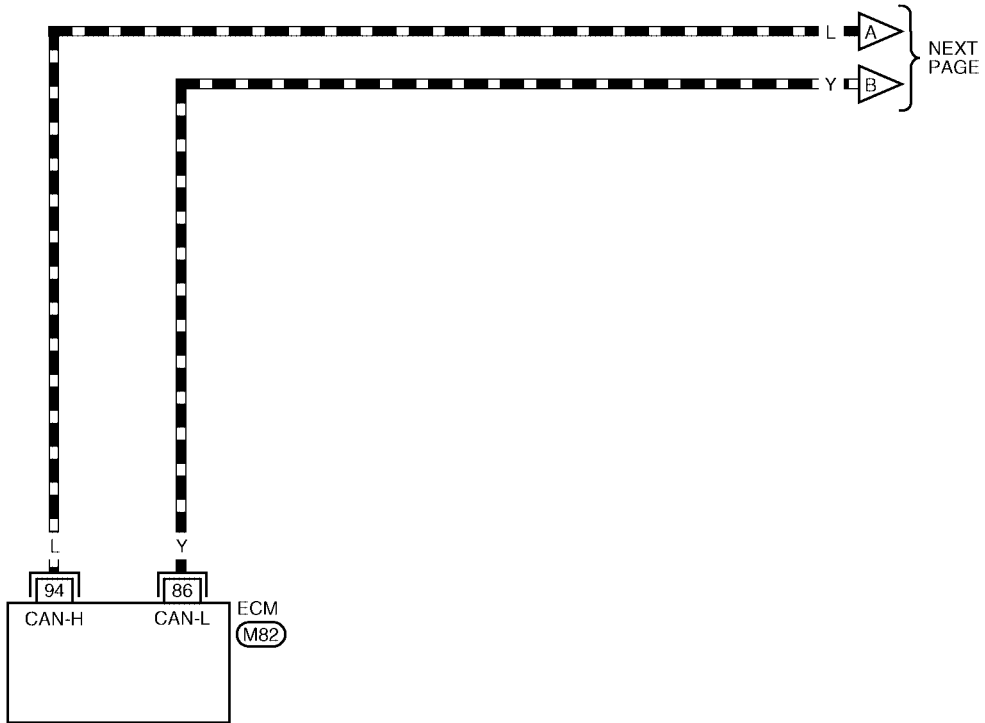
M

WKWA0445E

Wiring Diagram - CAN -

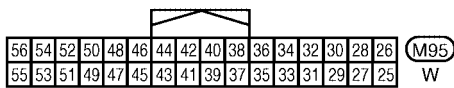
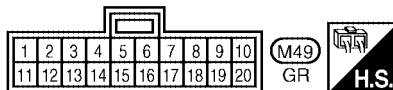
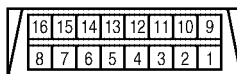
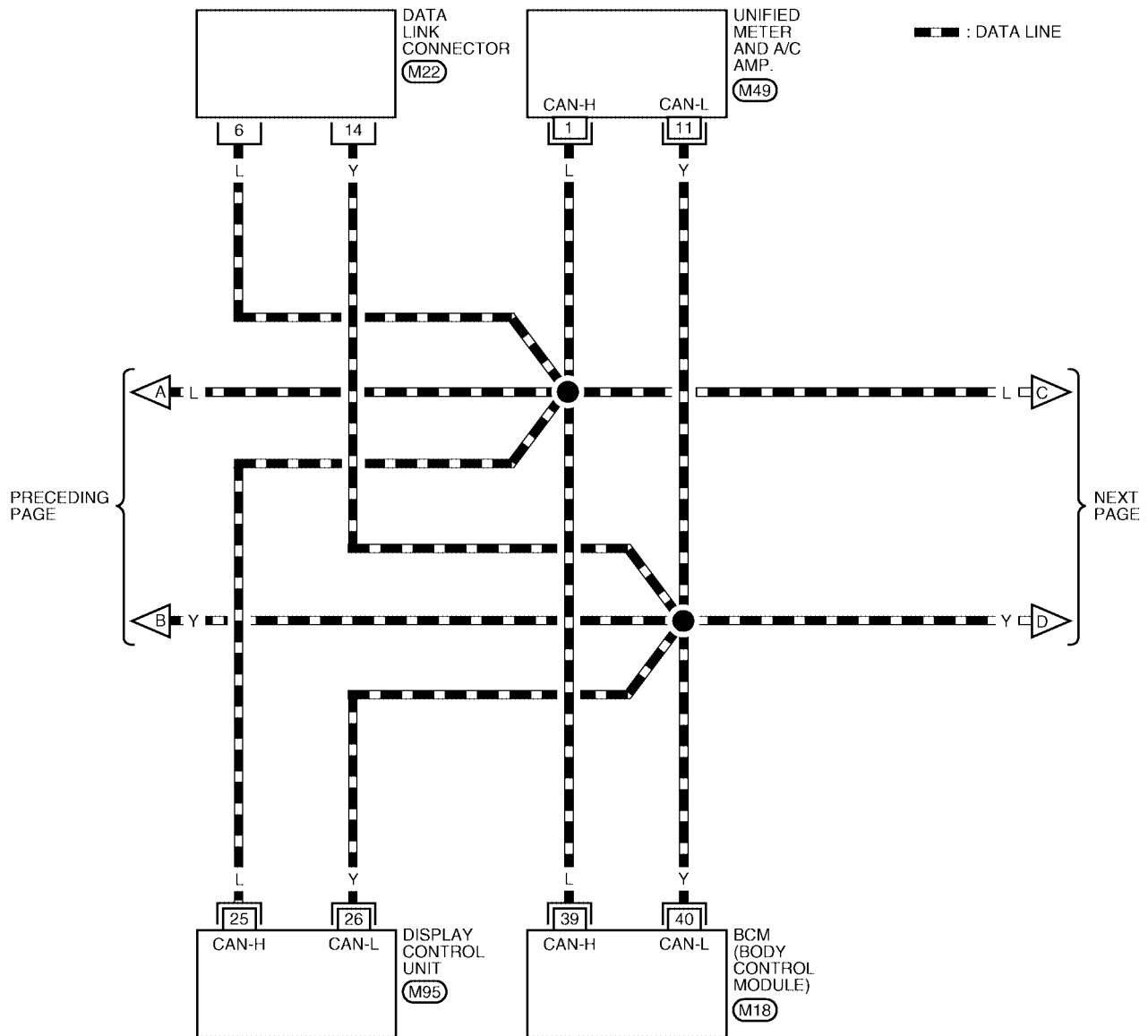
LAN-CAN-7

■ ■ ■ : DATA LINE



REFER TO THE FOLLOWING.
(M82) - ELECTRICAL
UNITS

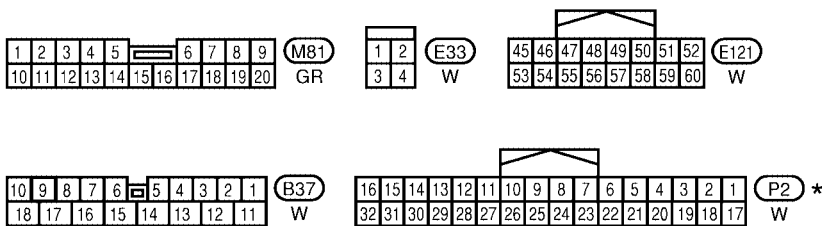
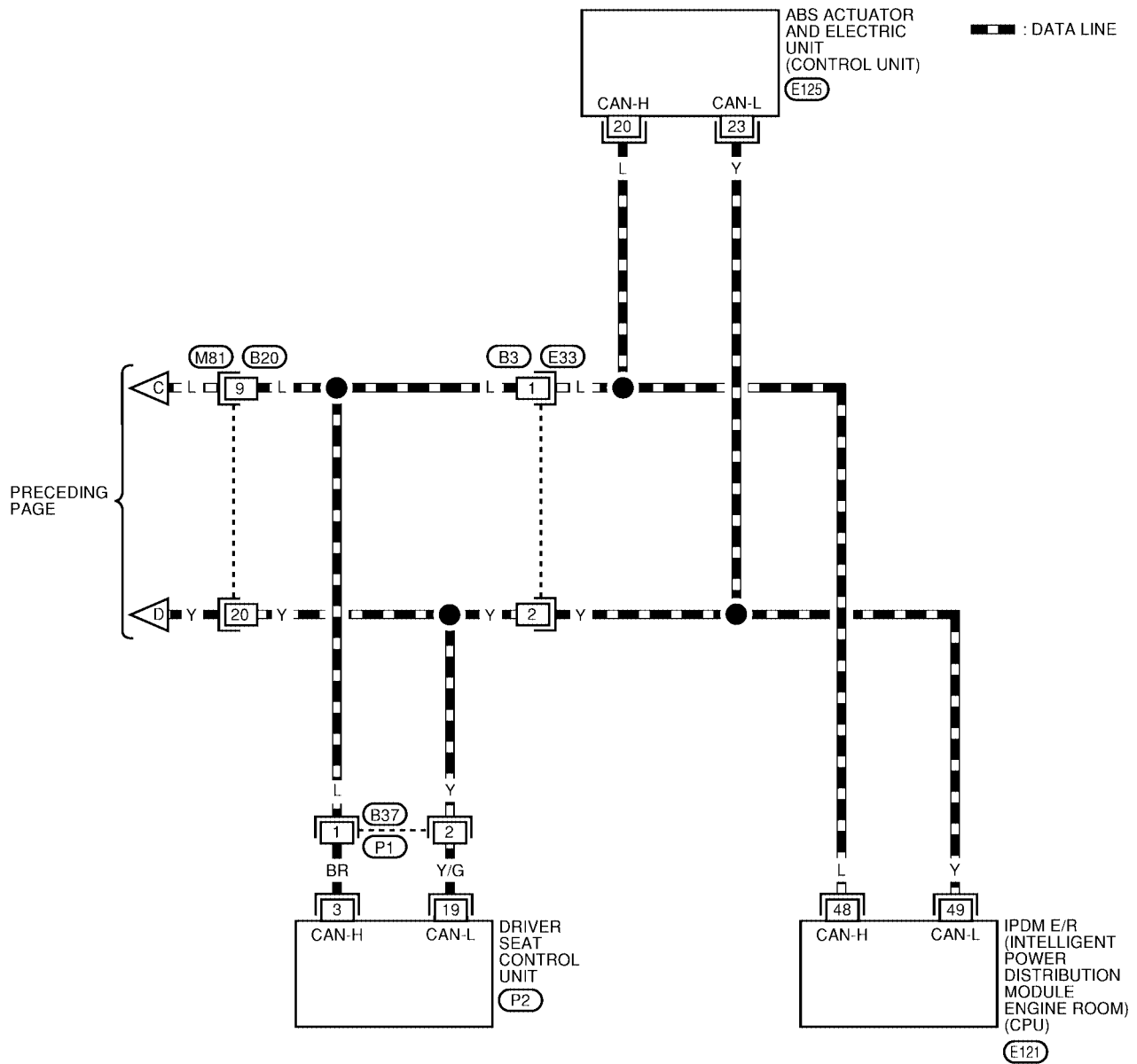
LAN-CAN-8



REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-9



REFER TO THE FOLLOWING.

(E125) - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WKWA0448E

Work Flow

1. When there are no indications of "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".

(Example)

NISSAN	
CONSULT-II	
ENGINE	
START (NISSAN BASED VHCL)	
START (RENAULT BASED VHCL)	
SUB MODE	
	LIGHT COPY

SELECT SYSTEM			
ENGINE			
A/T			
ABS			
AIR BAG			
BCM			
METER A/C AMP			
BACK	LIGHT	COPY	

PKIA2093E

2. Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE	
WORK SUPPORT	
SELF-DIAG RESULTS	
DATA MONITOR	
DATA MONITOR (SPEC)	
ACTIVE TEST	
FUNCTION TEST	
Scroll Down	
BACK	LIGHT COPY

SELF-DIAG RESULTS	
DTC RESULTS	TIME
CAN COMM CIRCUIT [U1000]	0
F.F.DATA	
ERASE	PRINT
MODE	BACK
LIGHT	COPY

PKIA2094E

3. Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE	
WORK SUPPORT	
SELF-DIAG RESULTS	
DATA MONITOR	
DATA MONITOR (SPEC)	
ACTIVE TEST	
FUNCTION TEST	
Scroll Down	
BACK	LIGHT COPY

DATA MONITOR		
SELECT MONITOR ITEM		
ECM INPUT SIGNALS		
MAIN SIGNALS		
CAN DIAG SUPPORT MNTR		
SELECTION FROM MENU		
SETTING	Numerical Display	
MODE	BACK	LIGHT COPY

DATA MONITOR	
MONITOR	NO DTC
CAN COMM	OK
CAN CIRC 1	OK
CAN CIRC 2	OK
CAN CIRC 3	OK
CAN CIRC 4	OK
CAN CIRC 5	UNKWN
CAN CIRC 6	OK
CAN CIRC 7	OK
RECORD	
MODE	BACK
LIGHT	COPY

PKIA2095E

4. Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx					
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-

WKIA0439E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 3)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Check CAN communication line of the navigation system.
- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0675E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0675E

CAN SYSTEM (TYPE 3)

[CAN]

Case 2

Replace display control unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

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	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 3~~	-	~~CAN CIRC 5~~	~~CAN CIRC 2~~	-	-	~~CAN CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0678E

Case 3

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	~~CAN CIRC 4~~	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0679E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0680E

CAN SYSTEM (TYPE 3)

[CAN]

Case 4

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0681E

Case 5

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

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	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0683E

Case 6

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0684E

CAN SYSTEM (TYPE 3)

[CAN]

Case 7

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0685E

Case 8

Check harness between data link connector and driver seat control unit. Refer to LAN-70.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0686E

Case 9

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to LAN-71.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator/ and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0687E

Case 10

Check ECM circuit. Refer to LAN-71.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0688E

Case 11Check display control unit circuit. Refer to [LAN-72](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	~~CAN CIRC 1~~	~~CAN CIRC 3~~	-	~~CAN CIRC 5~~	~~CAN CIRC 2~~	-	-	~~CAN CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 7~~	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 2	-	-	-

WKIA0689E

Case 12Check data link connector circuit. Refer to [LAN-72](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0690E

Case 13Check BCM circuit. Refer to [LAN-73](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4		-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5		-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-		-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3		-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-		-	-	-

WKIA0691E

Case 14Check unified meter and A/C amp. circuit. Refer to [LAN-73](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	~~CAN CIRC 4~~	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	~~CAN CIRC 5~~	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	~~CAN CIRC 4~~	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	~~CAN CIRC 3~~	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0692E

CAN SYSTEM (TYPE 3)

[CAN]

Case 15

Check driver seat control unit circuit. Refer to [LAN-74](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0693E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-74](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0694E

Case 17

Check IPDM E/R circuit. Refer to [LAN-75](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0695E

Case 18

Check CAN communication circuit. Refer to [LAN-75](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0696E

Case 19

Check IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0697E

Case 20Check IPDM E/R Ignition relay circuit. Refer to [LAN-76](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 2	-	-	-

WKIA0698E

Circuit Check Between Driver Seat Control Unit and Data Link Connector

EKS004ZA

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

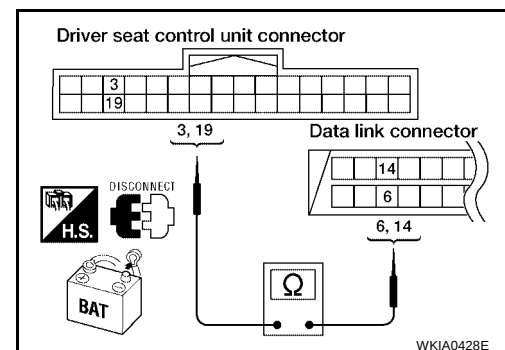
3 (BR) - 6 (L) : Continuity should exist.

19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-63](#).

NG >> Repair harness.



WKIA0428E

Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

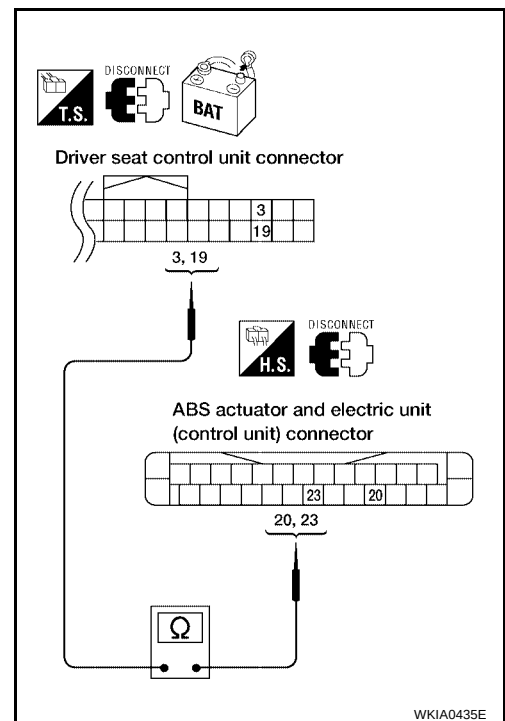
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-63](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

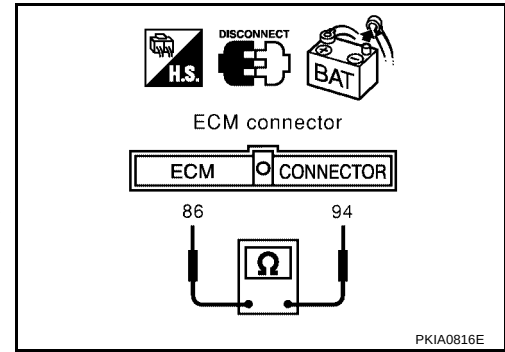
94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and data link connector M22.



EKS004ZE

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

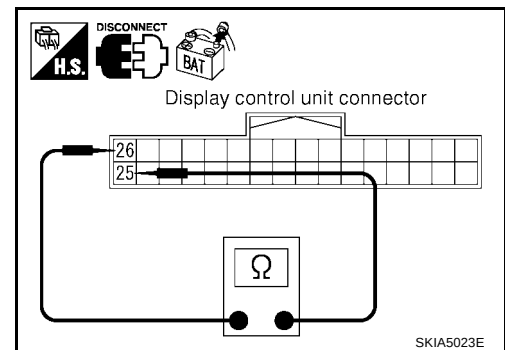
25 (L) - 26 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace display control unit.

NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS004ZF

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

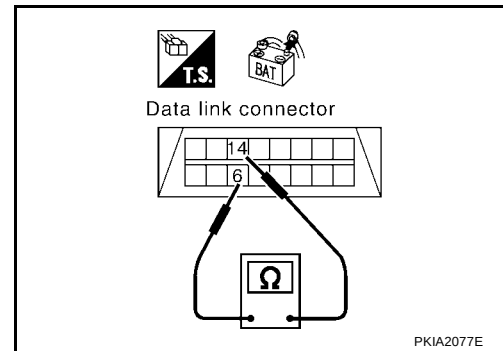
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-63](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS004ZG

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

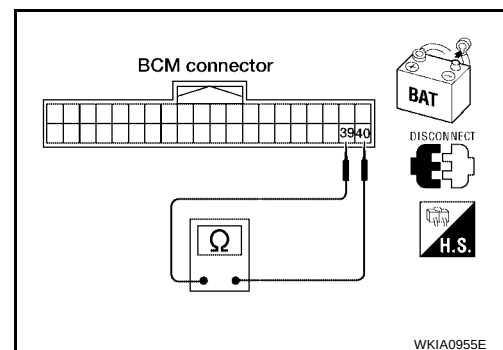
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
- NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS004ZH

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

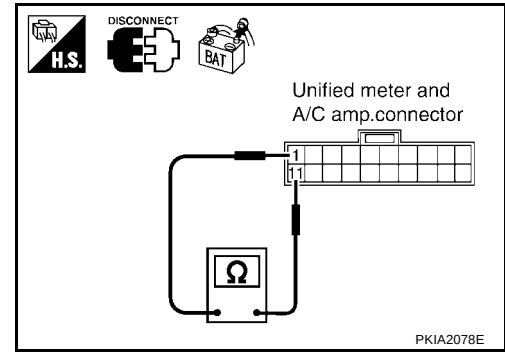
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
- NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS004ZJ

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

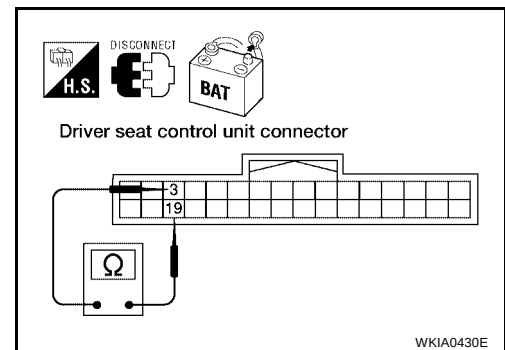
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



EKS004ZJ

ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

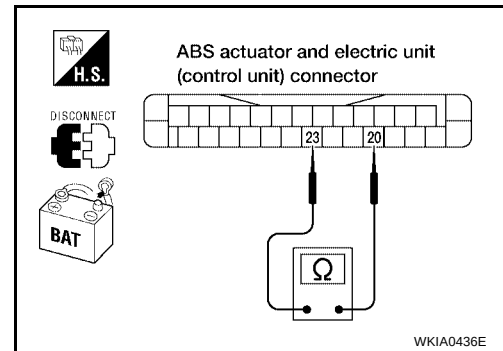
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS004ZK

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

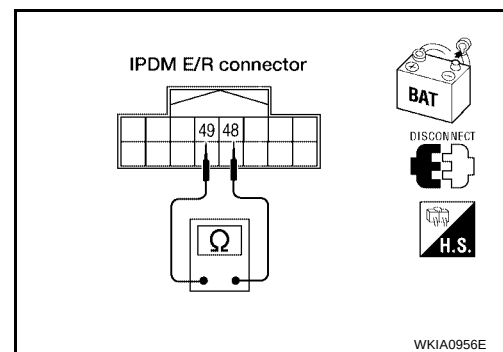
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS004ZL

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

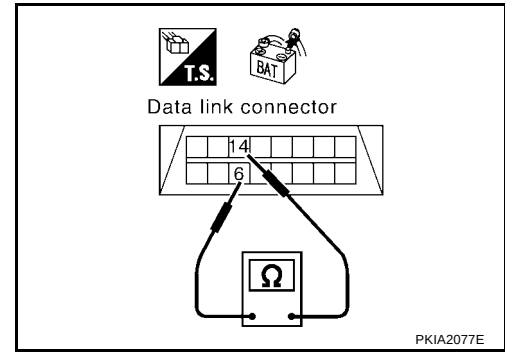
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

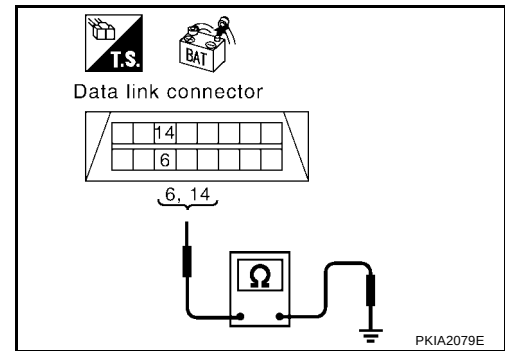
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-58, "Component Parts and Harness Connector Location" LAN-58](#) .
NG >> Repair the harness.



IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#) .
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#) .

Component Inspection

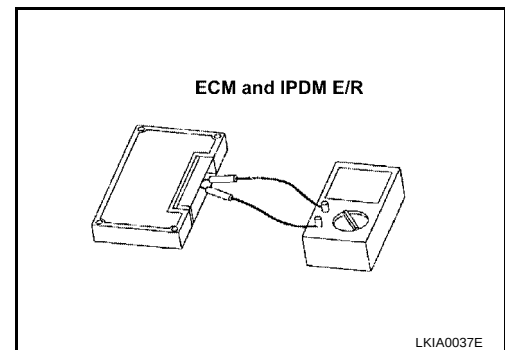
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 4)

PFP:23710

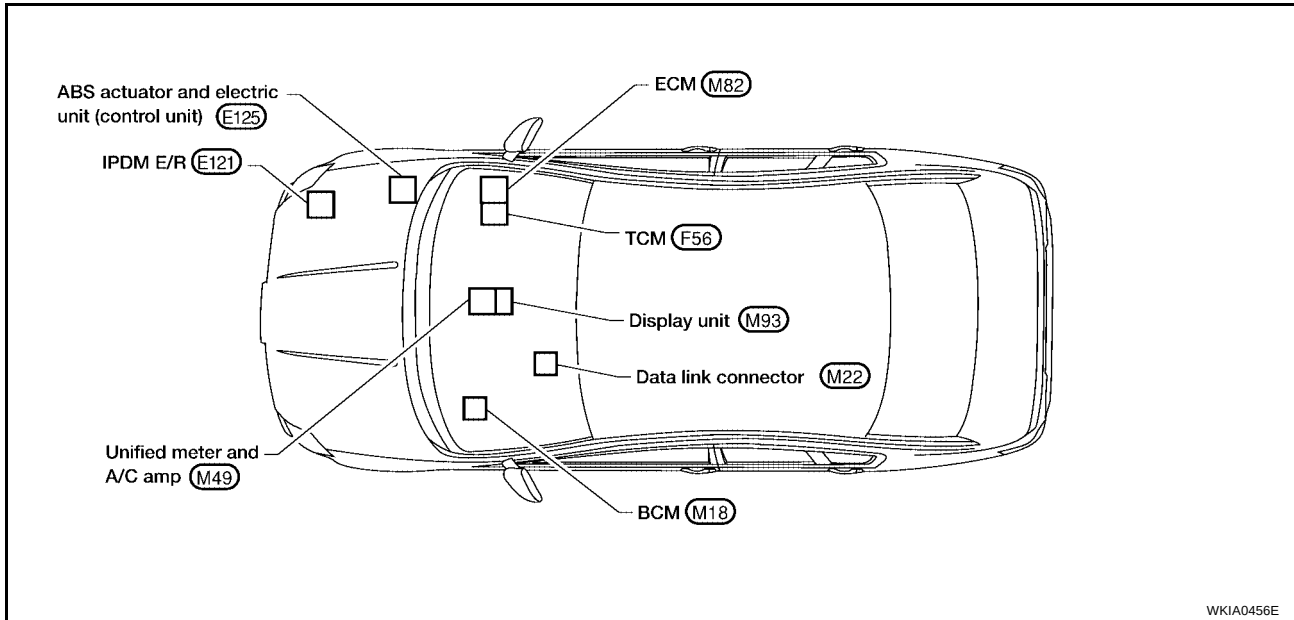
System Description

EKS004YK

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

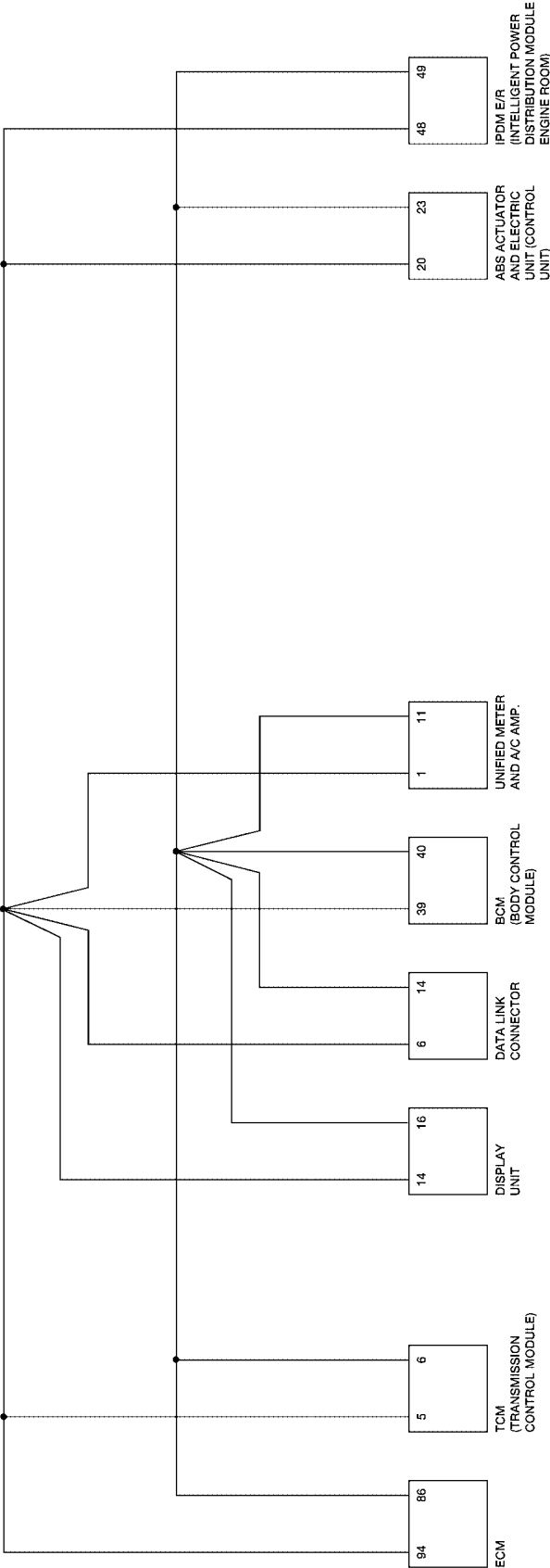
EKS004YL



A
B
C
D
E
F
G
H
I
J
LAN
L
M

Schematic

EKS004YM



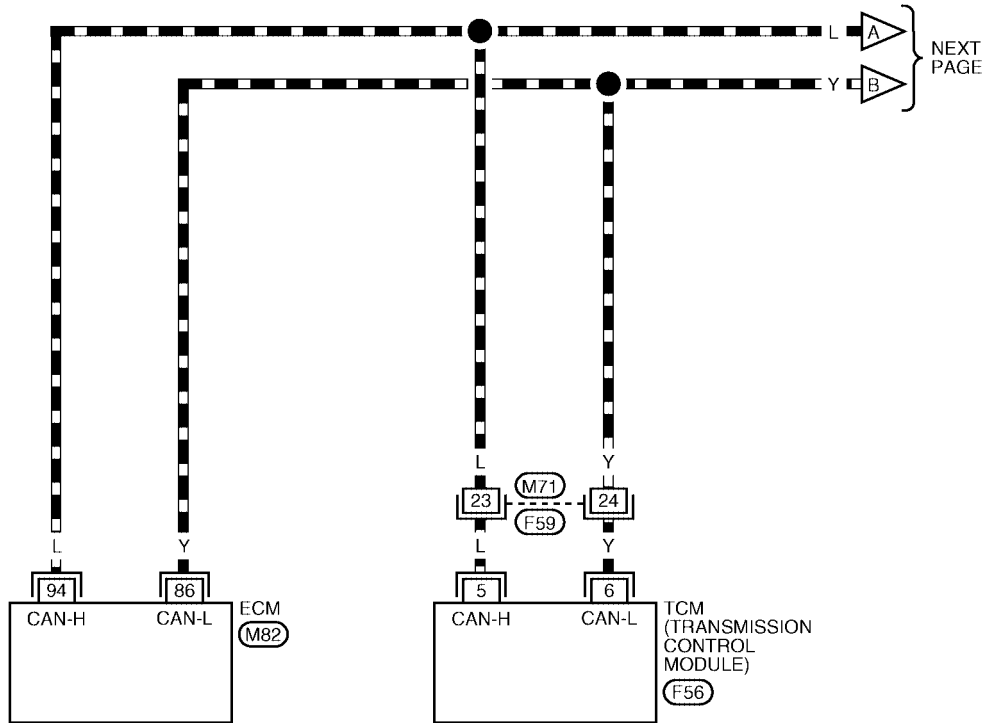
WKWA0441E

Wiring Diagram - CAN -

EKS004YN

LAN-CAN-10

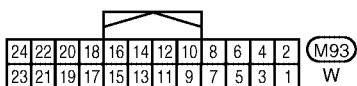
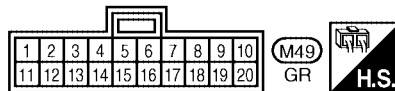
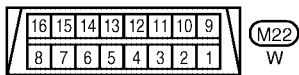
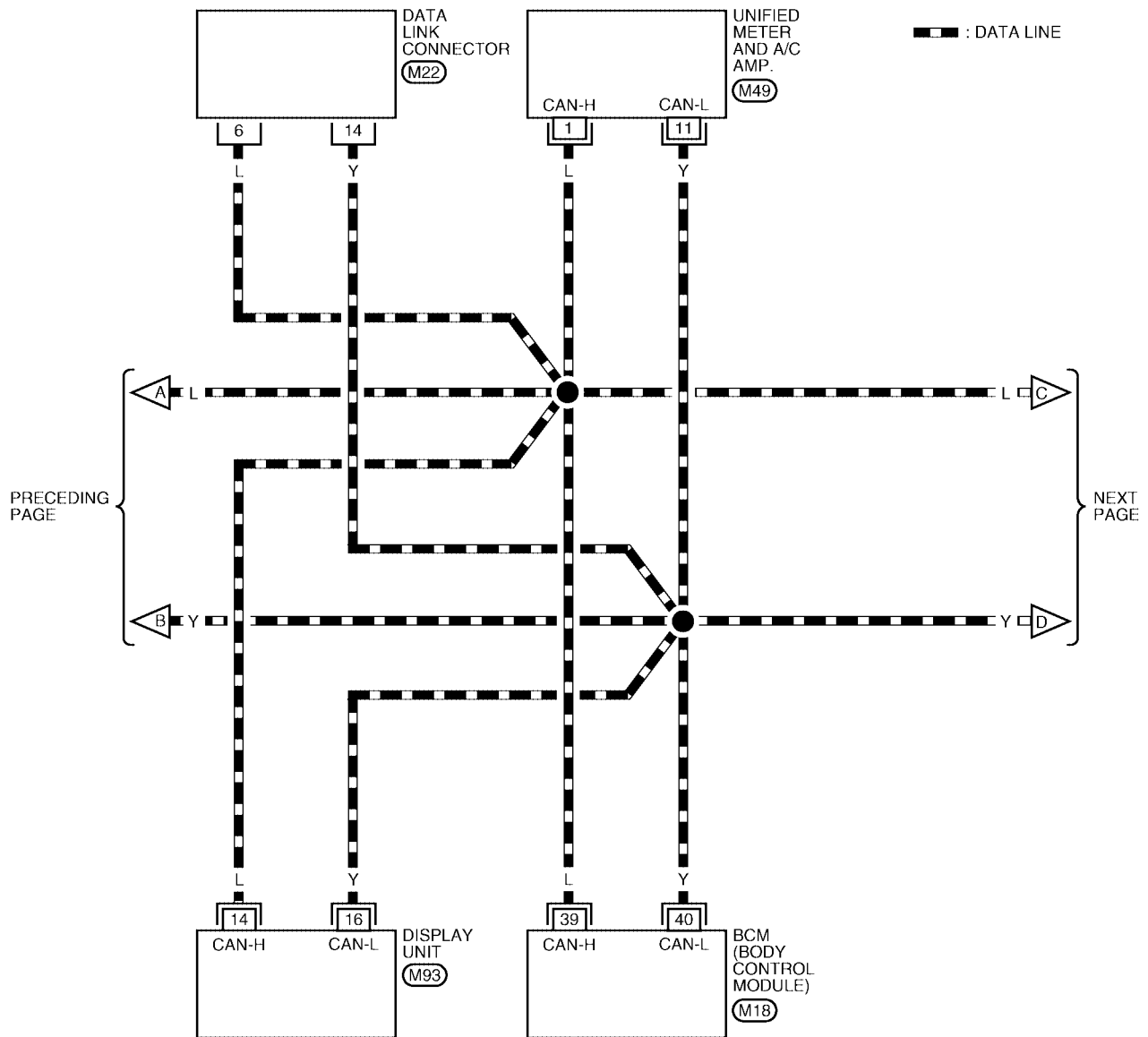
: DATA LINE



1	2	3	4	5	6			7	8	9	10	11	F59
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
M82, F56 - ELECTRICAL
UNITS

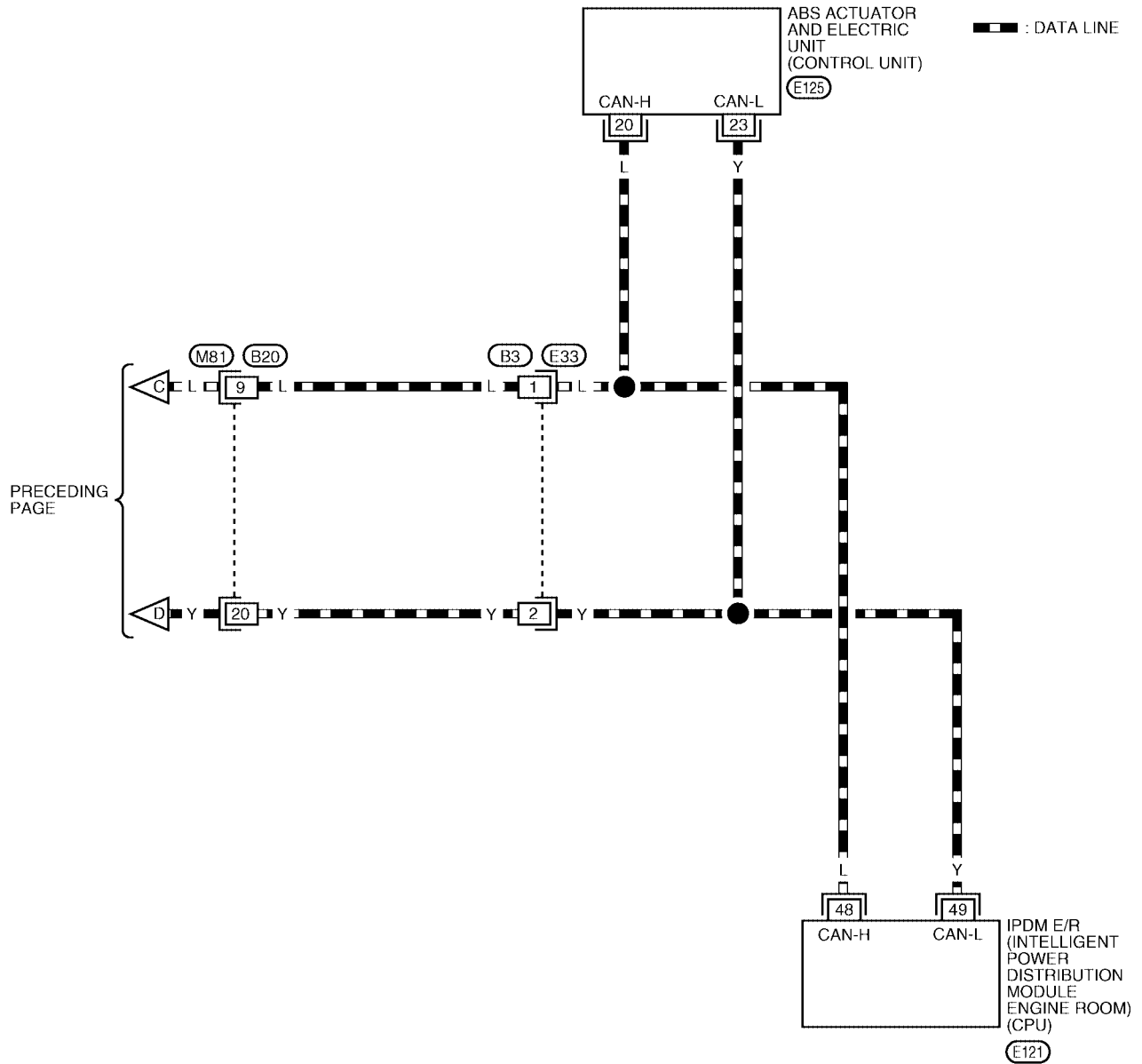
LAN-CAN-11



REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-12



1	2	3	4	5			6	7	8	9	M81 GR
10	11	12	13	14	15	16	17	18	19	20	

1	2	(E33)
3	4	W

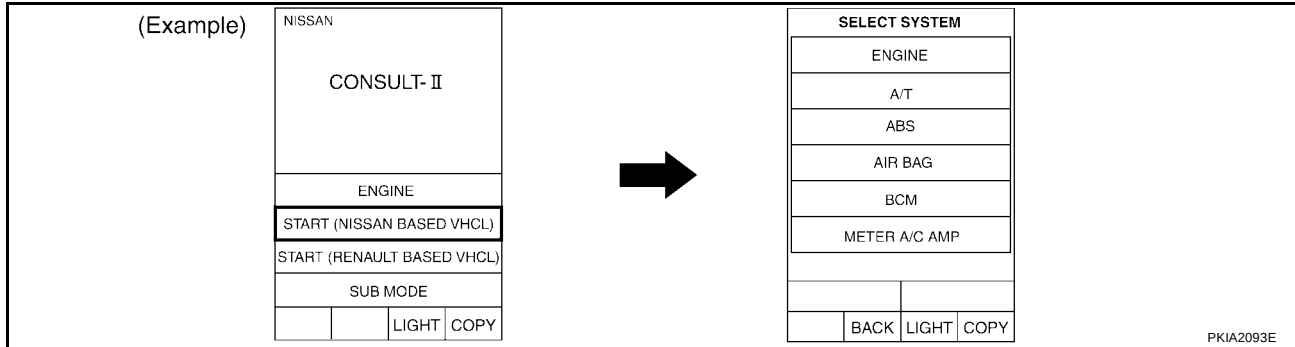
45	46	47	48	49	50	51	52	(E121)
53	54	55	56	57	58	59	60	W

REFER TO THE FOLLOWING.

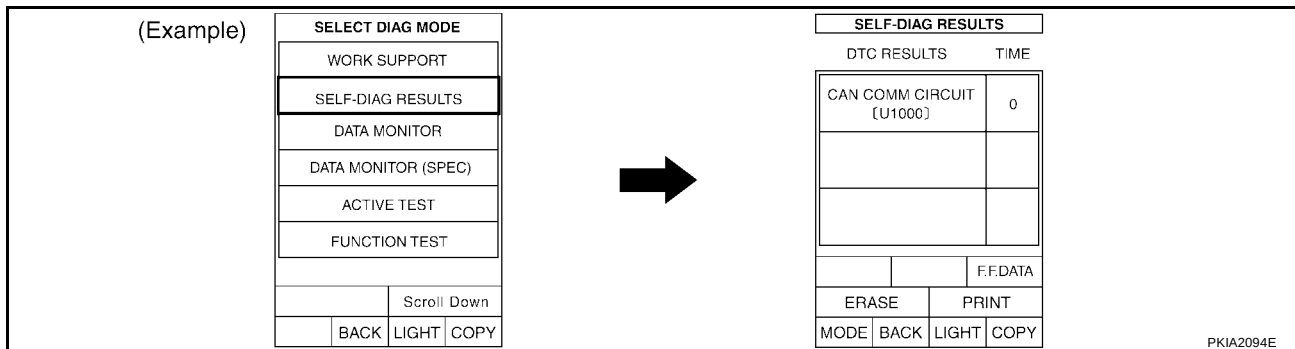
(E125) - ELECTRICAL UNITS

Work Flow

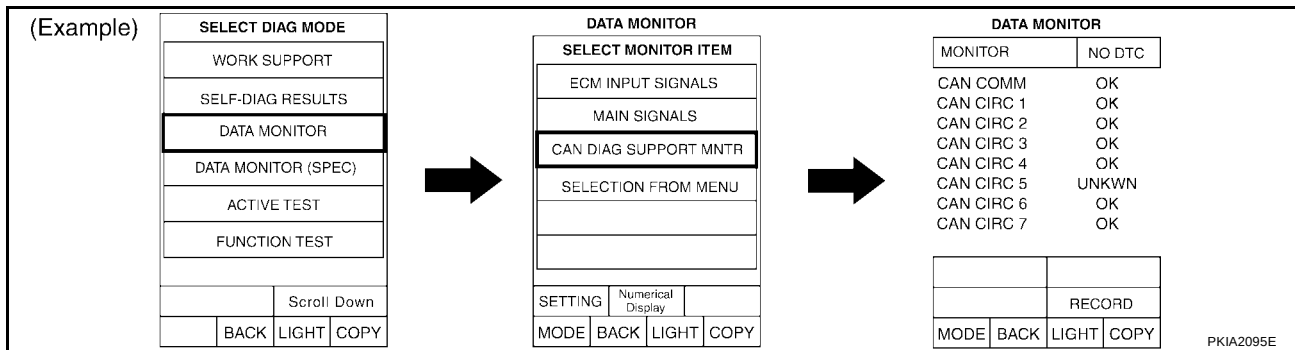
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM" or "IPDM E/R" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 4)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0699E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0700E

CAN SYSTEM (TYPE 4)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0701E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0702E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0703E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0704E

CAN SYSTEM (TYPE 4)

[CAN]

Case 4

Replace BCM. Refer to.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0705E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0706E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0707E

CAN SYSTEM (TYPE 4)

[CAN]

Case 6

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	~~CAN CIRC 5~~	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0708E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0709E

Case 7

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	~~CAN CIRC 3~~	-	-	-	~~CAN CIRC 2~~	-	-

WKIA0710E

Case 8

Check harness between TCM and data link connector. Refer to [LAN-90](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	~~CAN CIRC 4~~	~~CAN CIRC 6~~	-	~~CAN CIRC 7~~
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	~~CAN CIRC 4~~	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	~~CAN CIRC 2~~	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	~~CAN CIRC 3~~	-	-	-	CAN CIRC 2	-	-

WKIA0711E

CAN SYSTEM (TYPE 4)

[CAN]

Case 9

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-90](#)

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0712E

Case 10

Check ECM circuit. Refer to [LAN-91](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0713E

Case 11

Check TCM circuit. Refer to [LAN-92](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0714E

Case 12

Check display unit circuit. Refer to [LAN-92](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0715E

Case 13Check data link connector circuit. Refer to [LAN-93](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0716E

Case 14Check BCM circuit. Refer to [LAN-93](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	✓ CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	✓ CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	✓ CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	✓ CAN CIRC 2	-	-

WKIA0717E

Case 15Check unified meter and A/C amp. circuit. Refer to [LAN-94](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	✓ CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	✓ CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	✓ CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	✓ CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0718E

Case 16Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-94](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	✓ CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	✓ CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0719E

CAN SYSTEM (TYPE 4)

[CAN]

Case 17

Check IPDM E/R circuit. Refer to [LAN-95](#).

	CONSUL I Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0720E

Case 18

Check CAN communication circuit. Refer to [LAN-95](#).

	CONSUL I Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0721E

Case 19

Check IPDM E/R Ignition relay circuit. Refer to [LAN-96](#).

	CONSUL I Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0722E

	CONSUL I Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0723E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

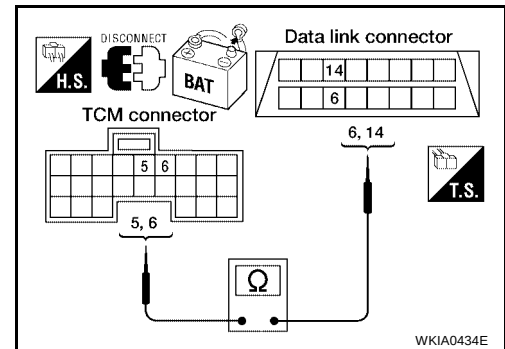
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-82, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

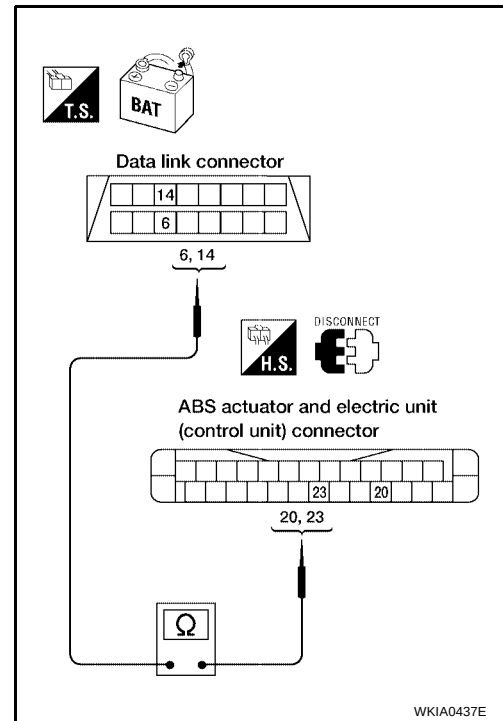
6 (L) - 20 (L) : Continuity should exist.

14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-82](#).

NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

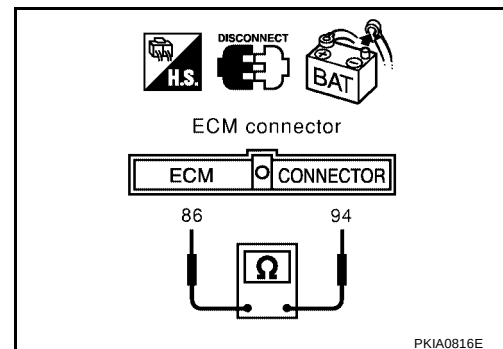
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and TCM connector F56.



TCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

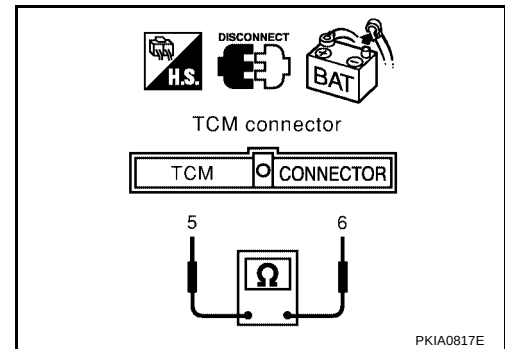
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS004YU

Display Unit Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

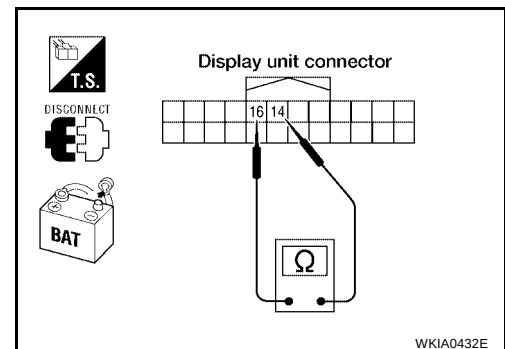
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



WKIA0432E

Data Link Connector Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

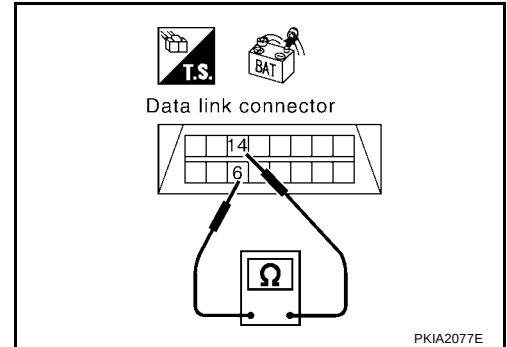
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-82](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



PKIA2077E

EKS004YV

BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

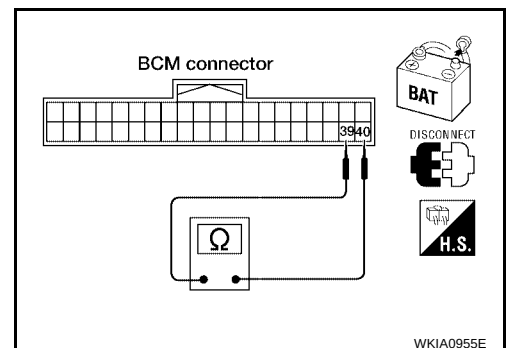
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



WKIA0955E

LAN

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

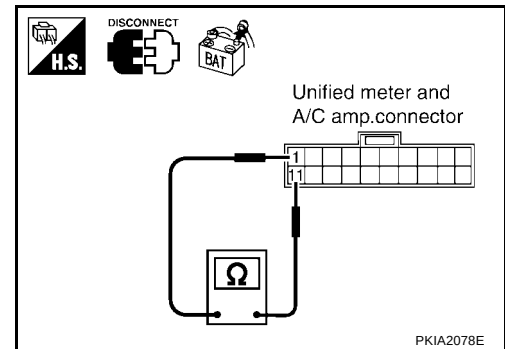
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

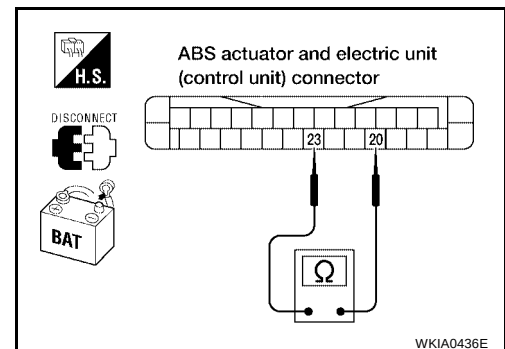
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

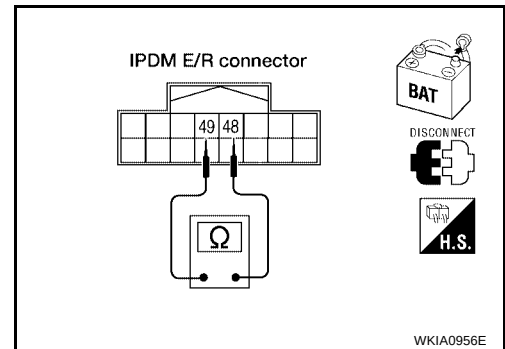
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

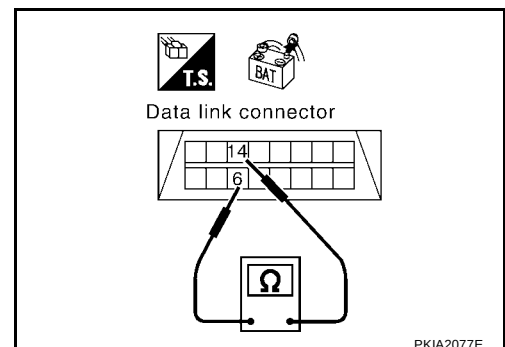
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

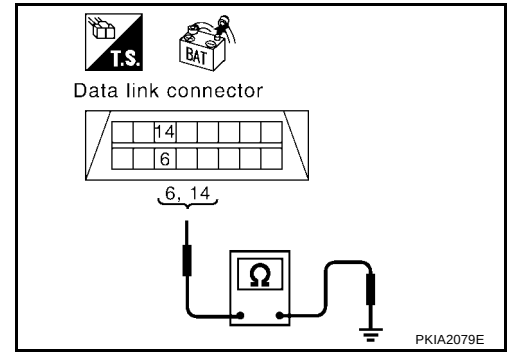
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-96, "Component Inspection"](#).

NG >> Repair the harness.



EKS004Z2

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

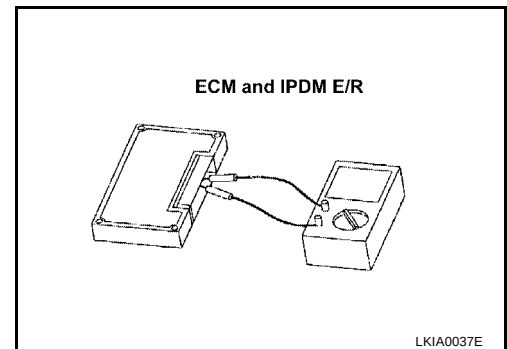
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS004Z3

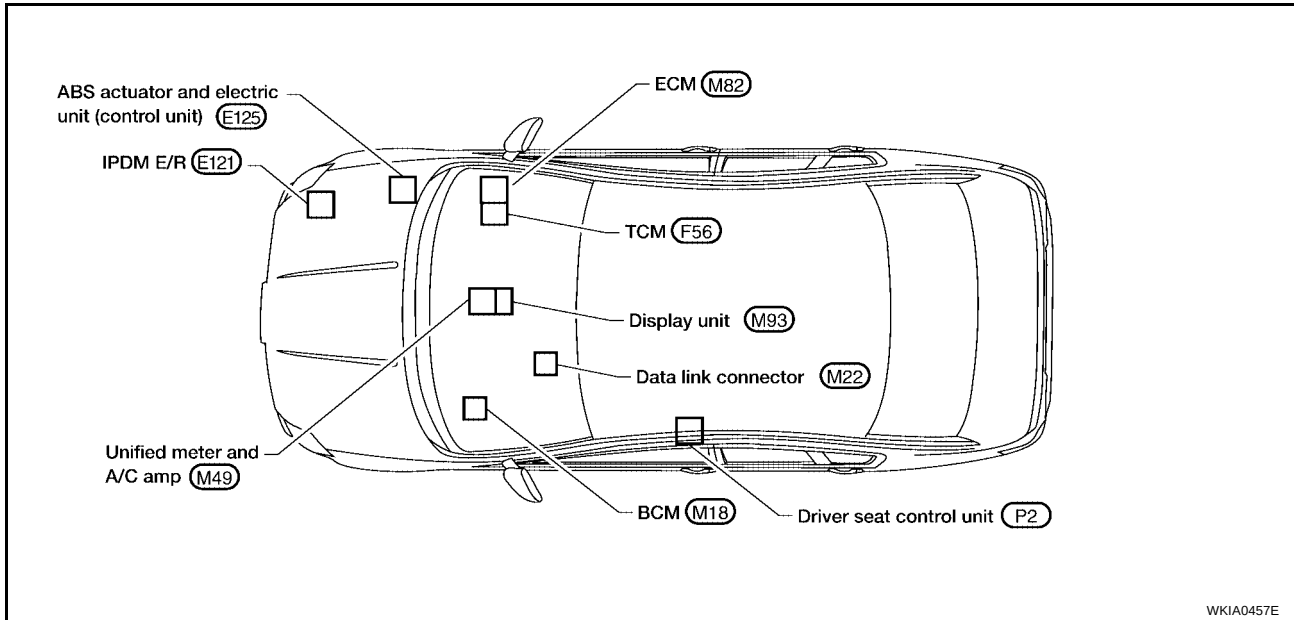


CAN SYSTEM (TYPE 5)

System Description

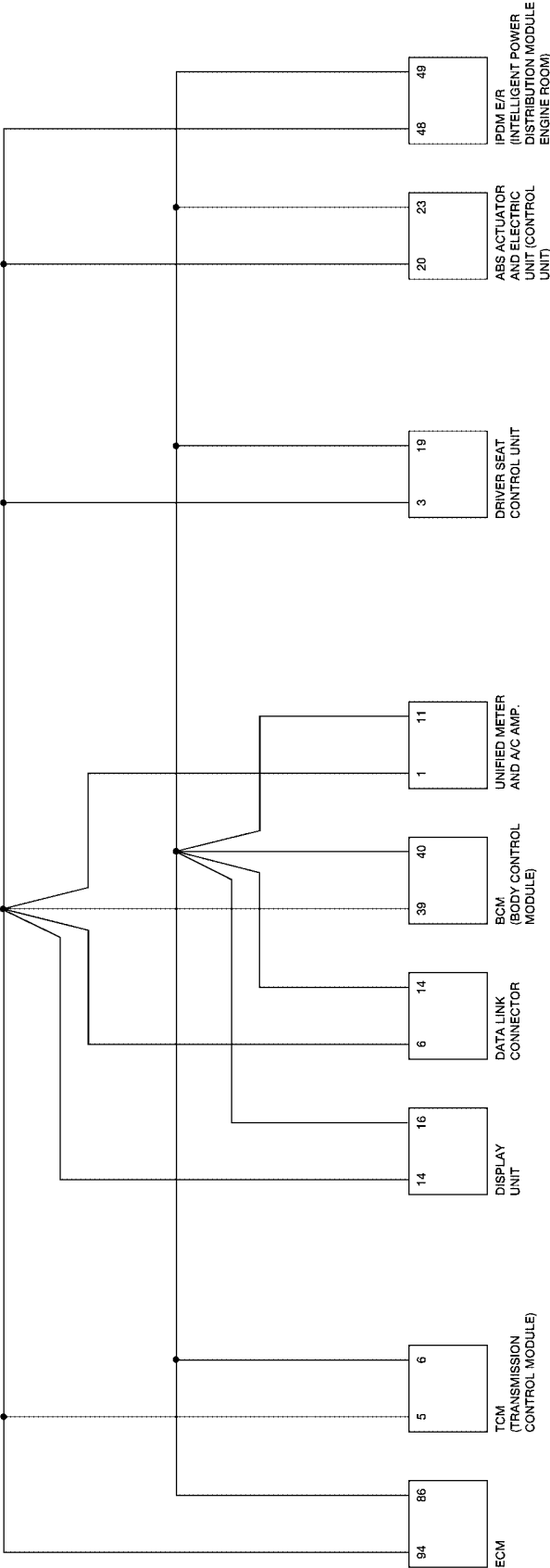
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location



Schematic

EKS004Y2

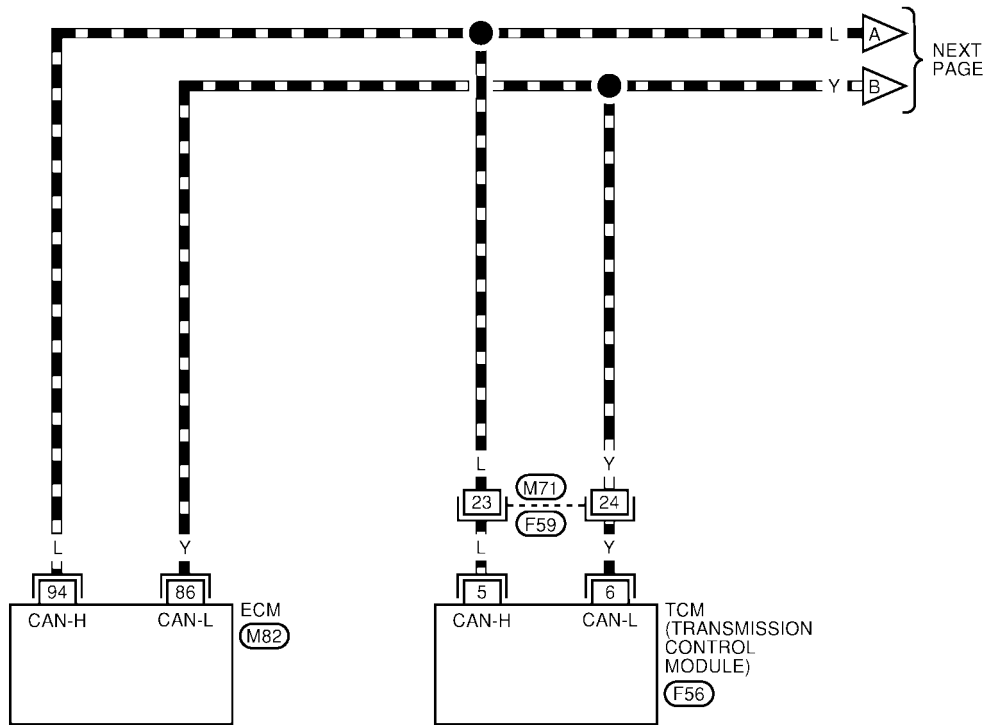


WKWA0437E

Wiring Diagram - CAN -

LAN-CAN-13

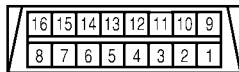
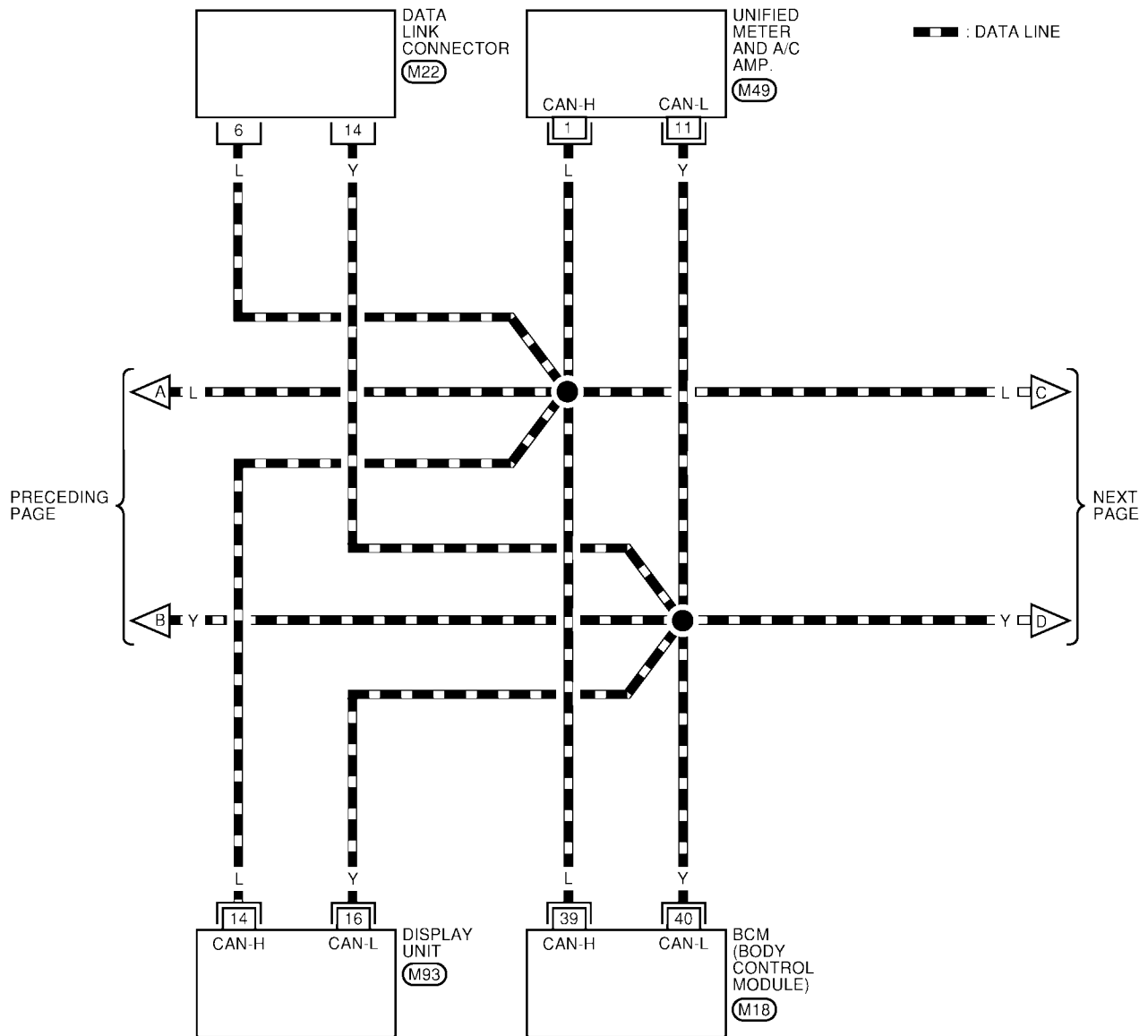
: DATA LINE



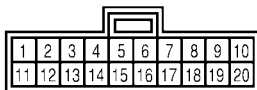
1	2	3	4	5	6			7	8	9	10	11	F59
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

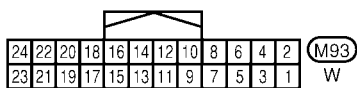
LAN-CAN-14



(M22)
W



(M49)
GR

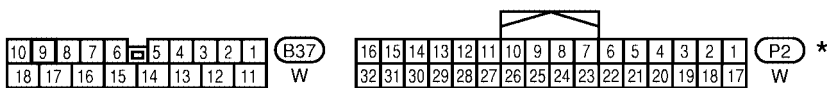
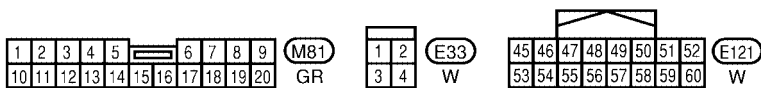
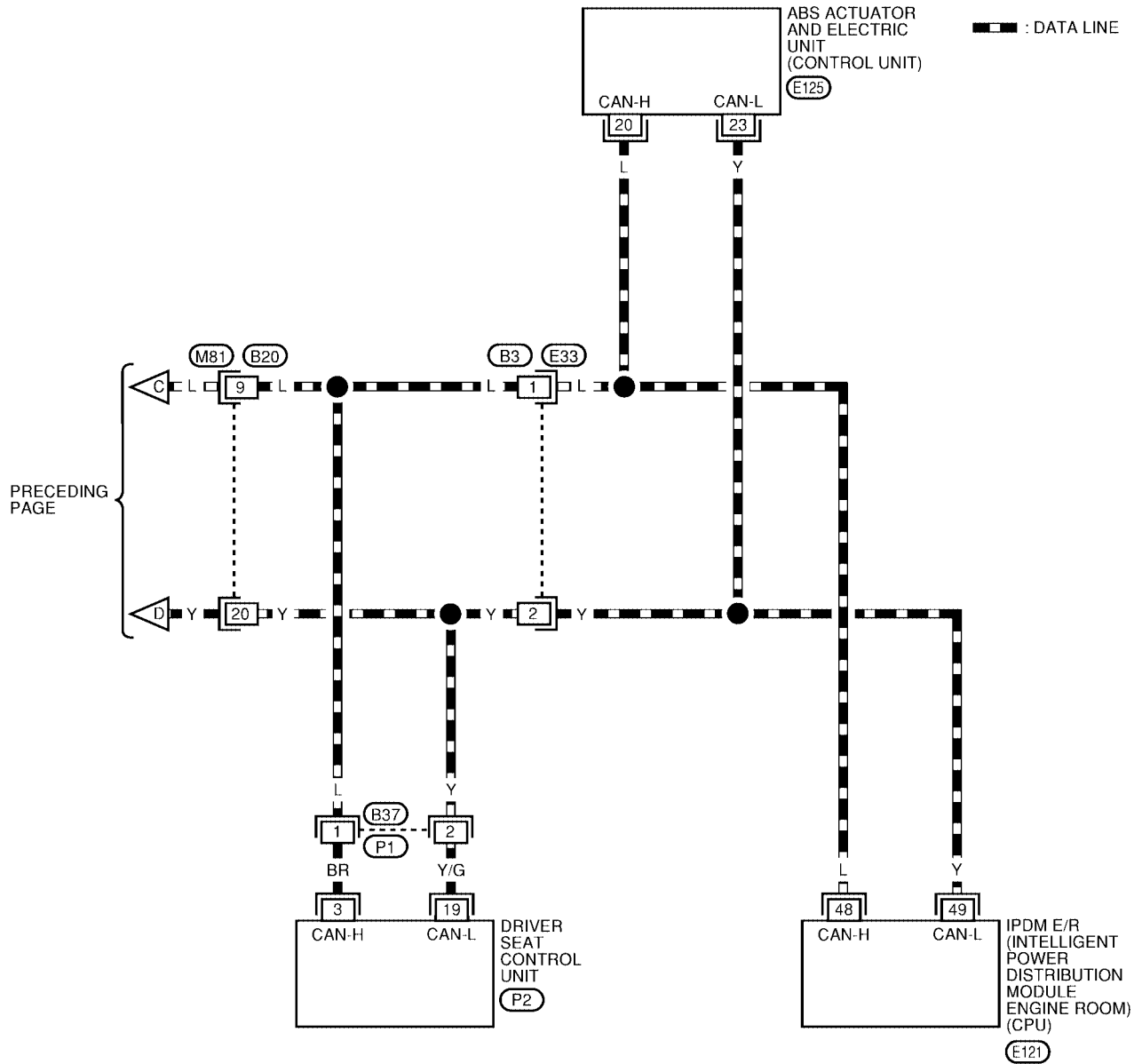


(M93)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-15



* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

REFER TO THE FOLLOWING.

(E125) - ELECTRICAL UNITS

WKWA0440E

Work Flow

- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".

(Example)

NISSAN				SELECT SYSTEM	
CONSULT-II				ENGINE	
ENGINE				A/T	
START (NISSAN BASED VHCL)				ABS	
START (RENAULT BASED VHCL)				AIR BAG	
SUB MODE				BCM	
				METER A/C AMP	
LIGHT COPY				BACK LIGHT COPY	

PKIA2093E

- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE		SELF-DIAG RESULTS	
WORK SUPPORT		DTC RESULTS TIME	
SELF-DIAG RESULTS		CAN COMM CIRCUIT [U1000] 0	
DATA MONITOR			
DATA MONITOR (SPEC)			
ACTIVE TEST			
FUNCTION TEST			
Scroll Down		F.F.DATA	
BACK LIGHT COPY		ERASE PRINT	
		MODE BACK LIGHT COPY	

PKIA2094E

- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE		DATA MONITOR		DATA MONITOR	
WORK SUPPORT		SELECT MONITOR ITEM		MONITOR NO DTC	
SELF-DIAG RESULTS		ECM INPUT SIGNALS		CAN COMM OK	
DATA MONITOR		MAIN SIGNALS		CAN CIRC 1 OK	
DATA MONITOR (SPEC)		CAN DIAG SUPPORT MNTR		CAN CIRC 2 OK	
ACTIVE TEST		SELECTION FROM MENU		CAN CIRC 3 OK	
FUNCTION TEST				CAN CIRC 4 OK	
Scroll Down				CAN CIRC 5 UNKWN	
BACK LIGHT COPY		SETTING Numerical Display		CAN CIRC 6 OK	
		MODE BACK LIGHT COPY		CAN CIRC 7 OK	
				RECORD	
				MODE BACK LIGHT COPY	

PKIA2095E

- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 6
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0441E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 5)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	~~CAN COMM~~	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0724E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 2~~	-	~~CAN CIRC 4~~	~~CAN CIRC 6~~	-	-	~~CAN CIRC 7~~
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0725E

CAN SYSTEM (TYPE 5)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0726E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0727E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0728E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0729E

CAN SYSTEM (TYPE 5)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx							
				E-CM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	✓ CAN CIRC 2	-	-	✓ CAN CIRC 4	-	-	-	✓ CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0730E

	CONSULT Indication	CAN System	Tx	Rx							
				E-CM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	✓ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0731E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx							
				E-CM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	✓ CAN CIRC 2	✓ CAN CIRC 3	✓ CAN CIRC 7	-	✓ CAN CIRC 4	-	✓ CAN CIRC 5	✓ CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0732E

CAN SYSTEM (TYPE 5)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0733E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0734E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0735E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0736E

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	AHS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0737E

Case 9Check harness between TCM and data link connector. Refer to [LAN-111](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	AHS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0738E

Case 10Check harness between data link connector and driver seat control unit. Refer to [LAN-111](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	AHS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0739E

Case 11Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-112](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	AHS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0740E

Case 12Check ECM circuit. Refer to [LAN-112](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1 ✓	-	CAN CIRC 2 ✓	-	CAN CIRC 4 ✓	CAN CIRC 6 ✓	-	-	CAN CIRC 7 ✓
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2 ✓	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2 ✓	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3 ✓	-	-	-	CAN CIRC 2	-	-	-

WKIA0741E

Case 13Check TCM circuit. Refer to [LAN-113](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2 ✓	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1 ✓	CAN CIRC 2 ✓	-	-	CAN CIRC 4 ✓	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3 ✓	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4 ✓	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0742E

Case 14Check display unit circuit. Refer to [LAN-113](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1 ✓	CAN CIRC 3 ✓	-	-	CAN CIRC 5 ✓	CAN CIRC 2 ✓	-	-	CAN CIRC 7 ✓
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7 ✓	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0743E

Case 15Check data link connector circuit. Refer to [LAN-114](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp ✓	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp ✓	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp ✓	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp ✓	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0744E

Case 16Check BCM circuit. Refer to [LAN-114](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0745E

Case 17Check unified meter and A/C amp. circuit. Refer to [LAN-115](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0746E

Case 18Check driver seat control unit circuit. Refer to [LAN-115](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0747E

Case 19Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-116](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0748E

CAN SYSTEM (TYPE 5)

[CAN]

Case 20

Check IPDM E/R circuit. Refer to [LAN-116](#).

	CONSULT indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0749E

Case 21

Check CAN communication circuit. Refer to [LAN-117](#).

	CONSULT indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 6	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0750E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-118](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0751E

	CONSULT indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0752E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

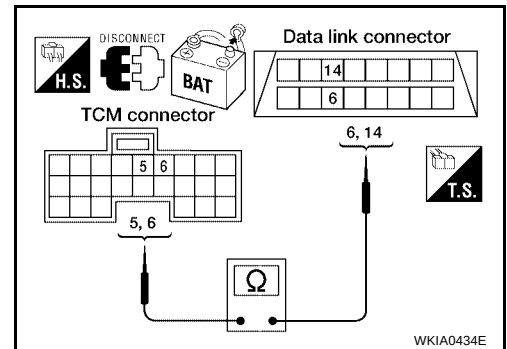
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-102, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

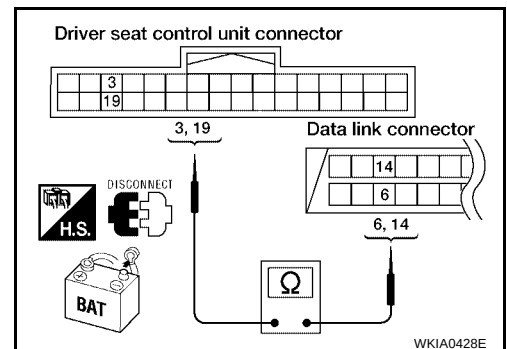
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-102](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

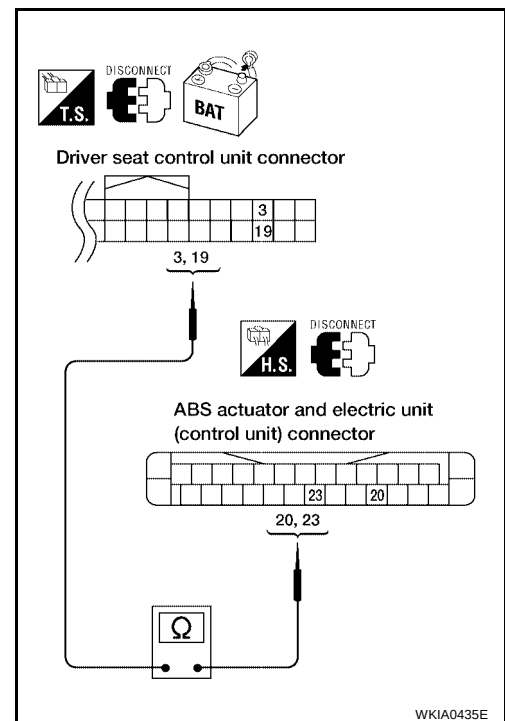
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-102](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

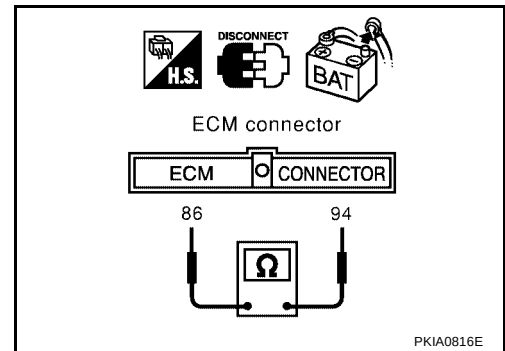
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS004Y9

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

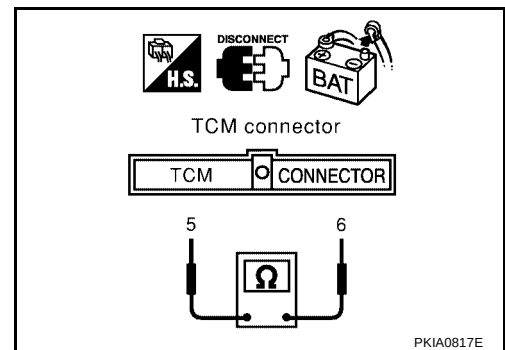
Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS004YA

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

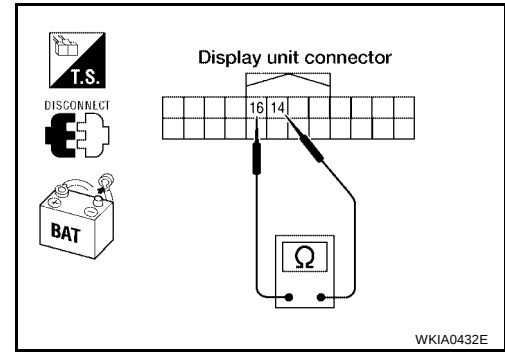
14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace display unit.

NG >> Repair harness between display unit connector M93 and data link connector M22.



EKS004YB

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

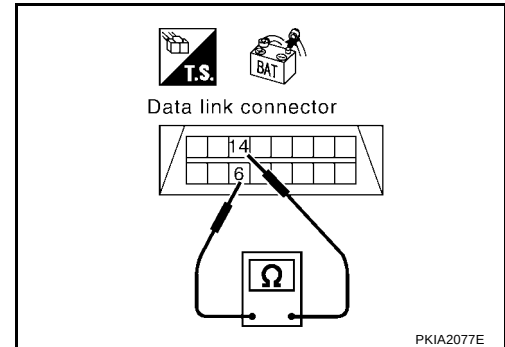
6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-102](#).

NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS004YC

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

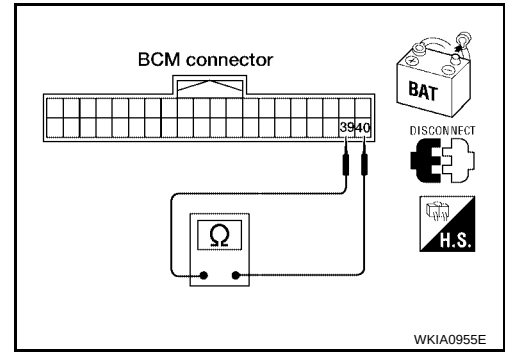
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS004YD

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

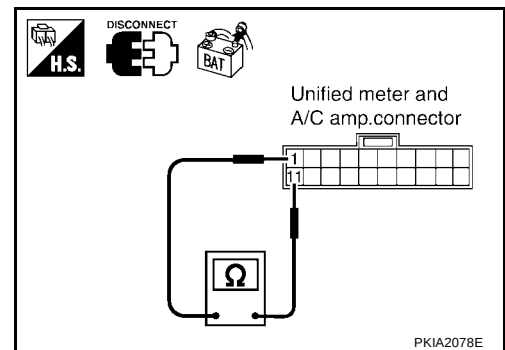
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS004YE

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

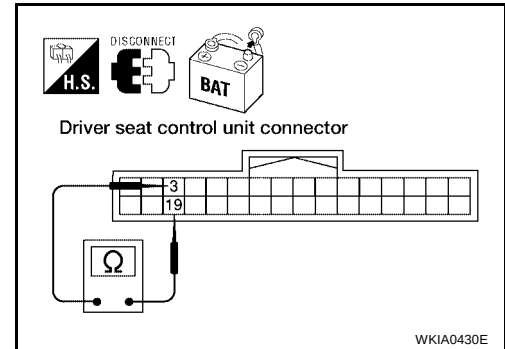
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS004YF

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

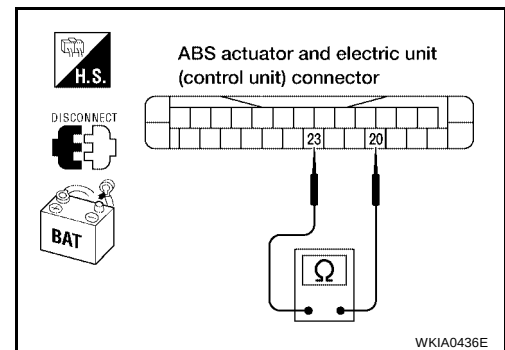
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS004YG

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

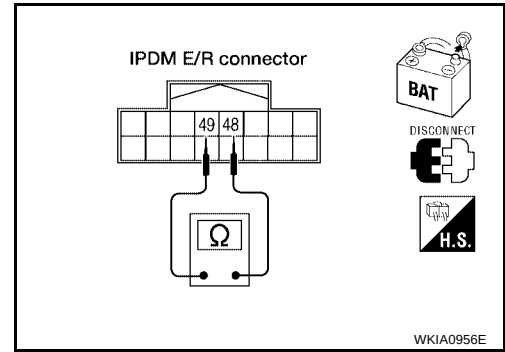
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS004YH

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

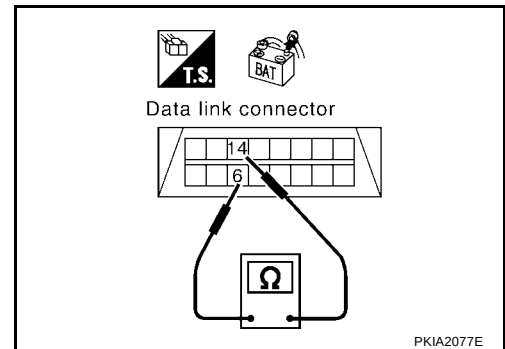
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

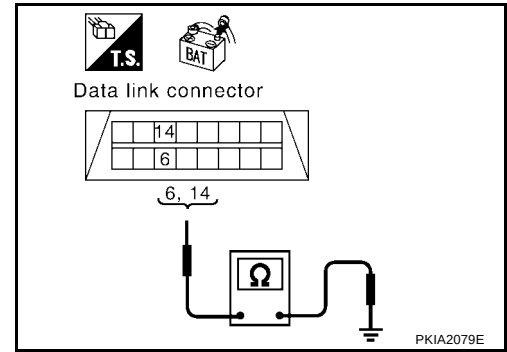
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-118, "Component Inspection"](#).

NG >> Repair the harness.



EKS004YI

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

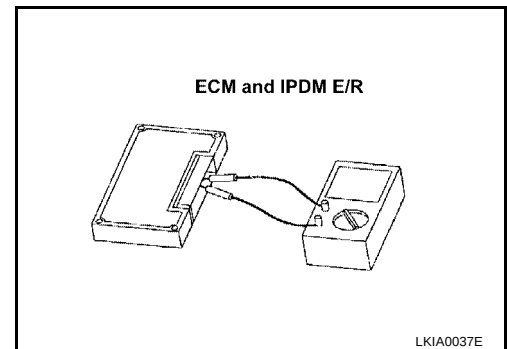
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS004YJ



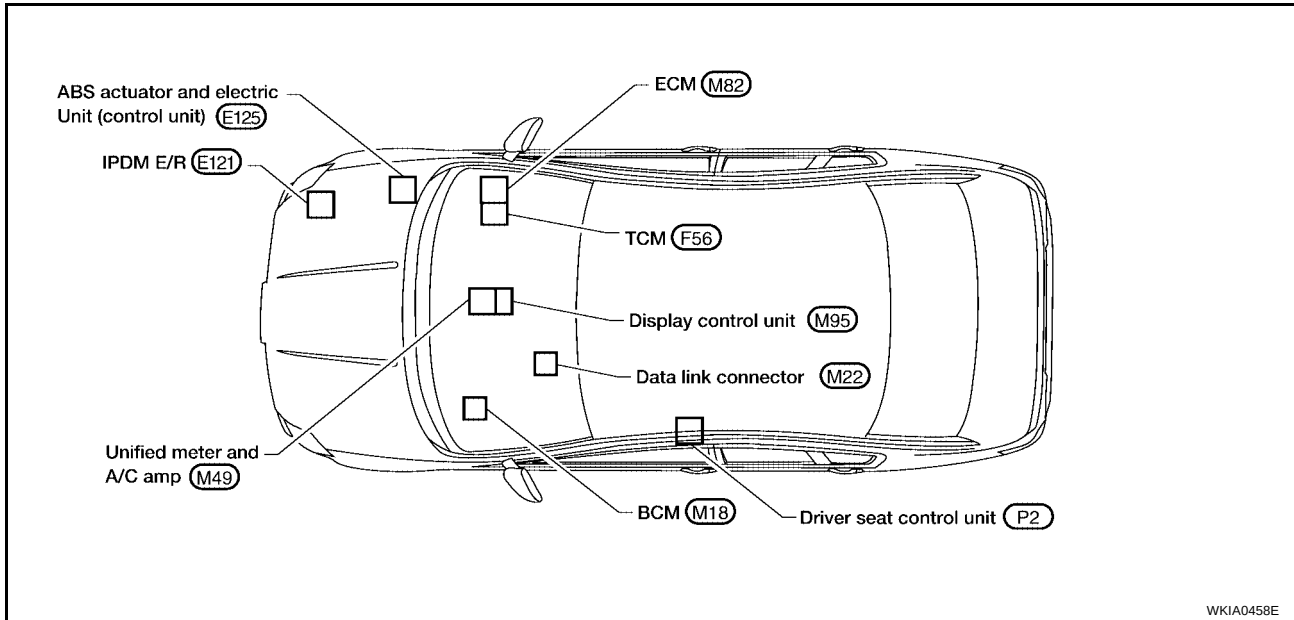
LKIA0037E

CAN SYSTEM (TYPE 6)

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

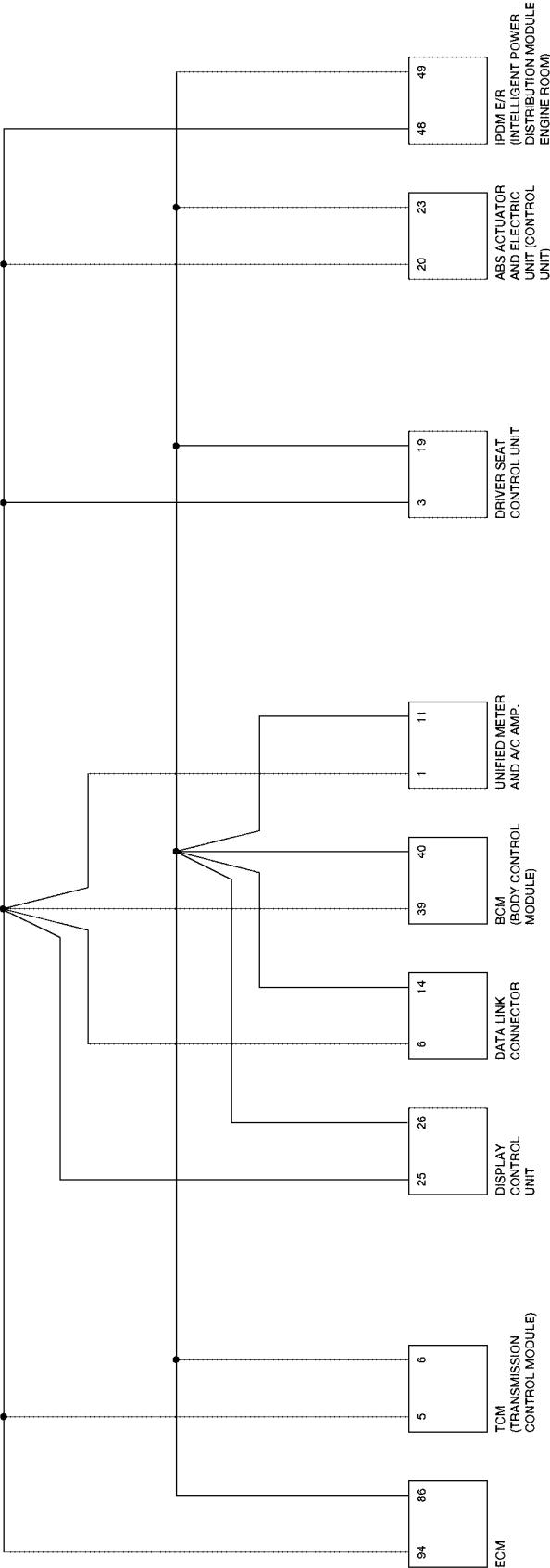
Component Parts and Harness Connector Location



A
B
C
D
E
F
G
H
I
J
LAN
L
M

Schematic

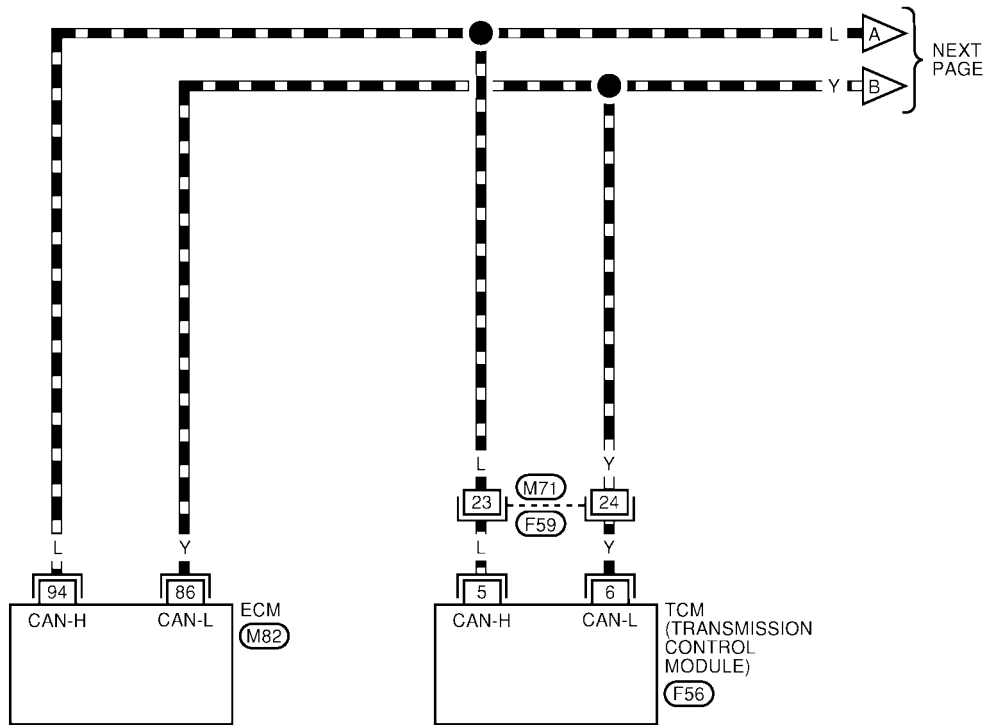
EKS004XH



Wiring Diagram - CAN -

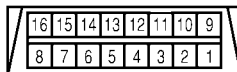
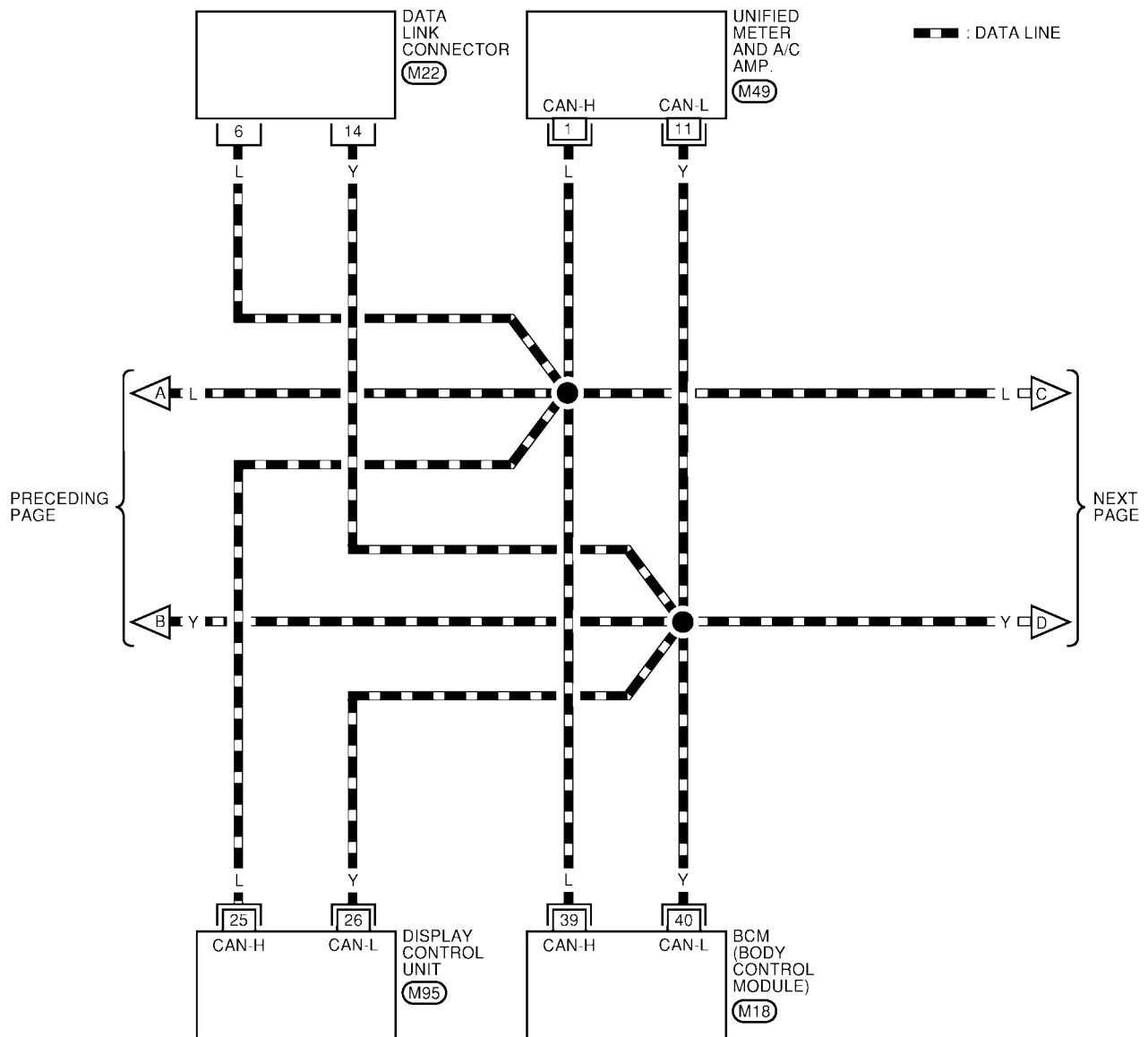
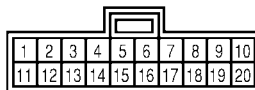
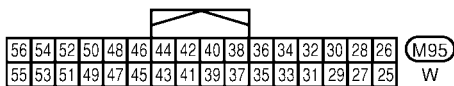
LAN-CAN-16

■ : DATA LINE



1	2	3	4	5	6			7	8	9	10	11	F59
12	13	14	15	16	17	18	19	20	21	22	23	24	W

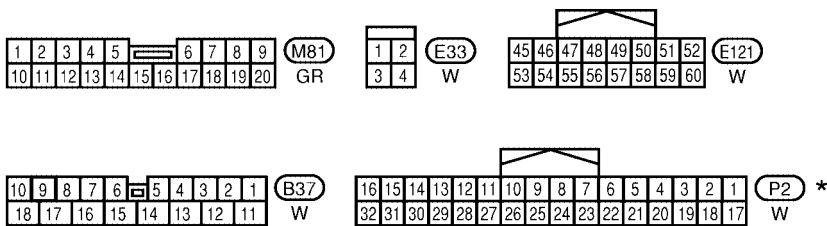
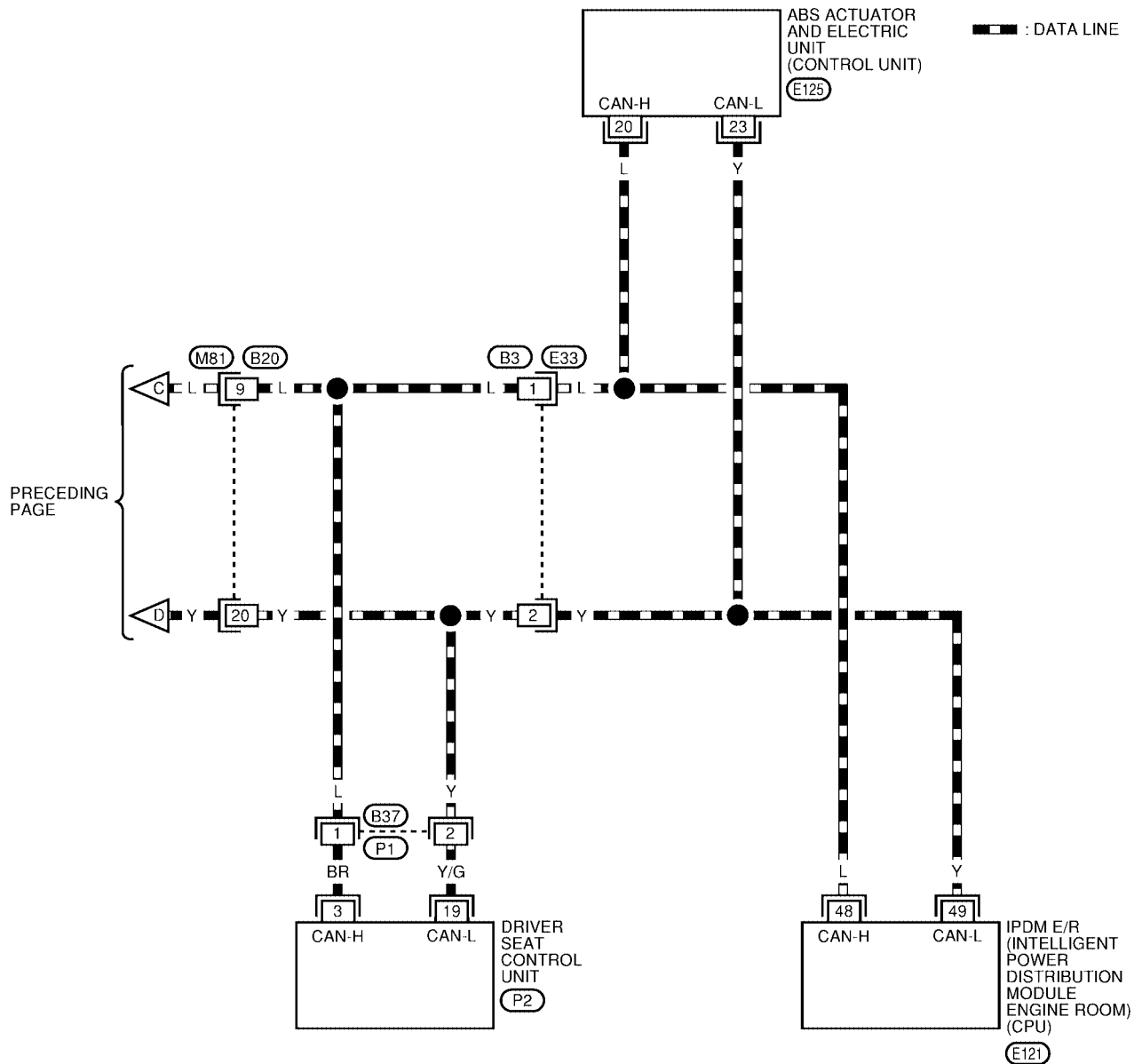
REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

M22
WM49
GRM95
W

REFER TO THE FOLLOWING.

M18 - ELECTRICAL UNITS

LAN-CAN-18



* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

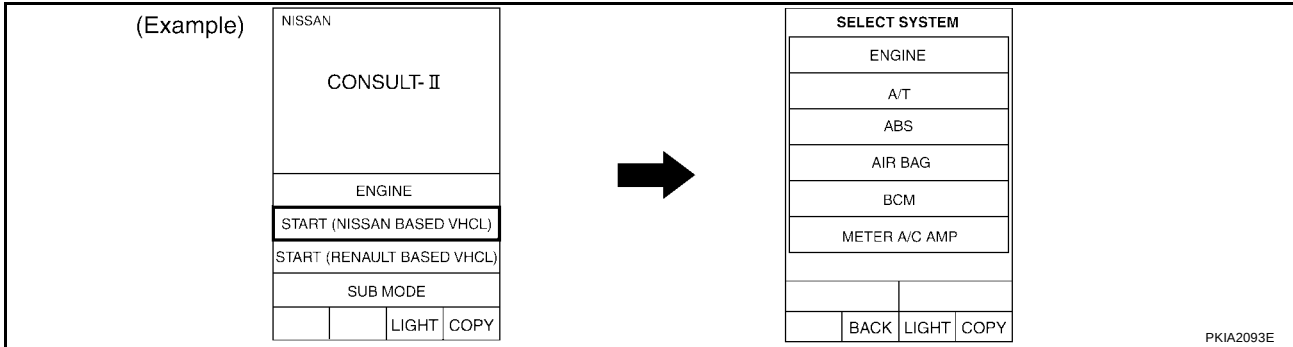
REFER TO THE FOLLOWING.

(E125) - ELECTRICAL UNITS

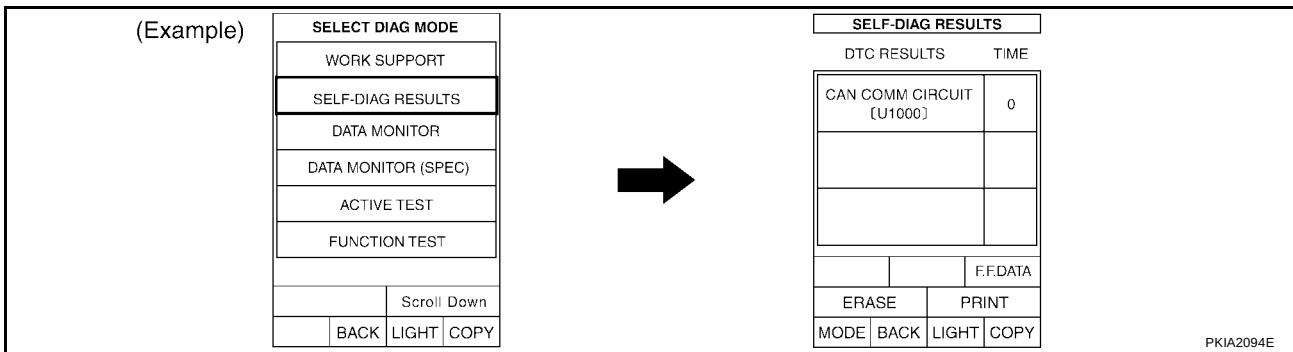
WKWA0436E

Work Flow

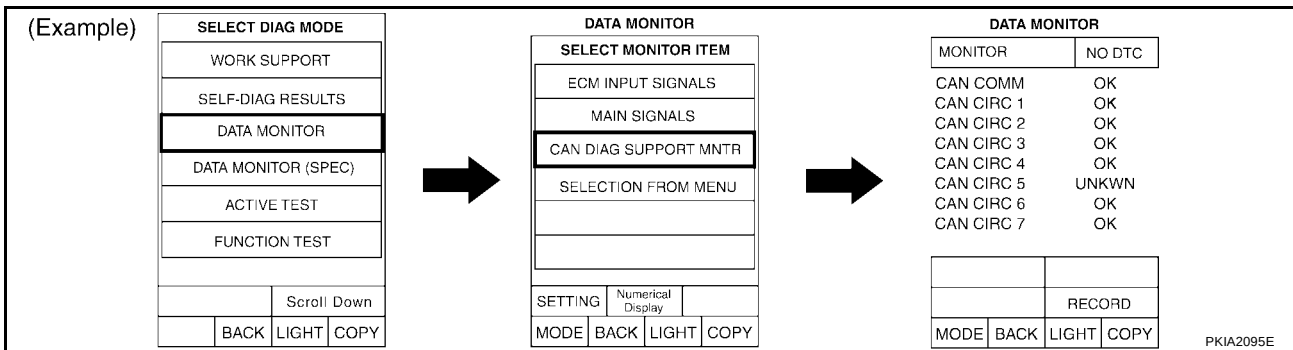
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0442E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Check CAN communication line of the navigation system.
- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS**Case 1**

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	

WKIA0753E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2		
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2						
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2		

WKIA0754E

CAN SYSTEM (TYPE 6)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0755E

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0756E

Case 3

Replace display control unit.

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0757E

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0758E

CAN SYSTEM (TYPE 6)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0759E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0760E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0761E

CAN SYSTEM (TYPE 6)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0762E

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0763E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0764E

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0765E

CAN SYSTEM (TYPE 6)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2		-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3		-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	 CAN CIRC 3				 CAN CIRC 2	-	-	-

WKIA0766E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-133](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6		CAN CIRC 7	
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2		CAN CIRC 7	
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			CAN CIRC 3	
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0767E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-133](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0768E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-134](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE- POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0769E

CAN SYSTEM (TYPE 6)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-134](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0770E

Case 13

Check TCM circuit. Refer to [LAN-135](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0771E

Case 14

Check display control unit circuit. Refer to [LAN-135](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0772E

Case 15

Check data link connector circuit. Refer to [LAN-136](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0773E

CAN SYSTEM (TYPE 6)

[CAN]

Case 16

Check BCM circuit. Refer to [LAN-136](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE- POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0774E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-137](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE- POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0775E

Case 18

Check driver seat control unit circuit. Refer to [LAN-137](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE- POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0776E

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-138](#).

	CONSULT Indication	CAN System	Ix	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2		-	CAN CIRC 4		-	-	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			-	CAN CIRC 3
AUTO DRIVE-POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0777E

CAN SYSTEM (TYPE 6)

[CAN]

Case 20

Check IPDM E/R circuit. Refer to [LAN-138](#).

	CONSULT Indication	CAN System	Ix	Rx							IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	NA Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0778E

Case 21

Check CAN communication circuit. Refer to [LAN-139](#).

	CONSULT Indication	CAN System	Ix	Rx							IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	NA Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	NA Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	NA Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	NA Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0779E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-140](#).

	CONSULT Indication	CAN System	Ix	Rx							IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0780E

	CONSULT Indication	CAN System	Ix	Rx							IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4	CAN CIRC 6			CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2							
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			

WKIA0781E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

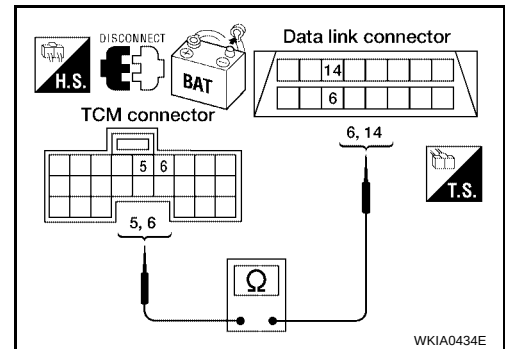
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-124, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

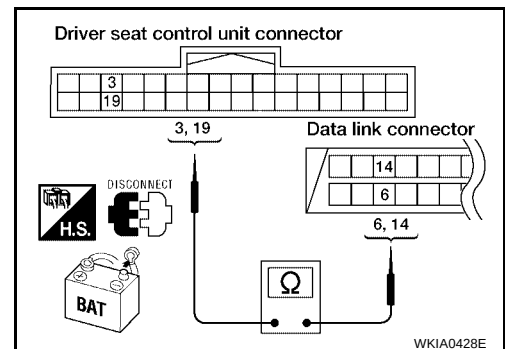
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-124](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS004XM

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

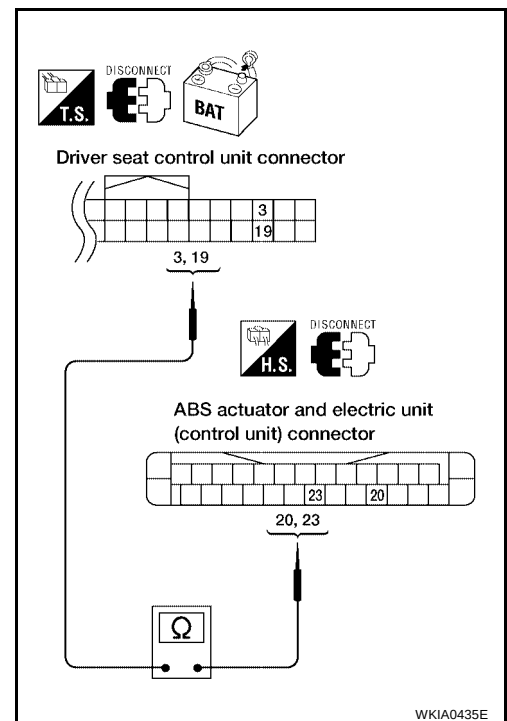
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-124](#).
 NG >> Repair harness.



ECM Circuit Check

EKS004XN

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

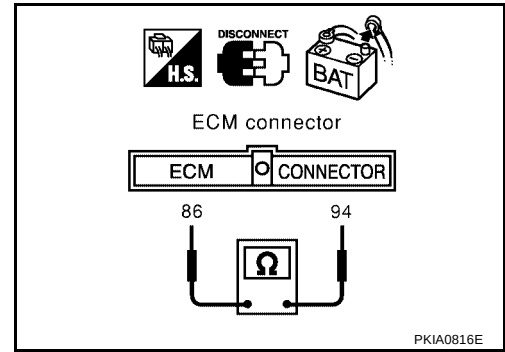
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS004XO

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

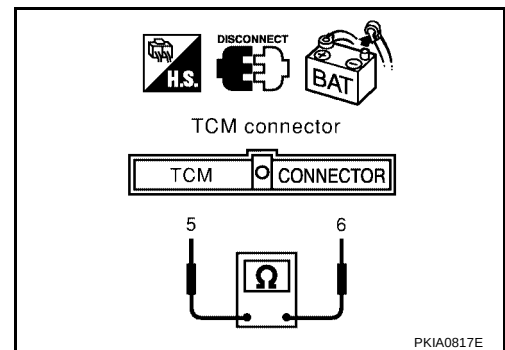
Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS004XP

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

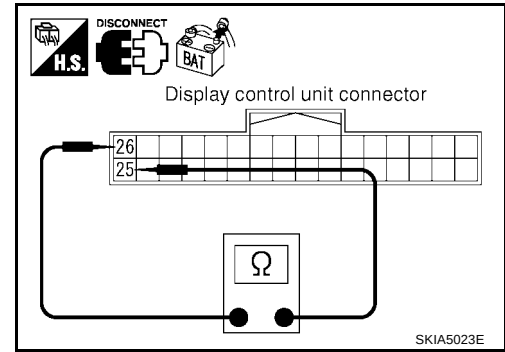
Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
- NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS004XQ

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

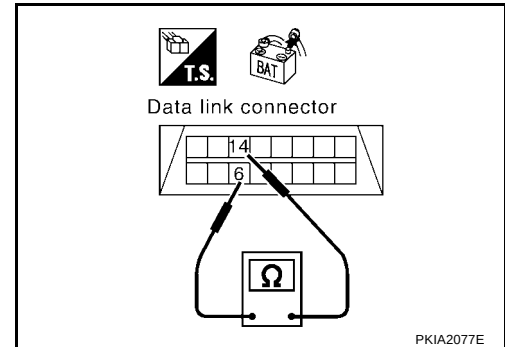
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-124](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS004XR

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

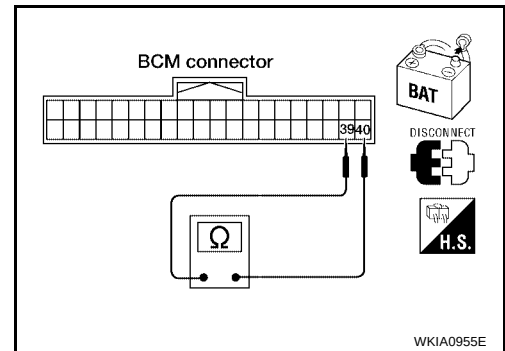
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS004XS

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

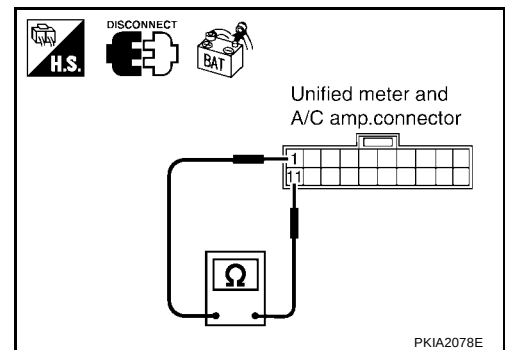
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS004XU

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

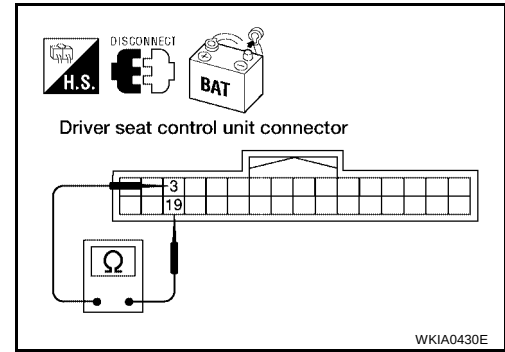
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS004XV

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

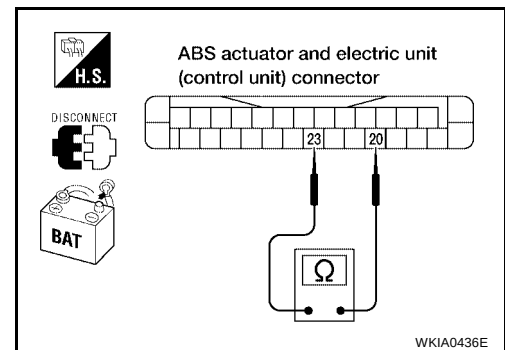
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS004XW

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

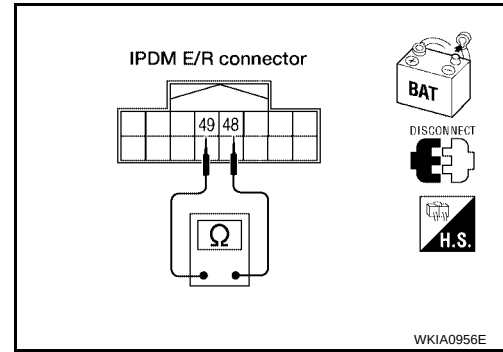
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS004XX

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

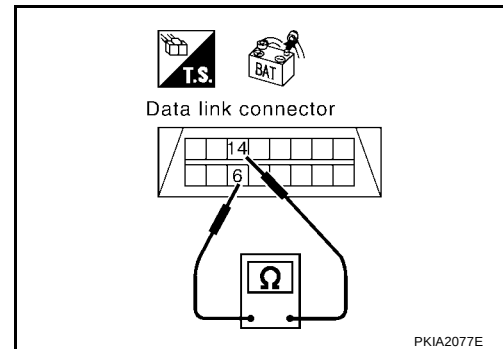
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

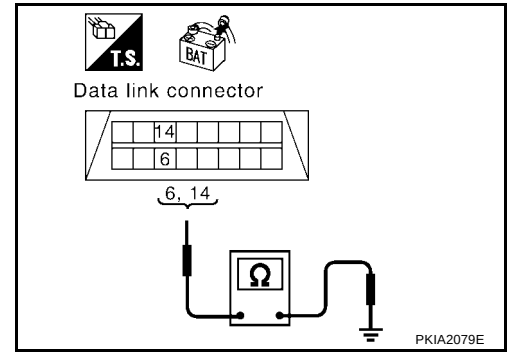
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-140, "Component Inspection"](#).

NG >> Repair the harness.



EKS004XY

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

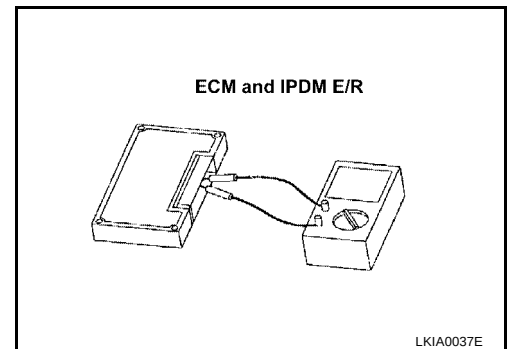
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS004XZ

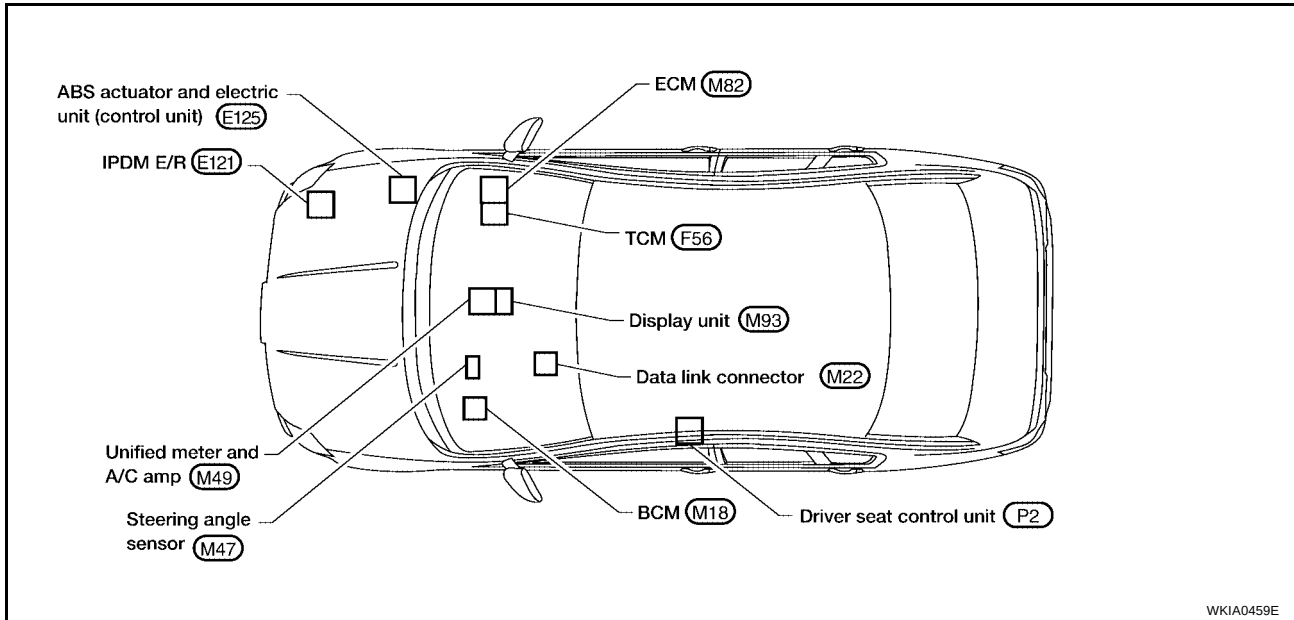


CAN SYSTEM (TYPE 7)

System Description

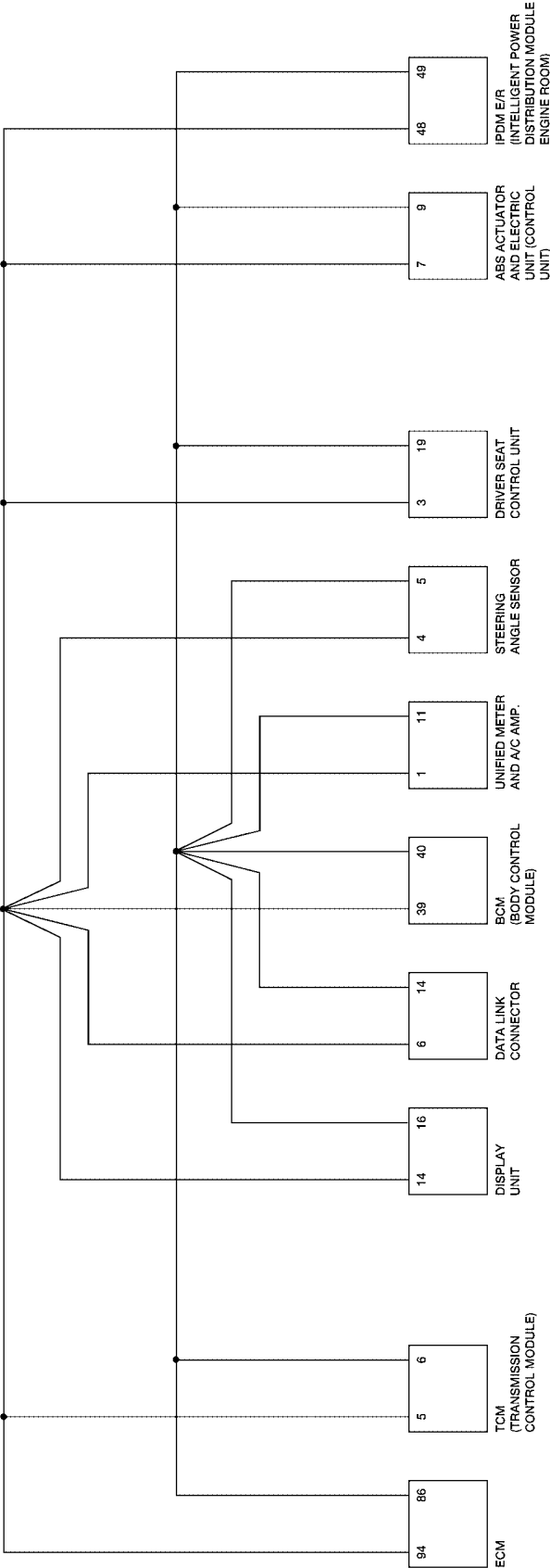
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location



Schematic

EKS004WW

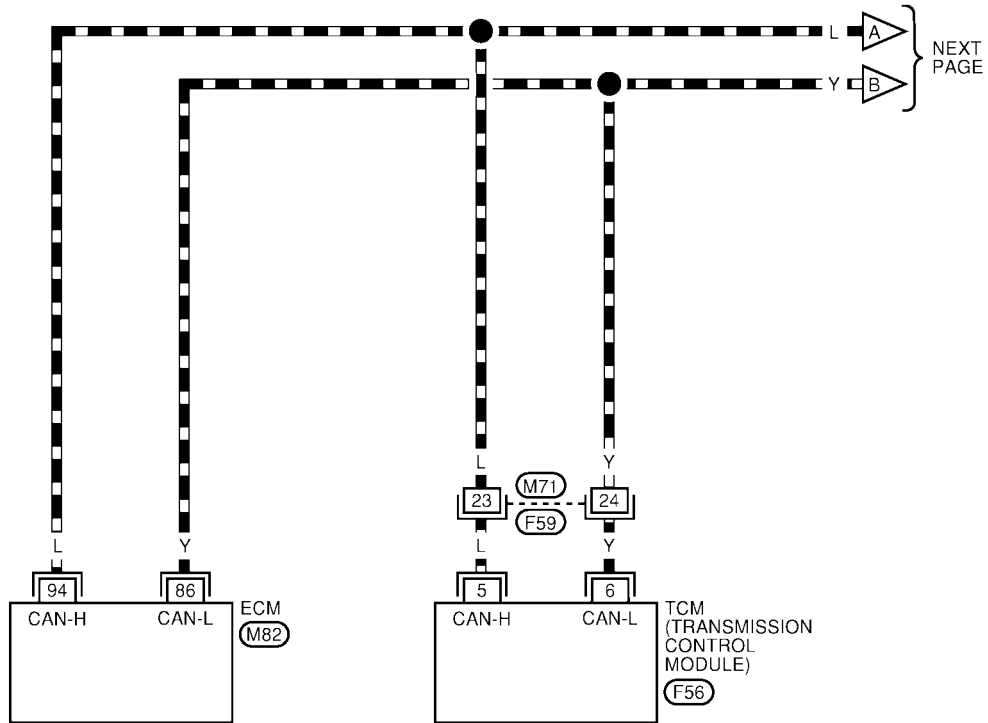


WKWA0429E

Wiring Diagram - CAN -

LAN-CAN-19

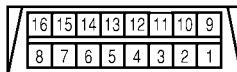
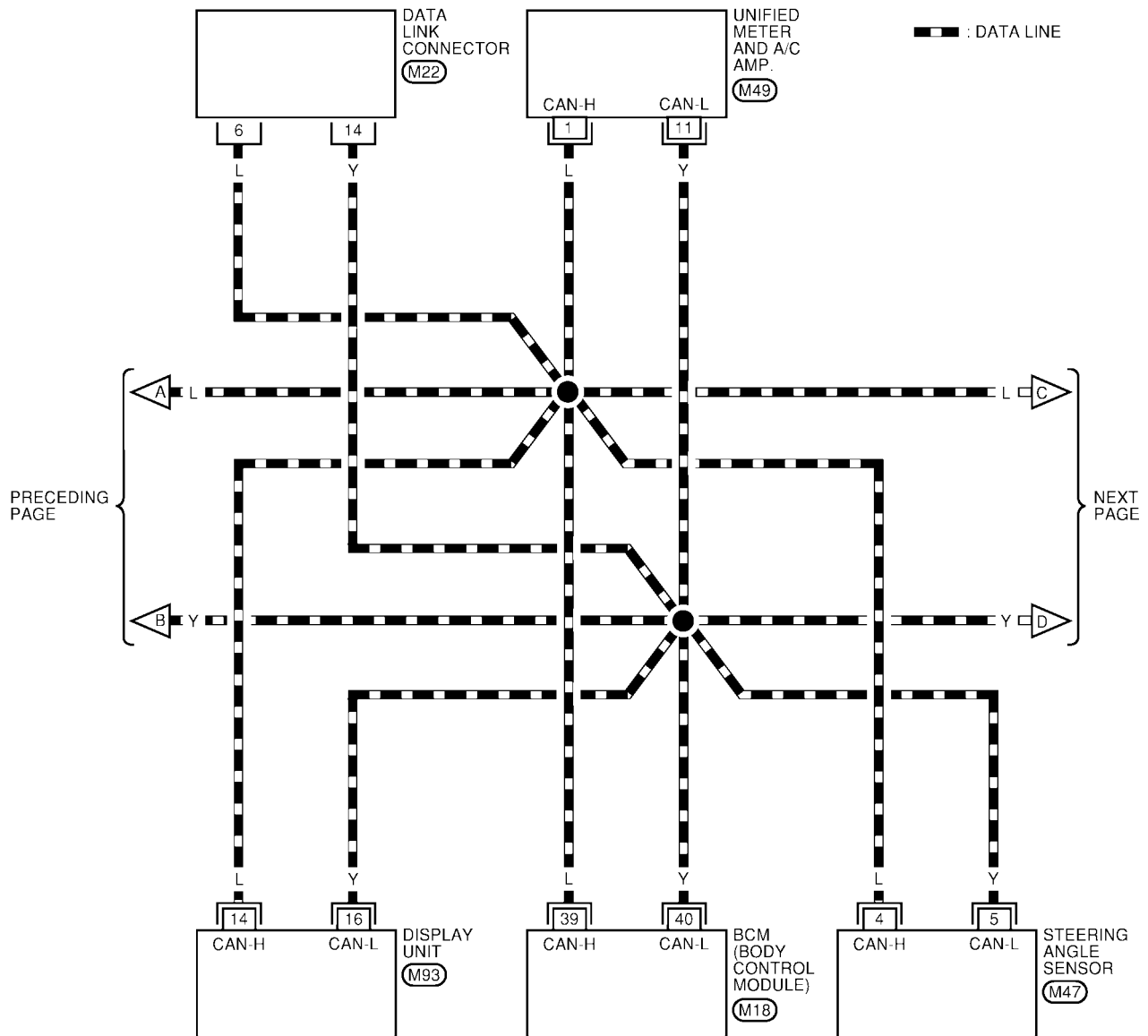
: DATA LINE



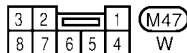
1	2	3	4	5	6			7	8	9	10	11	F59
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
M82, F56 - ELECTRICAL
UNITS

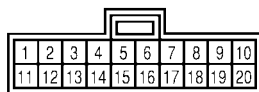
LAN-CAN-20



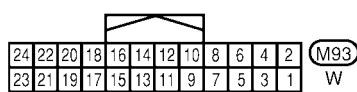
(M22)
W



(M47)
W



(M49)
GR

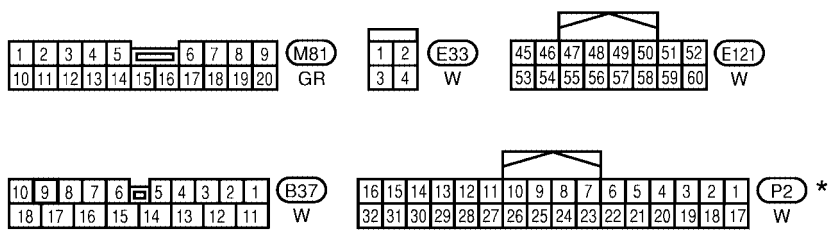
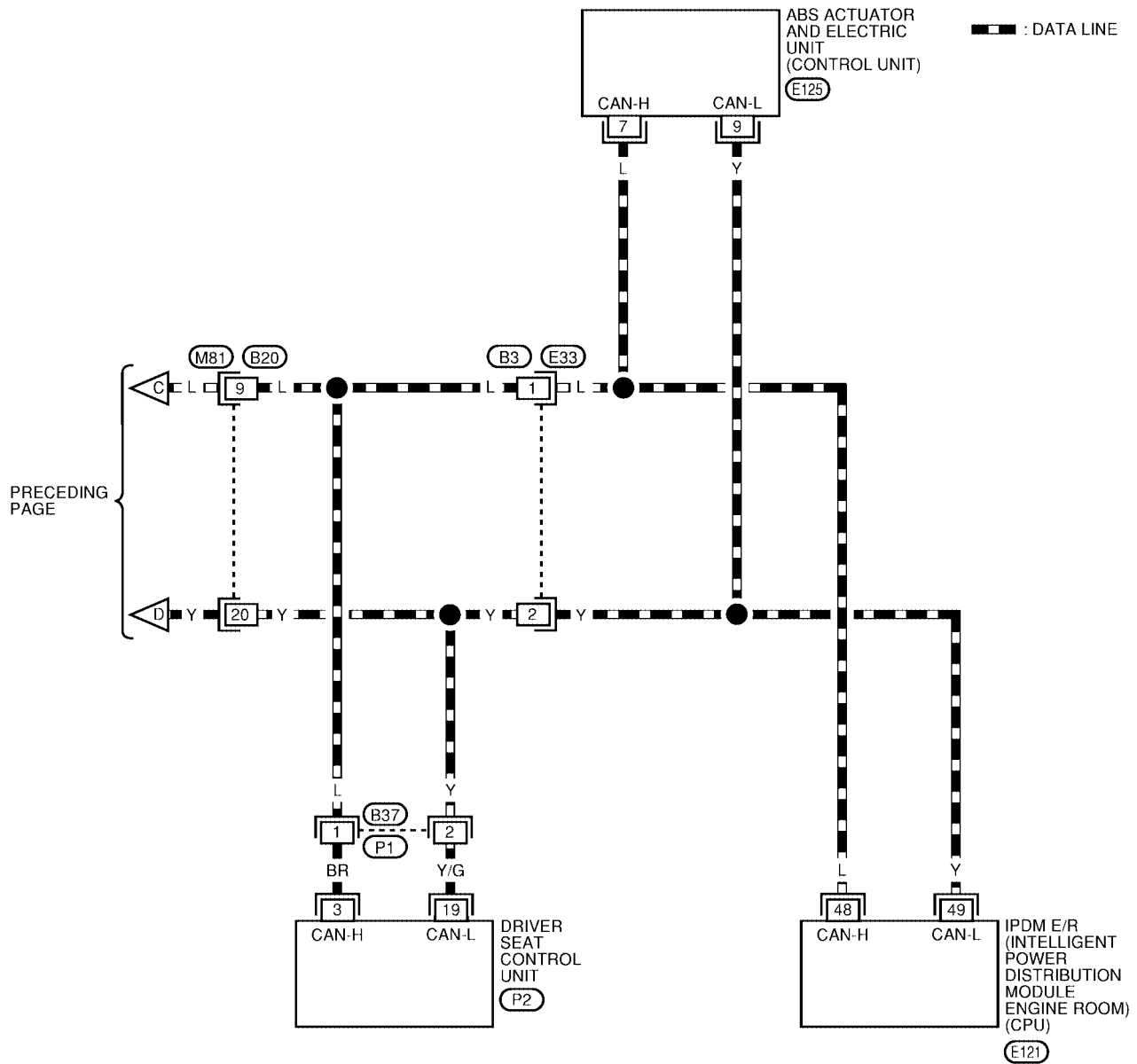


(M93)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-21



REFER TO THE FOLLOWING.

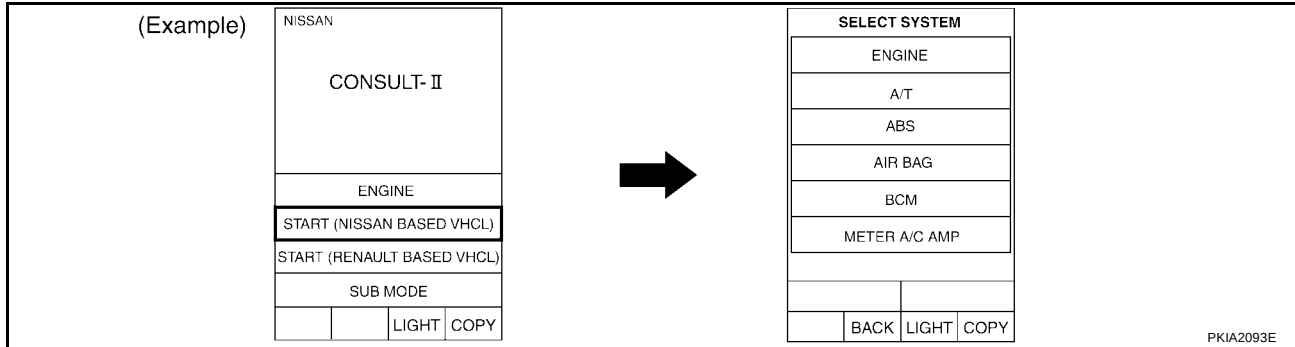
(E125) - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

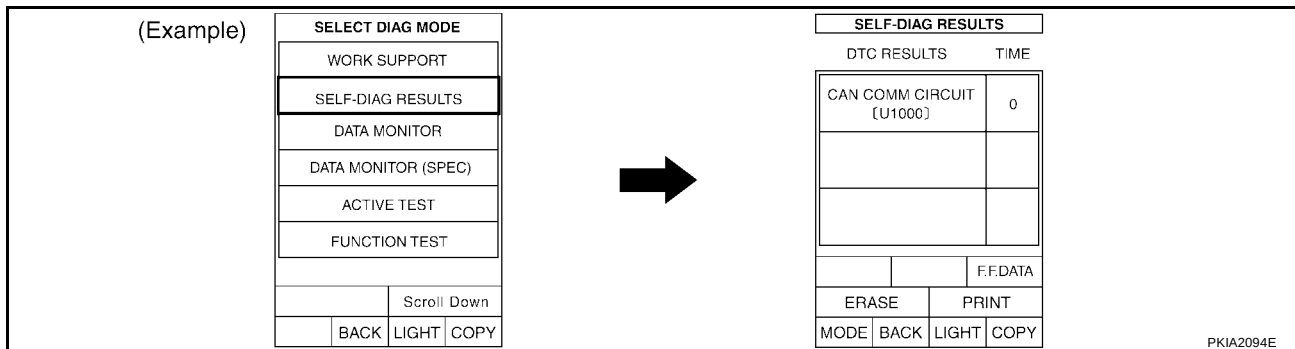
WKWA0432E

Work Flow

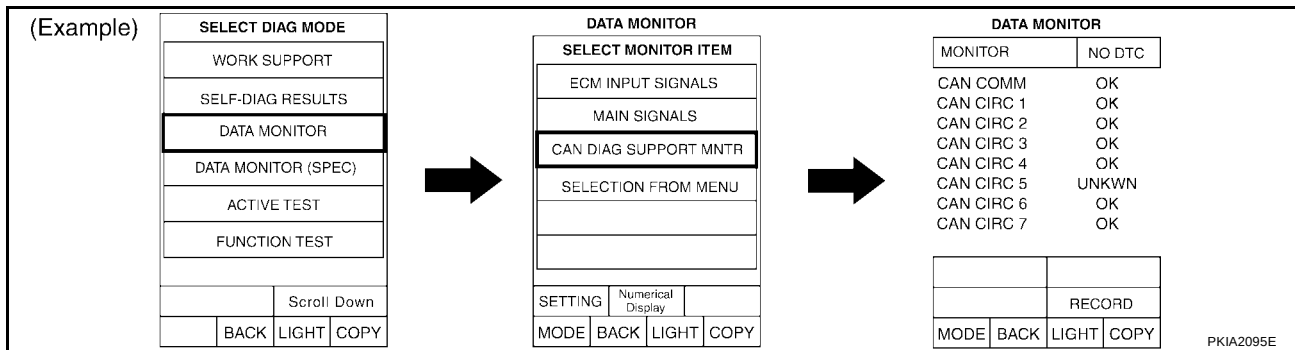
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified motor and A/C amp	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-

WKIA0443E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 7)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	~~CAN COMM~~	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0782E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	~~CAN COMM~~	CAN CIRC 1	-	CAN CIRC 2	-	~~CAN CIRC 4~~	-	~~CAN CIRC 6~~	-	~~CAN CIRC 3~~	~~CAN CIRC 7~~
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0783E

CAN SYSTEM (TYPE 7)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		~~CAN CIRC 2~~		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 3~~	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		~~CAN CIRC 3~~		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 3~~			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0784E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~			~~CAN CIRC 4~~		-	-	~~CAN CIRC 3~~	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0785E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	~~CAN COMM~~	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0786E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	~~CAN CIRC 3~~			~~CAN CIRC 5~~		~~CAN CIRC 2~~	-	-	~~CAN CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0787E

CAN SYSTEM (TYPE 7)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0788E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0789E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0790E

CAN SYSTEM (TYPE 7)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	~~CAN COMM~~	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0791E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		~~CAN CIRC 4~~		~~CAN CIRC 3~~		~~CAN CIRC 2~~	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0792E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	~~CAN CIRC 3~~	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	~~CAN CIRC 3~~	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	~~CAN CIRC 5~~	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0793E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	~~CAN CIRC 3~~			~~CAN CIRC 5~~	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0794E

CAN SYSTEM (TYPE 7)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	✓ CIRC 3					✓ CIRC 2	-	-	-

WKIA0795E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-156](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CAN CIRC 3			CIRC 5		CIRC 2			CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0796E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-156](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	~~CAN CIRC 3~~	~~CAN CIRC 7~~	
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			~~CAN CIRC 3~~		
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2		~~CAN CIRC 7~~	
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	~~CAN CIRC 5~~	~~CAN CIRC 6~~	
PCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				~~CAN CIRC 3~~	
AUTO DRIVE POS		CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	~~CAN CIRC 3~~			~~CAN CIRC 5~~				
IPDM E/R			CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0797E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-157](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2			CAN CIRC 7
METER A/C AMP ¹	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
PCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0798E

CAN SYSTEM (TYPE 7)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-157](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2			CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0799E

Case 13

Check TCM circuit. Refer to [LAN-158](#).

	CONSULT indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2			CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0800E

Case 14

Check display unit circuit. Refer to [LAN-158](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			-	CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2	-		CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			-		CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-		
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0801E

Case 15

Check data link connector circuit. Refer to [LAN-159](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2			CIRC 7
METER A/C AMP ¹	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0802E

Case 16Check BCM circuit. Refer to [LAN-159](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0803E

Case 17Check unified meter and A/C amp. circuit. Refer to [LAN-160](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0804E

Case 18Check steering angle sensor circuit. Refer to [LAN-160](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
PCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-		-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0805E

Case 19Check driver seat control unit circuit. Refer to [LAN-161](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2			CIRC 7
METER A/C AMP ¹	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
PCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0806E

CAN SYSTEM (TYPE 7)

[CAN]

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-161](#).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0807E

Case 21

Check IPDM E/R circuit. Refer to [LAN-162](#).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0808E

Case 22

Check CAN communication circuit. Refer to [LAN-163](#).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0809E

CAN SYSTEM (TYPE 7)

[CAN]

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-163](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0810E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified motor and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3			CIRC 5		CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4		-	-	-	CAN CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3					CAN CIRC 2	-	-	-

WKIA0811E

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Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

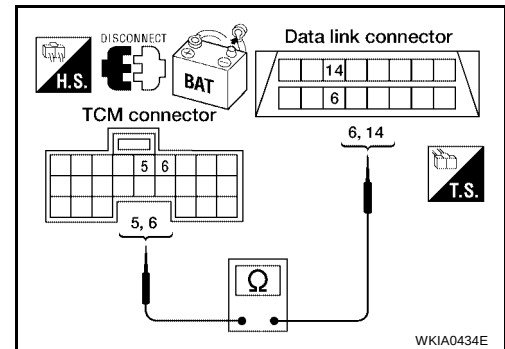
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-146, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

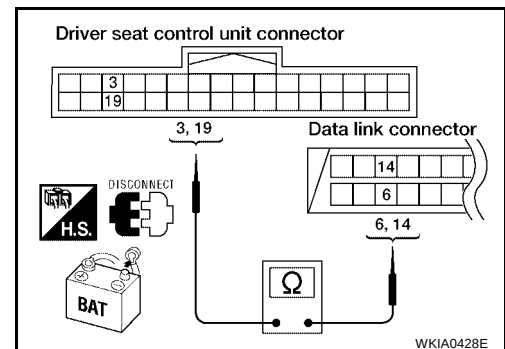
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-146](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

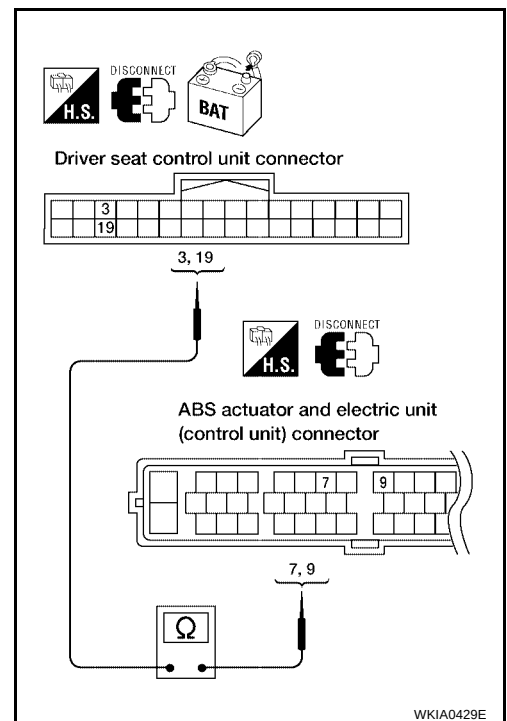
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

- 3 (BR) - 7 (L) : Continuity should exist.**
19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-146](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

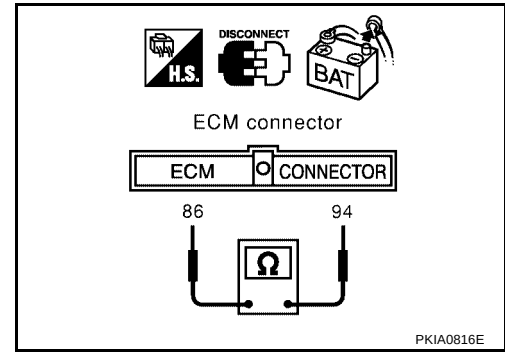
94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS004X3

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

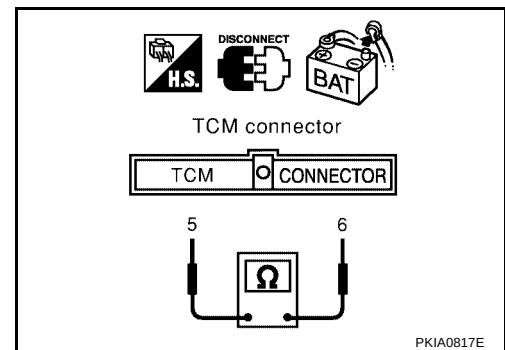
5 (L) - 6 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace TCM.

NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS004X4

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

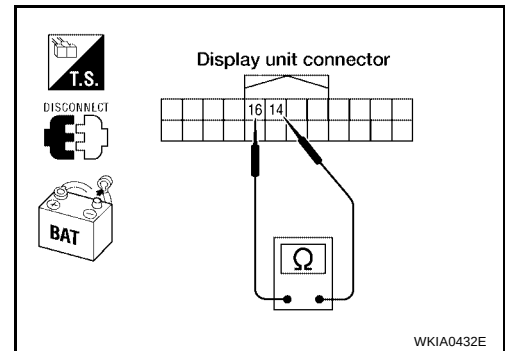
Check resistance between display unit connector M93 terminal 14 (L) and terminal 16 (Y).

14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

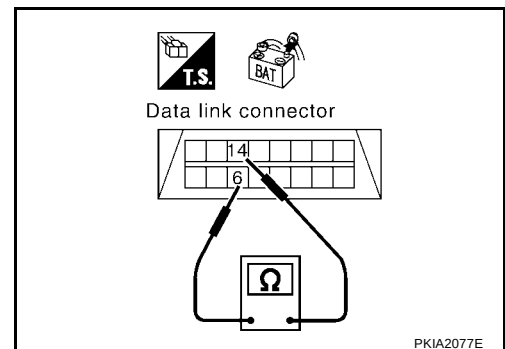
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-146](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

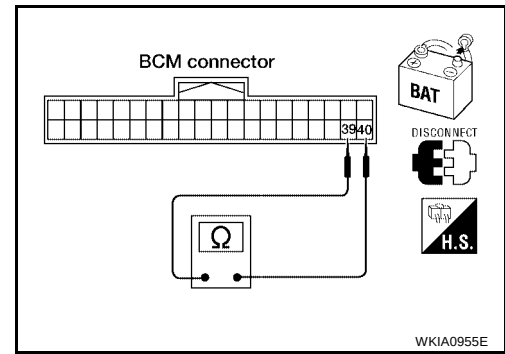
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS004X7

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

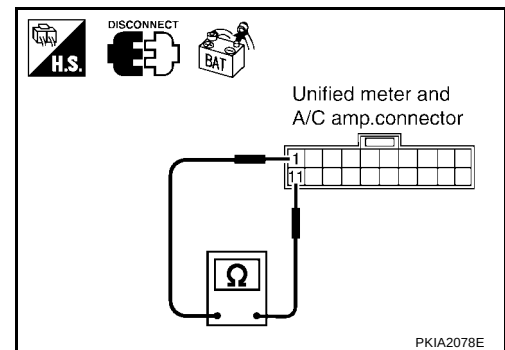
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS004X8

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

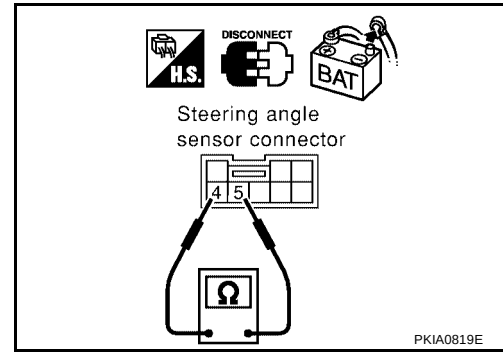
Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

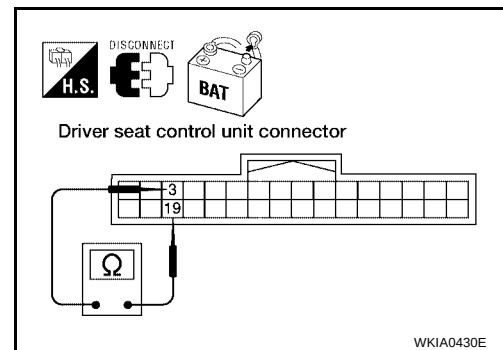
Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

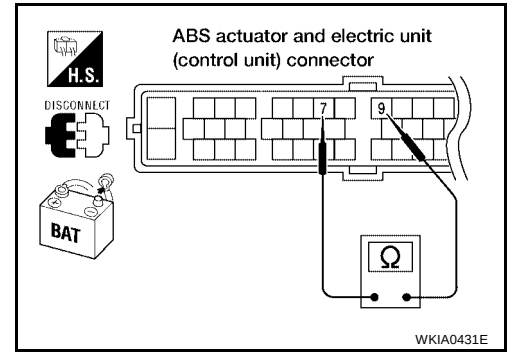
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS004XB

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

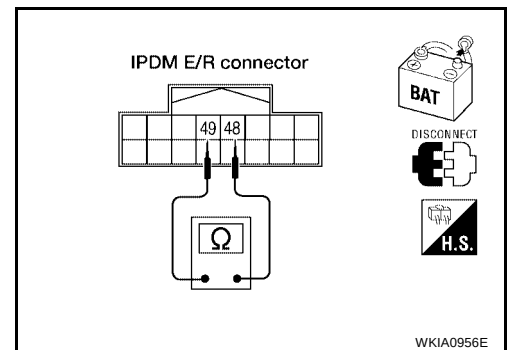
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

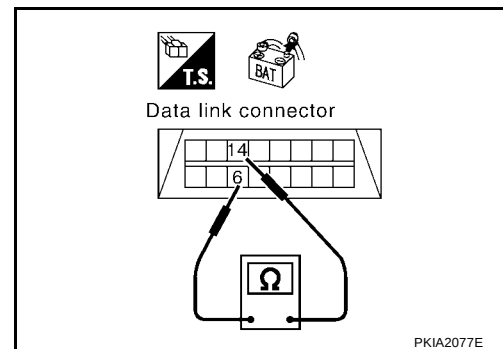
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

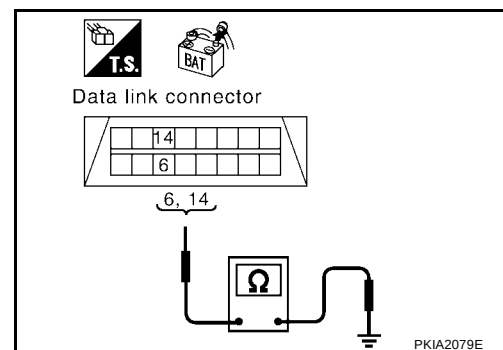
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-164, "Component Inspection"](#).

NG >> Repair the harness.



IPDM E/R Ignition Relay Circuit Check

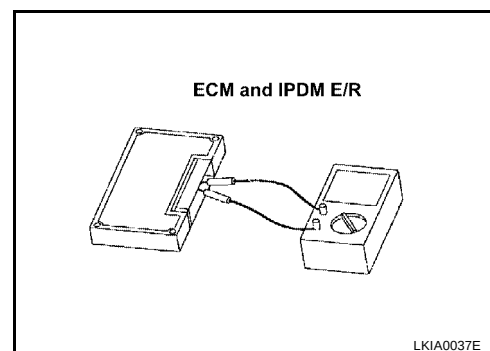
Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

EKS004XE

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 8)

PFP:23710

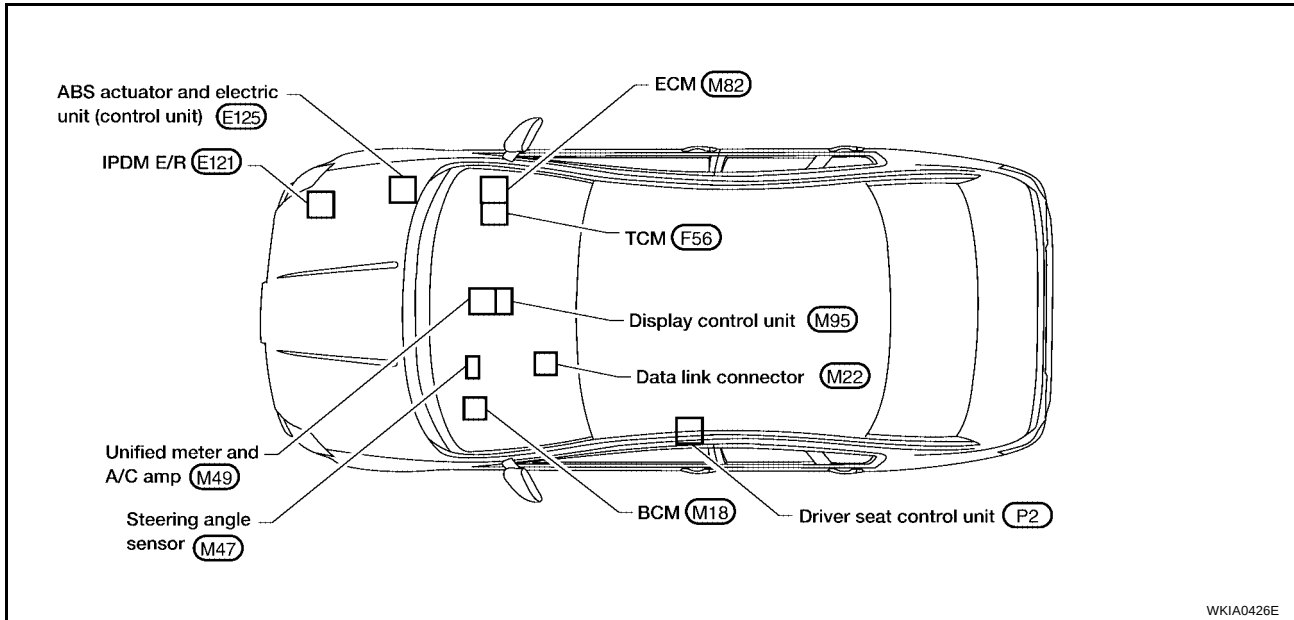
System Description

EKS004W9

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

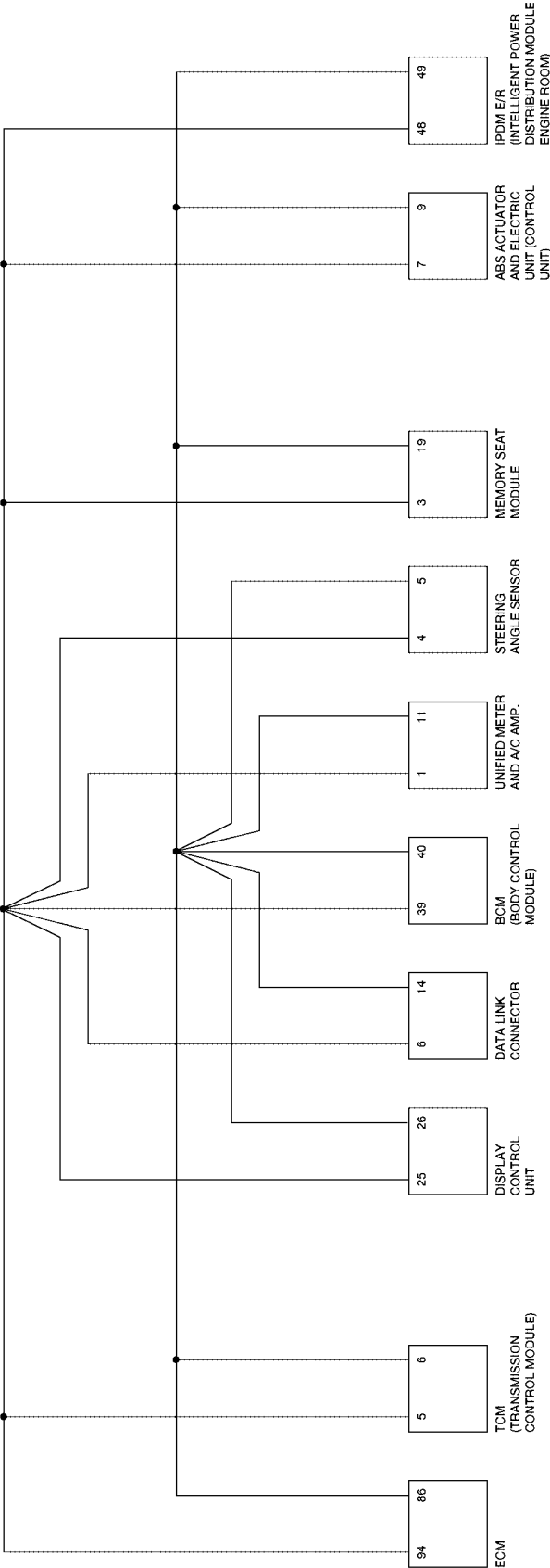
EKS004WA



A
B
C
D
E
F
G
H
I
J
LAN
L
M

Schematic

EKS004WB

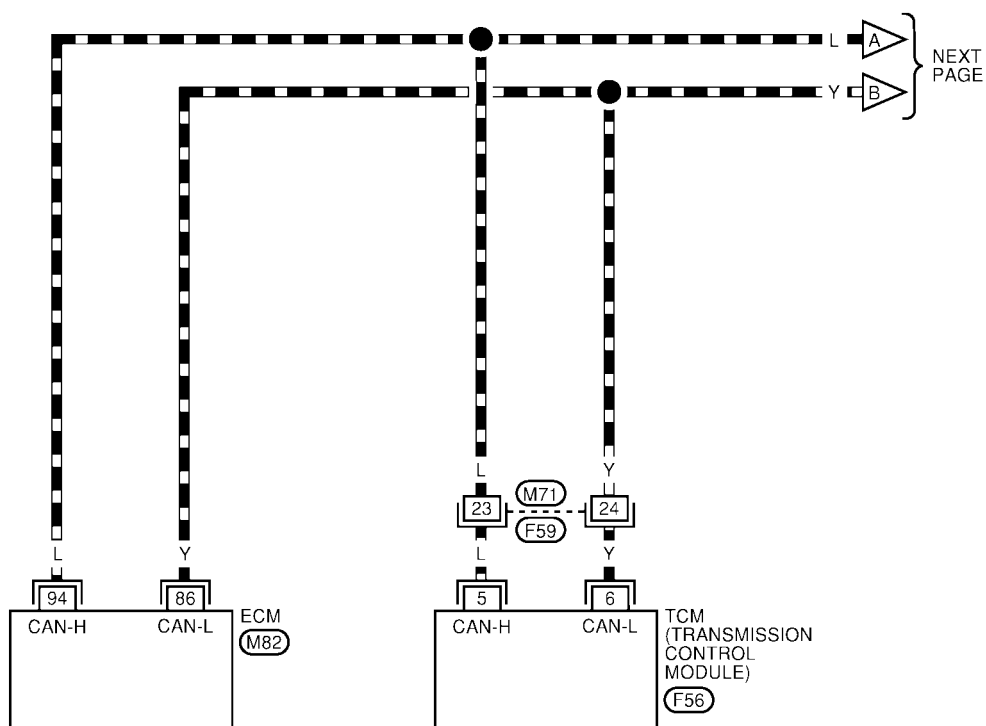


Wiring Diagram - CAN -

EKS004WC

LAN-CAN-22

 : DATA LINE

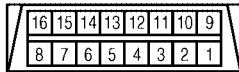
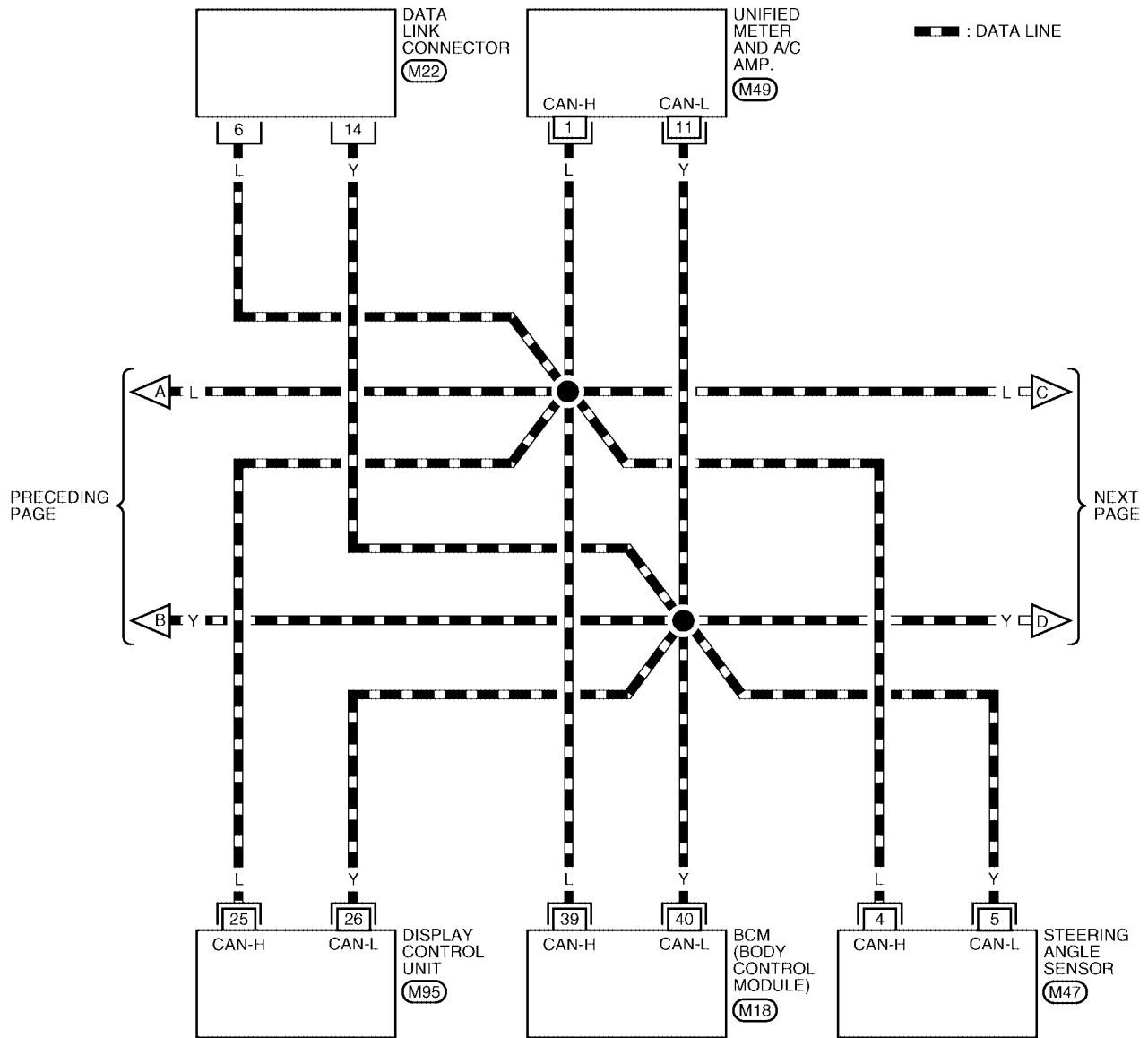


LAN

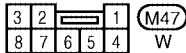
1	2	3	4	5	6			7	8	9	10	11	F59 W
12	13	14	15	16	17	18	19	20	21	22	23	24	

REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

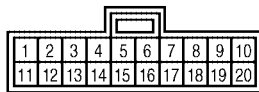
LAN-CAN-23



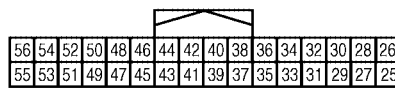
(M22)
W



(M47)
W



(M49)
GR

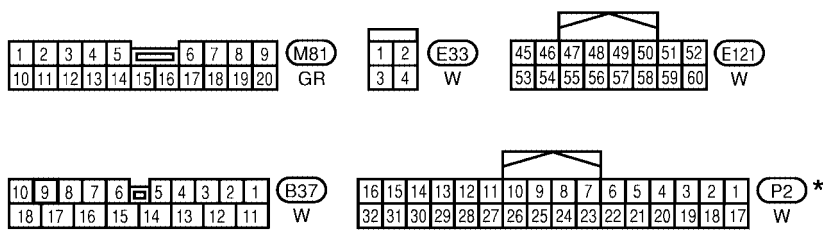
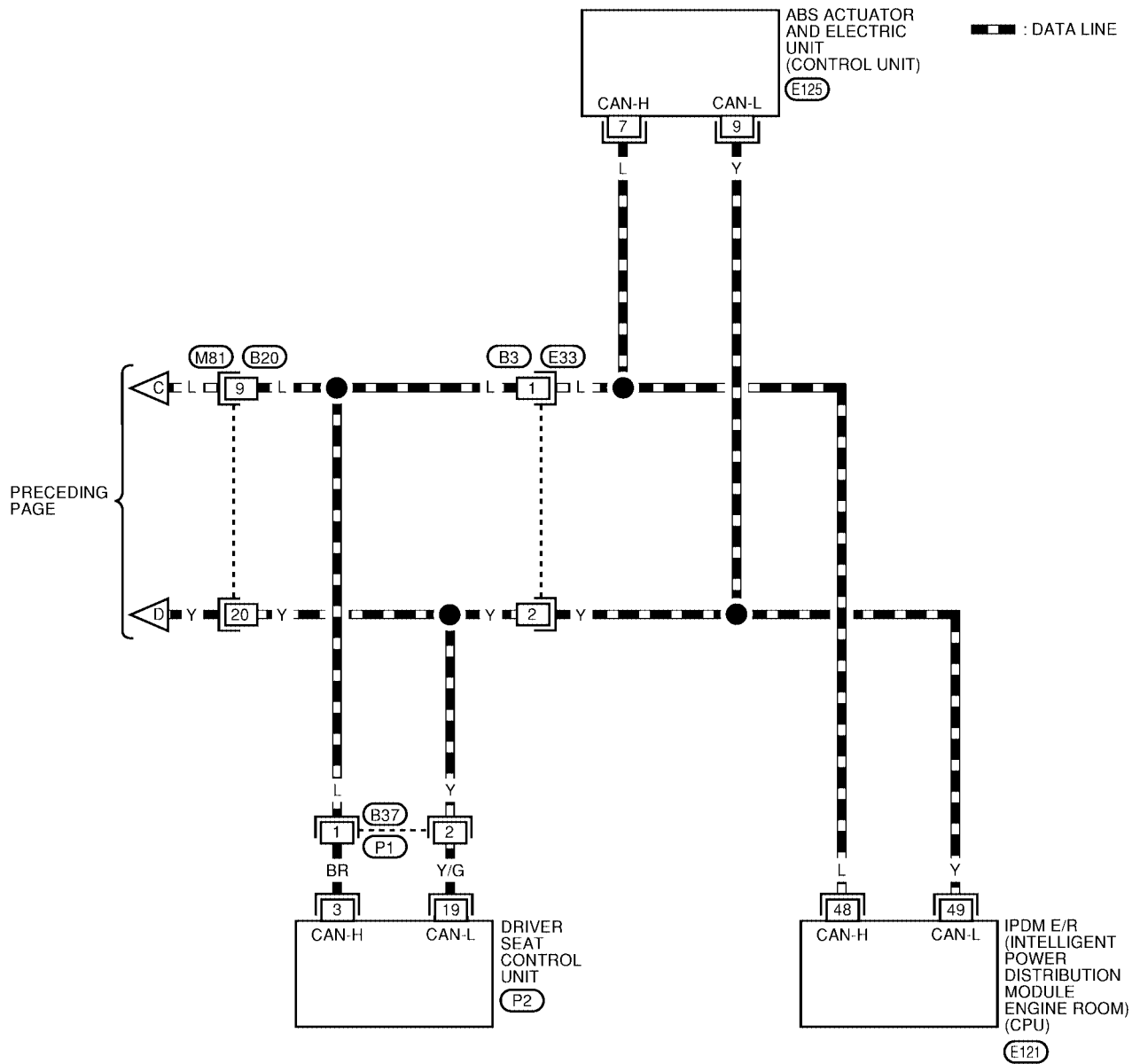


(M95)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-24



* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

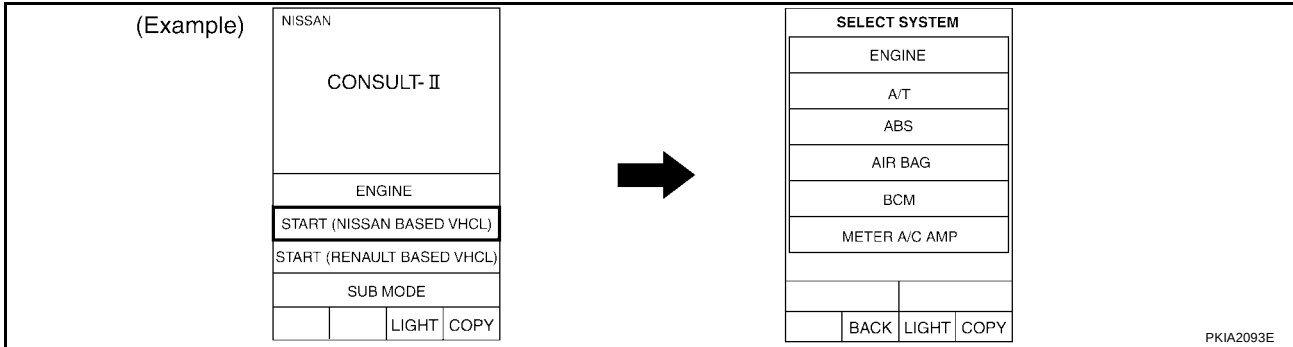
REFER TO THE FOLLOWING.

(E125) - ELECTRICAL UNITS

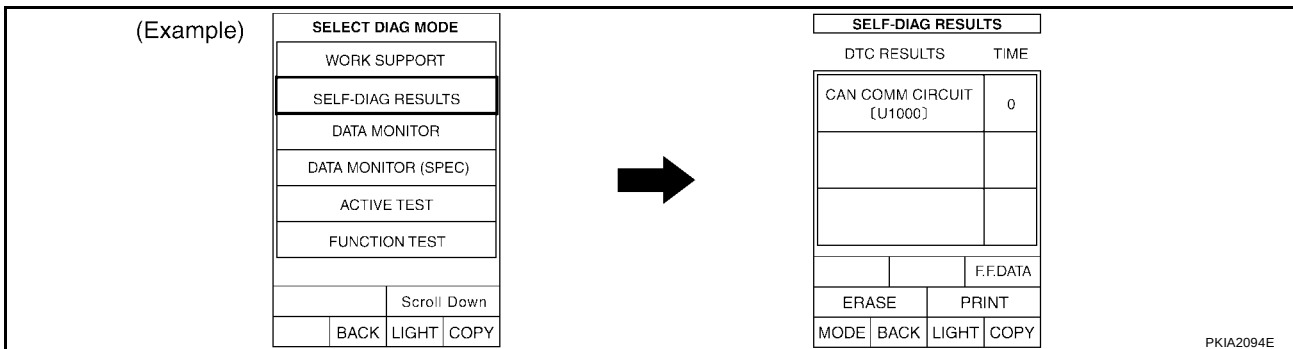
WKWA0428E

Work Flow

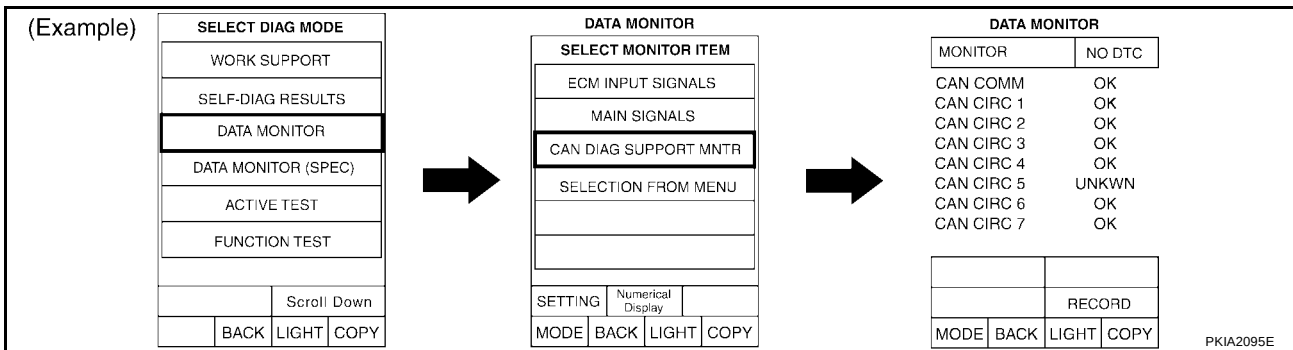
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0444E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 8)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Check CAN communication line of the navigation system.
- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0812E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0813E

CAN SYSTEM (TYPE 8)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0814E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0815E

Case 3

Replace display control unit.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0816E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0817E

CAN SYSTEM (TYPE 8)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0818E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0819E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0820E

CAN SYSTEM (TYPE 8)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	1x	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-			CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0821E

	CONSULT Indication	CAN System	1x	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-			CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-		-		-		-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0822E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	1x	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 7	
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 6	
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	
ABS	-		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	

WKIA0823E

	CONSULT Indication	CAN System	1x	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-			CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1			-	-		-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0824E

CAN SYSTEM (TYPE 8)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	~~CAN CIRC 3~~	-	-	-	-	~~CAN CIRC 2~~	-	-	-

WKIA0825E

WKIA0825E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-180](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0826E

WKIA0826E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-180](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3 ✓	CAN CIRC 7 ✓
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3 ✓	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7 ✓
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5 ✓	CAN CIRC 6 ✓
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3 ✓
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2 ✓	CAN CIRC 3 ✓	-	-	CAN CIRC 5 ✓	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0827E

WKIA0827E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-181](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	~~CAN CIRC 3~~	~~CAN CIRC 7~~
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	~~CAN CIRC 3~~	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	~~CAN CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	~~CAN CIRC 5~~	~~CAN CIRC 6~~
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	~~CAN CIRC 3~~	-	-	~~CAN CIRC 5~~	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA082BE

WKIA0828E

CAN SYSTEM (TYPE 8)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-181](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1 ✓	-	CAN CIRC 2 ✓	-	CAN CIRC 4 ✓	-	CAN CIRC 6 ✓	-	CAN CIRC 3 ✓	CAN CIRC 7 ✓
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2 ✓	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2 ✓	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0829E

Case 13

Check TCM circuit. Refer to [LAN-182](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0830E

Case 14

Check display control unit circuit. Refer to [LAN-182](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0831E

Case 15

Check data link connector circuit. Refer to [LAN-183](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0832E

CAN SYSTEM (TYPE 8)

[CAN]

Case 16

Check BCM circuit. Refer to [LAN-183](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0833E

WKIA0833E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-184](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0834E

WKIA0834E

Case 18

Check steering angle sensor circuit. Refer to [LAN-184](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0835E

WKIA0835E

Case 19

Check driver seat control unit circuit. Refer to [LAN-185](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0836F

WKIA0836E

CAN SYSTEM (TYPE 8)

[CAN]

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-185](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0837E

Case 21

Check IPDM E/R circuit. Refer to [LAN-186](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0838E

Case 22

Check CAN communication circuit. Refer to [LAN-187](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0839E

CAN SYSTEM (TYPE 8)

[CAN]

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-187](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-			CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0840E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-			CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0841E

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LAN

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

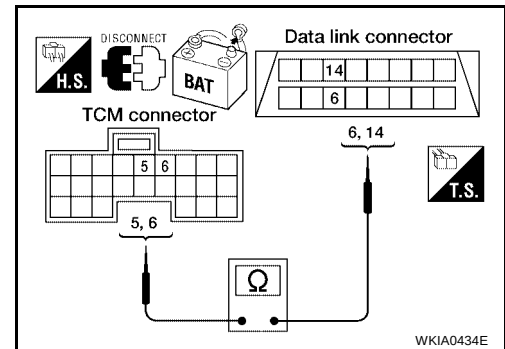
Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

5 (L) - 6 (L) : Continuity should exist.

6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-170, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

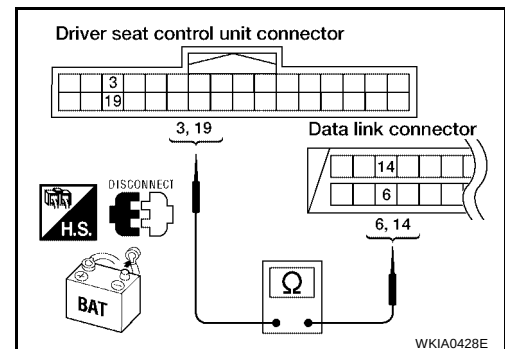
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

3 (BR) - 6 (L) : Continuity should exist.

19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-170](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

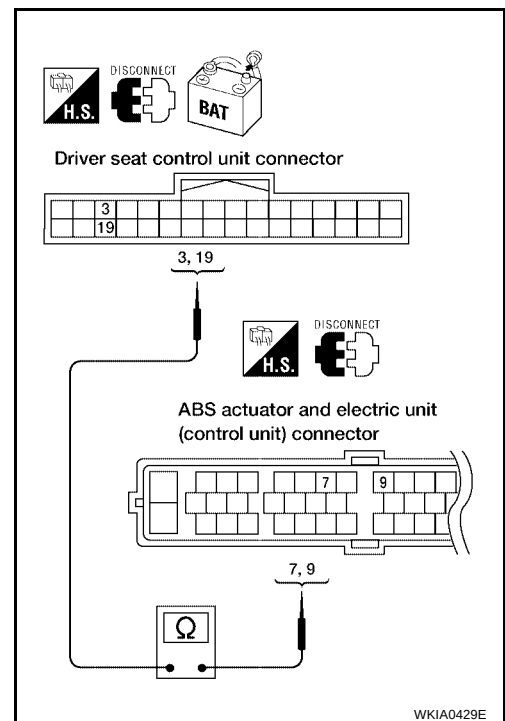
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

- 3 (BR) - 7 (L) : Continuity should exist.**
19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-170](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

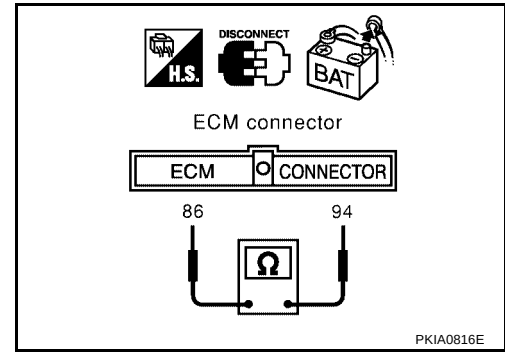
94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS004WJ

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

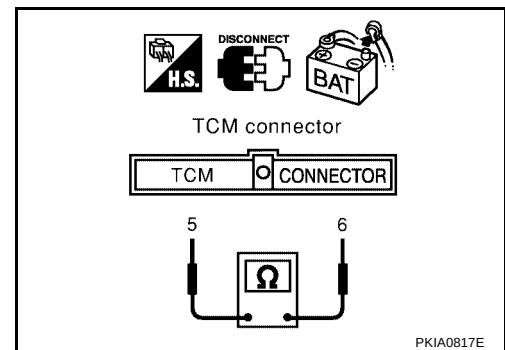
5 (L) - 6 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace TCM.

NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS004WJ

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

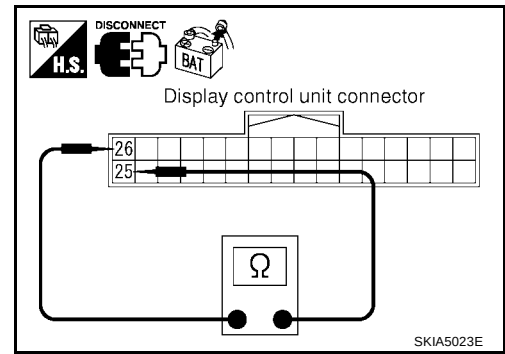
Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS004WK

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

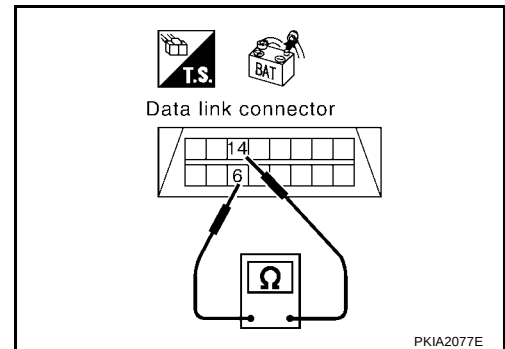
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-170](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS004WL

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

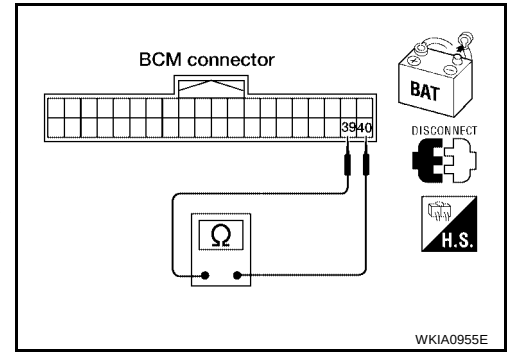
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS004WM

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

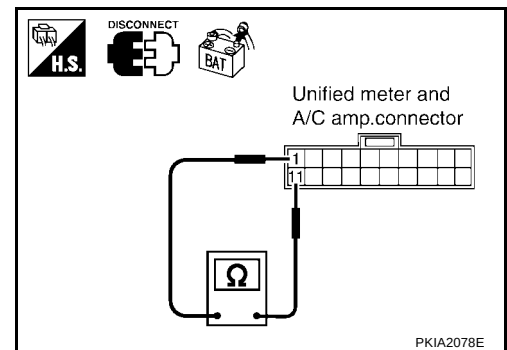
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS004WM

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

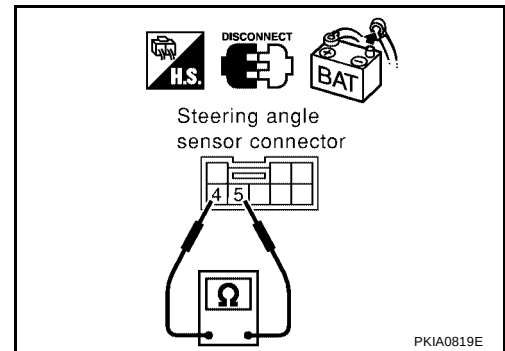
Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



EKS004WO

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

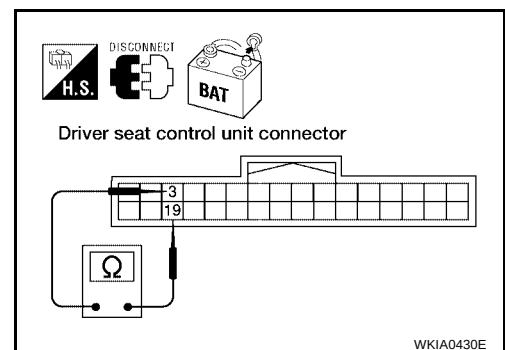
Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



EKS004WP

ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

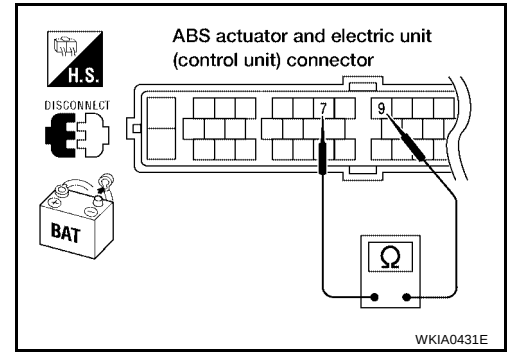
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS004WQ

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

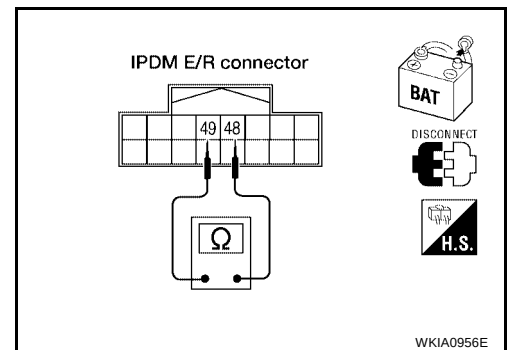
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

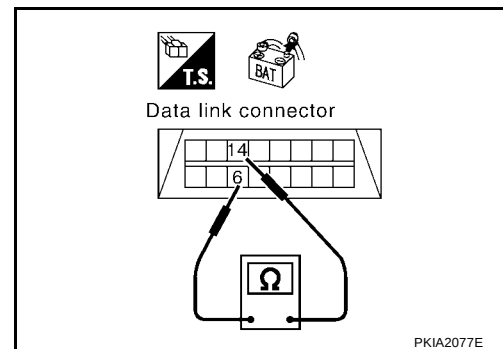
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair the harness.

**3. CHECK HARNESS FOR SHORT TO GROUND**

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

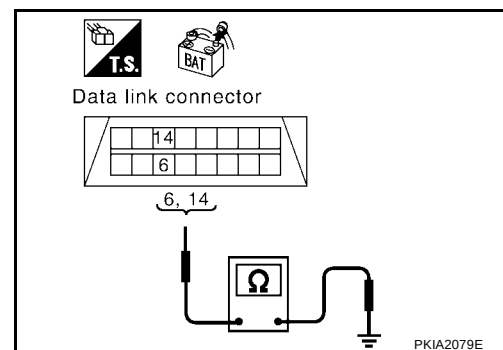
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-188, "Component Inspection"](#).

NG >> Repair the harness.

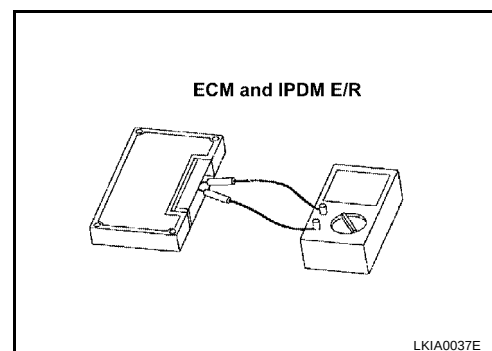
**IPDM E/R Ignition Relay Circuit Check**

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

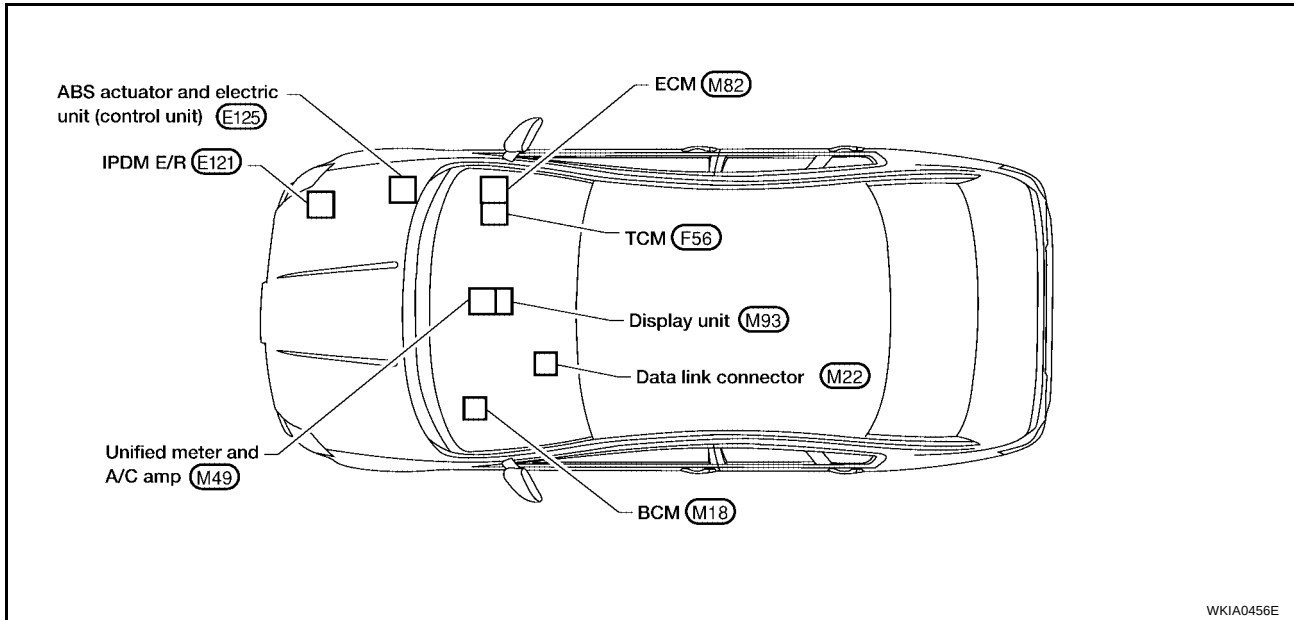


CAN SYSTEM (TYPE 9)

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

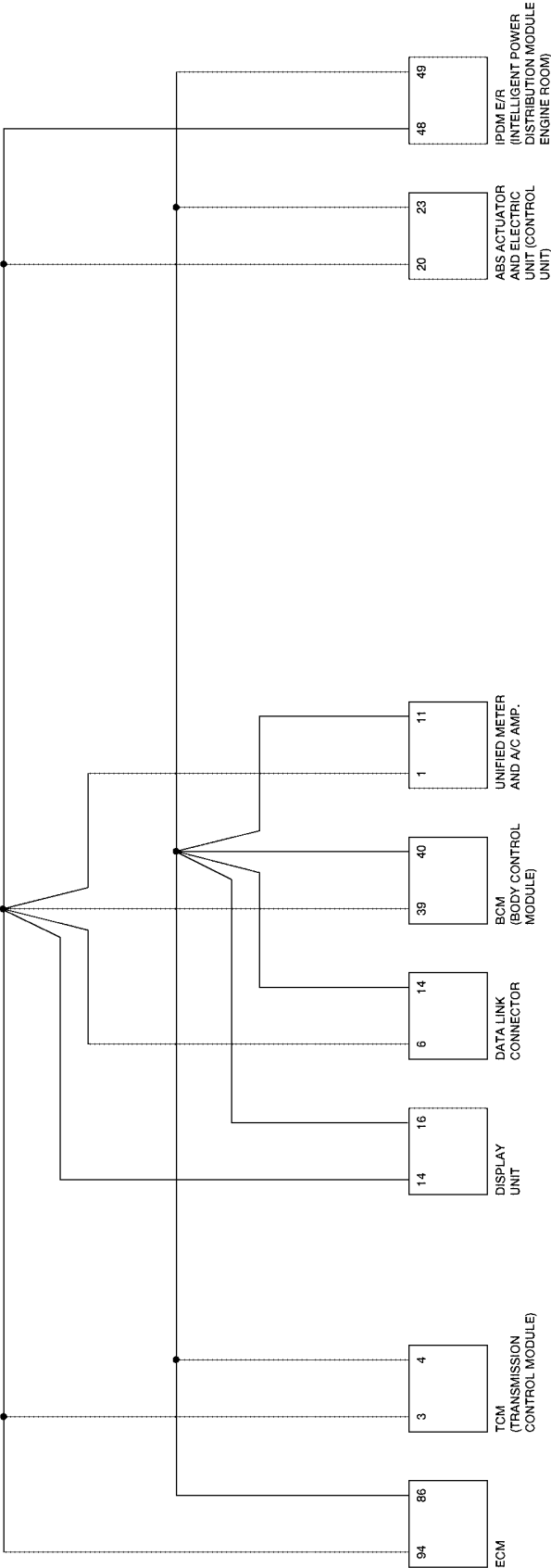
Component Parts and Harness Connector Location



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Schematic

EKS0051J



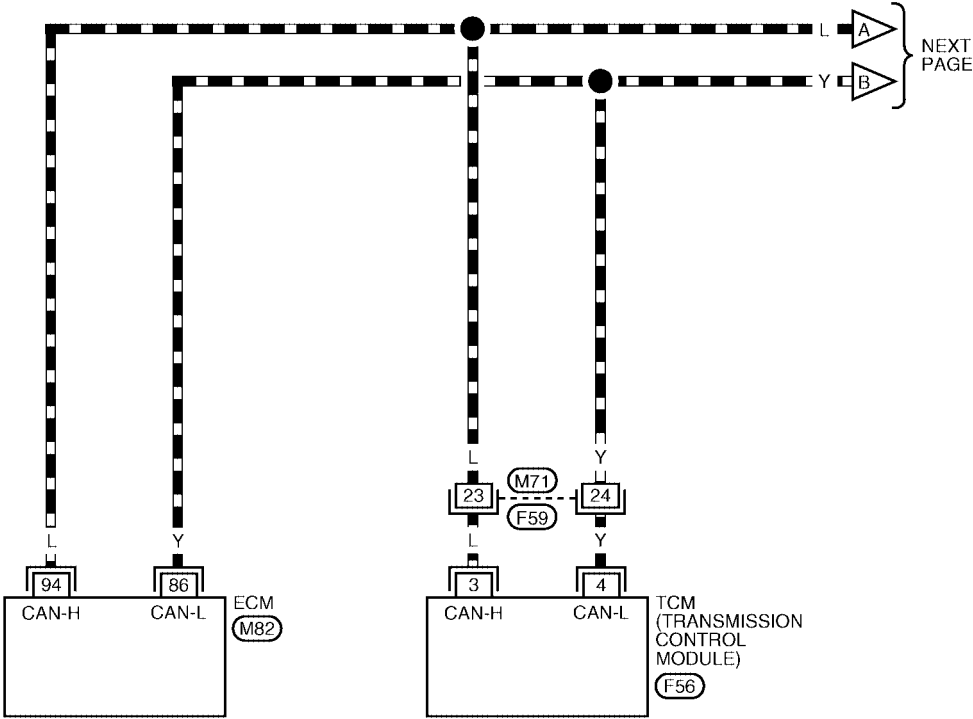
WKWA0468E

Wiring Diagram - CAN -

EKS0051K

LAN-CAN-25

▬ : DATA LINE



1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

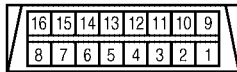
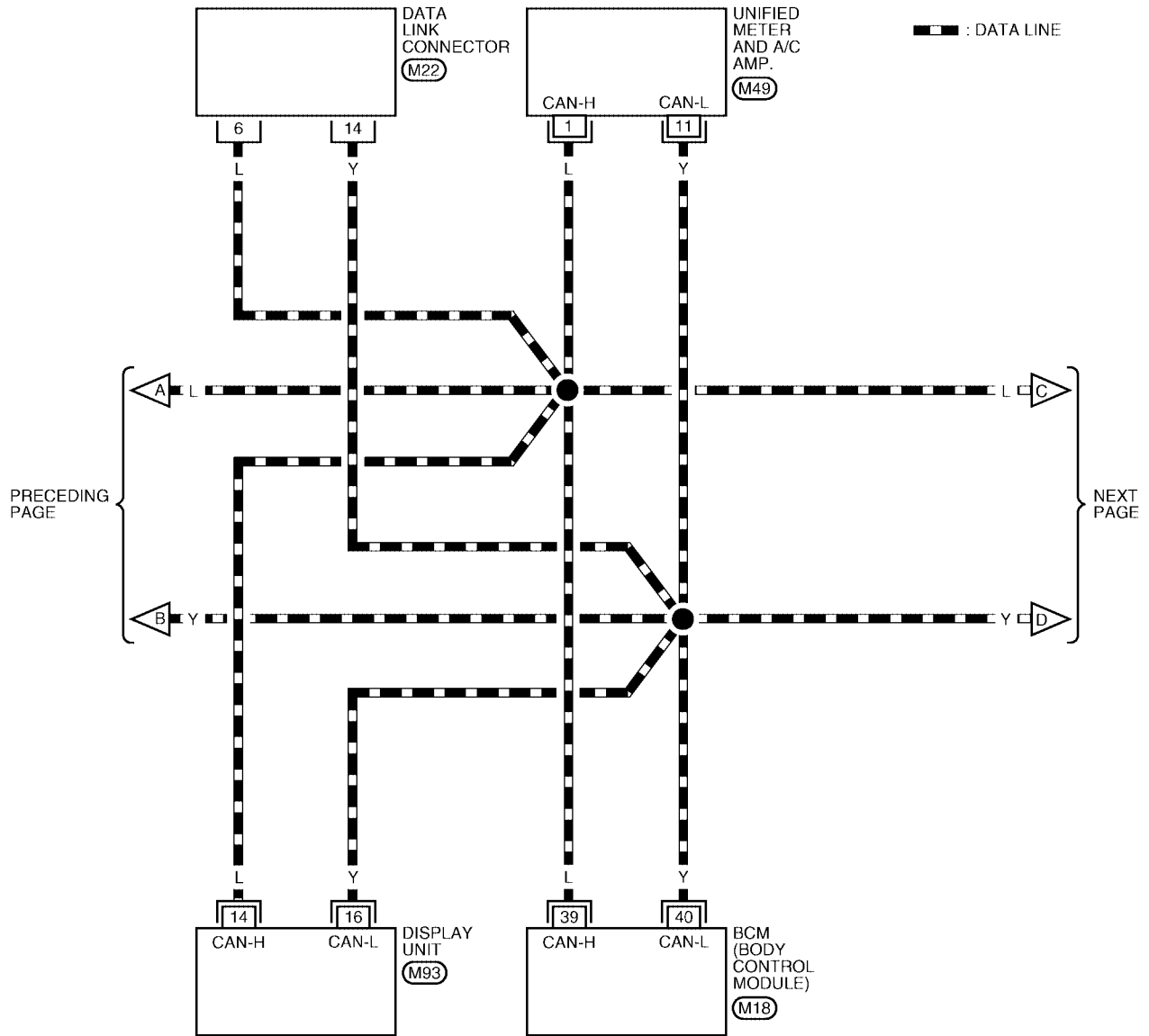
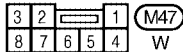
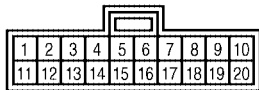
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(F59)
W

REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

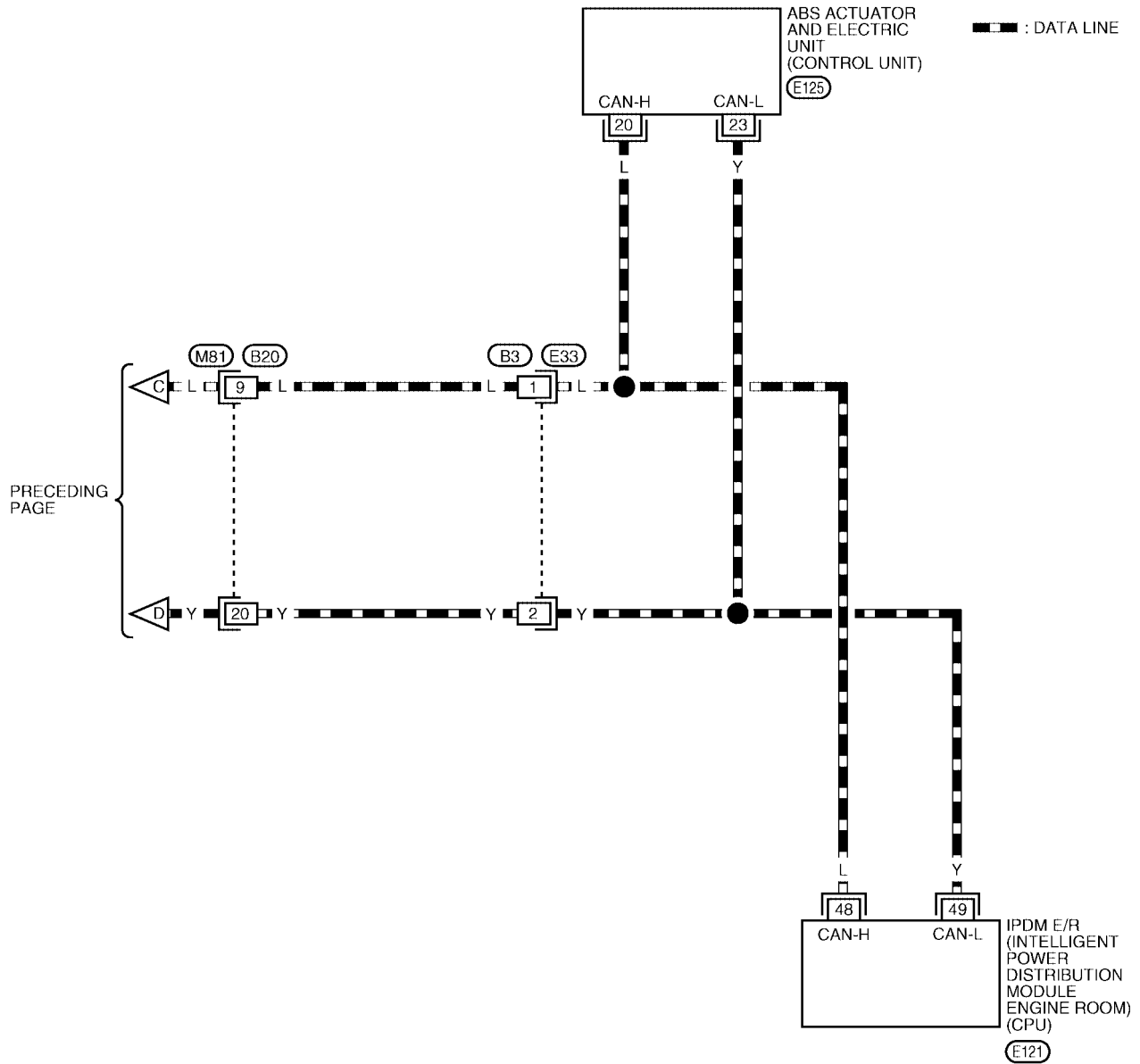
LAN-CAN-26

M22
WM47
WM49
GR

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-27



1	2	3	4	5	6	7	8	9	M81
10	11	12	13	14	15	16	17	18	GR

1	2	E33
3	4	W

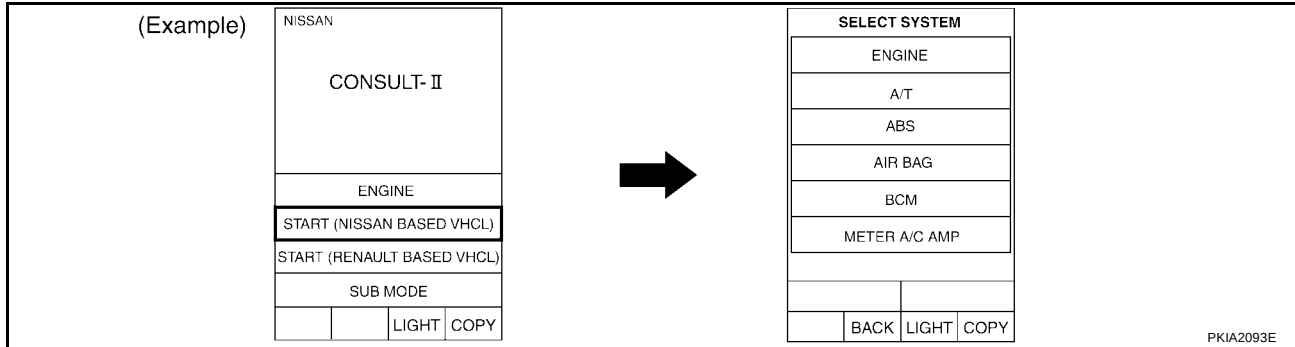
45	46	47	48	49	50	51	52	E121
53	54	55	56	57	58	59	60	W

10	9	8	7	6	5	4	3	2	1	B37
18	17	16	15	14	13	12	11			W

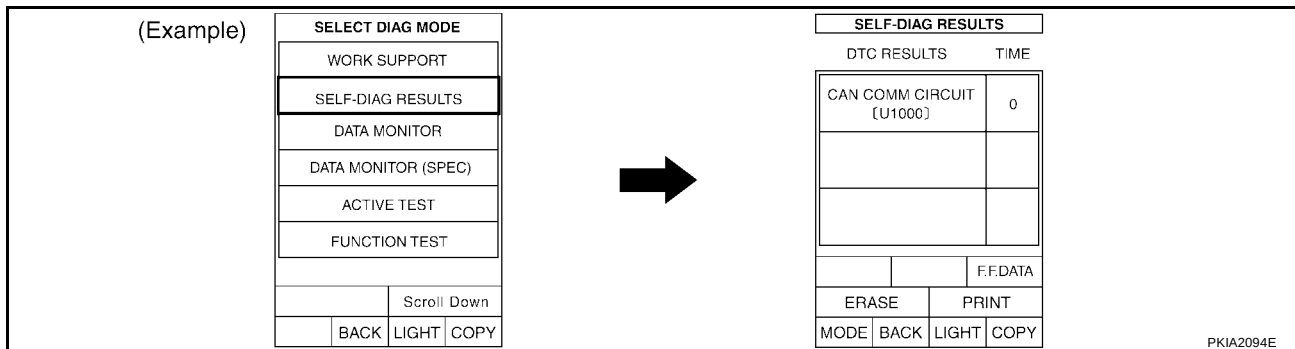
REFER TO THE FOLLOWING.
(E125) - ELECTRICAL UNITS

Work Flow

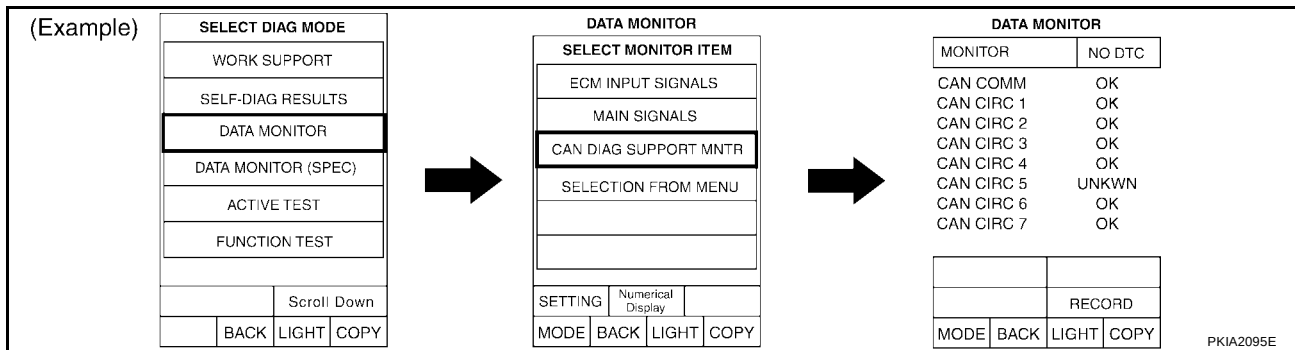
- When there are no indications of "TRANSMISSION", "BCM", "IPDM E/R" or "METER A/C AMP" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0445E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 9)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0842E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4		-	
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0843E

CAN SYSTEM (TYPE 9)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	✓ CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0844E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	✓ CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	✓ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	✓ CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0845E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		✓ CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0846E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	✓ CIRC 3	-	-	✓ CIRC 5	✓ CIRC 2		✓ CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0847E

CAN SYSTEM (TYPE 9)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	✓ CIRC 4			✓ CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0848E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	✓ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0849E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	✓ CIRC 2	✓ CIRC 3	✓ CIRC 7	-	✓ CIRC 4	✓ CIRC 5	✓ CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0850E

CAN SYSTEM (TYPE 9)

[CAN]

Case 6

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx						
				E-CM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0851E

	CONSULT Indication	CAN System	Tx	Rx						
				E-CM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0852E

Case 7

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				E-CM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0853E

Case 8

Check harness between TCM and data link connector. Refer to [LAN-202](#).

	CONSULT Indication	CAN System	Tx	Rx						
				E-CM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4			CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0854E

CAN SYSTEM (TYPE 9)

[CAN]

Case 9

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-202](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		✓ CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		✓ CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	✓ CIRC 5	✓ CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		✓ CIRC 3
ABS		CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	-	-		
IPDM F/R	✓ No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0855E

Case 10

Check ECM circuit. Refer to [LAN-203](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	✓ CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	CAN CIRC 4	-		
DISPLAY UNIT		CAN COMM	CIRC 1	✓ CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	✓ CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	-	-		
IPDM F/R	No Disp		CAN CIRC 1	✓ CIRC 3	-	-	-	CAN CIRC 2		

WKIA0856E

Case 11

Check TCM circuit. Refer to [LAN-204](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	✓ CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	✓ No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	✓ CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-		
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0857E

Case 12

Check display unit circuit. Refer to [LAN-204](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		
DISPLAY UNIT		CAN COMM	✓ CIRC 1	✓ CIRC 3	-	-	✓ CIRC 5	✓ CIRC 2		✓ CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	✓ CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-		
IPDM F/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		

WKIA0858E

CAN SYSTEM (TYPE 9)

[CAN]

Case 13

Check data link connector circuit. Refer to [LAN-205](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Dep	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CIRC 2	-	-	-	-	-	-
IPDM F/R	No Dep	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0859E

Case 14

Check BCM circuit. Refer to [LAN-205](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Dep	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM F/R	No Dep	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0860E

Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-206](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Dep	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM F/R	No Dep	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0861E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-206](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Dep	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Dep	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM F/R	No Dep	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0862E

CAN SYSTEM (TYPE 9)

[CAN]

Case 17

Check IPDM E/R circuit. Refer to [LAN-207](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-		-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		-

WKIA0863E

Case 18

Check CAN communication circuit. Refer to [LAN-207](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		-
DISPLAY UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-		-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		-

WKIA0864E

Case 19

Check IPDM E/R Ignition relay circuit. Refer to [LAN-208](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-		-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		-

WKIA0865E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6		CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		-
DISPLAY UNIT		CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2		CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-		CAN CIRC 3
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-		-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2		-

WKIA0866E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

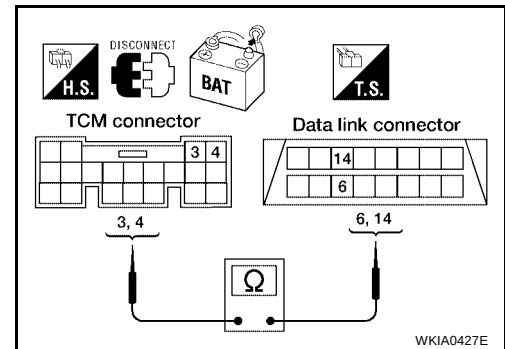
Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

3 (L) - 6 (L) : Continuity should exist.

4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-194, "Work Flow"](#) .
 NG >> Repair harness.



Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

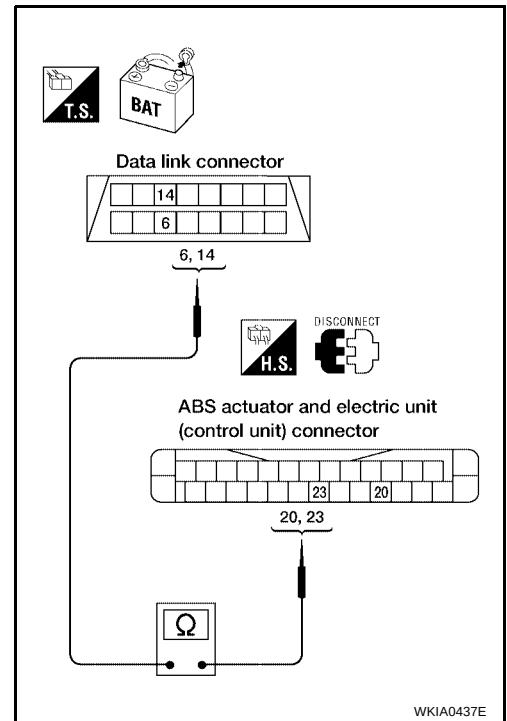
6 (L) - 20 (L) : Continuity should exist.

14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-194](#).

NG >> Repair harness.



EKS00510

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

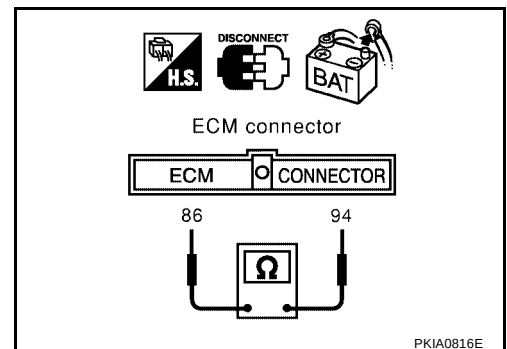
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and TCM connector F56.



TCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

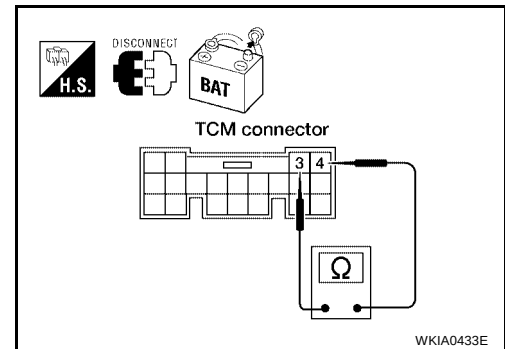
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS0051Q

Display Unit Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

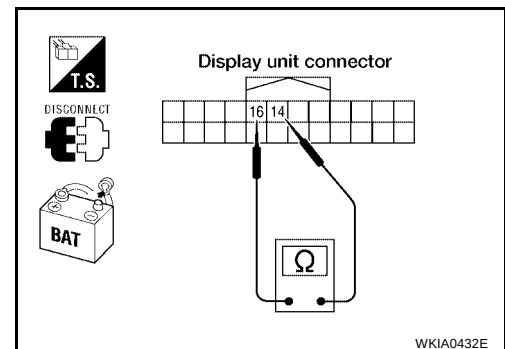
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



WKIA0432E

Data Link Connector Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

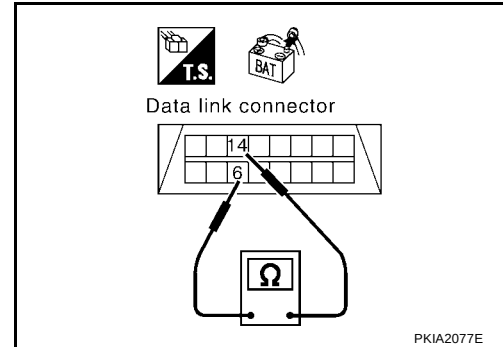
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-194](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



PKIA2077E

BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

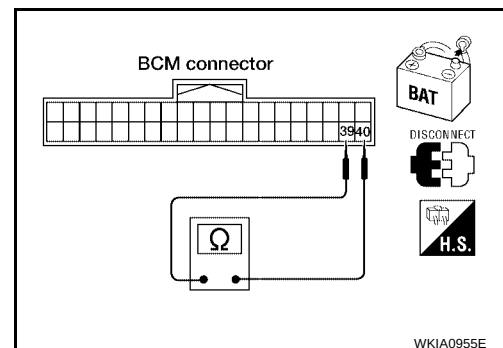
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



WKIA0955E

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

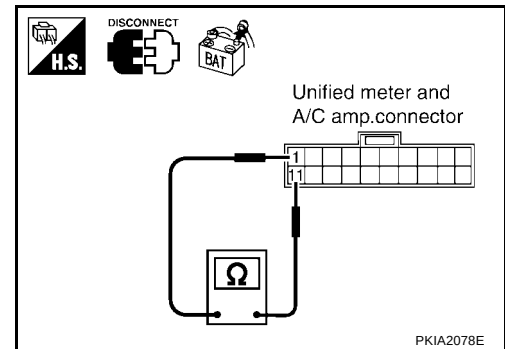
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

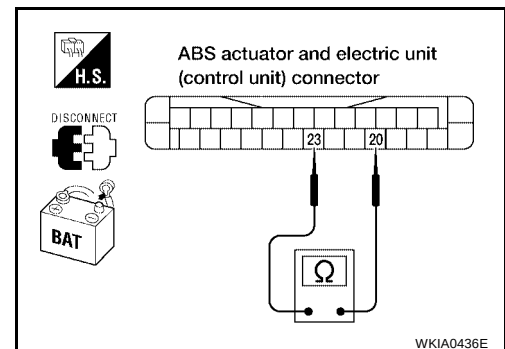
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

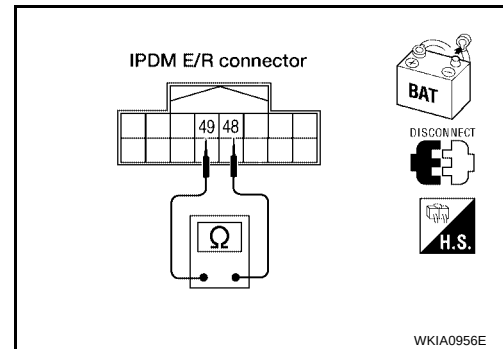
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

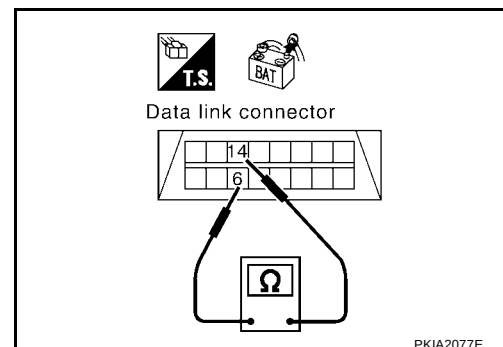
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

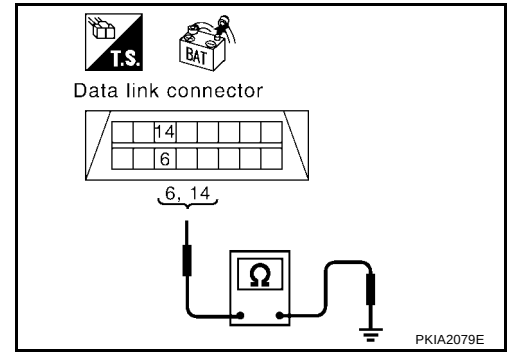
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-208, "Component Inspection"](#).

NG >> Repair the harness.



EKS005IX

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

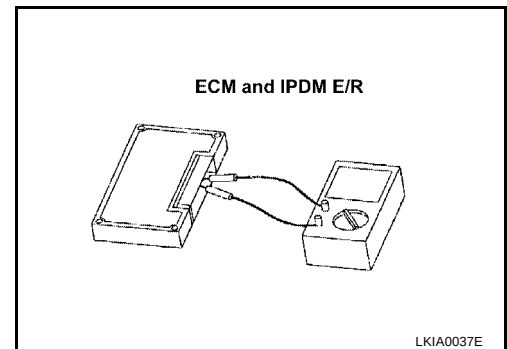
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS005IY



CAN SYSTEM (TYPE 10)

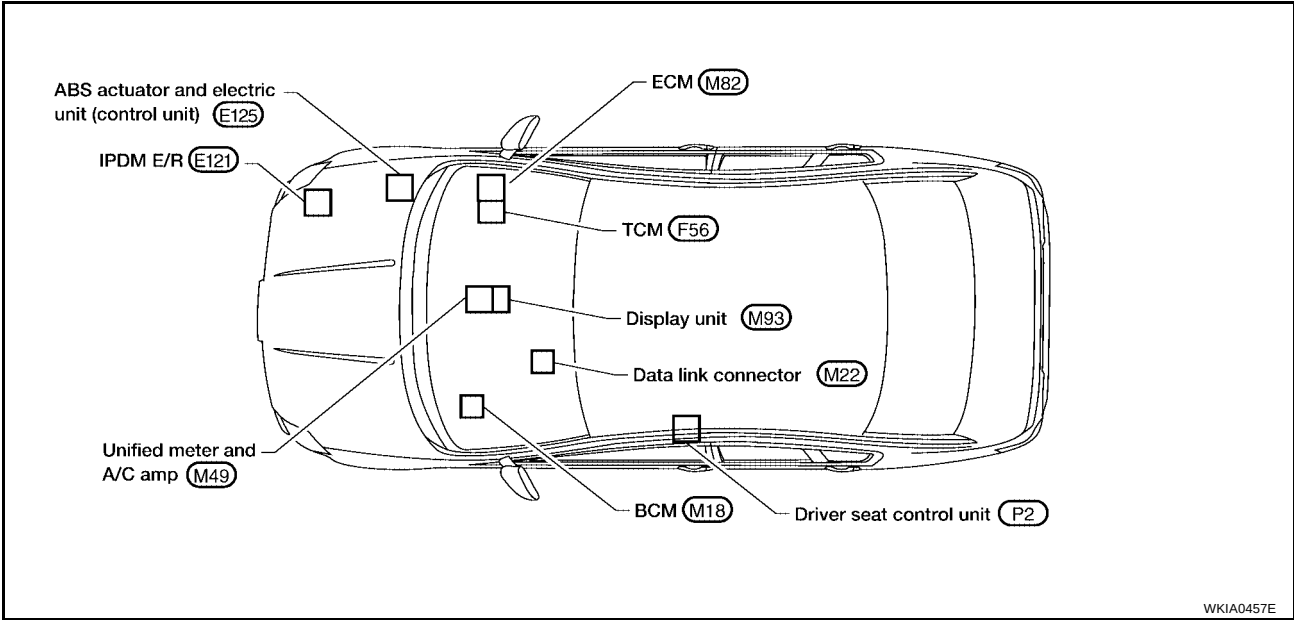
System Description

EKS0051Z

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

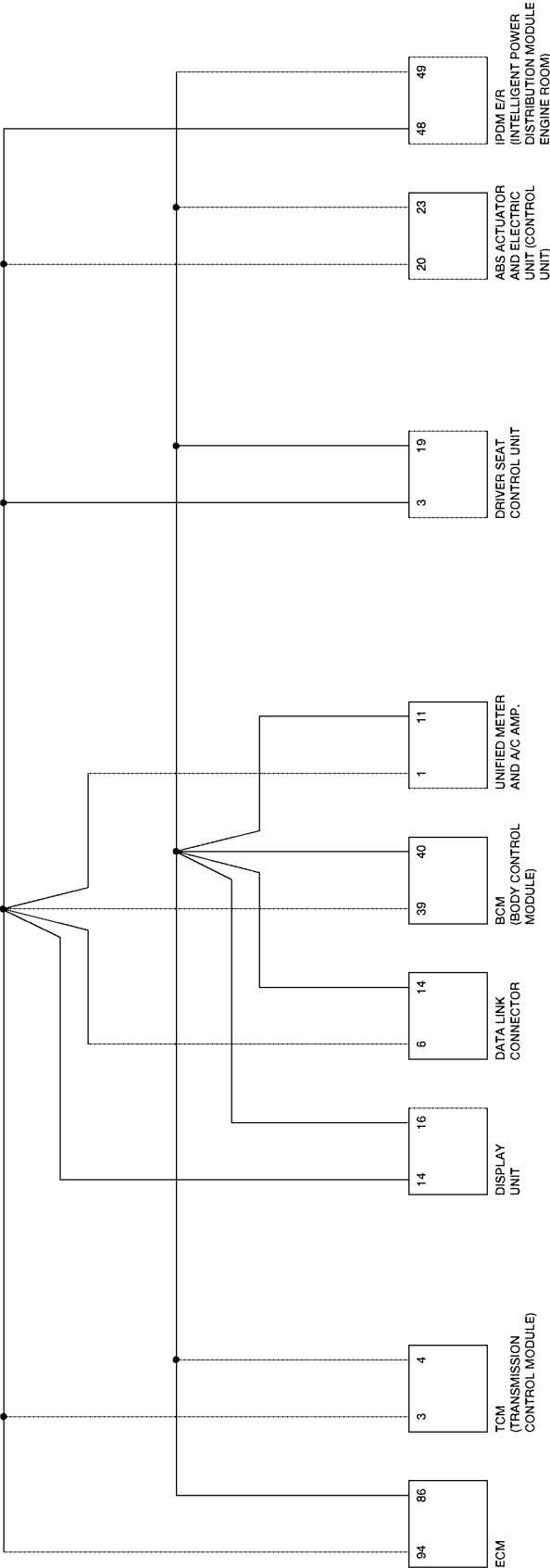
EKS00510



A
B
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Schematic

EKS005J1



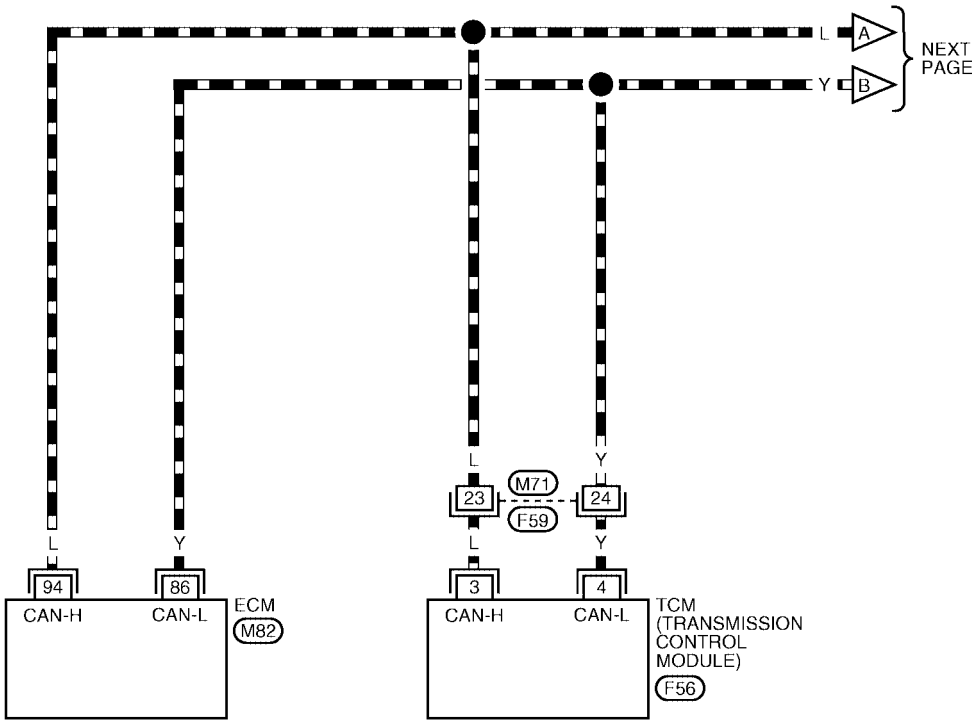
WKWA0469E

Wiring Diagram - CAN -

EKS005J2

LAN-CAN-28

DATA LINE



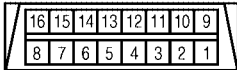
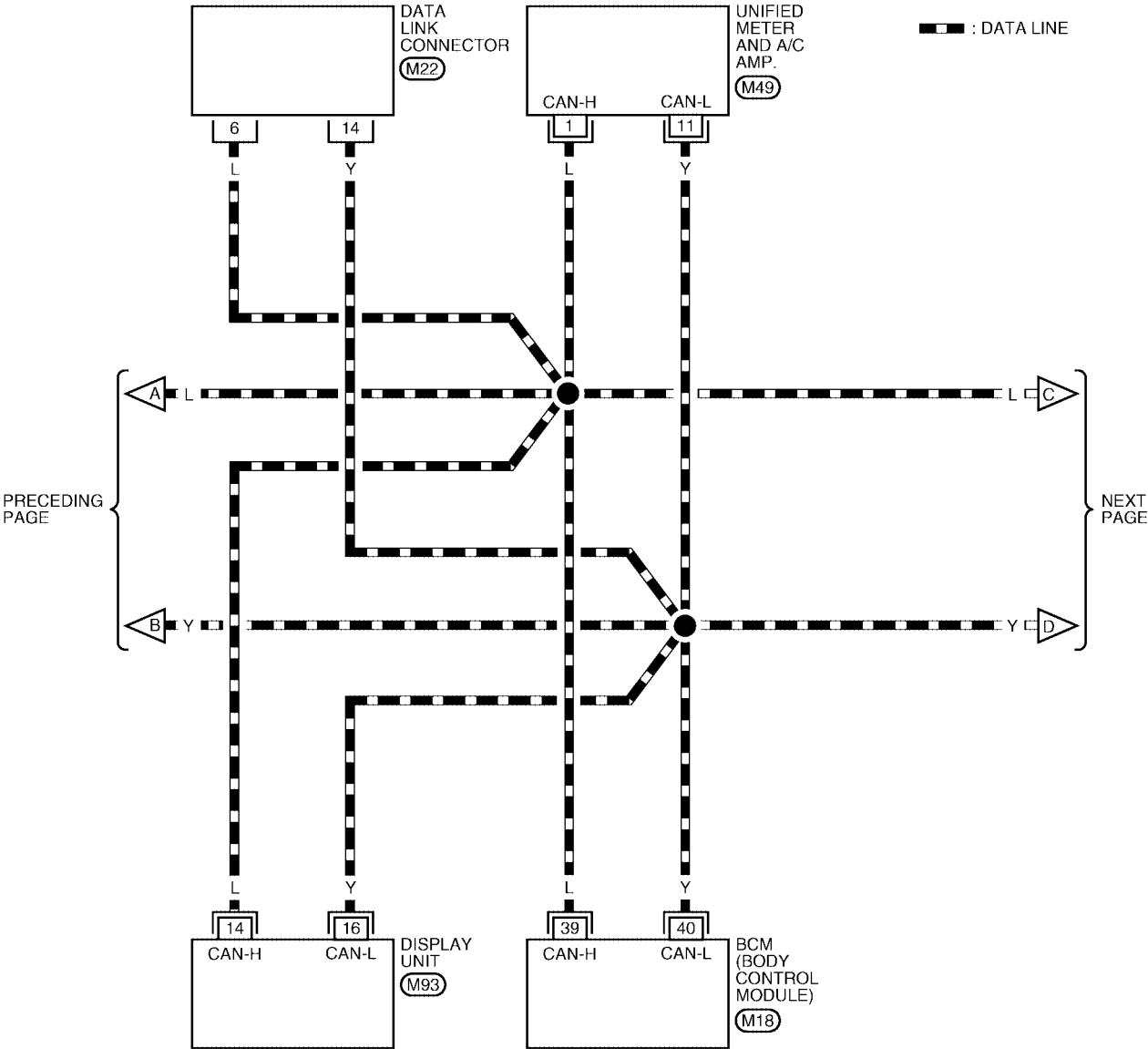
1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

F59

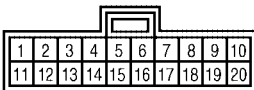
W

F59
W

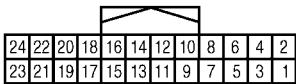
REFER TO THE FOLLOWING.
(M82) (F56) - ELECTRICAL
UNITS



M22
W

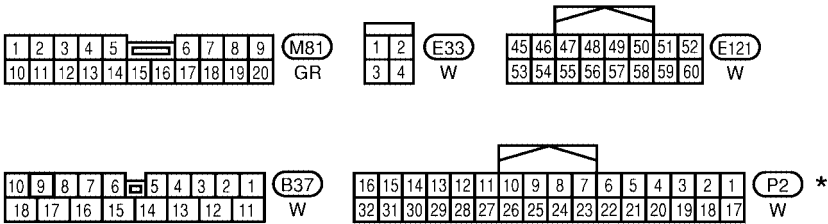
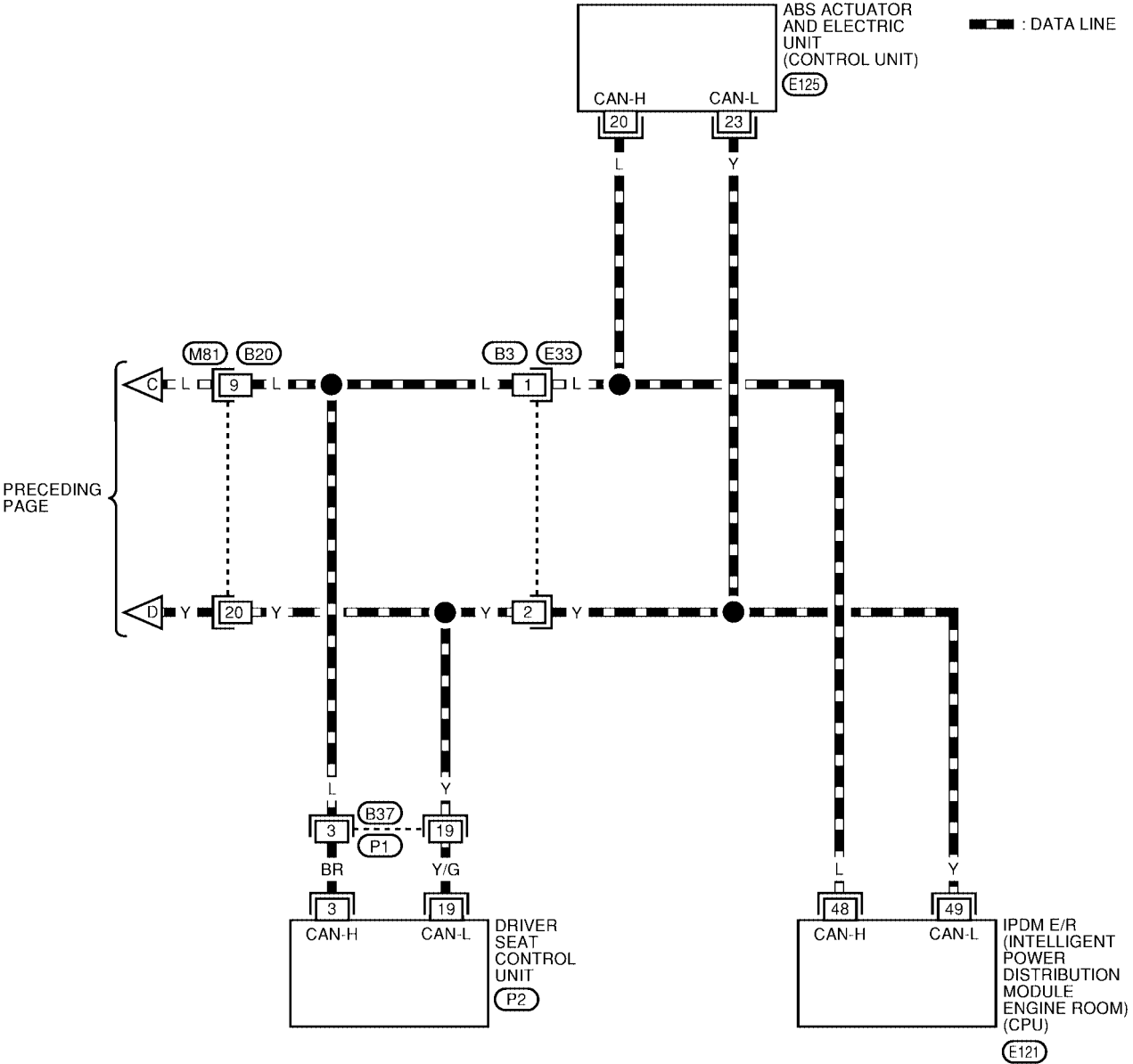


M49
GR



M93
W

REFER TO THE FOLLOWING.
M18 - ELECTRICAL UNITS

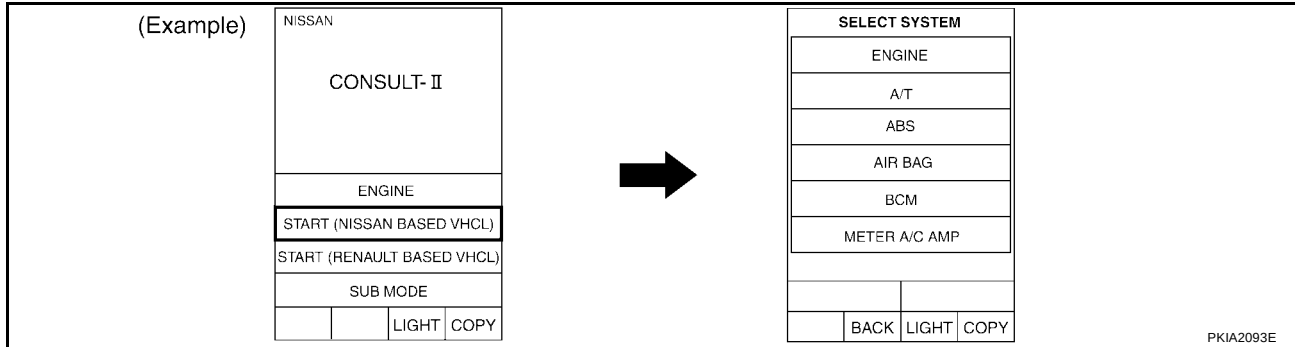


* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

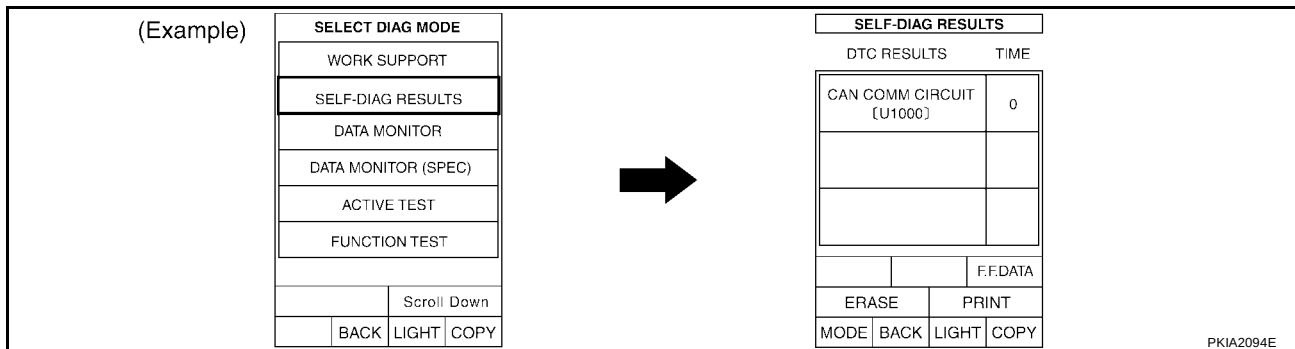
REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

Work Flow

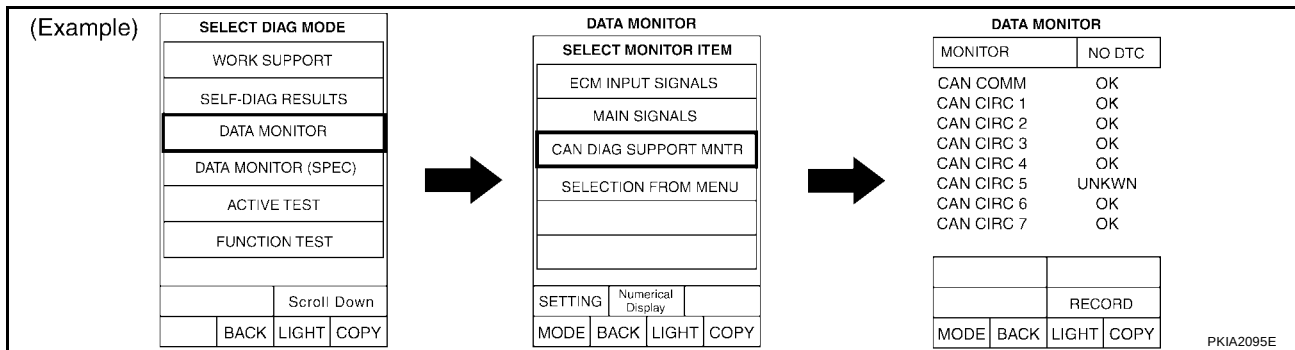
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified motor and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0446E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 10)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		☒ CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT		☒ CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	☒ CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS		☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0867E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	☒ CAN COMM	CAN CIRC 1	-	☒ CAN CIRC 2	-	☒ CAN CIRC 4	☒ CAN CIRC 6	-	-	☒ CAN CIRC 7
TRANSMISSION	No Disp	☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	☒ CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	☒ CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0868E

CAN SYSTEM (TYPE 10)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	~~CAN CIRC 4~~	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0869E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 2~~	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 3~~	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 4~~	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0870E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	~~CAN COMM~~	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0871E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	~~CIRC 3~~	-	-	~~CIRC 5~~	~~CIRC 2~~	-	-	~~CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0872E

CAN SYSTEM (TYPE 10)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	-	-	~~CAN CIRC 4~~	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0873E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0874E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	~~CAN CIRC 2~~	~~CAN CIRC 3~~	~~CAN CIRC 7~~	-	~~CAN CIRC 4~~	-	~~CAN CIRC 5~~	~~CAN CIRC 6~~
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0875E

CAN SYSTEM (TYPE 10)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
D/SPLOY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	~~CAN COMM~~	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0876E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 4~~	-	~~CAN CIRC 3~~	~~CAN CIRC 2~~	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0877E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0878E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0879E

CAN SYSTEM (TYPE 10)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0880E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-223](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0881E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-223](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0882E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-224](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0883E

CAN SYSTEM (TYPE 10)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-224](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1 ✓	-	CAN CIRC 2 ✓	-	CAN CIRC 4 ✓	CAN CIRC 6 ✓	-	-	CAN CIRC 7 ✓
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3 ✓	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2 ✓	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2 ✓	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3 ✓	-	-	-	CAN CIRC 2	-	-	-

WKIA0884E

Case 13

Check TCM circuit. Refer to [LAN-225](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2 ✓	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3 ✓	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4 ✓	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0885E

Case 14

Check display unit circuit. Refer to [LAN-225](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1 ✓	CIRC 3 ✓	-	-	CIRC 5 ✓	CIRC 2 ✓	-	-	CIRC 7 ✓
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7 ✓	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0886E

Case 15

Check data link connector circuit. Refer to [LAN-226](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0887E

Case 16Check BCM circuit. Refer to [LAN-226](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	☒ CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	☒ CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6 CAN CIRC 3
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	☒ CAN CIRC 2	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	☒ CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	☒ CAN CIRC 2	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	-	☒ CIRC 2	-	-	-

WKIA0888E

Case 17Check unified meter and A/C amp. circuit. Refer to [LAN-227](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	☒ CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	☒ CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	☒ CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	☒ No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6 CAN CIRC 3
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	☒ CAN CIRC 4	-	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	☒ CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0889E

Case 18Check driver seat control unit circuit. Refer to [LAN-227](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6 CAN CIRC 3
BCM	No Disp	CAN COMM	CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	-	-
AUTO DRIVE POS.	☒ No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0890E

Case 19Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-228](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	☒ CAN CIRC 5	CAN CIRC 6 CAN CIRC 3
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	☒ CAN CIRC 1	☒ CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0891E

CAN SYSTEM (TYPE 10)

[CAN]

Case 20

Check IPDM E/R circuit. Refer to [LAN-228](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	☒ CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	☒ CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	☒ CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	☒ CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	☒ No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0892E

Case 21

Check CAN communication circuit. Refer to [LAN-229](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	☒ CAN CIRC 1	-	☒ CAN CIRC 2	-	☒ CAN CIRC 4	☒ CAN CIRC 6	-	-	☒ CAN CIRC 7
TRANSMISSION	☒ No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	☒ CIRC 1	☒ CIRC 3	-	-	☒ CIRC 5	☒ CIRC 2	-	-	☒ CIRC 7
METER A/C AMP	☒ No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	☒ No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	☒ No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	☒ CAN CIRC 1	☒ CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	☒ No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0893E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-230](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	☒ CAN CIRC 2	-	-	☒ CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	☒ CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0894E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	☒ CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	☒ CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	☒ CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	☒ CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0895E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

3 (L) - 6 (L) : Continuity should exist.

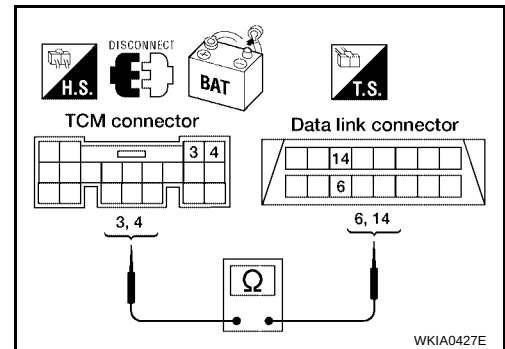
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to

[LAN-214, "Work Flow"](#)

NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

3 (BR) - 6 (L) : Continuity should exist.

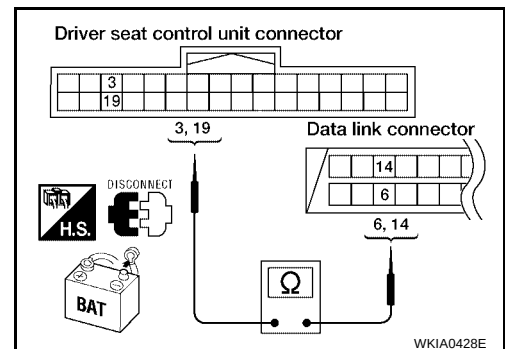
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to

[LAN-214](#).

NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

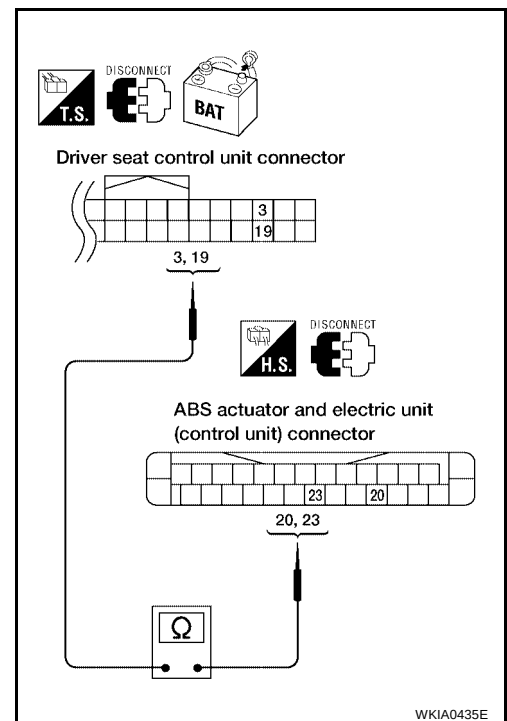
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-214](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

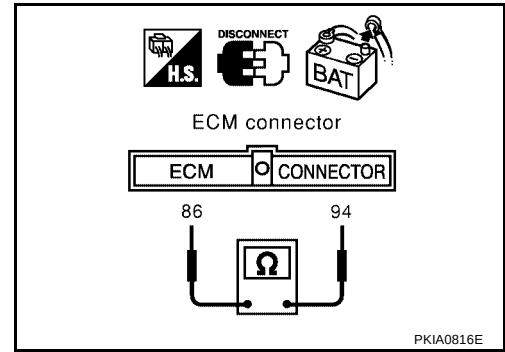
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS005J8

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

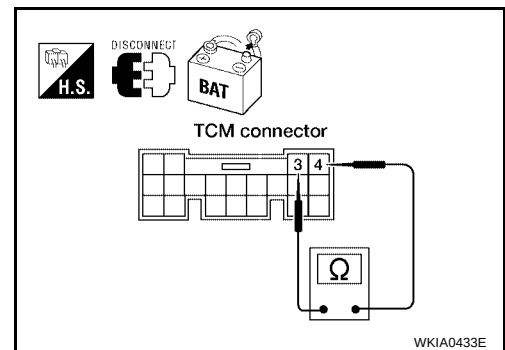
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS005J9

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

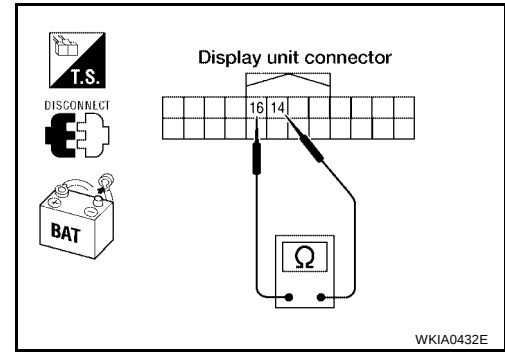
14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace display unit.

NG >> Repair harness between display unit connector M93 and data link connector M22.



EKS005JA

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

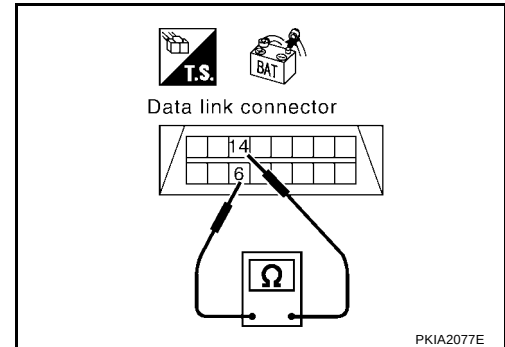
6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Connect all connectors and diagnose again. Refer to !!! Hyper-link Error !!! Hyper-link Error !!! .

NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS005JB

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

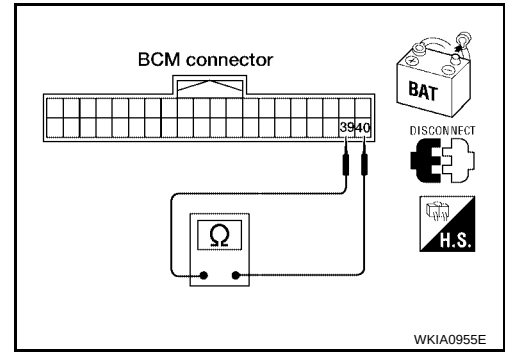
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS005JC

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

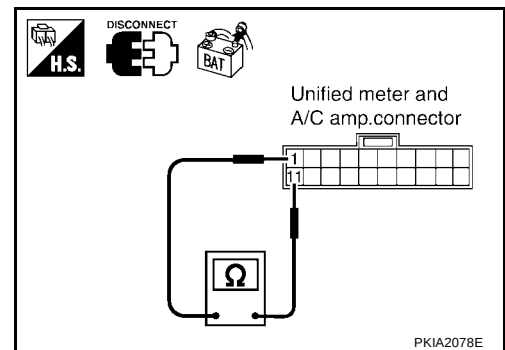
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS005JD

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

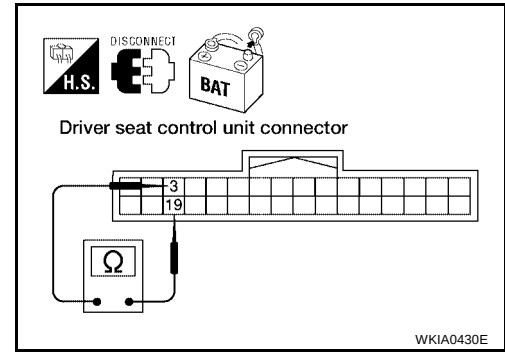
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS005JE

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

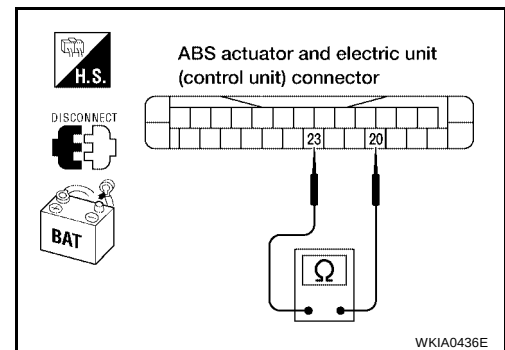
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS005JF

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

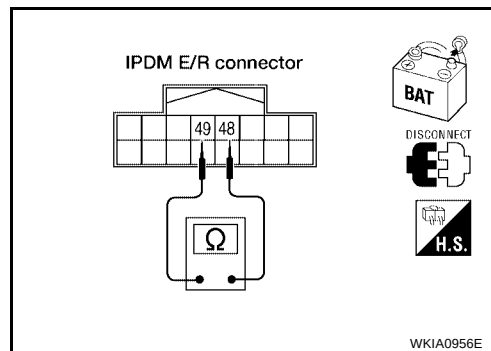
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS005JG

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

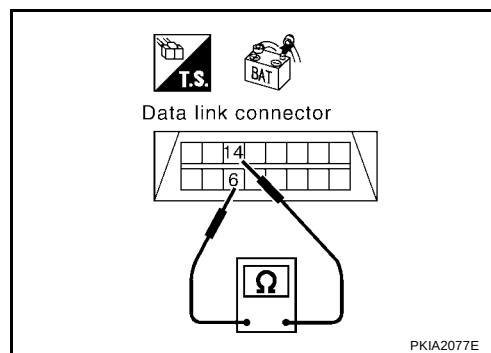
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

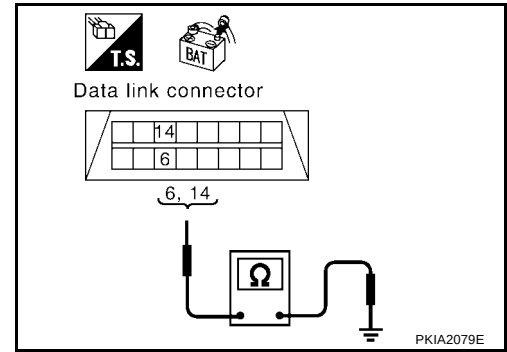
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-230, "Component Inspection"](#).

NG >> Repair the harness.



EKS005JH

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

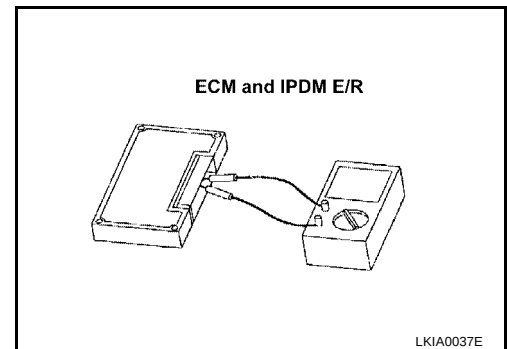
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS005JI



CAN SYSTEM (TYPE 11)

PFP:23710

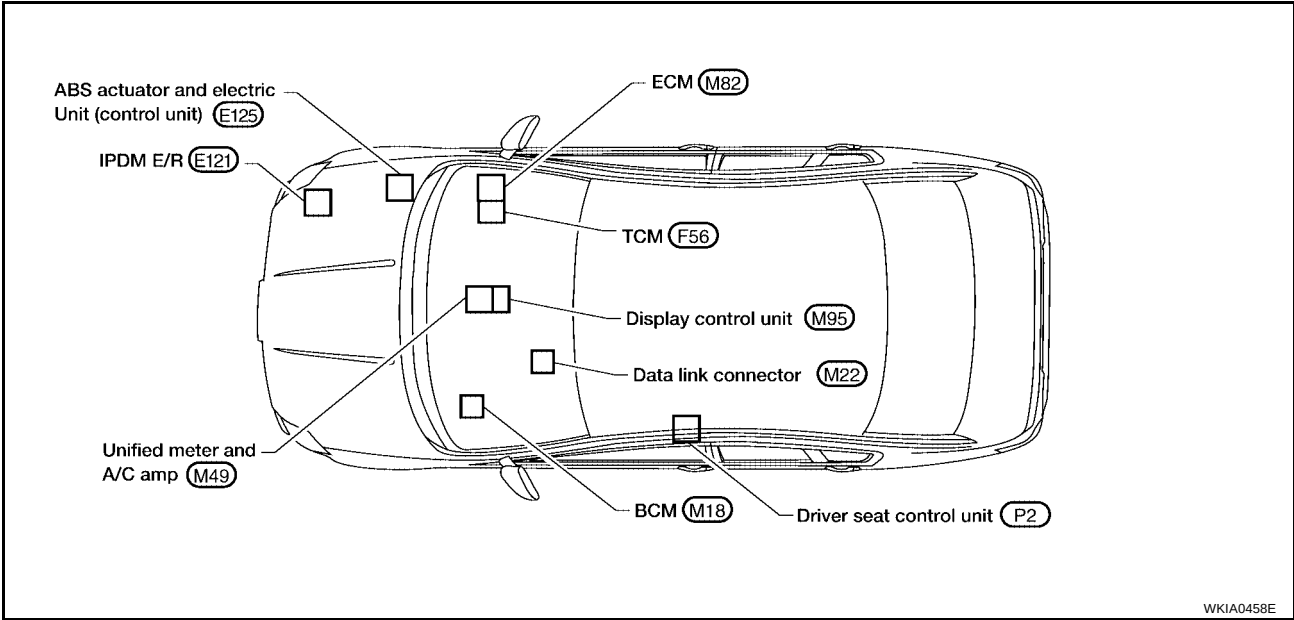
System Description

EKS005JJ

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS005JK

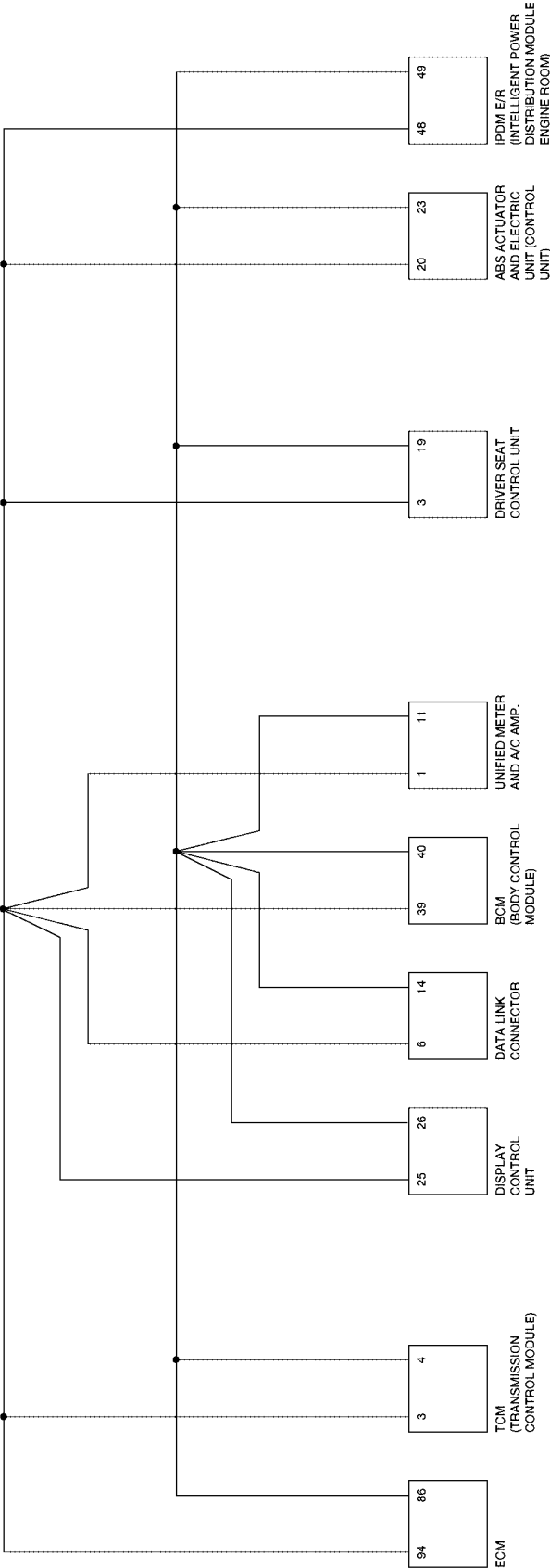


WKIA0458E

A
B
C
D
E
F
G
H
I
J
LAN
L
M

Schematic

EKS005JL



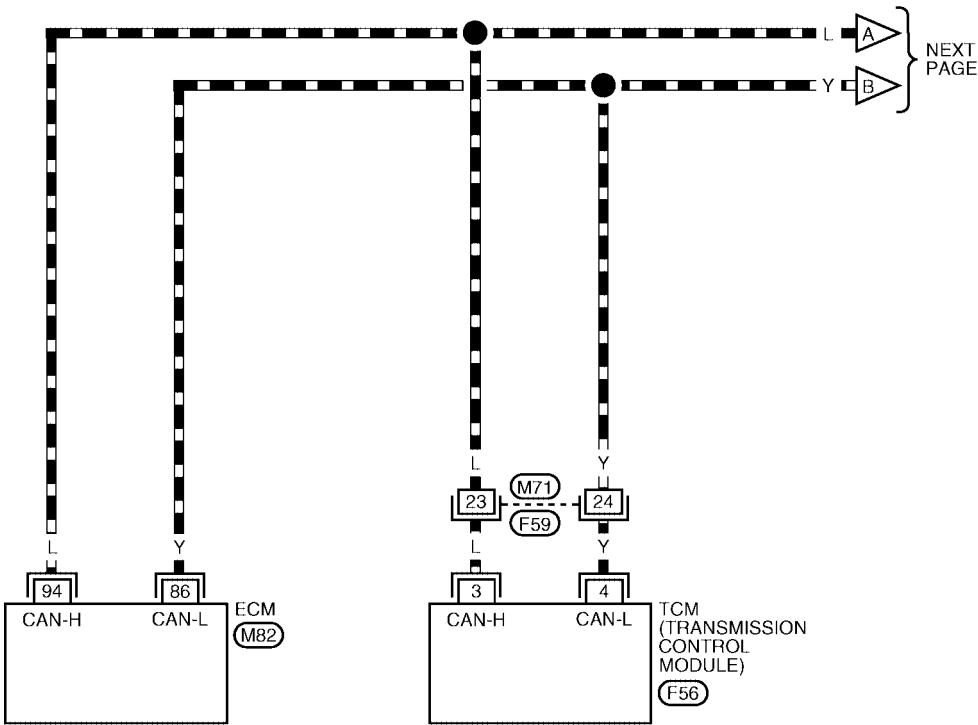
WKWA0470E

Wiring Diagram - CAN -

EKS005JM

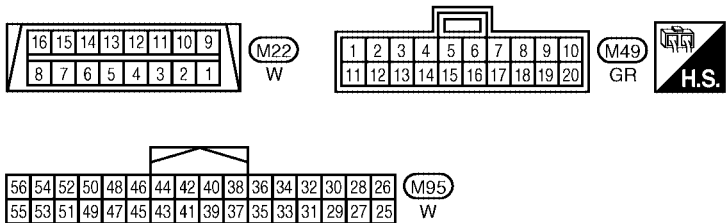
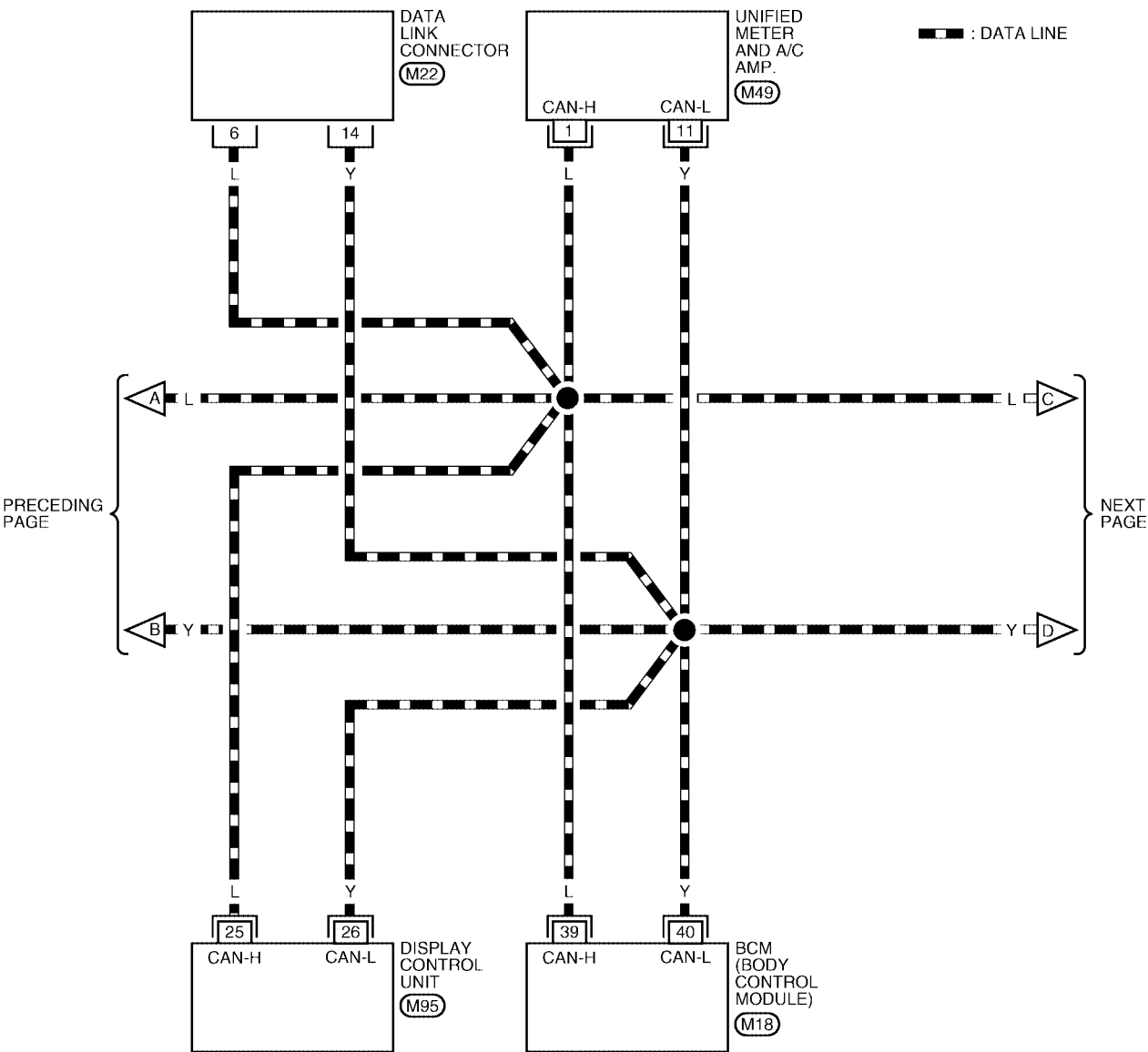
LAN-CAN-31

: DATA LINE



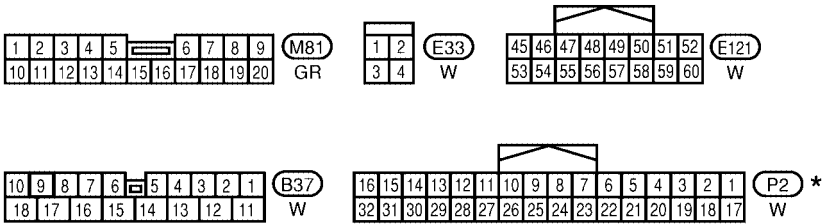
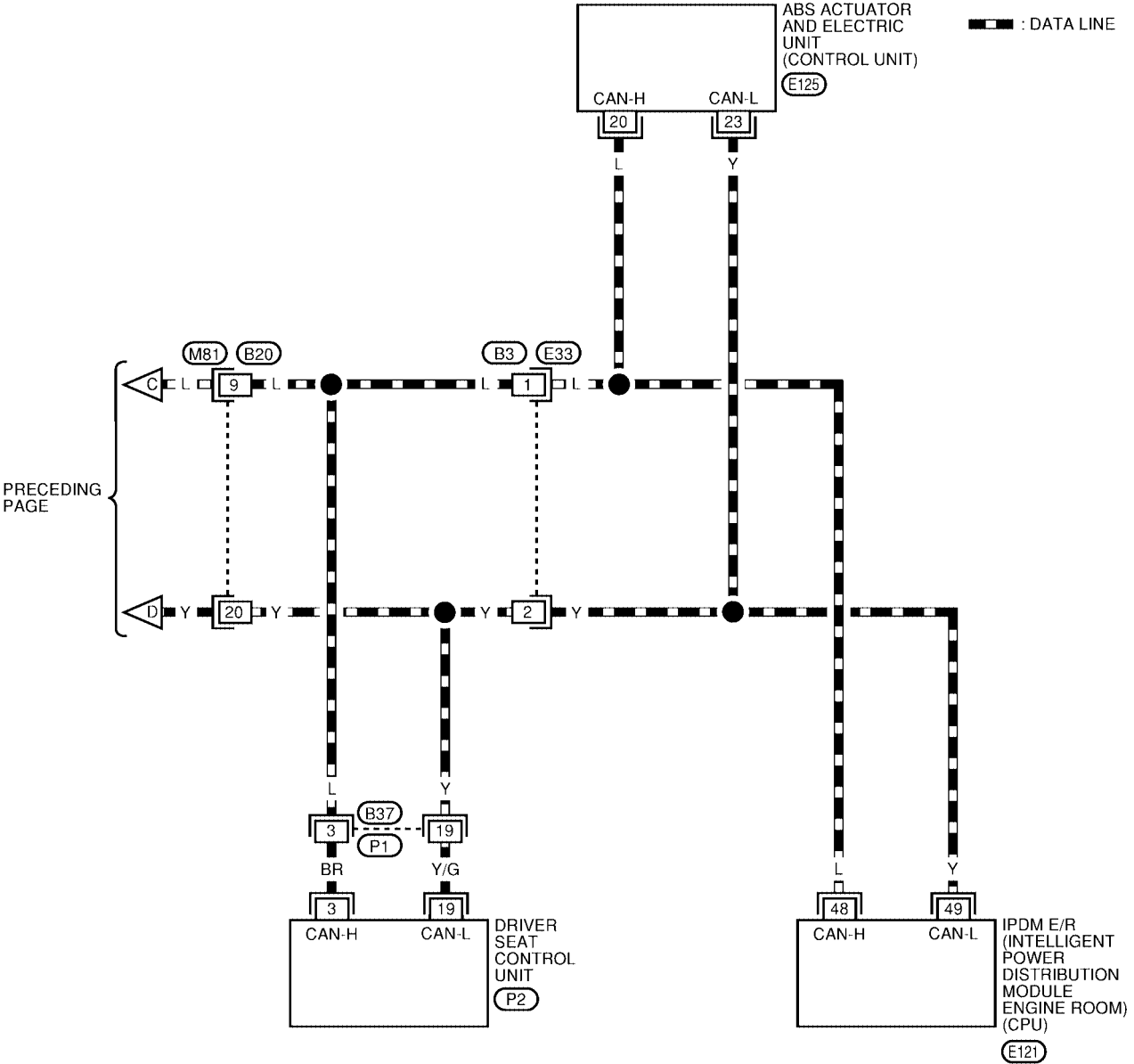
1	2	3	4	5	6			7	8	9	10	11	F59 W
12	13	14	15	16	17	18	19	20	21	22	23	24	

REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS



REFER TO THE FOLLOWING.
M18 - ELECTRICAL UNITS

LAN-CAN-33

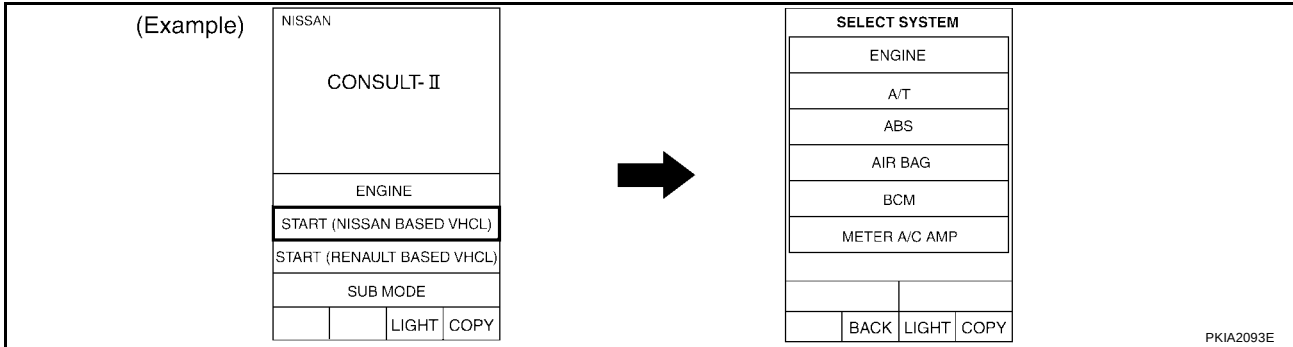


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

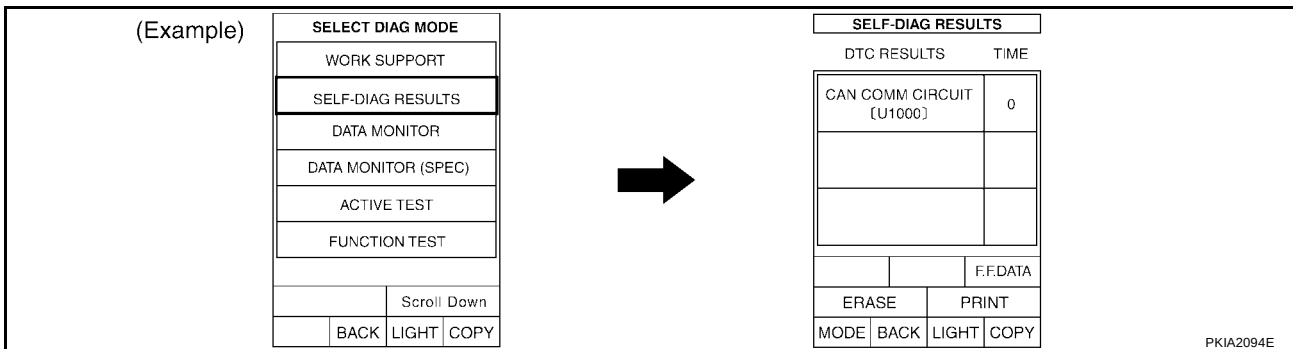
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

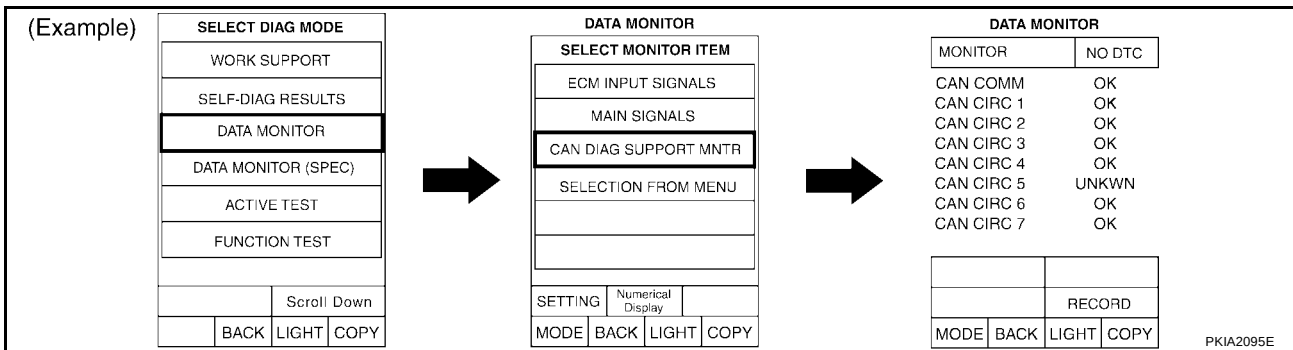
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0447E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Check CAN communication line of the navigation system.
- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS**Case 1**

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0896E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0897E

CAN SYSTEM (TYPE 11)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0898E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0899E

Case 3

Replace display control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0900E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0901E

CAN SYSTEM (TYPE 11)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0902E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0903E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0904E

CAN SYSTEM (TYPE 11)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0905E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0906E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0907E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0908E

CAN SYSTEM (TYPE 11)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0909E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-245](#)

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0910E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-245](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0911E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-246](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0912E

CAN SYSTEM (TYPE 11)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-246](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0913E

Case 13

Check TCM circuit. Refer to [LAN-247](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0914E

Case 14

Check display control unit circuit. Refer to [LAN-247](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0915E

Case 15

Check data link connector circuit. Refer to [LAN-248](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0916E

Case 16Check BCM circuit. Refer to [LAN-248](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	CAN CIRC 2	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0917E

Case 17Check unified meter and A/C amp. circuit. Refer to [LAN-249](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	CAN CIRC 2	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0918E

Case 18Check driver seat control unit circuit. Refer to [LAN-249](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0919E

Case 19Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-250](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0920E

CAN SYSTEM (TYPE 11)

[CAN]

Case 20

Check IPDM E/R circuit. Refer to [LAN-250](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0921E

Case 21

Check CAN communication circuit. Refer to [LAN-251](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0922E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-252](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0923E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0924E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

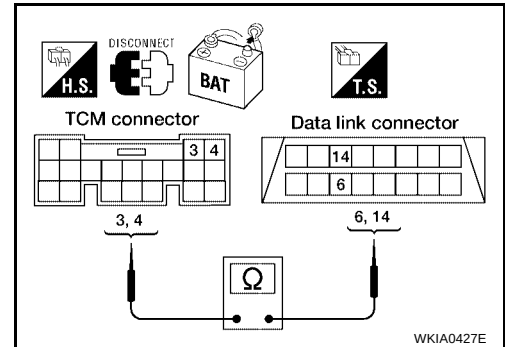
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-236, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

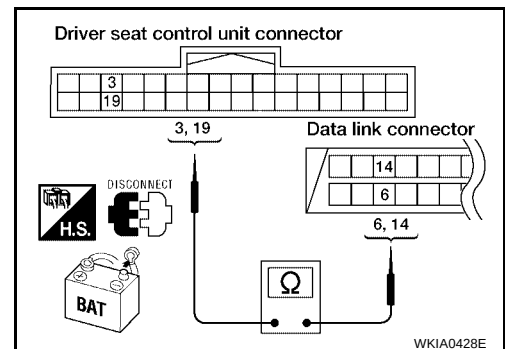
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-236](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

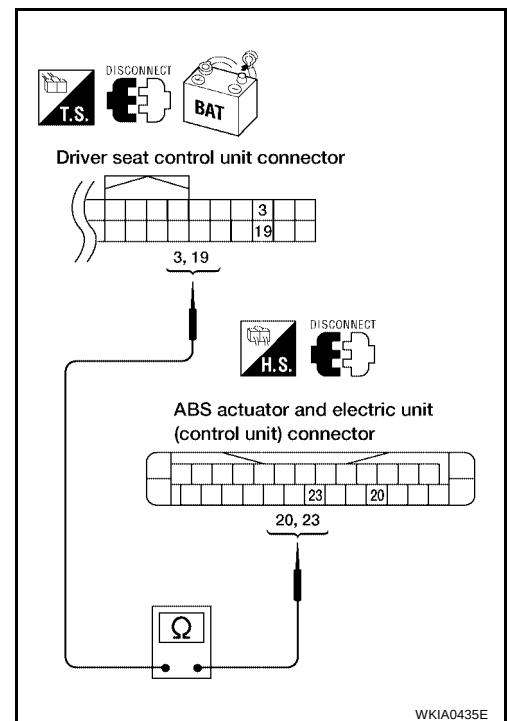
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-236](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

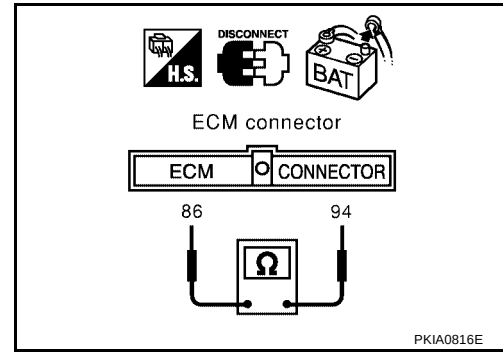
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS005JS

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

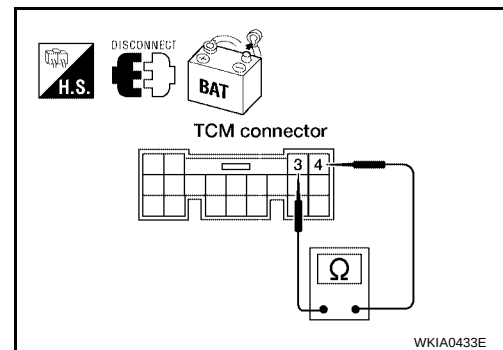
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS005JT

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

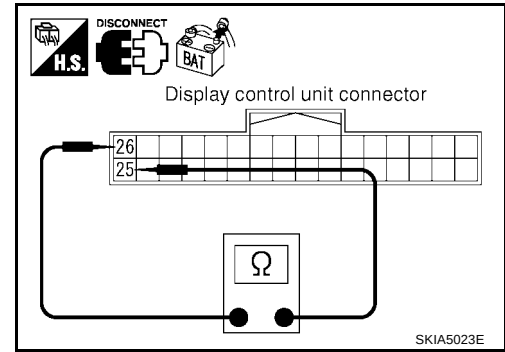
Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS005JU

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

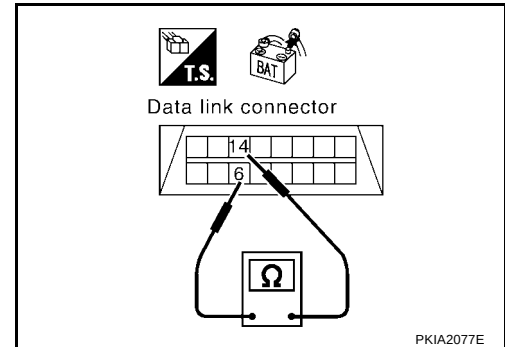
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-236](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS005JV

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

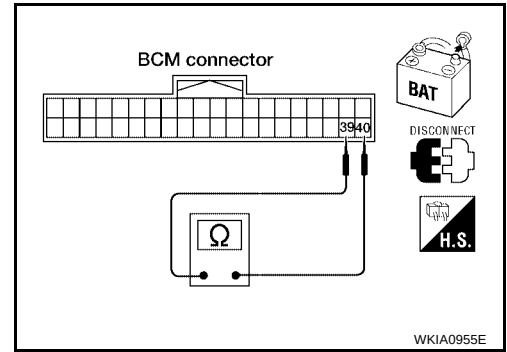
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS005JW

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

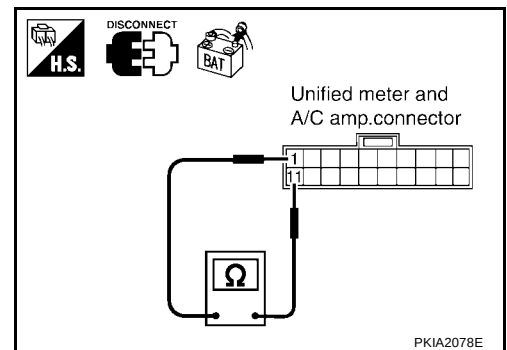
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS005JX

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

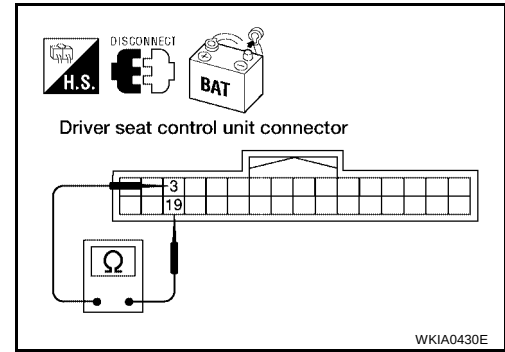
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS005JY

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

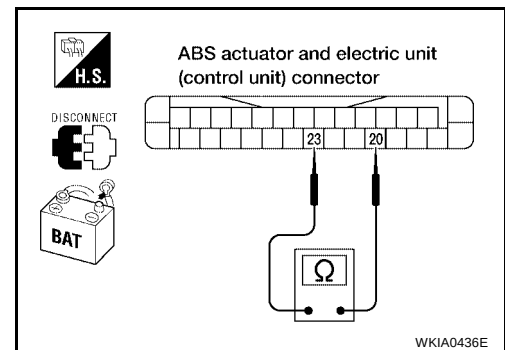
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS005JZ

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

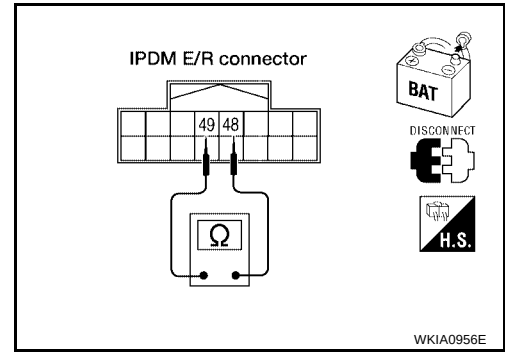
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS005K0

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

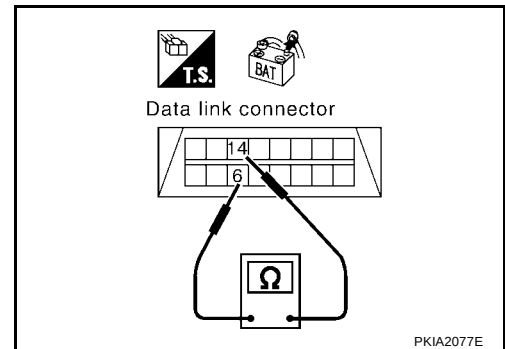
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

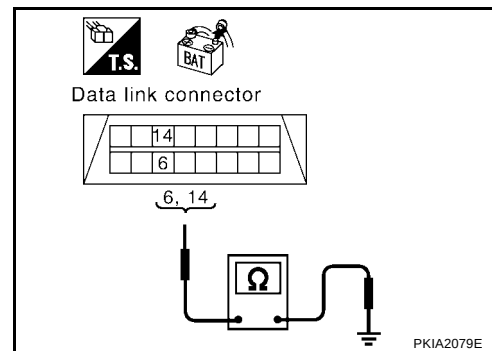
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-252, "Component Inspection"](#).

NG >> Repair the harness.



EKS005K1

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

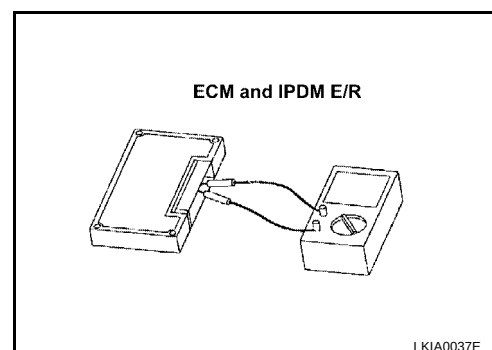
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS005K2



CAN SYSTEM (TYPE 12)

PFP:23710

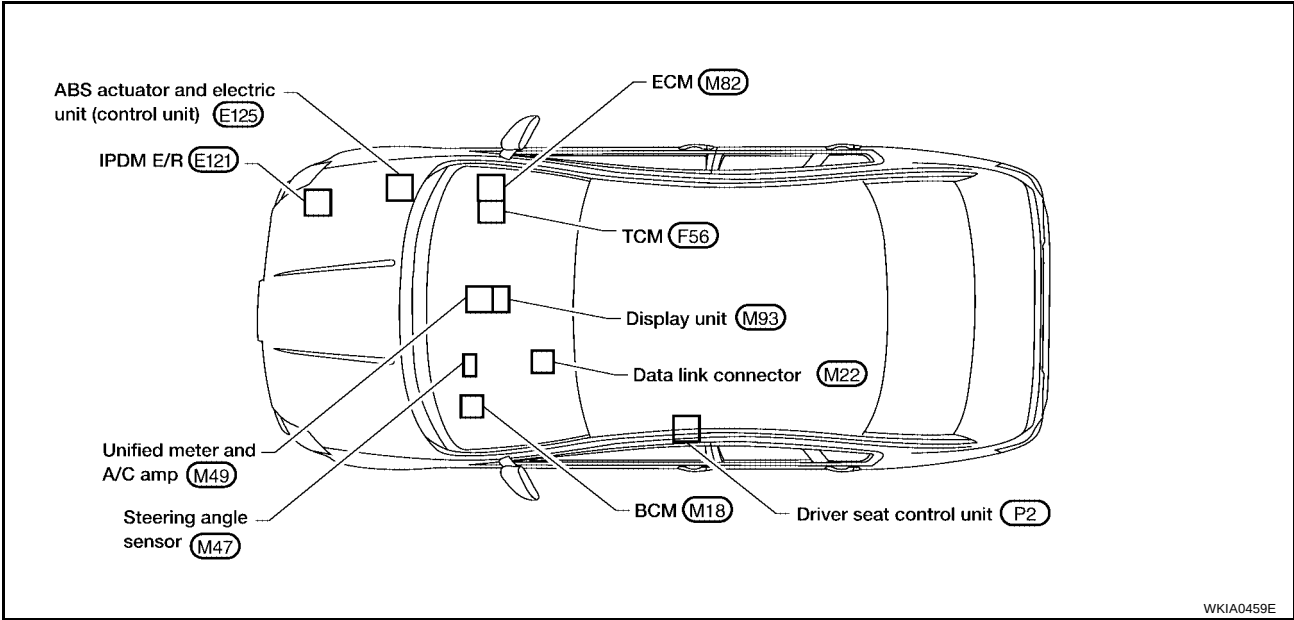
System Description

EKS005HB

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

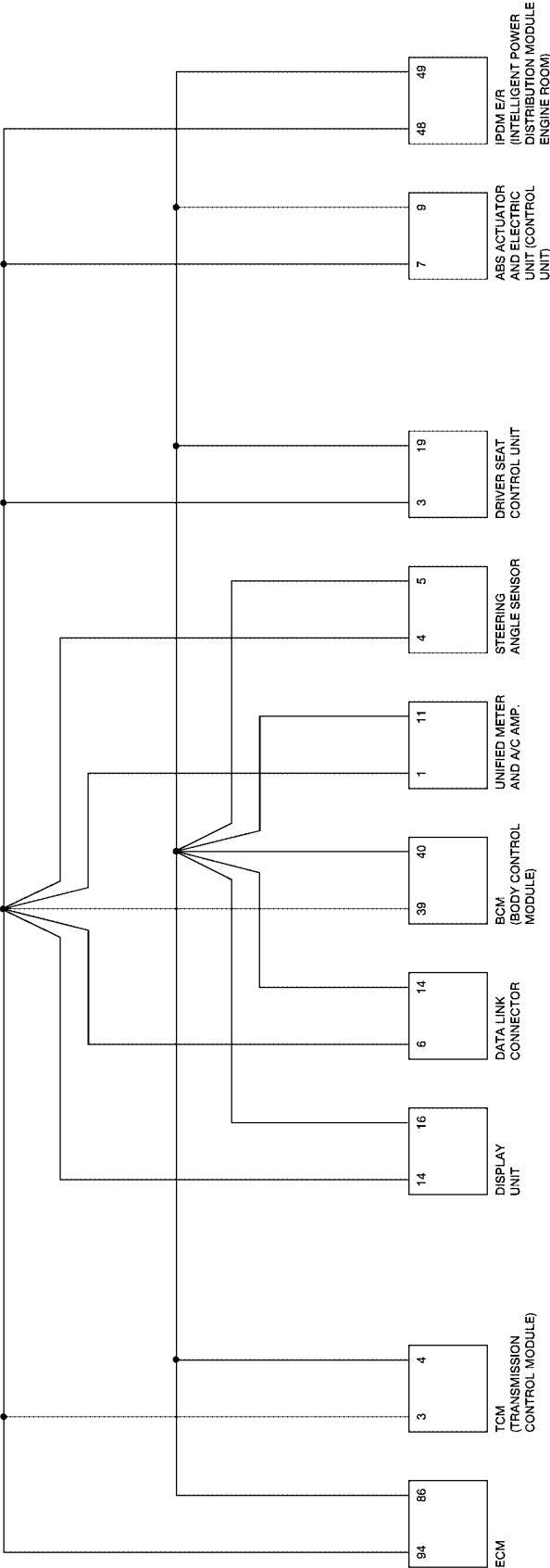
EKS005HC



A
B
C
D
E
F
G
H
I
J
LAN
L
M

Schematic

EKS005HD

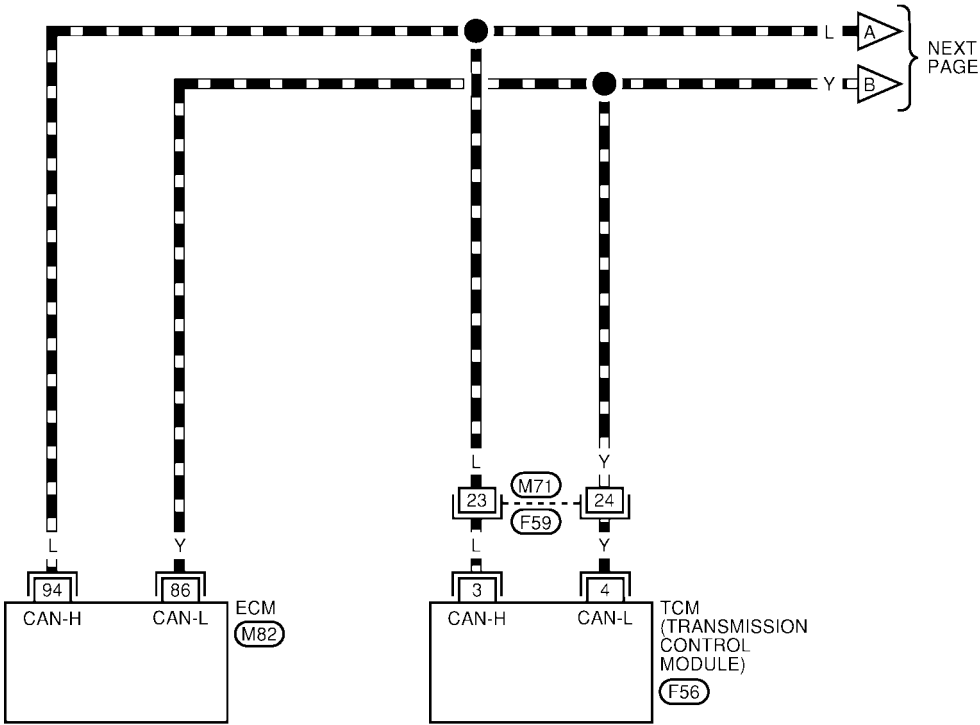


Wiring Diagram - CAN -

EKS005HE

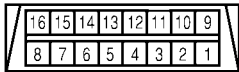
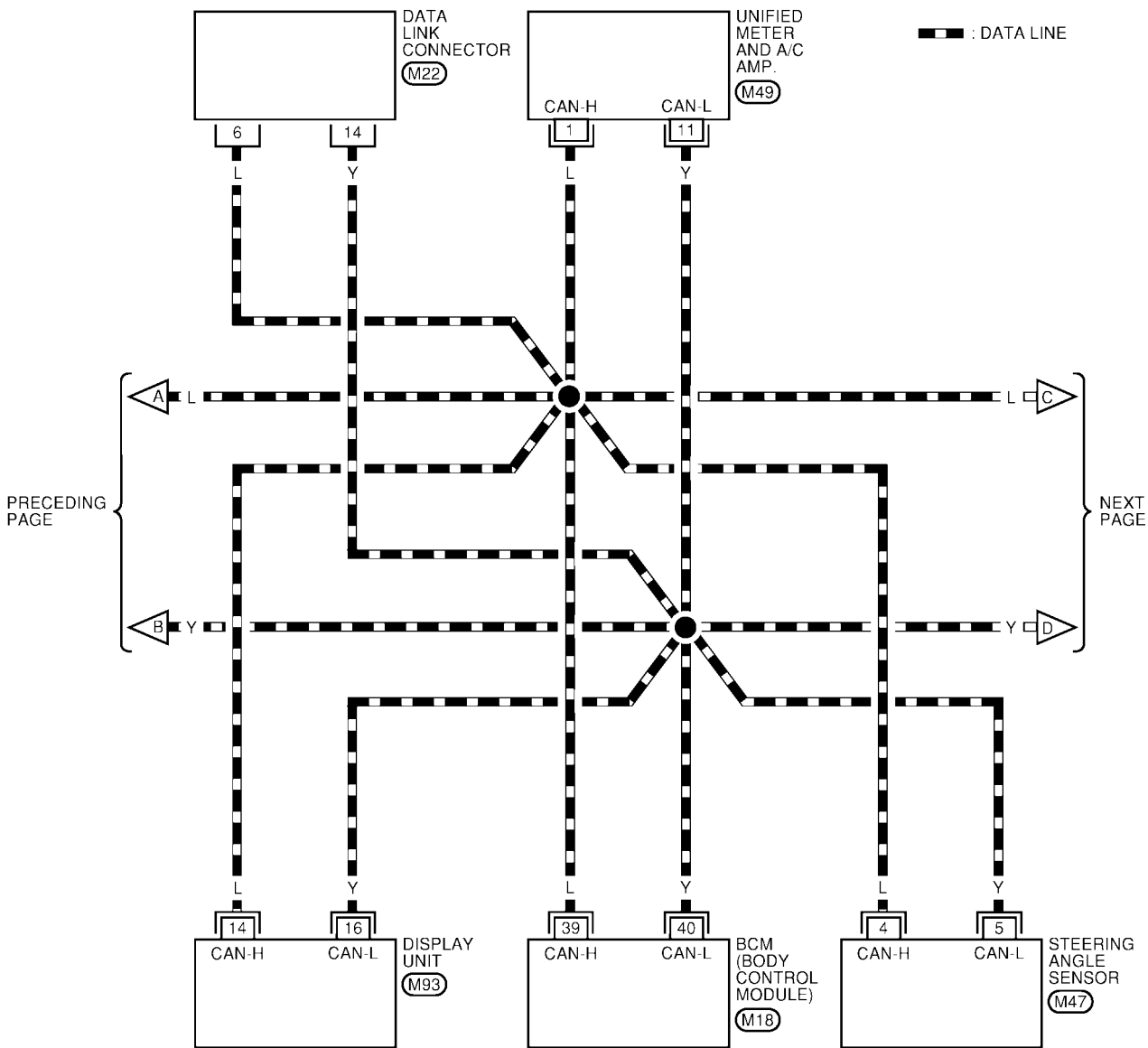
LAN-CAN-34

DATA LINE

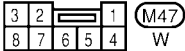


1	2	3	4	5	6			7	8	9	10	11	F59 W
12	13	14	15	16	17	18	19	20	21	22	23	24	

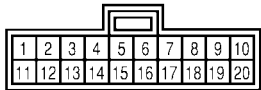
REFER TO THE FOLLOWING.
M82 , F56 - ELECTRICAL
UNITS



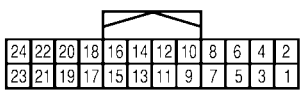
M22
W



M47
W

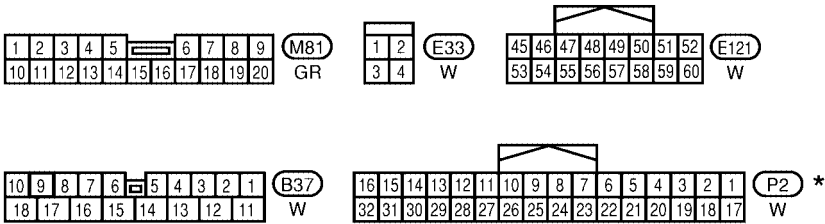
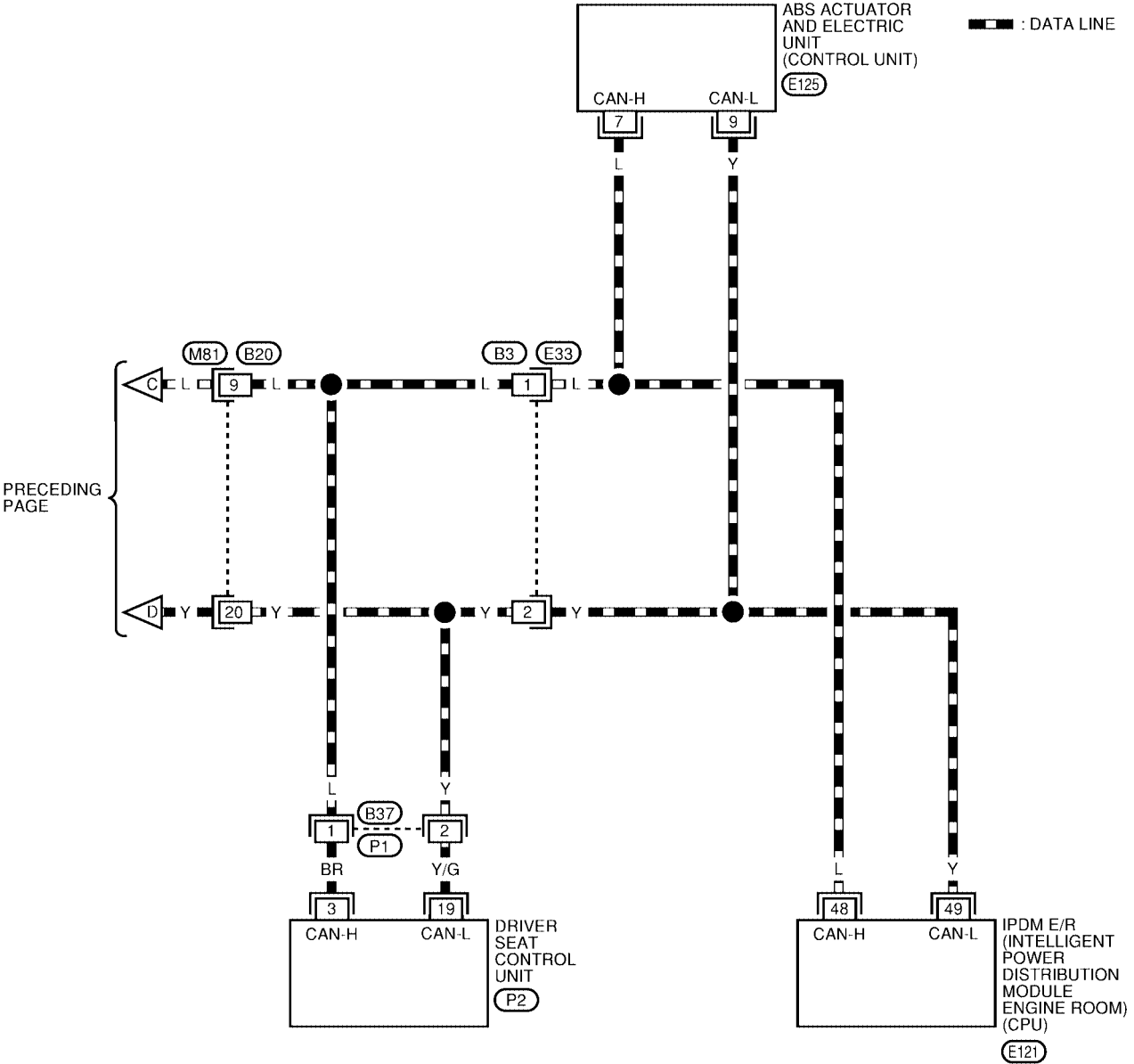


M49
GR



M93
W

REFER TO THE FOLLOWING.
M18 - ELECTRICAL UNITS



REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".

(Example)

NISSAN				SELECT SYSTEM	
CONSULT-II				ENGINE	
ENGINE				A/T	
START (NISSAN BASED VHCL)				ABS	
START (RENAULT BASED VHCL)				AIR BAG	
SUB MODE				BCM	
		LIGHT	COPY		
				BACK	LIGHT COPY

PKIA2093E

- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE		SELF-DIAG RESULTS	
WORK SUPPORT		DTC RESULTS	
SELF-DIAG RESULTS		TIME	
DATA MONITOR		CAN COMM CIRCUIT [U1000]	
DATA MONITOR (SPEC)		0	
ACTIVE TEST			
FUNCTION TEST			
Scroll Down		F.F.DATA	
BACK		ERASE	
LIGHT		PRINT	
COPY		MODE	
		BACK	
		LIGHT	
		COPY	

PKIA2094E

- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE		DATA MONITOR		DATA MONITOR	
WORK SUPPORT		SELECT MONITOR ITEM		MONITOR	
SELF-DIAG RESULTS		ECM INPUT SIGNALS		NO DTC	
DATA MONITOR		MAIN SIGNALS		CAN COMM	
DATA MONITOR (SPEC)		CAN DIAG SUPPORT MNTR		CAN CIRC 1	
ACTIVE TEST		SELECTION FROM MENU		CAN CIRC 2	
FUNCTION TEST				CAN CIRC 3	
Scroll Down				CAN CIRC 4	
BACK		SETTING		CAN CIRC 5	
LIGHT		Numerical Display		CAN CIRC 6	
COPY		MODE		CAN CIRC 7	
		BACK		UNKWN	
		LIGHT		OK	
		COPY		OK	
				RECORD	
				MODE	
				BACK	
				LIGHT	
				COPY	

PKIA2095E

- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator (and electric unit control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0448E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 12)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	~~CAN COMM~~	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0925E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 2~~	-	~~CAN CIRC 4~~	-	~~CAN CIRC 6~~	-	~~CAN CIRC 3~~	~~CAN CIRC 7~~
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0926E

CAN SYSTEM (TYPE 12)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 2~~	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 3~~	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CIRC 1	-	~~CAN CIRC 4~~	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 3~~	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0927E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1		-	-		-	-	-		-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0928E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0929E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0930E

CAN SYSTEM (TYPE 12)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE PGS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0931E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0932E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0933E

CAN SYSTEM (TYPE 12)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	~~CAN COMM~~	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0934E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 4~~	-	~~CAN CIRC 3~~	-	~~CAN CIRC 2~~	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0935E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	~~CAN CIRC 3~~	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	~~CAN CIRC 3~~	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	~~CAN CIRC 5~~	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	~~CAN COMM~~	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0936E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	~~CAN CIRC 3~~	-	-	~~CAN CIRC 5~~	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0937E

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE PGS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0938E

Case 9Check harness between TCM and data link connector. Refer to [LAN-268](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0939E

Case 10Check harness between data link connector and driver seat control unit. Refer to [LAN-268](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	~~CAN CIRC 3~~	~~CAN CIRC 7~~
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	~~CAN CIRC 3~~	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	~~CIRC 7~~
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	~~CAN CIRC 5~~	~~CAN CIRC 6~~
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	~~CAN CIRC 3~~
AUTO DRIVE POS.	~~No Disp~~	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	~~CAN CIRC 2~~	~~CAN CIRC 3~~	-	-	~~CAN CIRC 5~~	-	-	-	-
IPDM E/R	~~No Disp~~	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0940E

Case 11Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-269](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	✓	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CIRC 3
AUTO DRIVE POS	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	✓ CIRC 2	✓ CIRC 3	-	-	✓ CIRC 5	-	-	-	-
IPDM E/R	No Disp ✓	-	CIRC 1	CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0941E

CAN SYSTEM (TYPE 12)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-269](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0942E

Case 13

Check TCM circuit. Refer to [LAN-270](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0943E

Case 14

Check display unit circuit. Refer to [LAN-270](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0944E

Case 15

Check data link connector circuit. Refer to [LAN-271](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0945E

CAN SYSTEM (TYPE 12)

[CAN]

Case 16

Check BCM circuit. Refer to [LAN-271](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0946E

WKIA0946E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-272](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CIRC 3	-	-	CAN CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	-	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0947E

WKIA0947E

Case 18

Check steering angle sensor circuit. Refer to [LAN-272](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	 CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0948E

WKIA0948E

Case 19

Check driver seat control unit circuit. Refer to [LAN-273](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0949F

WKIA0949E

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-273](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0950E

Case 21

Check IPDM E/R circuit. Refer to [LAN-274](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0951E

Case 22

Check CAN communication circuit. Refer to [LAN-275](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0952E

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-275](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	 CAN CIRC 2	-	-	 CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE PGS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	 CAN CIRC 2	CAN CIRC 3	-	-	 CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0953E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 2~~	-	CAN CIRC 4	-	CAN CIRC 6	-	~~CAN CIRC 3~~	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	-	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	~~CAN CIRC 3~~	CAN CIRC 7	-	-	CAN CIRC 4	-	~~CAN CIRC 5~~	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	~~CAN CIRC 4~~	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0954E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

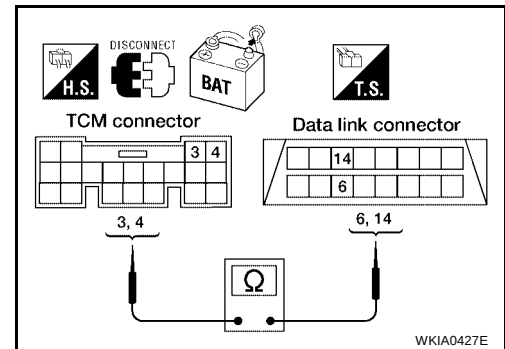
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-258, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

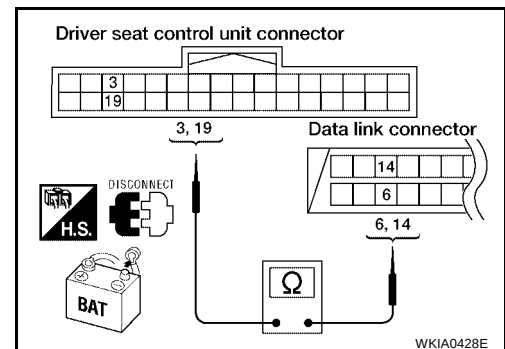
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-258](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

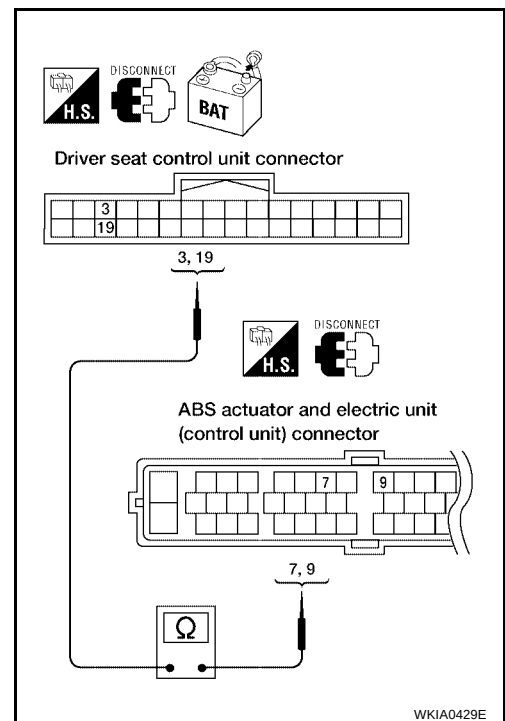
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

- 3 (BR) - 7 (L) : Continuity should exist.**
19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-258](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

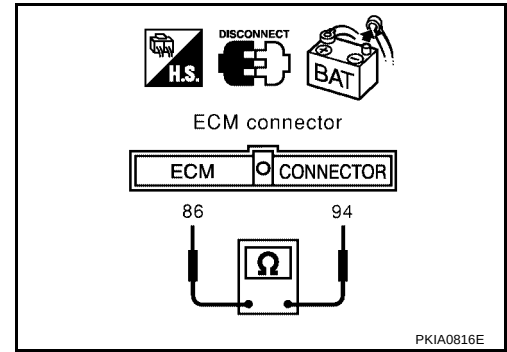
94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS005HK

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

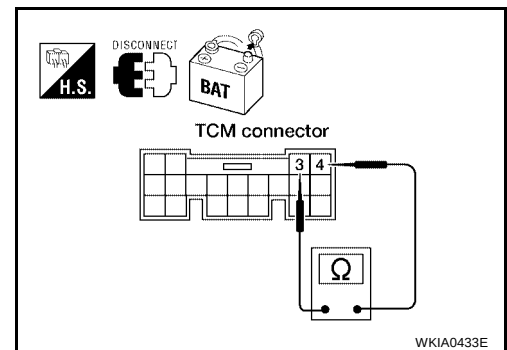
3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace TCM.

NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS005HL

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

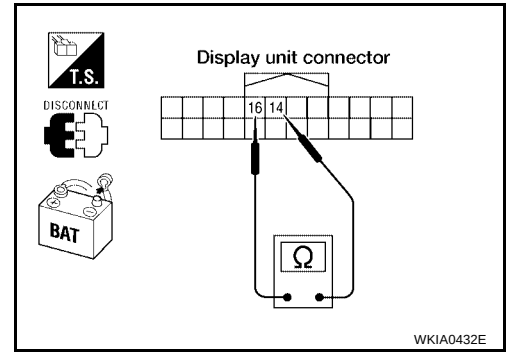
Check resistance between display control unit connector M93 terminal 14 (L) and terminal 16 (Y).

14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

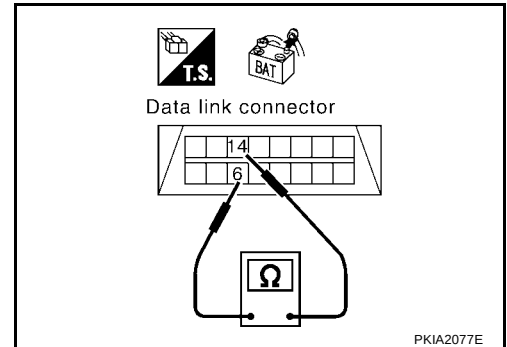
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-258](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

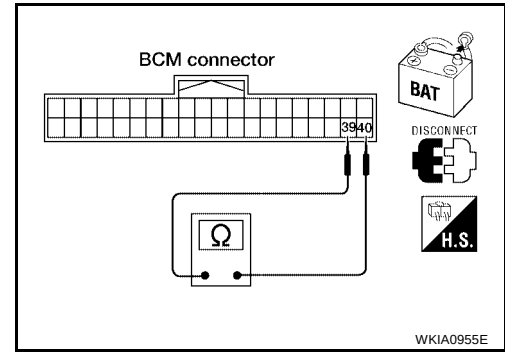
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS005HO

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

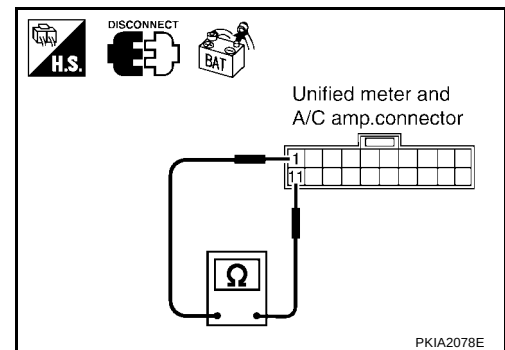
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS005HP

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

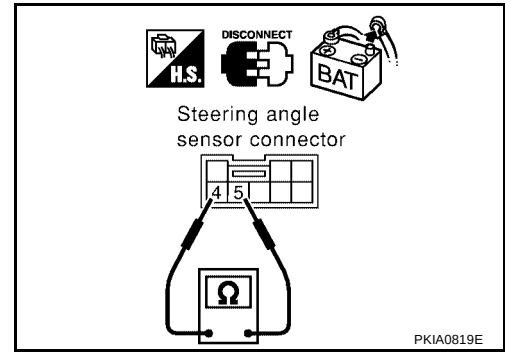
Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



EKS005HQ

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

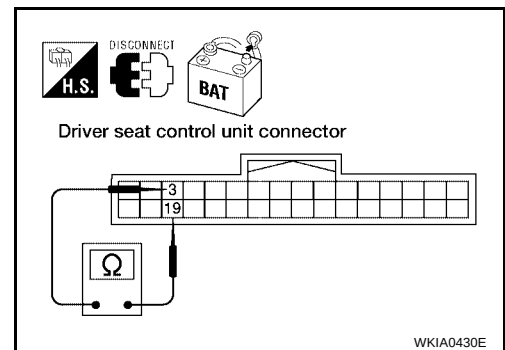
Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



EKS005HR

ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

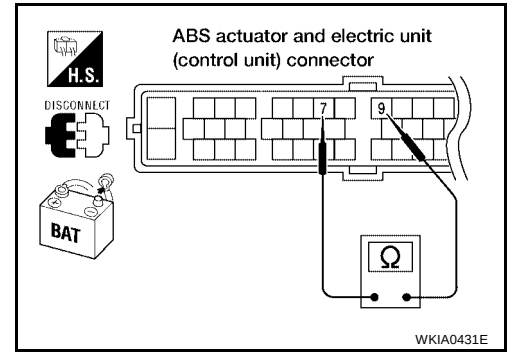
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS005HS

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

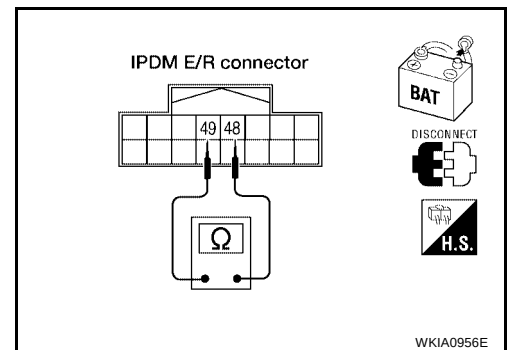
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

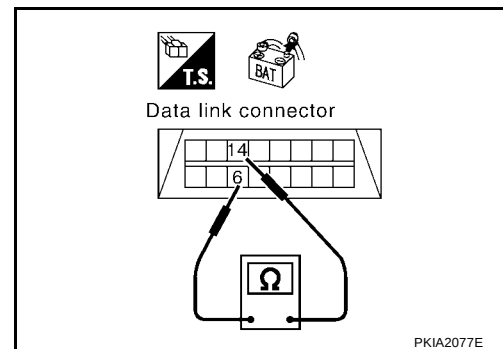
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

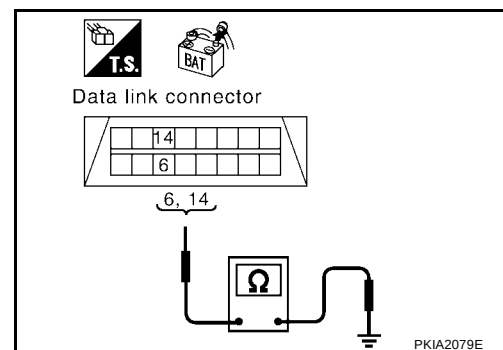
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-276, "Component Inspection"](#)

NG >> Repair the harness.



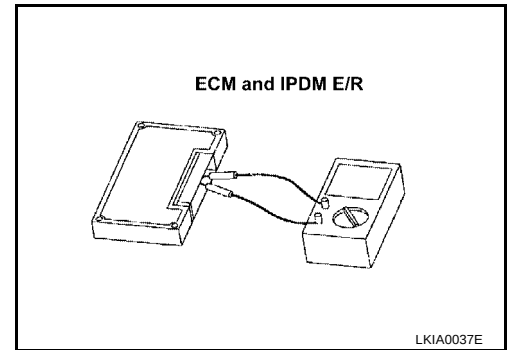
IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 13)

PFP:23710

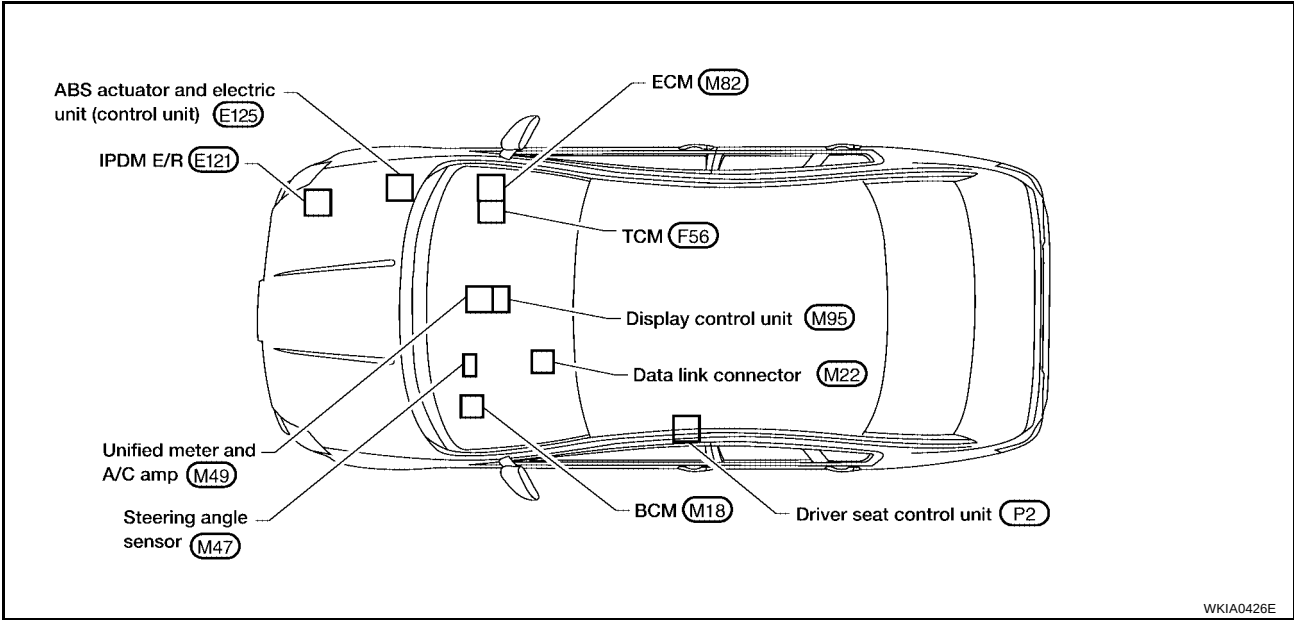
System Description

EKS005HW

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

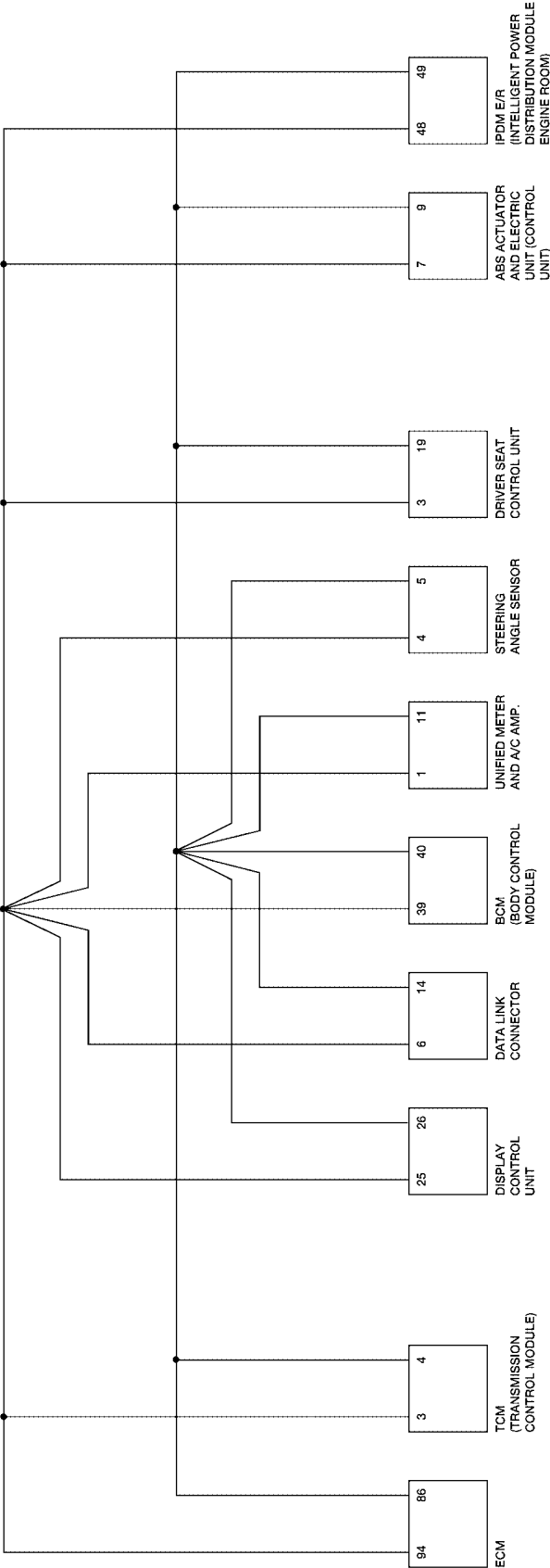
EKS005HX



A
B
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LAN
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M

Schematic

EKS005HY

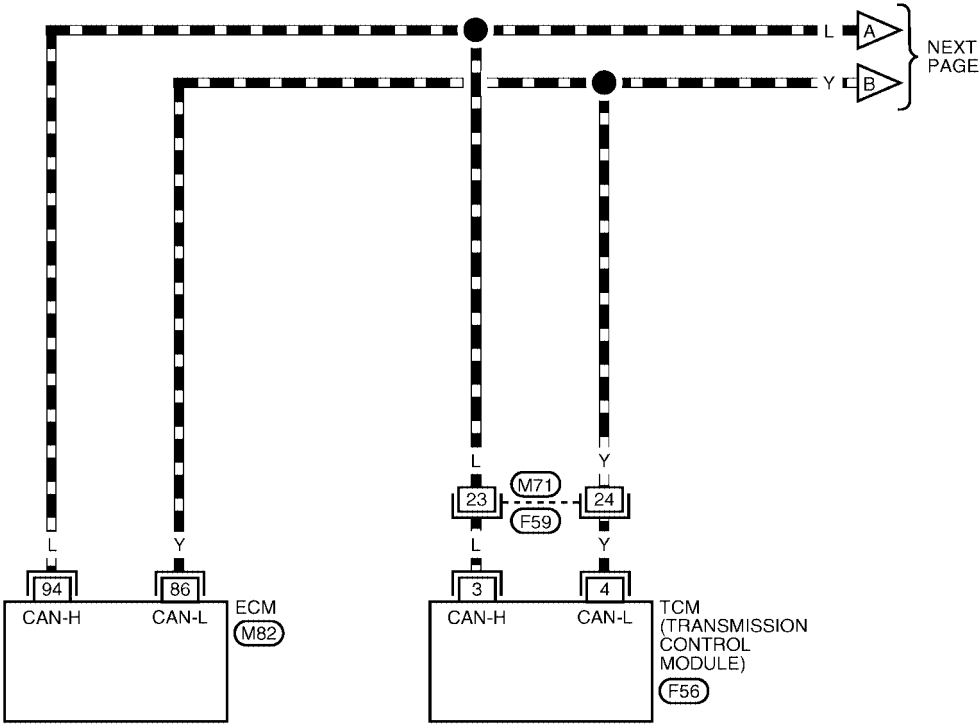


Wiring Diagram - CAN -

EKS005HZ

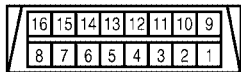
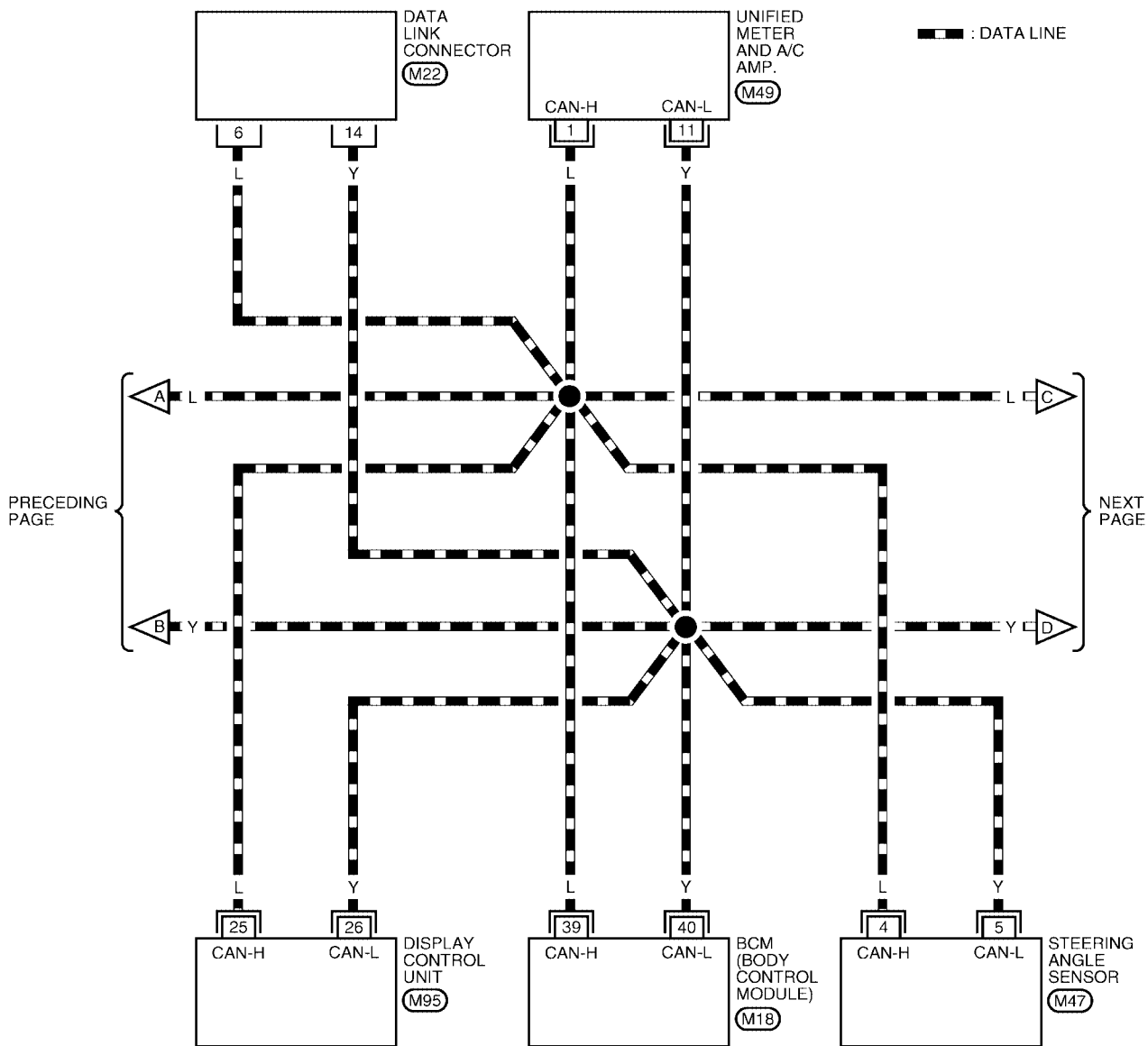
LAN-CAN-37

DATA LINE

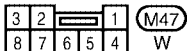


1	2	3	4	5	6			7	8	9	10	11	F59 W
12	13	14	15	16	17	18	19	20	21	22	23	24	

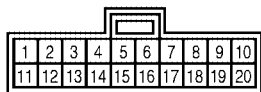
REFER TO THE FOLLOWING.
M82, F56 - ELECTRICAL
UNITS



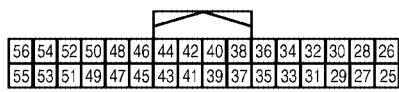
(M22)
W



(M47)
W

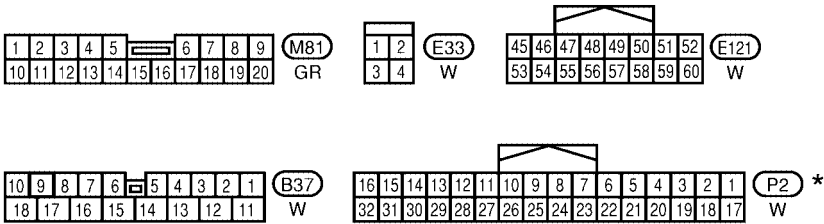
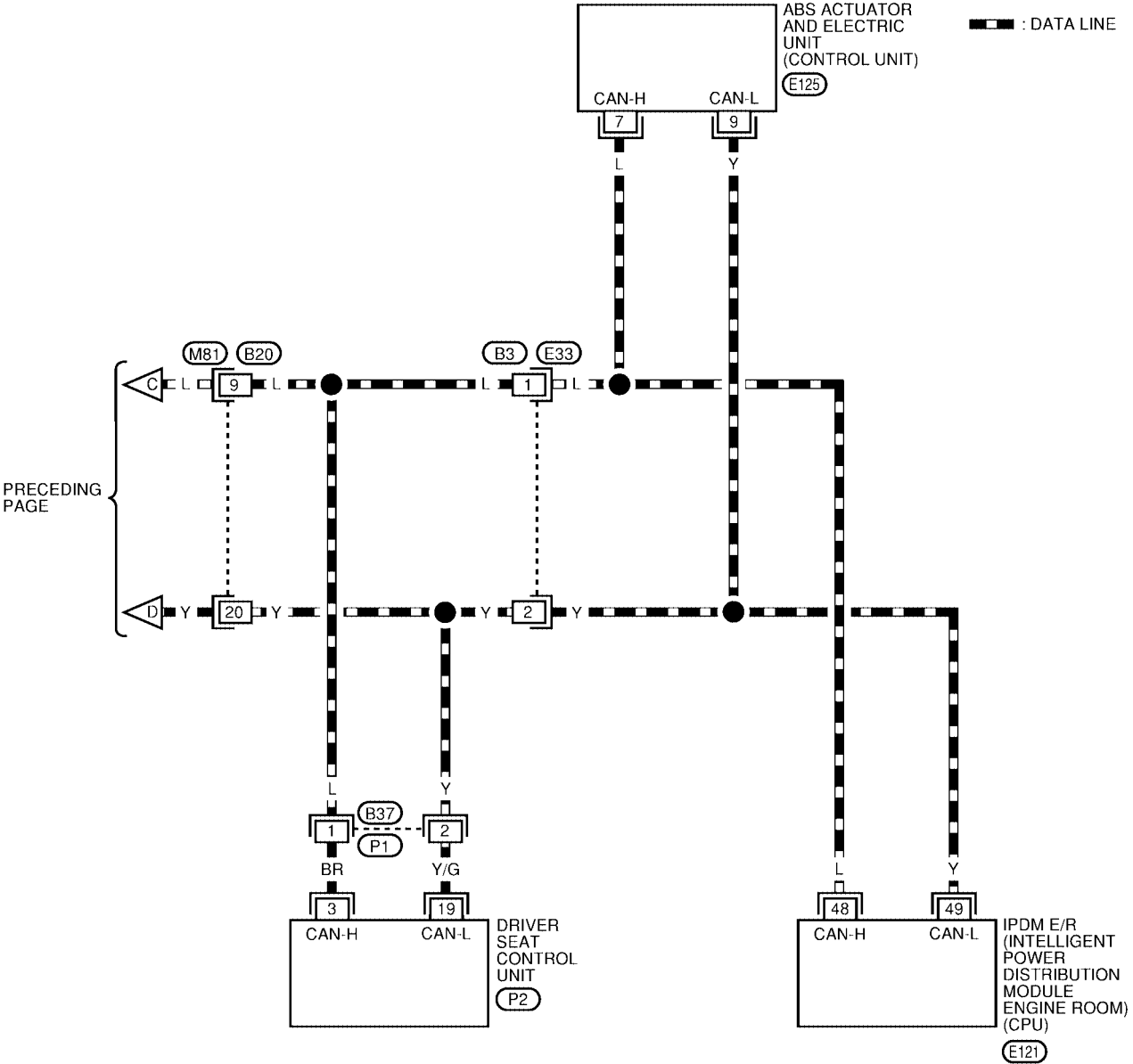


(M49)
GR



(M95)
W

REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

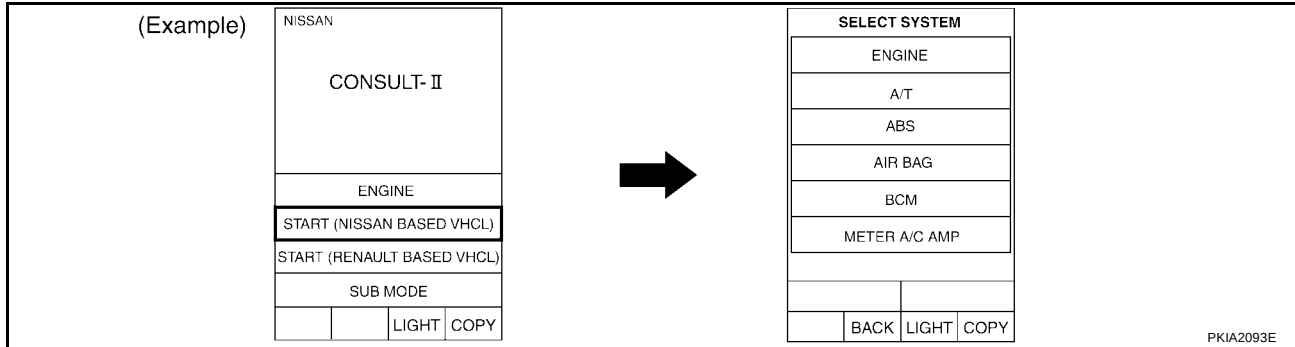


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

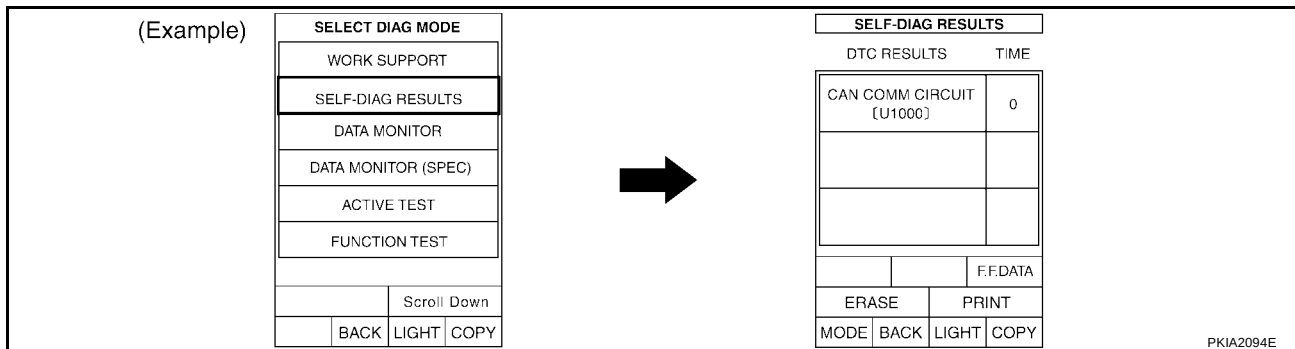
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

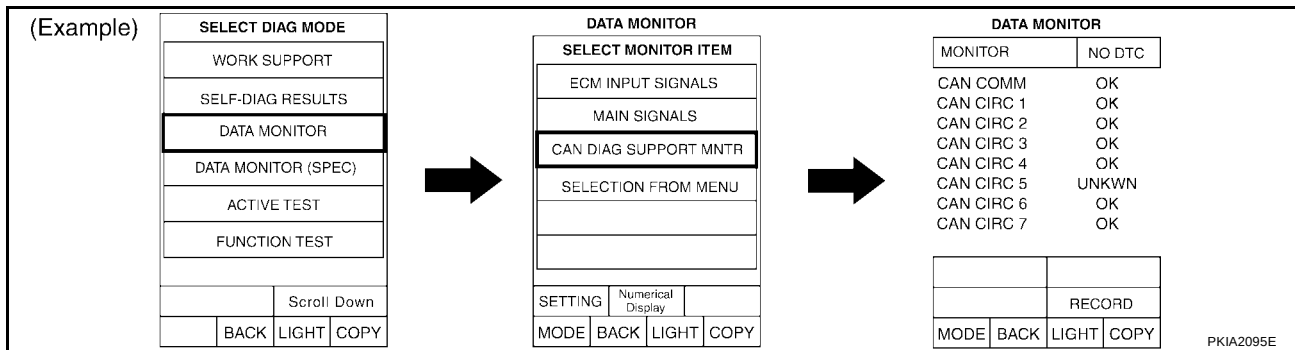
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CIRC 3	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0449E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Check CAN communication line of the navigation system.
- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS**Case 1**

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		☒ CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0518E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		CAN COMM	CAN CIRC 1	-	☒ CAN CIRC 2	-	☒ CAN CIRC 4	-	☒ CAN CIRC 6	-	☒ CAN CIRC 3	☒ CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0519E

CAN SYSTEM (TYPE 13)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0520E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0521E

Case 3

Replace display control unit.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0522E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0523E

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0524E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0525E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0526E

CAN SYSTEM (TYPE 13)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0527E

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0528E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0529E

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0530E

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0531E

WKIA0531E

Case 9Check harness between TCM and data link connector. Refer to [LAN-292](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0532E

WKIA0532E

Case 10Check harness between data link connector and driver seat control unit. Refer to [LAN-292](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0533E

WKIA0533E

Case 11Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-293](#).

	CONSULT Indication	CAN System	1x	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6			
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4			
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-			
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	
ABS		CAN COMM	CAN CIRC 1			-	-		-	-	-	
IPDM E/R		-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	

WKIA0534E

WKIA0534E

CAN SYSTEM (TYPE 13)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-293](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0535E

Case 13

Check TCM circuit. Refer to [LAN-294](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0536E

Case 14

Check display control unit circuit. Refer to [LAN-294](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0537E

Case 15

Check data link connector circuit. Refer to [LAN-295](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1		CAN CIRC 2		CAN CIRC 4		CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7			CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4					CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3		CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3			CAN CIRC 5				
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3					CAN CIRC 2			

WKIA0538E

CAN SYSTEM (TYPE 13)

[CAN]

Case 16

Check BCM circuit. Refer to [LAN-295](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C-amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 5		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 2		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	-		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM C/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0539E

WKIA0539E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-296](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM C/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0540E

WKIA0540E

Case 18

Check steering angle sensor circuit. Refer to [LAN-296](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0541E

WKIA0541E

Case 19

Check driver seat control unit circuit. Refer to [LAN-297](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM C/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2		-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2		-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-		-	-
IPDM C/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2		-	-

WKIA0542F

WKIA0542E

CAN SYSTEM (TYPE 13)

[CAN]

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-297](#).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0543E

Case 21

Check IPDM E/R circuit. Refer to [LAN-298](#).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0544E

Case 22

Check CAN communication circuit. Refer to [LAN-299](#).

	CONSULT Indication	CAN System	Tx	Rx								IPDM E/R
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2	-	-	-
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2	-	-	-

WKIA0545E

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-299](#).

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-			CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2			

WKIA0546E

	CONSULT Indication	CAN System	Tx	Rx								
				ECM	TCM	Display control unit	Unified meter and A/C amp.	Steering angle sensor	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE		CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	-	CAN CIRC 6		CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-		CAN CIRC 3	
DISPLAY CONTROL UNIT		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp		CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	-	CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-			CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	-	CAN CIRC 2			
ABS		CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	CAN CIRC 5	-			
IPDM E/R	No Disp		CAN CIRC 1	CAN CIRC 3	-	-	-	-	CAN CIRC 2			

WKIA0547E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

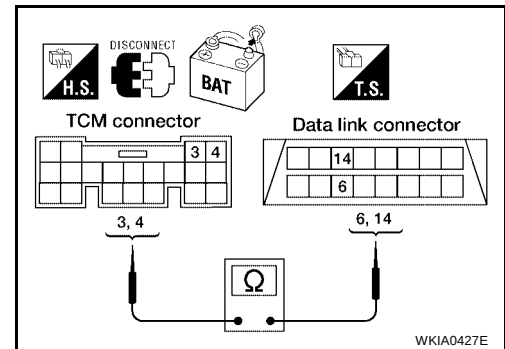
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-282, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

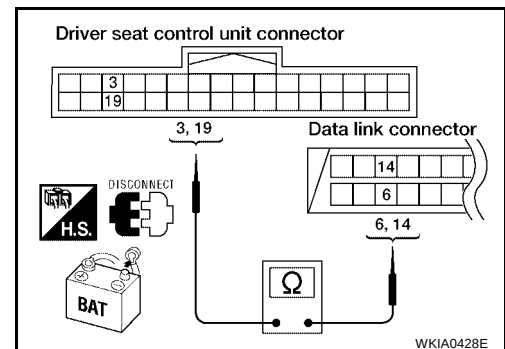
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-282](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

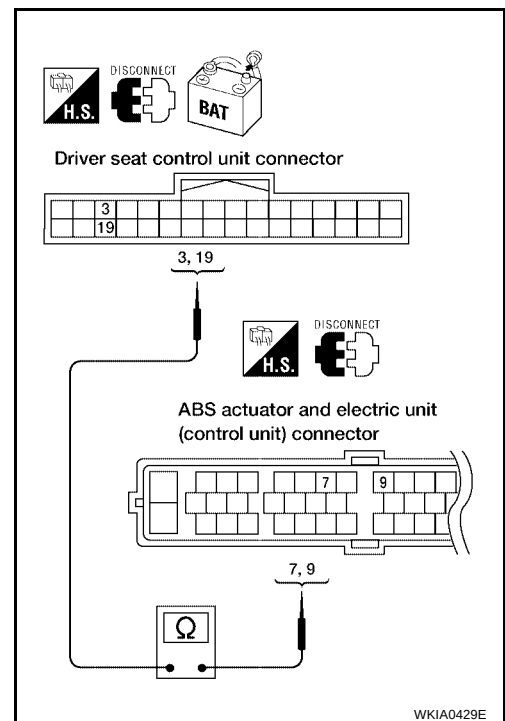
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

- 3 (BR) - 7 (L) : Continuity should exist.**
19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-282](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

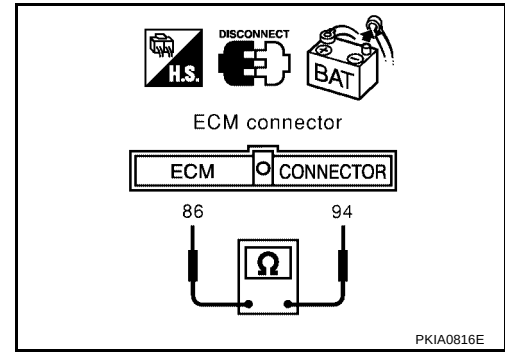
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00515

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

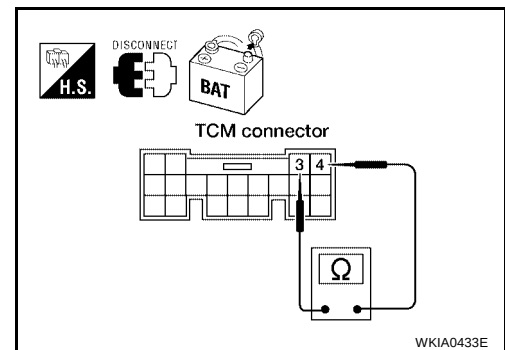
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00516

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

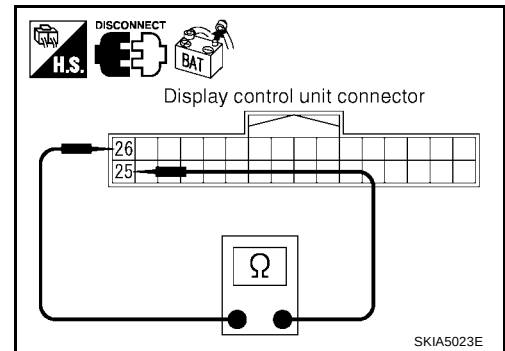
Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS00517

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

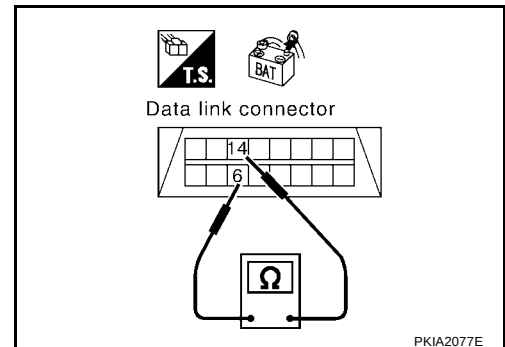
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-282](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS00518

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

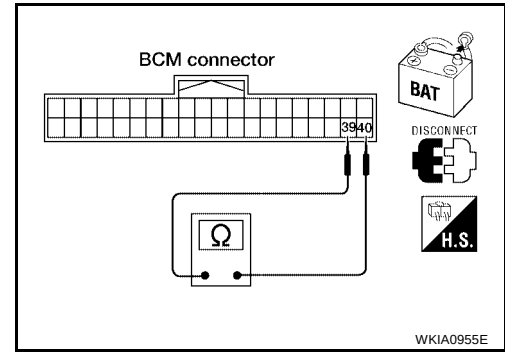
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00519

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

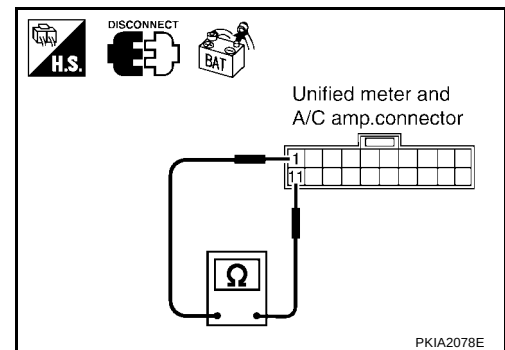
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS0051A

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

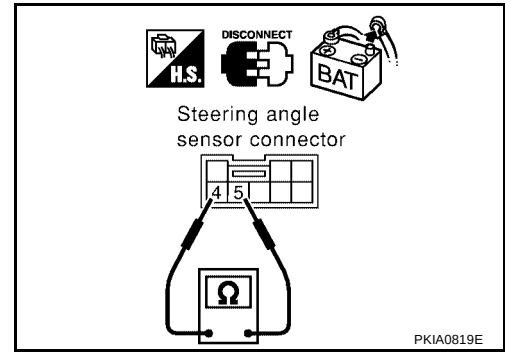
Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



EKS0051B

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

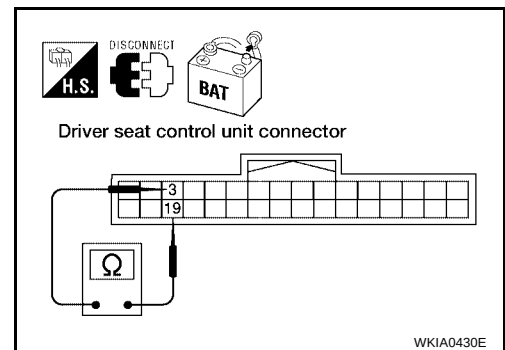
Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



EKS0051C

ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

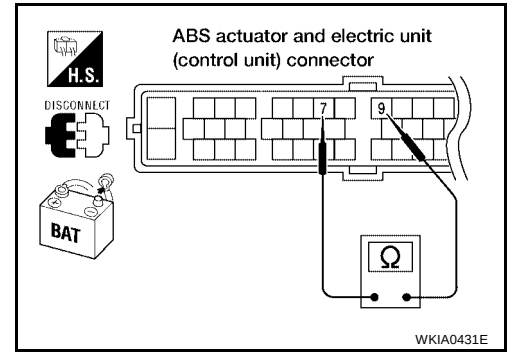
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS0051D

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

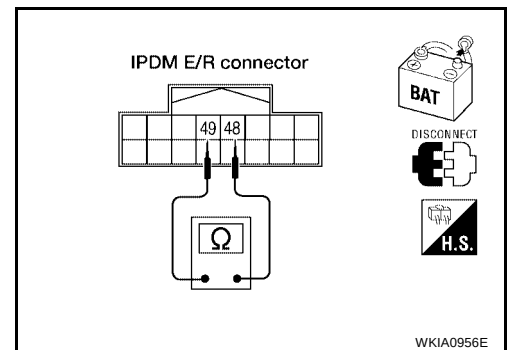
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

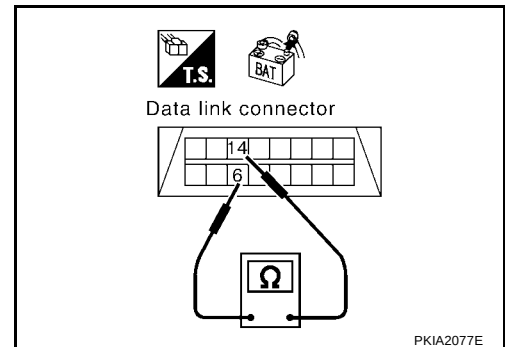
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair the harness.

**3. CHECK HARNESS FOR SHORT TO GROUND**

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

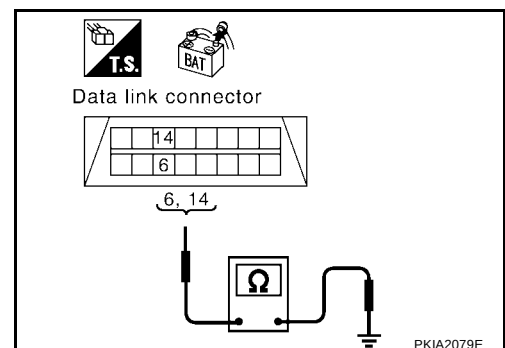
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-300, "Component Inspection"](#).

NG >> Repair the harness.

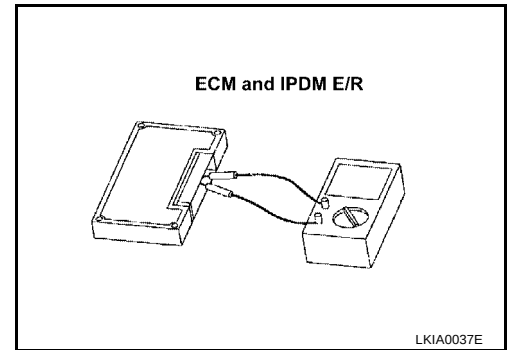
**IPDM E/R Ignition Relay Circuit Check**

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 14)

PFP:23710

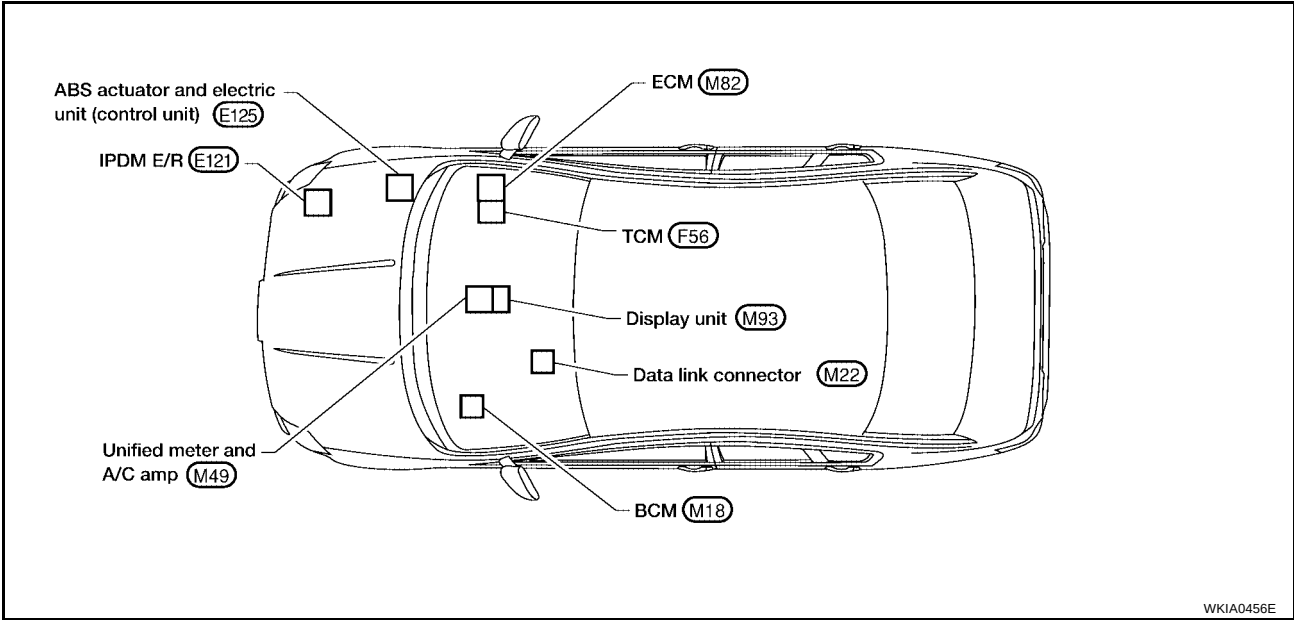
System Description

EKS005EV

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS005EW

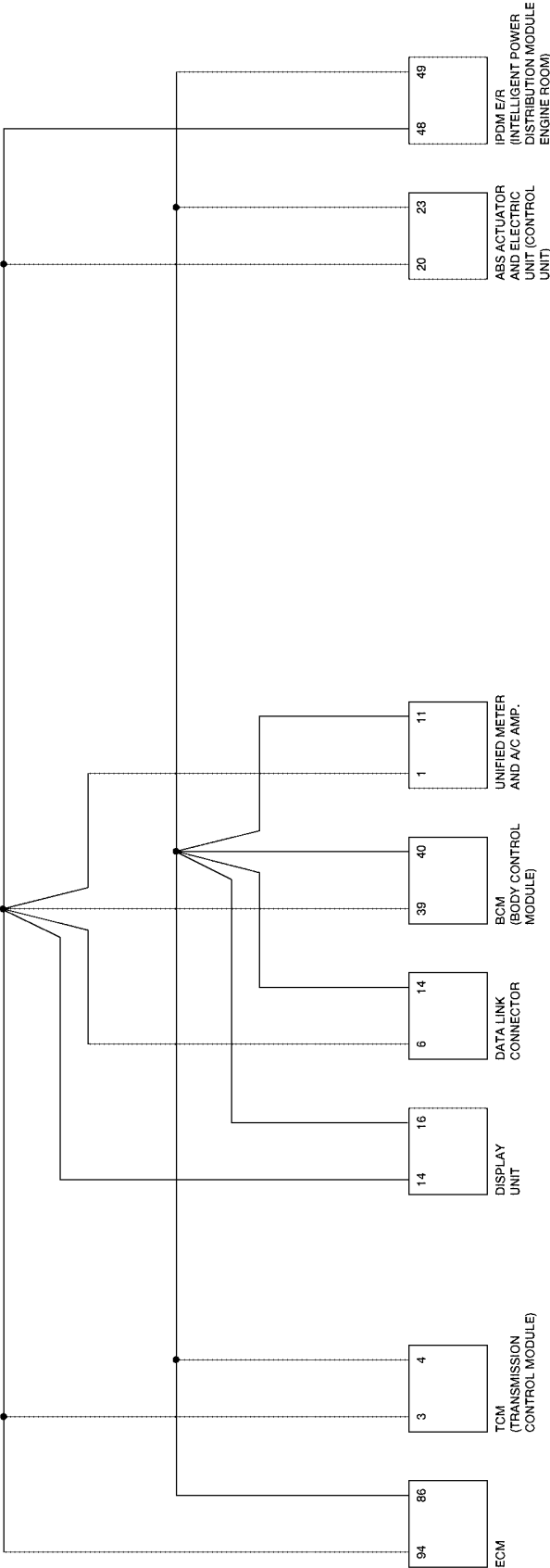


WKIA0456E

A
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Schematic

EKS005EX



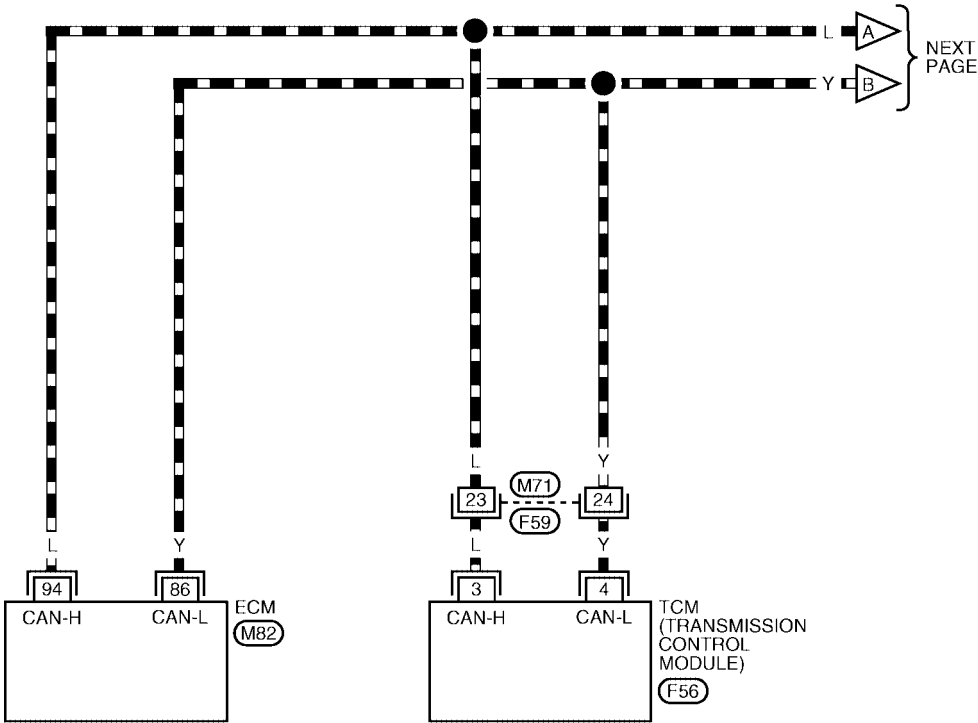
WKWA0468E

Wiring Diagram - CAN -

EKS005EY

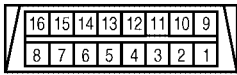
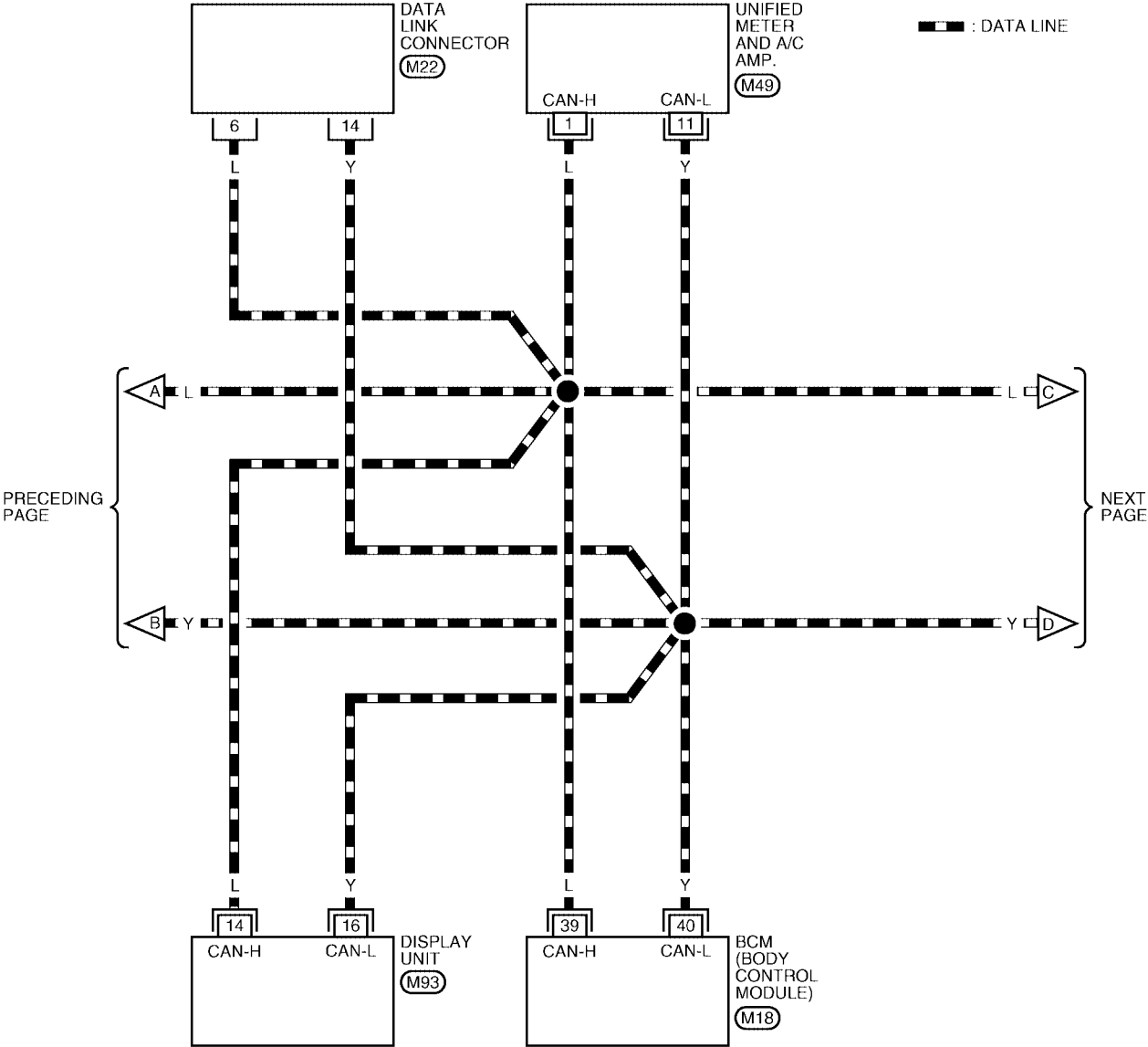
LAN-CAN-40

: DATA LINE

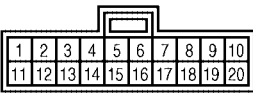


1	2	3	4	5	6		7	8	9	10	11	F59	
12	13	14	15	16	17	18	19	20	21	22	23	24	W

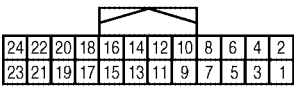
REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS



(M22)
W



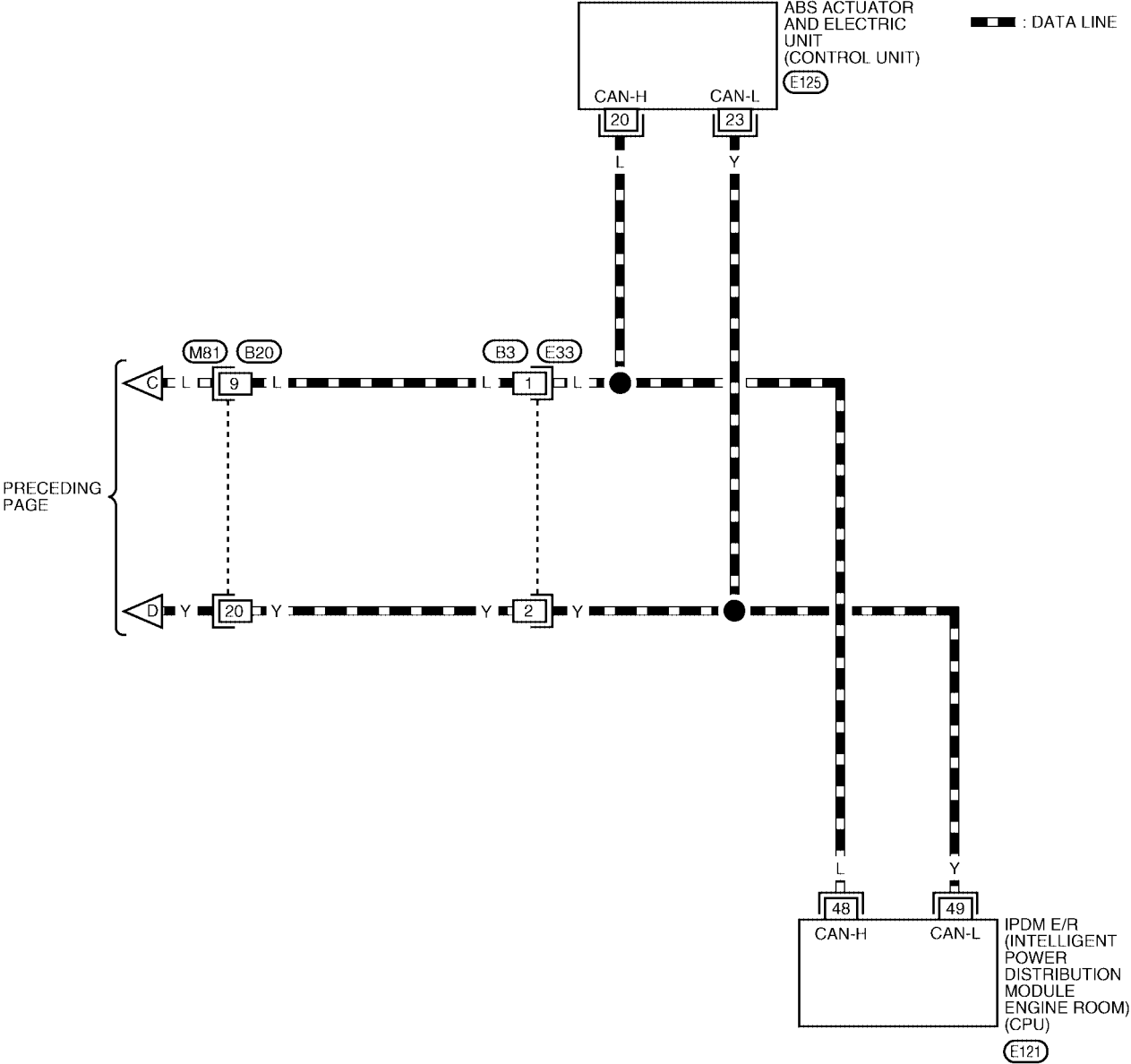
(M49)
GR



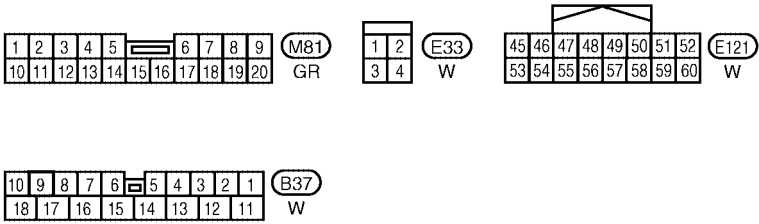
(M93)
W

REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

LAN-CAN-42



PRECEDING PAGE



REFER TO THE FOLLOWING.
(E125) - ELECTRICAL UNITS

Work Flow

1. When there are no indications of "TRANSMISSION", "BCM", "IPDM E/R" or "METER A/C AMP" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".

(Example)

NISSAN			
CONSULT-II			
ENGINE			
START (NISSAN BASED VHCL)			
START (RENAULT BASED VHCL)			
SUB MODE			
		LIGHT	COPY



SELECT SYSTEM			
ENGINE			
A/T			
ABS			
AIR BAG			
BCM			
METER A/C AMP			
		BACK	LIGHT COPY

PKIA2093E

2. Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE			
WORK SUPPORT			
SELF-DIAG RESULTS			
DATA MONITOR			
DATA MONITOR (SPEC)			
ACTIVE TEST			
FUNCTION TEST			
Scroll Down			
		BACK	LIGHT COPY



SELF-DIAG RESULTS			
DTC RESULTS		TIME	
CAN COMM CIRCUIT [U1000]		0	
		F.F.DATA	
ERASE		PRINT	
MODE	BACK	LIGHT	COPY

PKIA2094E

3. Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.

(Example)

SELECT DIAG MODE			
WORK SUPPORT			
SELF-DIAG RESULTS			
DATA MONITOR			
DATA MONITOR (SPEC)			
ACTIVE TEST			
FUNCTION TEST			
Scroll Down			
		BACK	LIGHT COPY



DATA MONITOR			
SELECT MONITOR ITEM			
ECM INPUT SIGNALS			
MAIN SIGNALS			
CAN DIAG SUPPORT MNTR			
SELECTION FROM MENU			
SETTING	Numerical Display		
MODE	BACK	LIGHT	COPY



DATA MONITOR	
MONITOR	NO DTC
CAN COMM	OK
CAN CIRC 1	OK
CAN CIRC 2	OK
CAN CIRC 3	OK
CAN CIRC 4	OK
CAN CIRC 5	UNKWN
CAN CIRC 6	OK
CAN CIRC 7	OK
RECORD	
MODE	BACK LIGHT COPY

PKIA2095E

4. Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	-	CAN CIRC 4	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	-	CAN CIRC 4	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0450E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 14)

[CAN]

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS

Case 1

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0548E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0549E

CAN SYSTEM (TYPE 14)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0550E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0551E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0552E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0553E

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	✓ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0554E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and electric unit and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	✓ CAN COMM	CAN CIRC 1	✓ CAN CIRC 2	-	-	✓ CAN CIRC 4	-	-	✓ CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0555E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	✓ CAN CIRC 2	✓ CAN CIRC 3	✓ CAN CIRC 7	-	✓ CAN CIRC 4	✓ CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0556E

CAN SYSTEM (TYPE 14)

[CAN]

Case 6

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0557E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0558E

Case 7

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0559E

Case 8

Check harness between TCM and data link connector. Refer to [LAN-314](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0560E

Case 9

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-314](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	✓ CIRC 3	✓ CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	✓ CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	✓ CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	✓ CIRC 5	✓ CIRC 6
BCM	No Disp	CAN COMM	CIRC 1	CIRC 2	-	-	CAN CIRC 4	-	-	✓ CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	✓ CIRC 2	✓ CIRC 3	-	-	-	-	-
IPDM E/R	✓ No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0561E

Case 10

Check ECM circuit. Refer to [LAN-315](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	✓ CIRC 1	-	✓ CIRC 2	-	✓ CIRC 4	✓ CIRC 6	✓ CIRC 3	✓ CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	✓ CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	✓ CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	✓ CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	✓ CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	✓ CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0562E

Case 11

Check TCM circuit. Refer to [LAN-316](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	✓ CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	✓ No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	✓ CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	✓ CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0563E

Case 12

Check display unit circuit. Refer to [LAN-316](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	✓ CIRC 1	✓ CIRC 3	-	-	✓ CIRC 5	✓ CIRC 2	-	✓ CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	✓ CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0564E

CAN SYSTEM (TYPE 14)

[CAN]

Case 13

Check data link connector circuit. Refer to [LAN-317](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0565E

Case 14

Check BCM circuit. Refer to [LAN-317](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0566E

Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-318](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0567E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-318](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0568E

CAN SYSTEM (TYPE 14)

[CAN]

Case 17

Check IPDM E/R circuit. Refer to [LAN-319](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0569E

Case 18

Check CAN communication circuit. Refer to [LAN-319](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0570E

Case 19

Check IPDM E/R Ignition relay circuit. Refer to [LAN-320](#).

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0571E

	CONSULT Indication	CAN System	Tx	Rx						
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-

WKIA0572E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

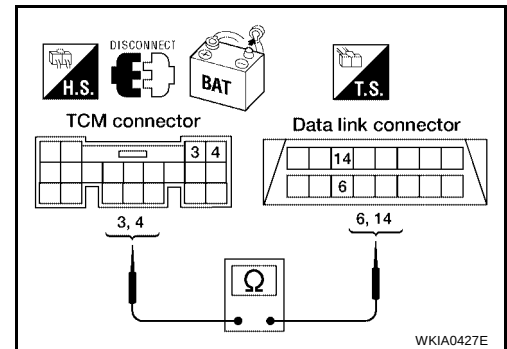
Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

3 (L) - 6 (L) : Continuity should exist.

4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-306, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

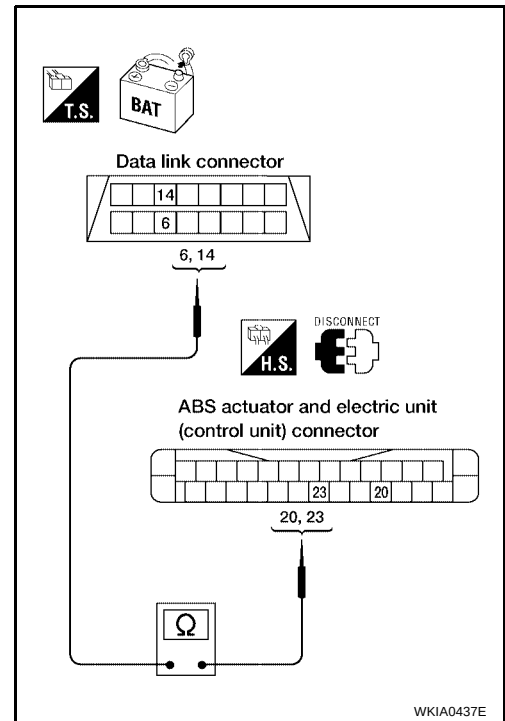
6 (L) - 20 (L) : Continuity should exist.

14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-306](#).

NG >> Repair harness.



EKS005F2

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

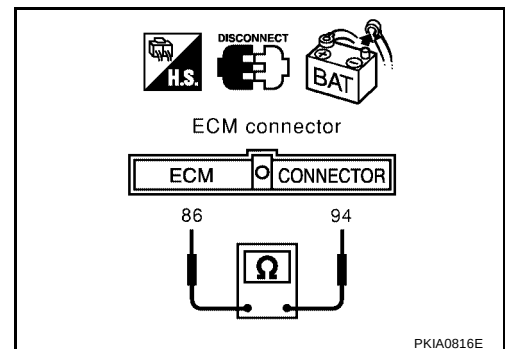
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and TCM connector F56.



TCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

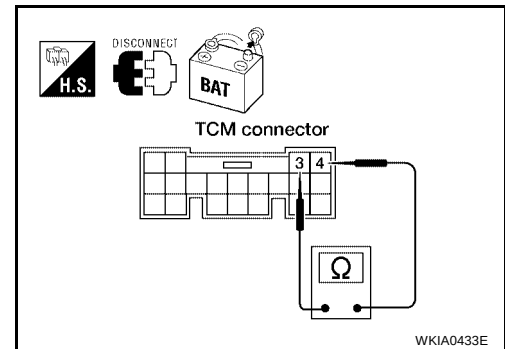
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.

**Display Unit Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

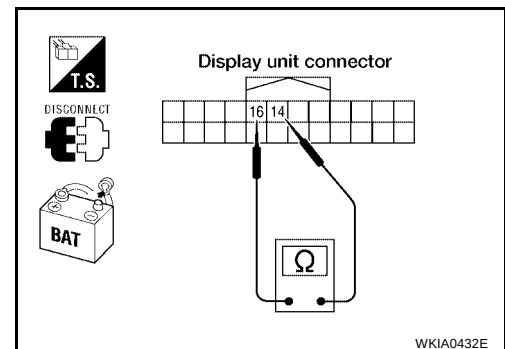
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

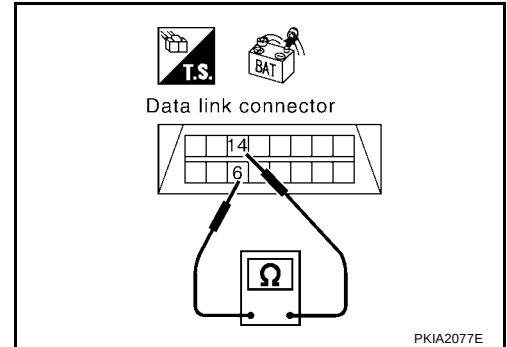
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-306](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



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BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

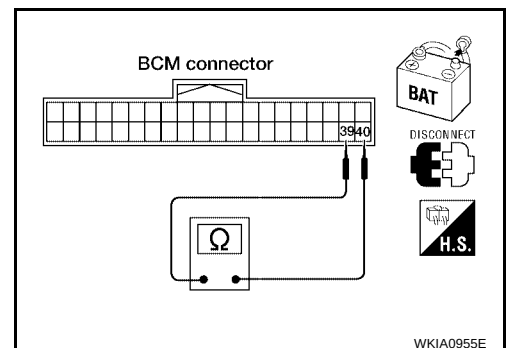
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



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LAN

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

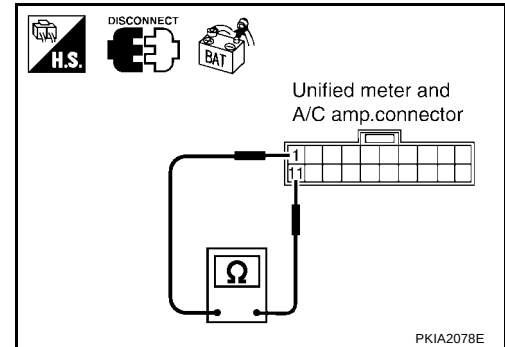
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

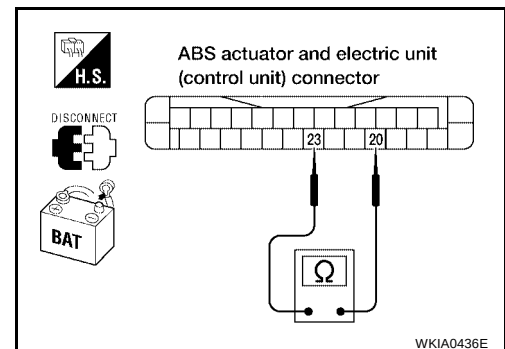
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

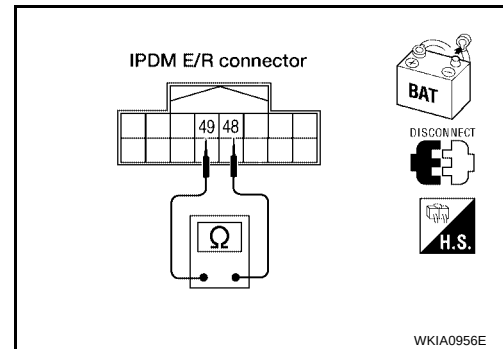
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

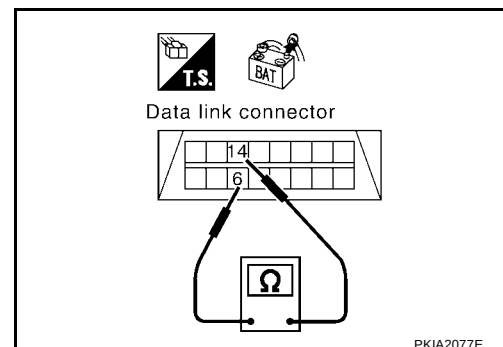
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

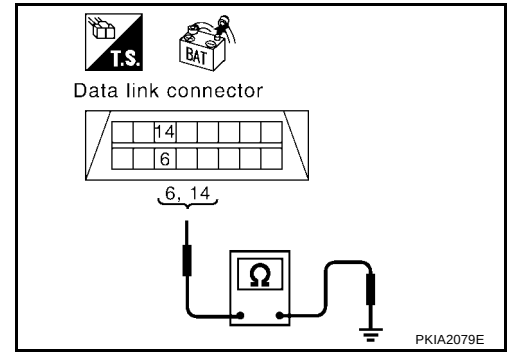
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-320, "Component Inspection"](#).

NG >> Repair the harness.



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IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

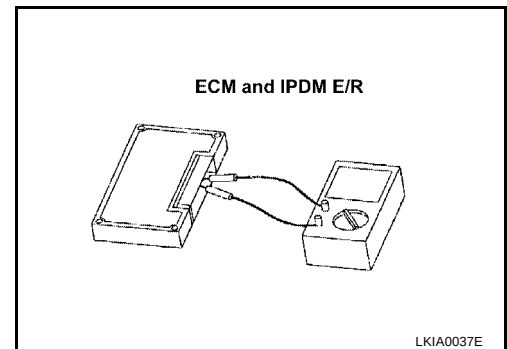
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS005FC



CAN SYSTEM (TYPE 15)

PFP:23710

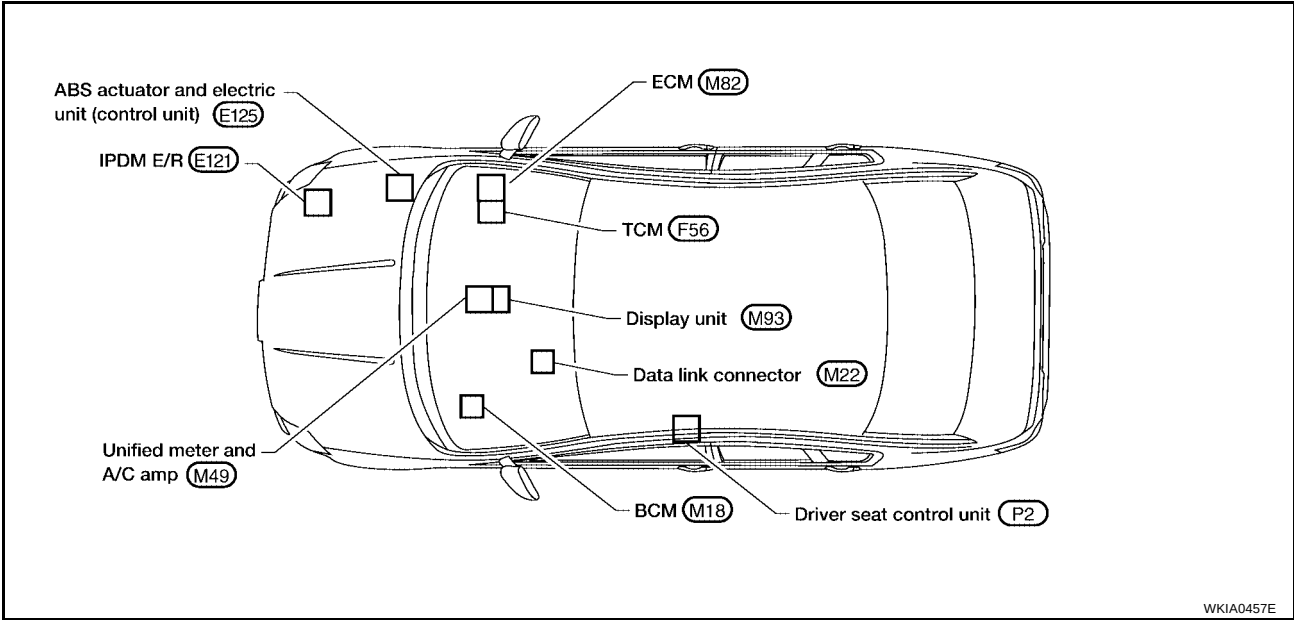
System Description

EKS005FD

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

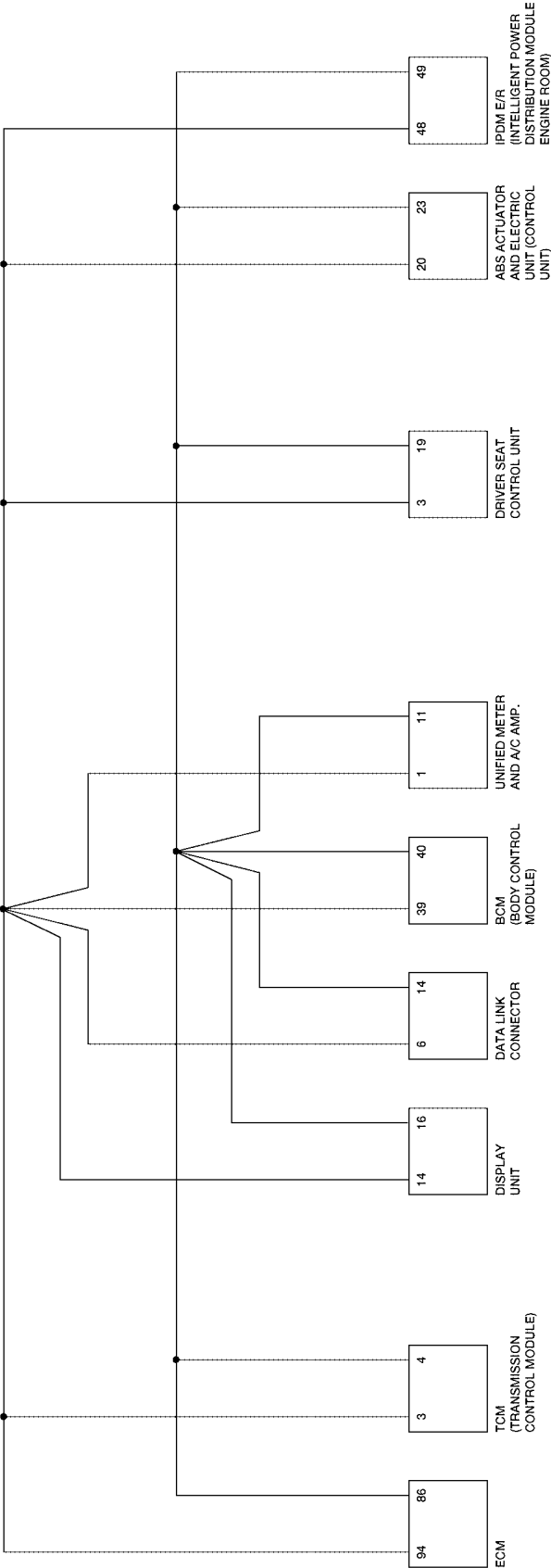
EKS005FE



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Schematic

EKS005FF



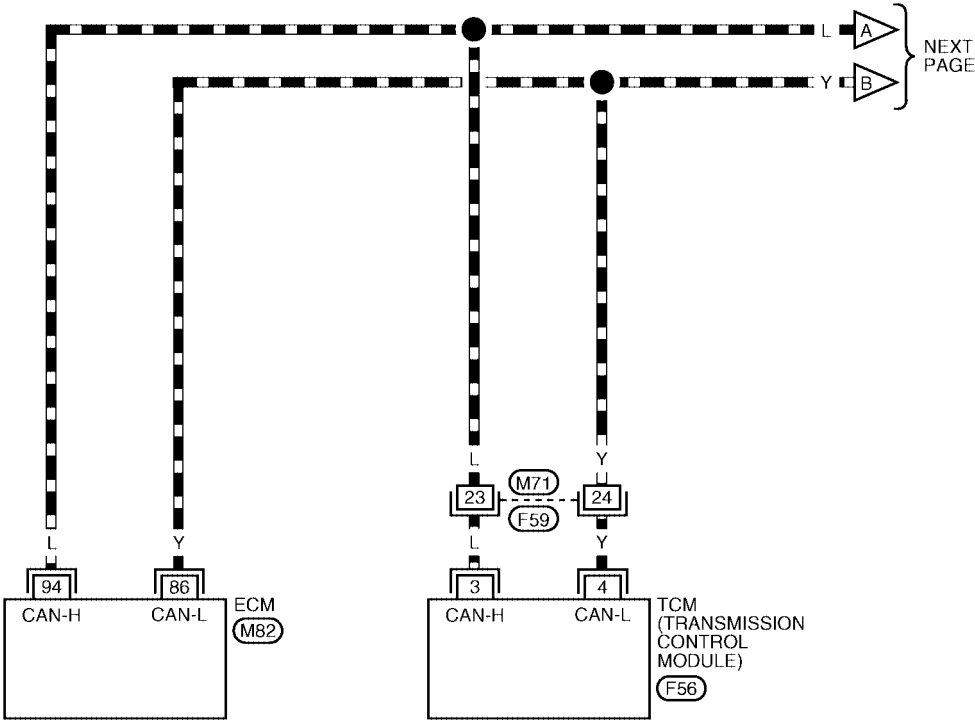
WKWA0469E

Wiring Diagram - CAN -

EKS005FG

LAN-CAN-43

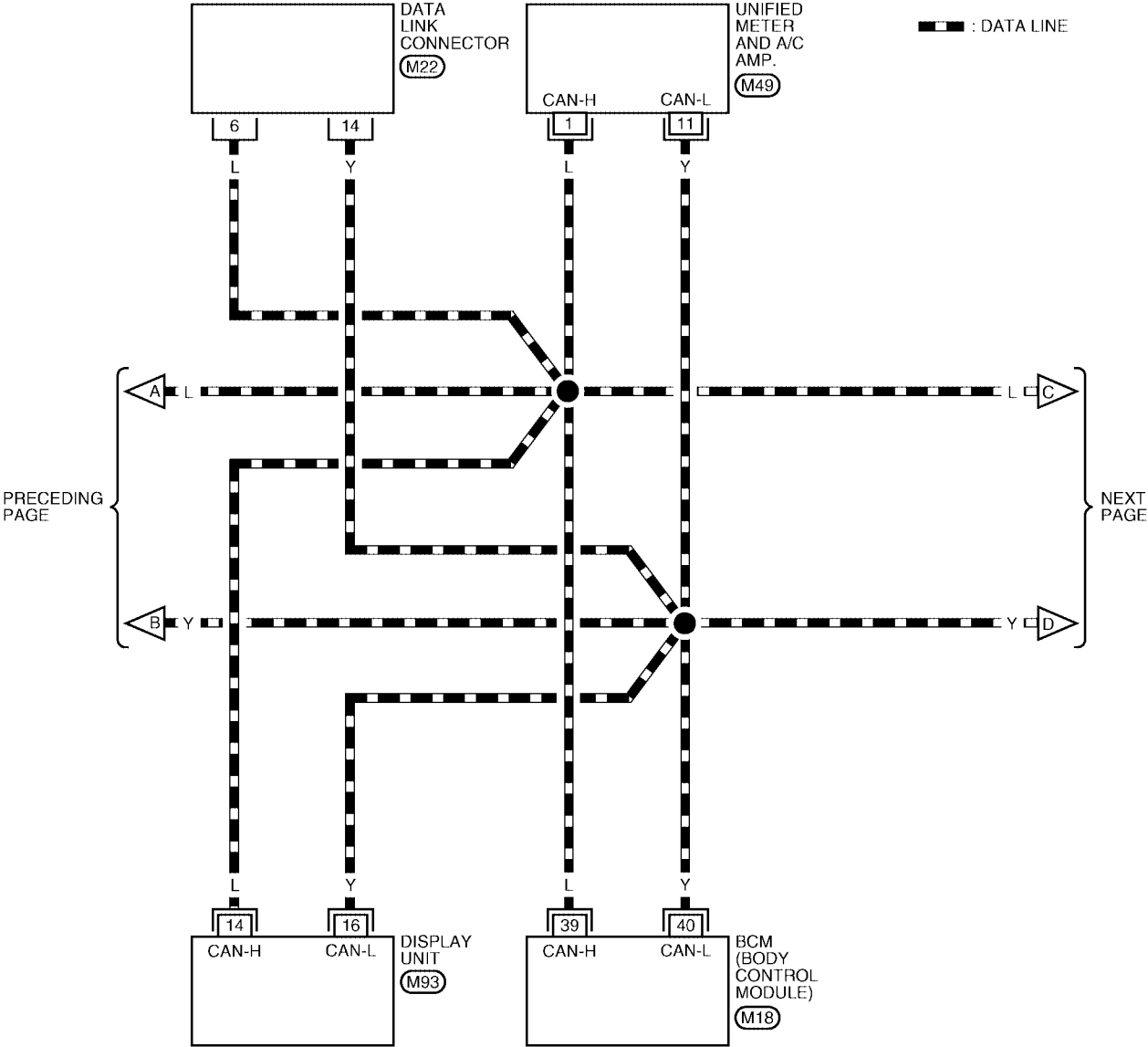
■ ■ ■ : DATA LINE



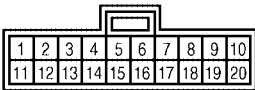
1	2	3	4	5	6			7	8	9	10	11	F59 W
12	13	14	15	16	17	18	19	20	21	22	23	24	

REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

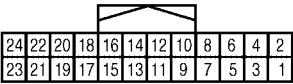
LAN-CAN-44



(M22)
W

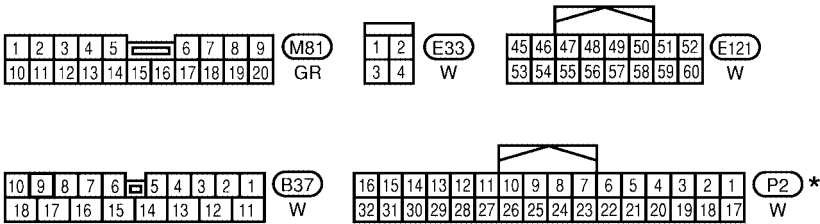
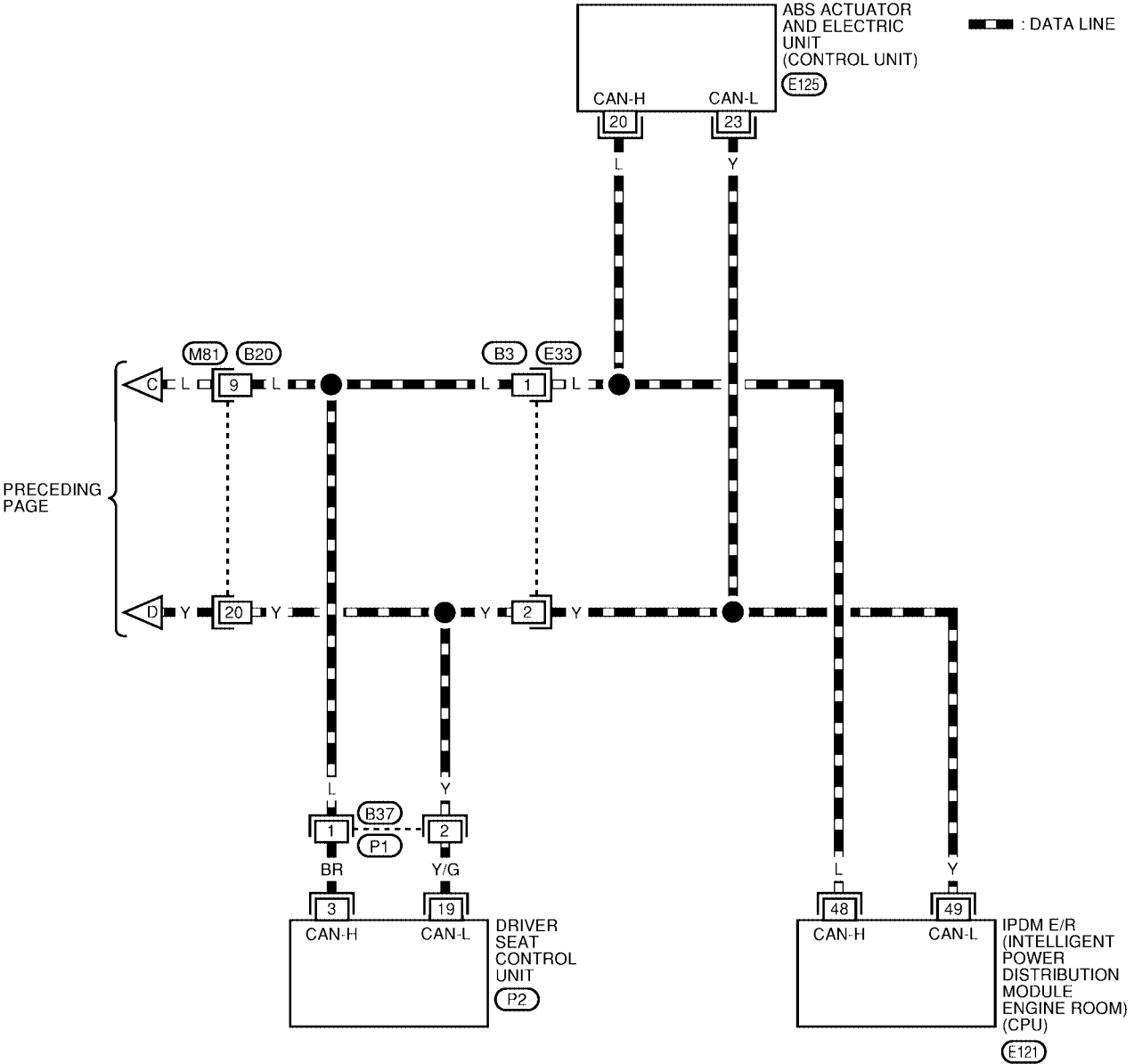


(M49)
GR



(M93)
W

REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

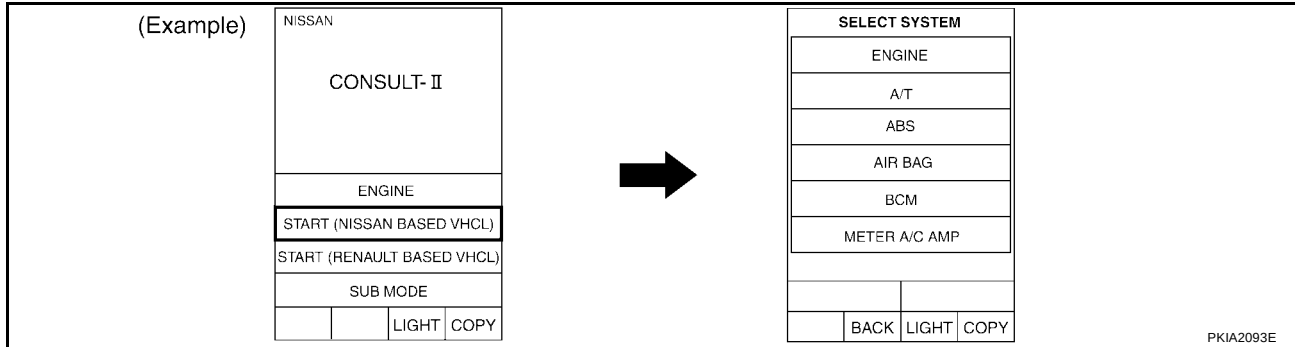


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

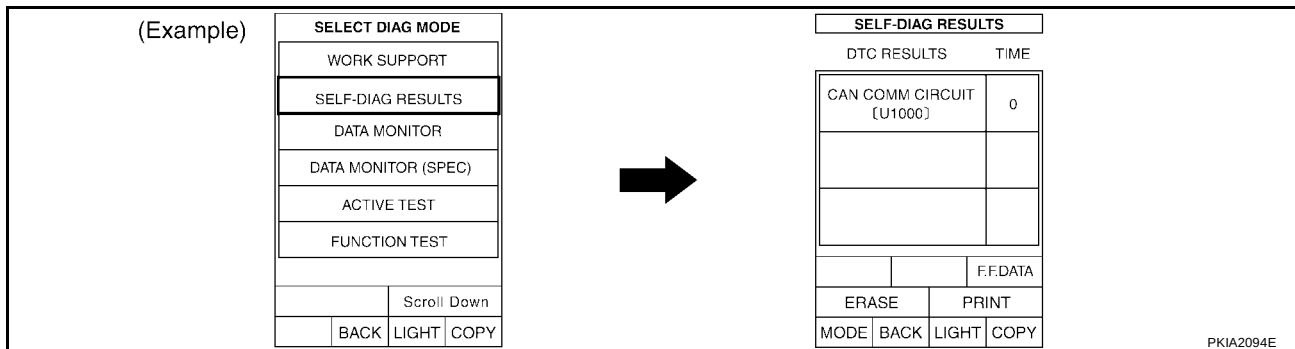
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

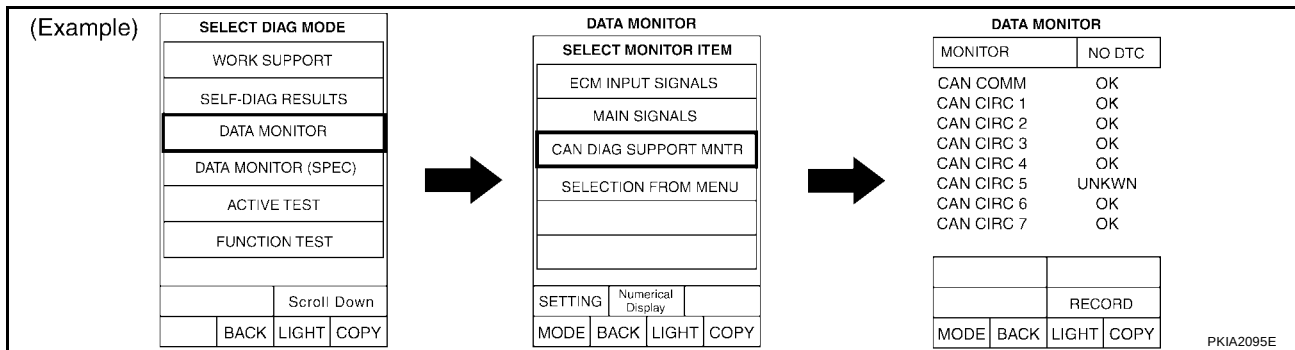
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0451E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS**Case 1**

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0573E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0574E

CAN SYSTEM (TYPE 15)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0575E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0576E

Case 3

Replace display unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0577E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0578E

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	☒ CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0579E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	☒ CAN CIRC 2	-	-	☒ CAN CIRC 4	-	-	-	☒ CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0580E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	☒ CAN CIRC 2	☒ CAN CIRC 3	☒ CAN CIRC 7	-	☒ CAN CIRC 4	-	☒ CAN CIRC 5	☒ CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0581E

CAN SYSTEM (TYPE 15)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0582E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0583E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0584E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0585E

CAN SYSTEM (TYPE 15)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0586E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-335](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0587E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-335](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0588E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-336](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0589E

CAN SYSTEM (TYPE 15)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-336](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0590E

Case 13

Check TCM circuit. Refer to [LAN-337](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0591E

Case 14

Check display unit circuit. Refer to [LAN-337](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0592E

Case 15

Check data link connector circuit. Refer to [LAN-338](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0593E

Case 16Check BCM circuit. Refer to [LAN-338](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0594E

Case 17Check unified meter and A/C amp. circuit. Refer to [LAN-339](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0595E

Case 18Check driver seat control unit circuit. Refer to [LAN-339](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0596E

Case 19Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-340](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0597E

Case 20Check IPDM E/R circuit. Refer to [LAN-340](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0598E

Case 21Check CAN communication circuit. Refer to [LAN-341](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0599E

Case 22Check IPDM E/R Ignition relay circuit. Refer to [LAN-342](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0600E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display unit	Unified meter and A/C amp	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY UNIT	-	CAN COMM	CIRC 1	CIRC 3	-	-	CIRC 5	CIRC 2	-	-	CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0601E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

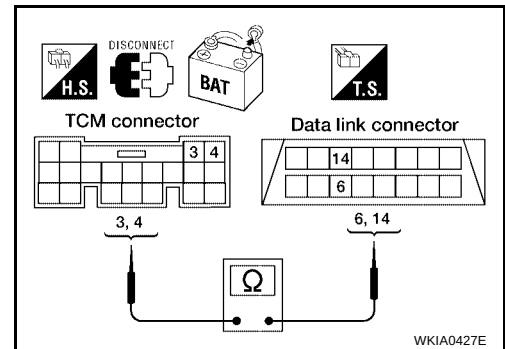
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-326, "Work Flow"](#)
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

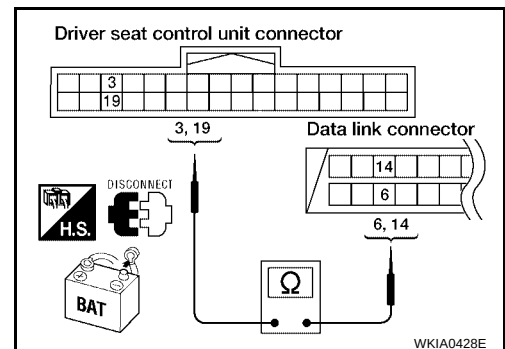
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-326](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS005FK

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

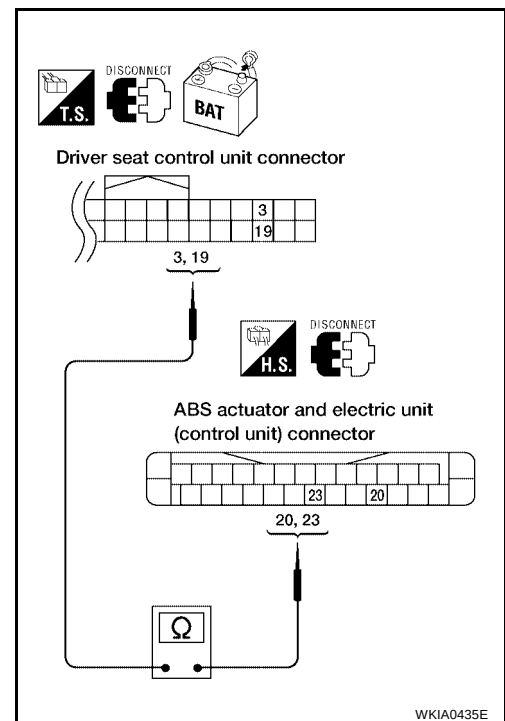
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-326](#).
NG >> Repair harness.



ECM Circuit Check

EKS005FL

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

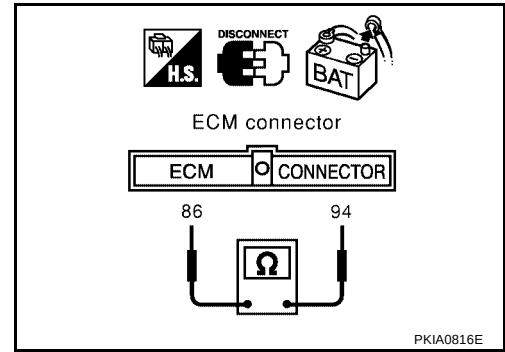
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS005FM

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

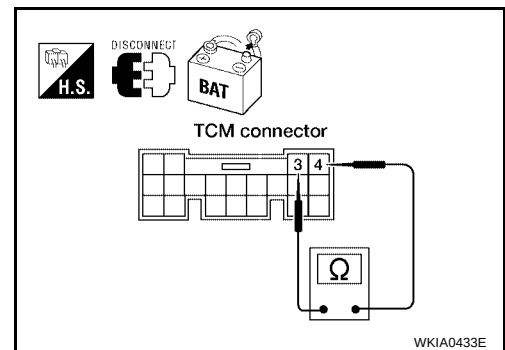
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS005FN

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

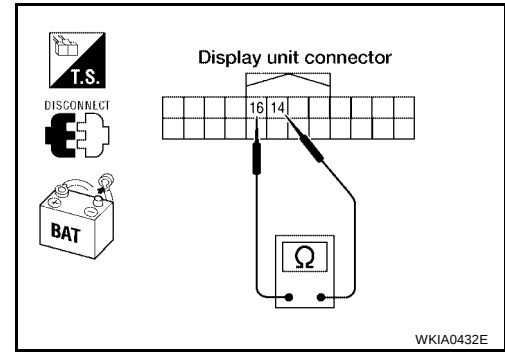
14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace display unit.

NG >> Repair harness between display unit connector M93 and data link connector M22.



EKS005FO

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

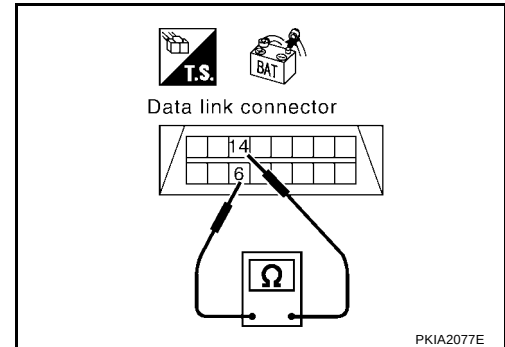
6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-326](#).

NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS005FP

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

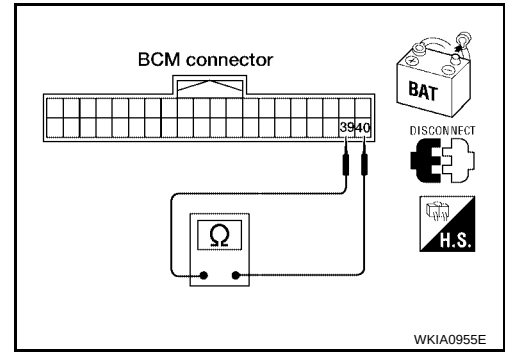
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS005FQ

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

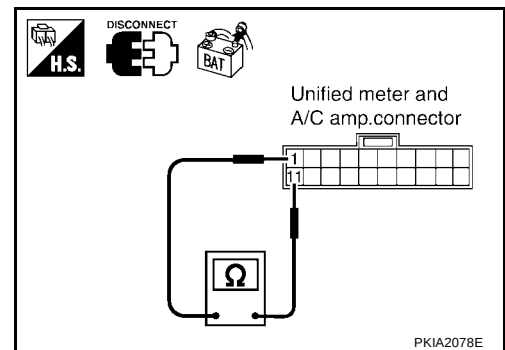
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS005FR

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

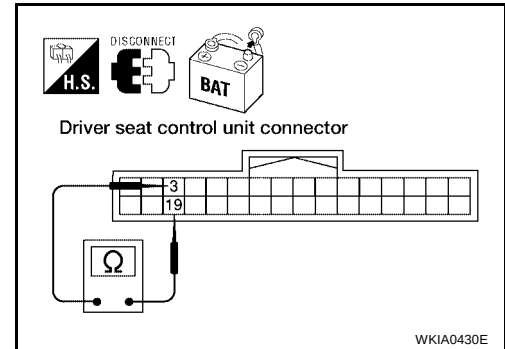
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS005FS

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

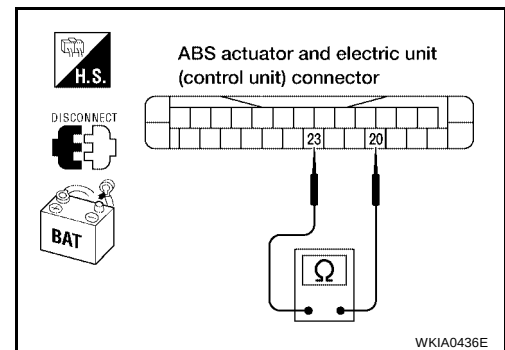
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS005FT

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

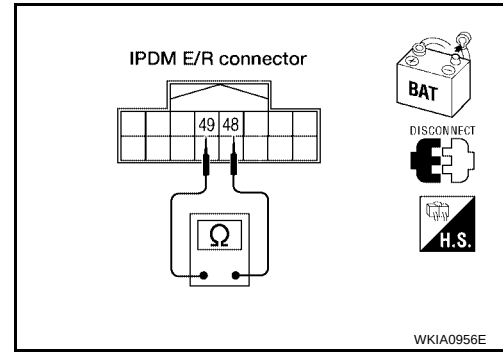
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS005FU

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

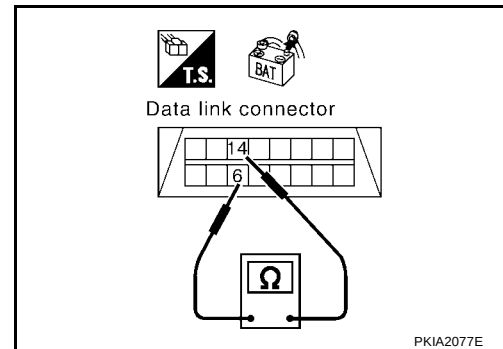
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

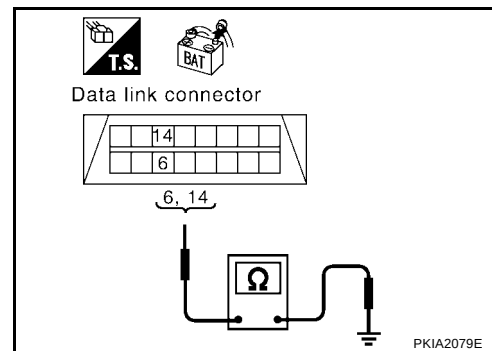
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-342, "Component Inspection"](#).

NG >> Repair the harness.



EKS005FV

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

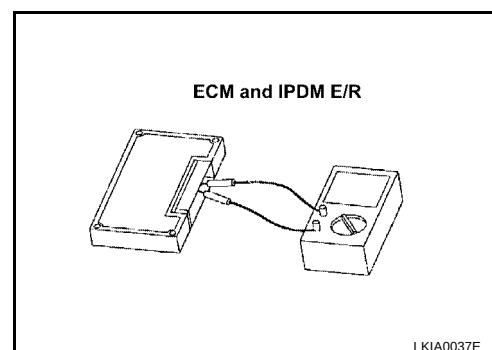
- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω

EKS005FW



CAN SYSTEM (TYPE 16)

PFP:23710

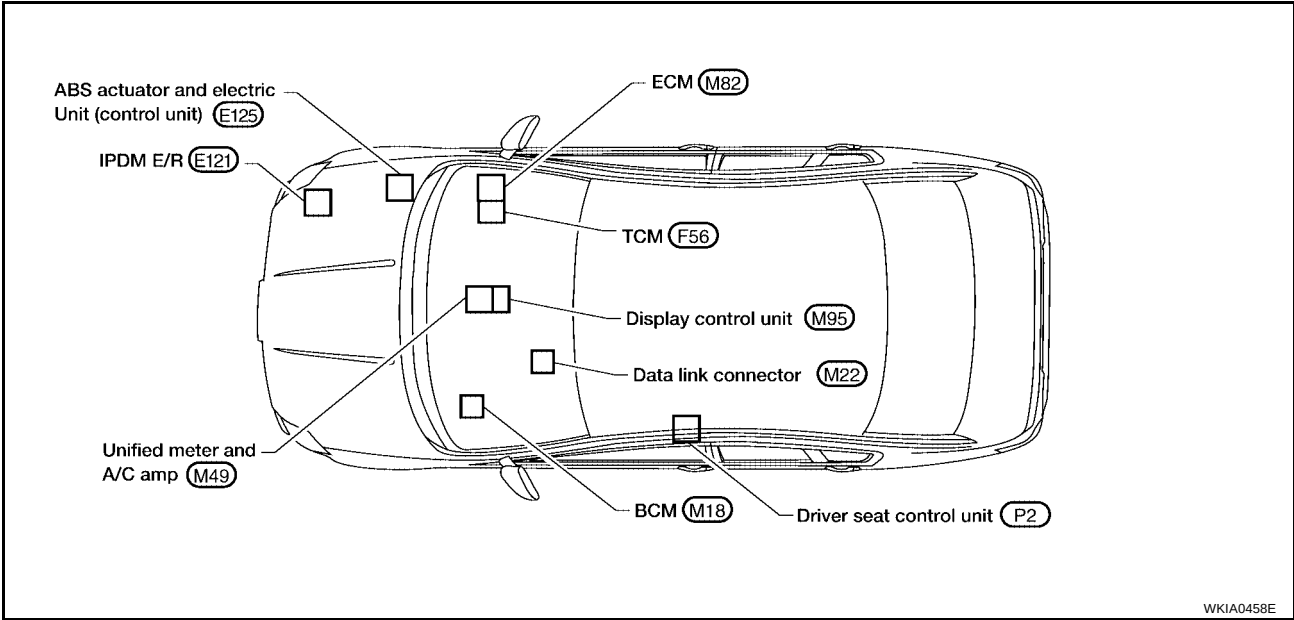
System Description

EKS005FX

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS005FY

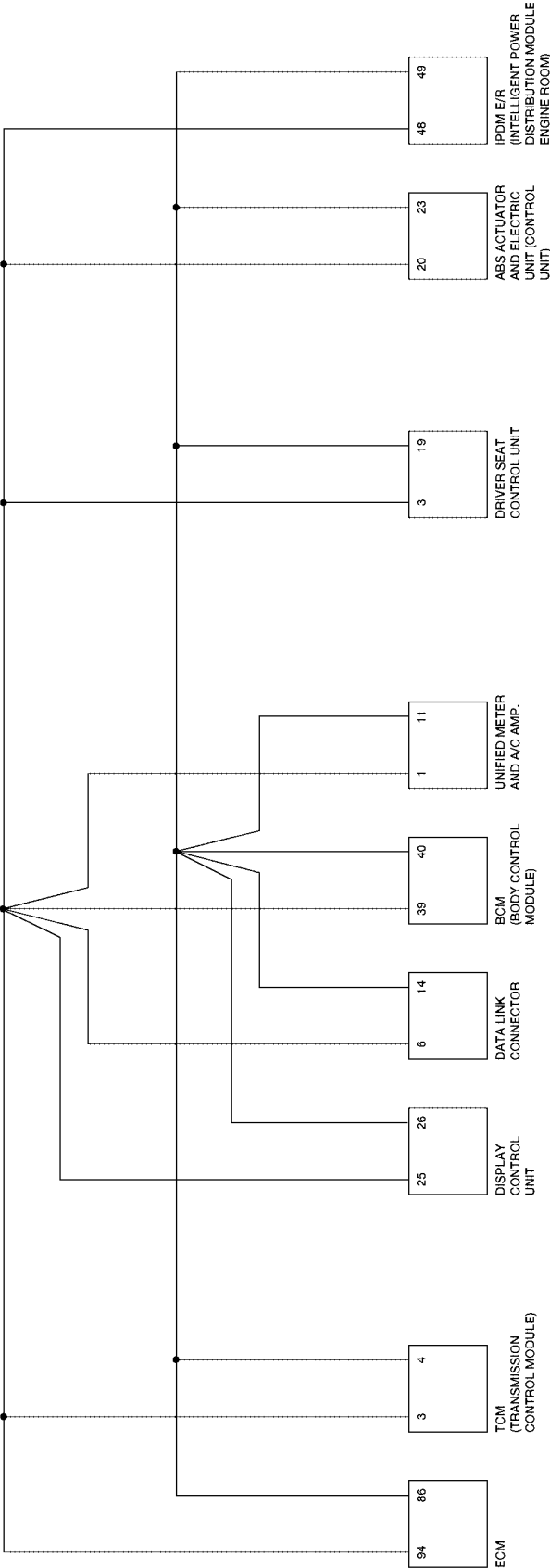


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Schematic

EKS005FZ



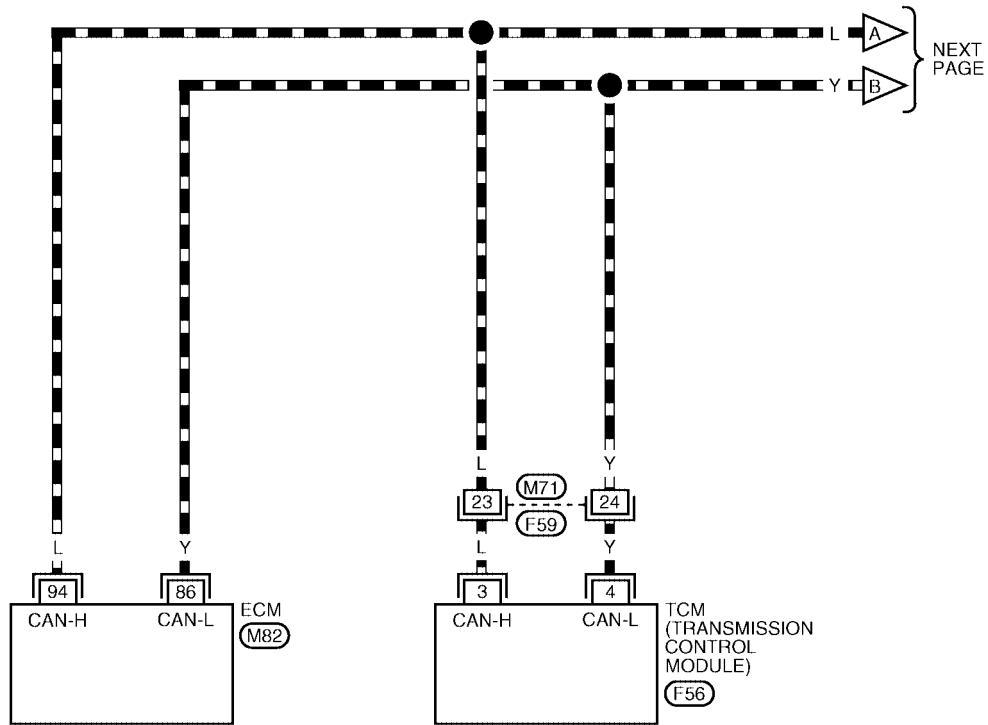
WKWA0470E

Wiring Diagram - CAN -

EKS005G0

LAN-CAN-46

 : DATA LINE



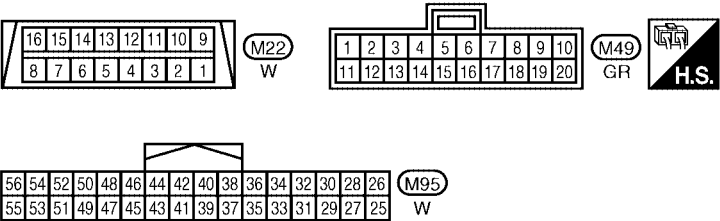
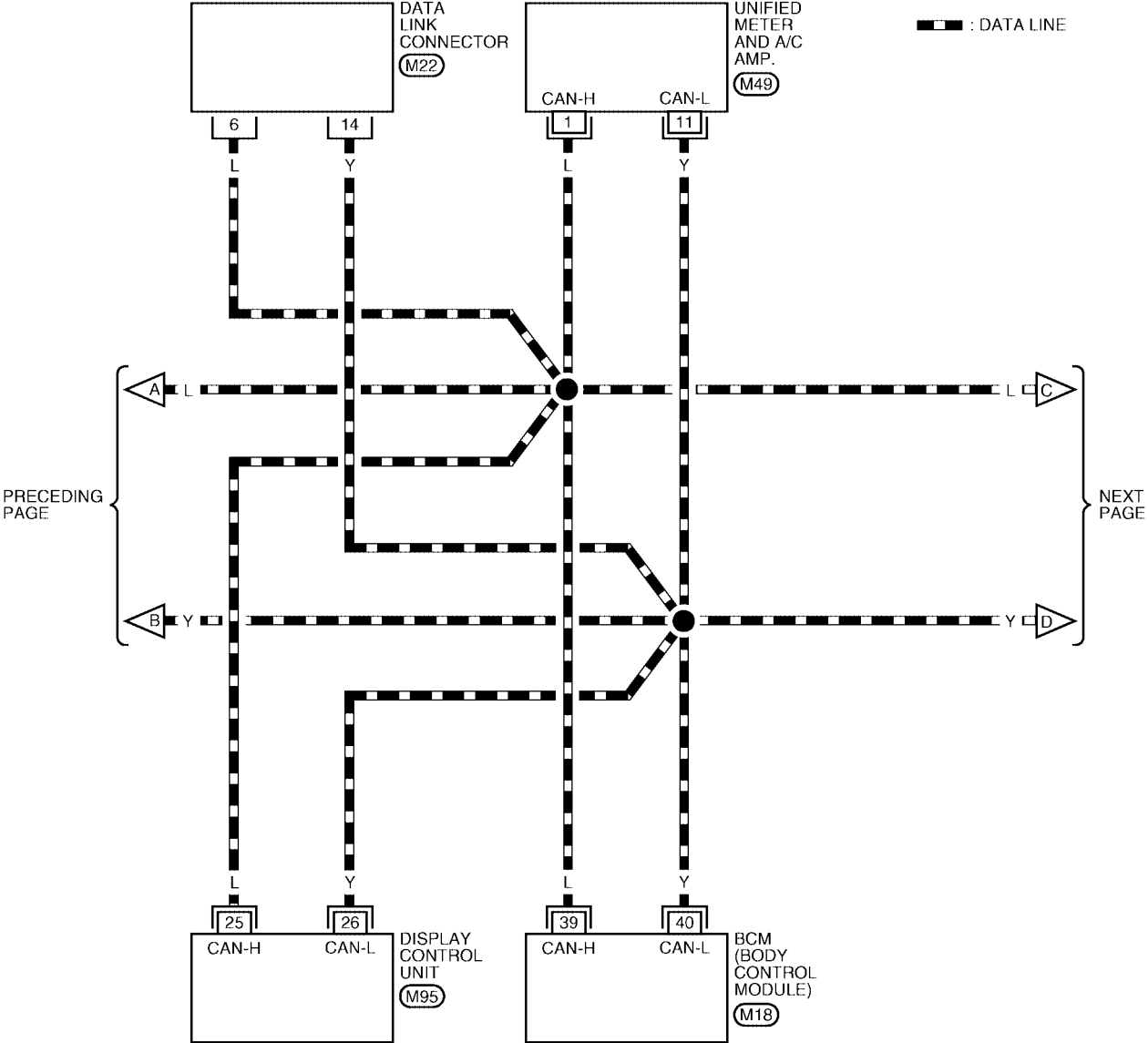
LAN

1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

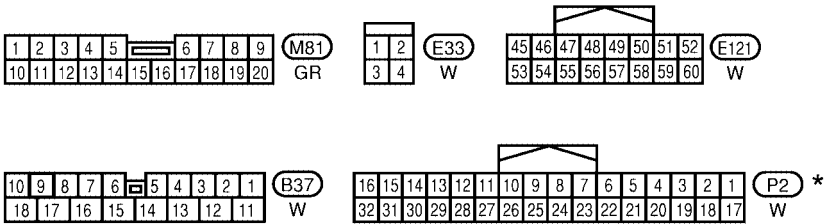
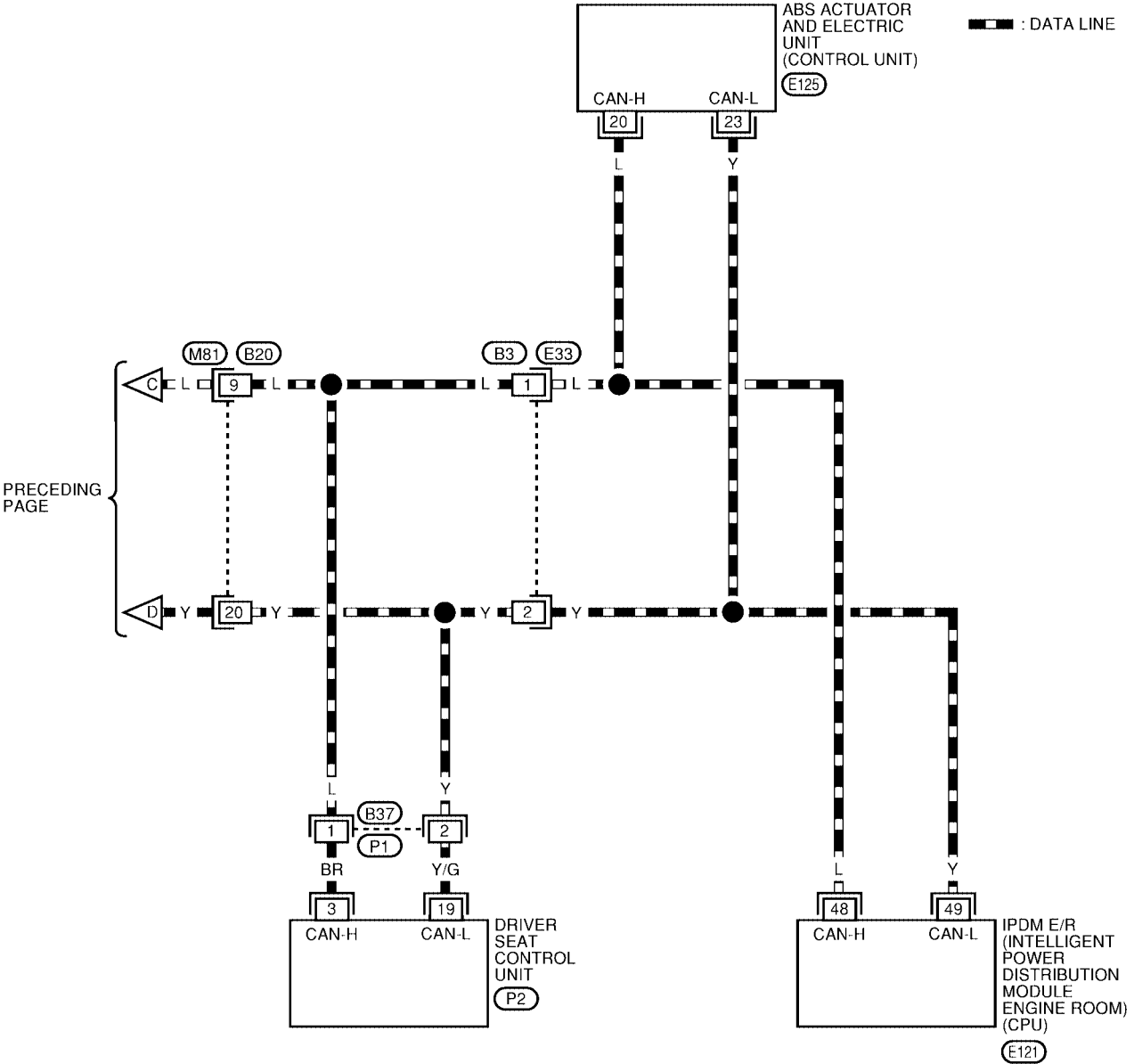
F59

W

REFER TO THE FOLLOWING.
(M82) , **(F56)** - ELECTRICAL
 UNITS



REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

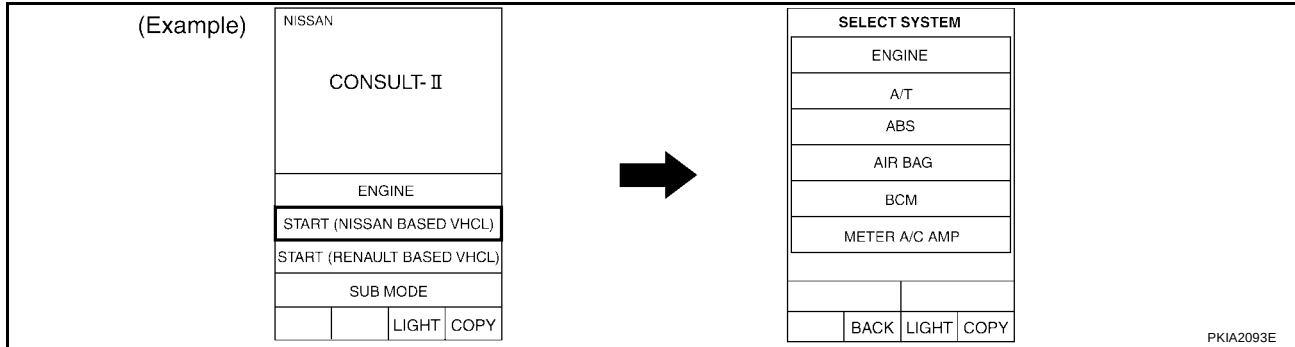


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

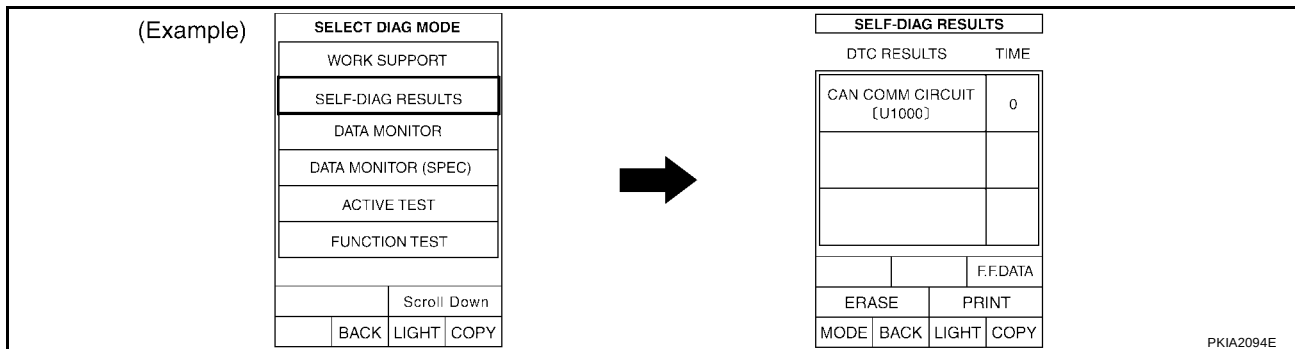
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

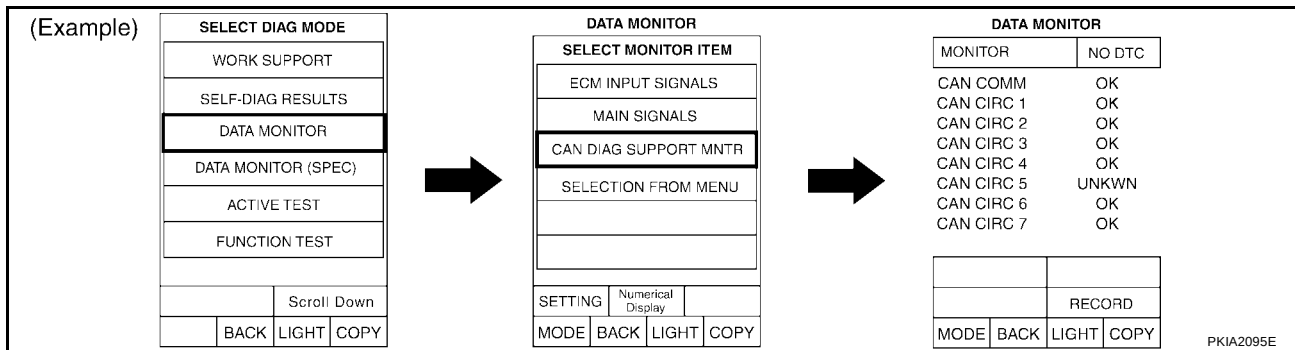
- When there are no indications of "AT", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "DATA MONITOR (CAN DIAG SUPPORT MNTR)", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0452E

NOTE:

- If "NG" is displayed on "CAN COMM" as "DATA MONITOR (CAN DIAG SUPPORT MNTR)" for the diagnosed control unit, replace the control unit.

- The “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “DATA MONITOR (CAN DIAG SUPPORT MNTR)” items not in check sheet table.

- Check CAN communication line of the navigation system.
- Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

- According to the Check Sheet Results, start inspection.

CHECK SHEET RESULTS**Case 1**

Replace ECM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	-	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0602E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	CAN CIRC 2	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0603E

CAN SYSTEM (TYPE 16)

[CAN]

Case 2

Replace TCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 3	-	CAN CIRC 4	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0604E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0605E

Case 3

Replace display control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0606E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0607E

CAN SYSTEM (TYPE 16)

[CAN]

Case 4

Replace BCM.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3						-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			-

WKIA0608E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3						-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			-

WKIA0609E

Case 5

Replace unified meter and A/C amp.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4			CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5	CAN CIRC 2			CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7		CAN CIRC 4		CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2			CAN CIRC 4				CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1		CAN CIRC 4		CAN CIRC 3	CAN CIRC 2			-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3						-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3				CAN CIRC 2			-

WKIA0610E

CAN SYSTEM (TYPE 16)

[CAN]

Case 6

Replace driver seat control unit.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0611E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0612E

Case 7

Replace ABS actuator and electric unit (control unit).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0613E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0614E

CAN SYSTEM (TYPE 16)

[CAN]

Case 8

Replace IPDM E/R.

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0615E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-357](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0616E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-357](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0617E

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-358](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0618E

CAN SYSTEM (TYPE 16)

[CAN]

Case 12

Check ECM circuit. Refer to [LAN-358](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0619E

Case 13

Check TCM circuit. Refer to [LAN-359](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0620E

Case 14

Check display control unit circuit. Refer to [LAN-359](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0621E

Case 15

Check data link connector circuit. Refer to [LAN-360](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0622E

CAN SYSTEM (TYPE 16)

[CAN]

Case 16

Check BCM circuit. Refer to [LAN-360](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0623E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-361](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0624E

Case 18

Check driver seat control unit circuit. Refer to [LAN-361](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0625E

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-362](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	-	CAN CIRC 3	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0626E

CAN SYSTEM (TYPE 16)

[CAN]

Case 20

Check IPDM E/R circuit. Refer to [LAN-362](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	CAN CIRC 4	-	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0627E

Case 21

Check CAN communication circuit. Refer to [LAN-363](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0628E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-364](#).

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM F/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	-	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM F/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0629E

	CONSULT Indication	CAN System	Tx	Rx							
				ECM	TCM	Display control unit	Unified meter and A/C amp.	BCM	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
ENGINE	-	CAN COMM	CAN CIRC 1	-	CAN CIRC 2	-	CAN CIRC 4	CAN CIRC 6	-	CAN CIRC 3	CAN CIRC 7
TRANSMISSION	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	CAN CIRC 3	-
DISPLAY CONTROL UNIT	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	CAN CIRC 7	-	CAN CIRC 4	-	CAN CIRC 5	CAN CIRC 6
BCM	No Disp	CAN COMM	CAN CIRC 1	CAN CIRC 2	-	-	CAN CIRC 4	-	-	-	CAN CIRC 3
AUTO DRIVE POS.	No Disp	CAN COMM	CAN CIRC 1	-	CAN CIRC 4	-	CAN CIRC 3	CAN CIRC 2	-	-	-
ABS	-	CAN COMM	CAN CIRC 1	CAN CIRC 2	CAN CIRC 3	-	-	-	-	-	-
IPDM E/R	No Disp	-	CAN CIRC 1	CAN CIRC 3	-	-	-	CAN CIRC 2	-	-	-

WKIA0630E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

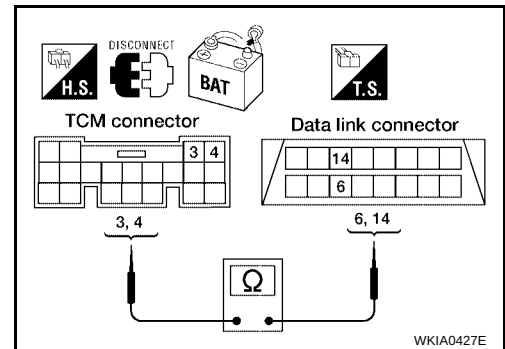
3 (L) - 6 (L) : Continuity should exist.

4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-348, "Work Flow"](#).

NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

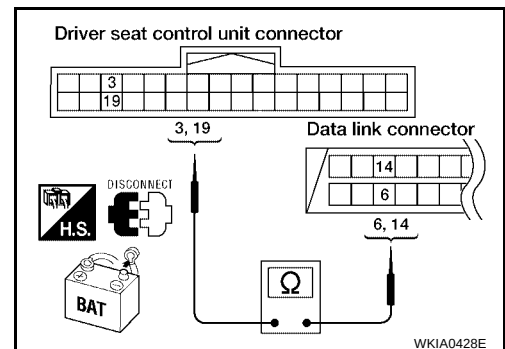
3 (BR) - 6 (L) : Continuity should exist.

19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

OK >> Connect all connectors and diagnose again. Refer to [LAN-348](#).

NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

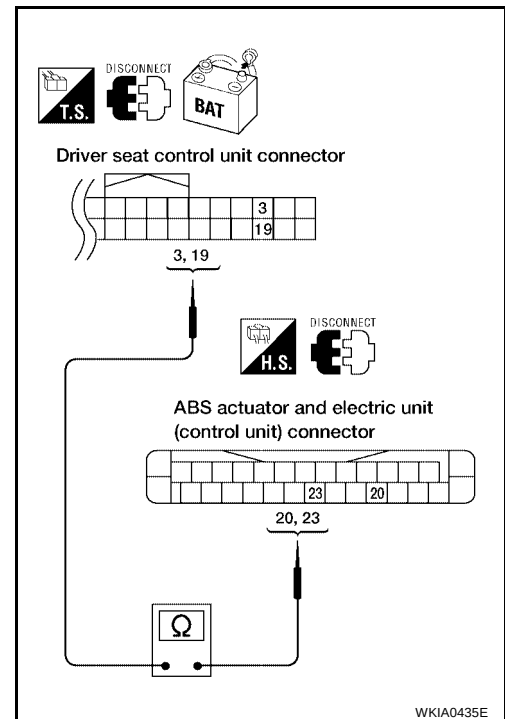
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-348](#).
NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

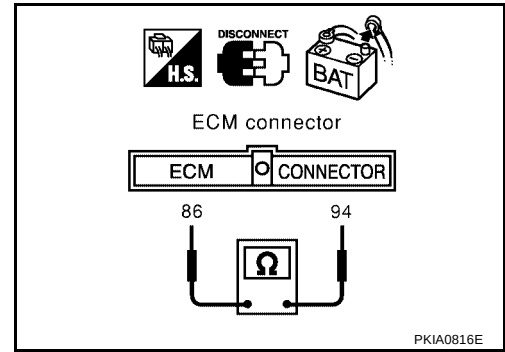
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS005G6

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

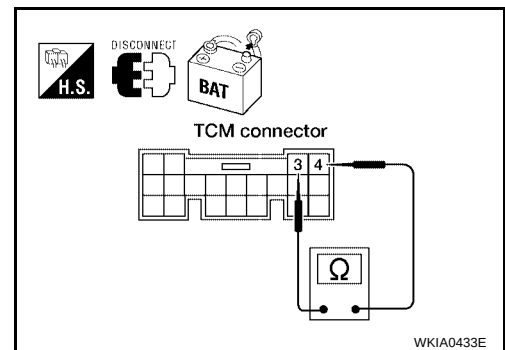
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS005G7

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

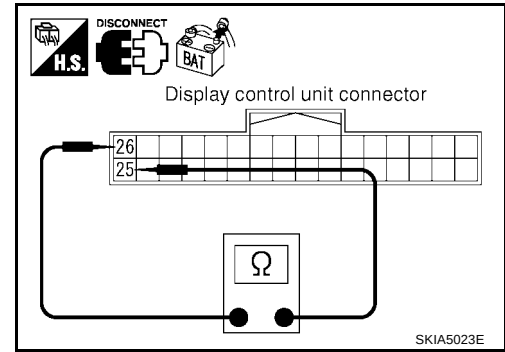
Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS005G8

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

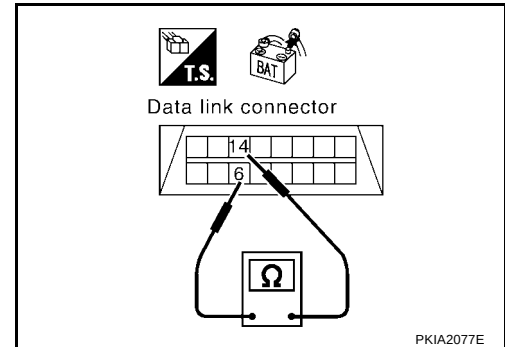
Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-348](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS005G9

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

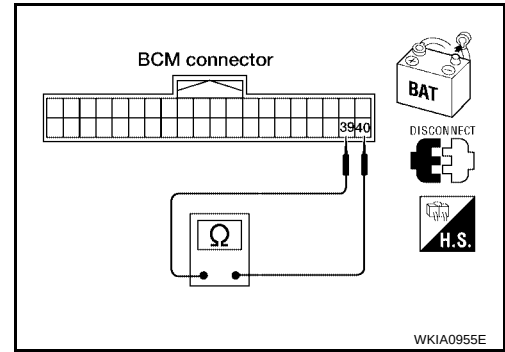
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS005GA

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

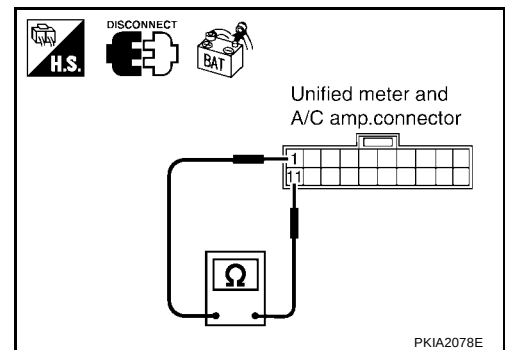
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS005GB

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

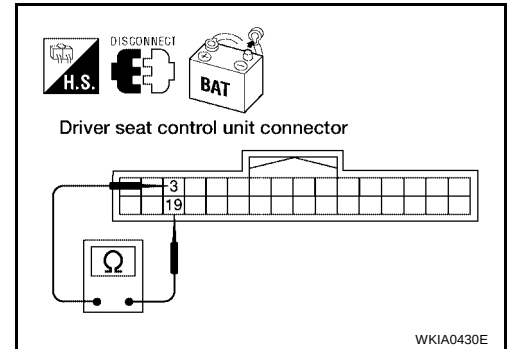
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS005GC

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

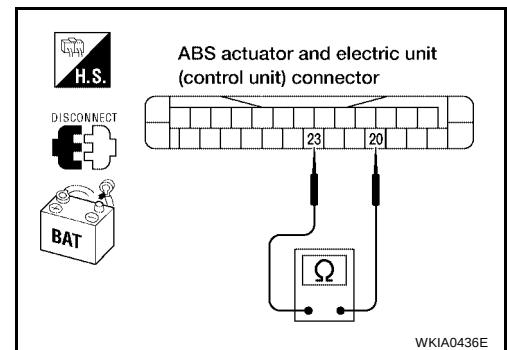
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS005GD

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

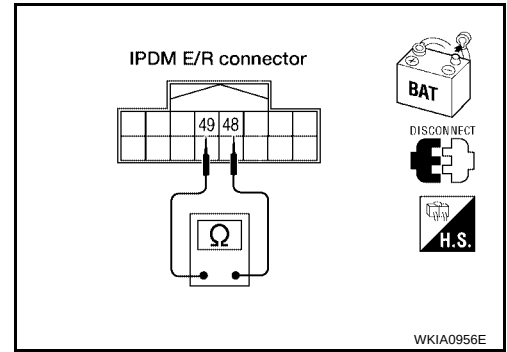
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS005GE

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

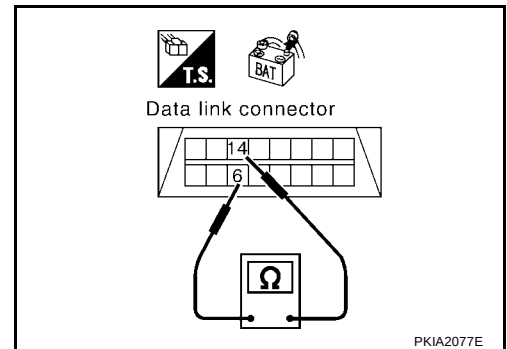
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
- NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

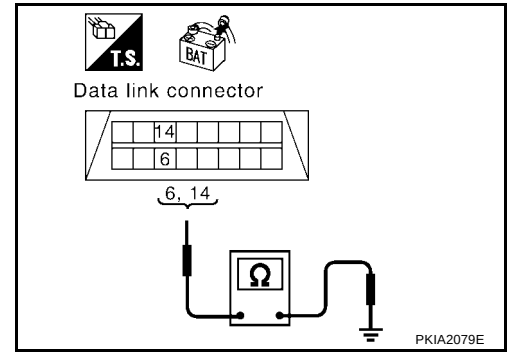
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-364, "Component Inspection"](#).

NG >> Repair the harness.



EKS005GF

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to !!! Hyper-link Error !!! Hyper-link Error !!! .

Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

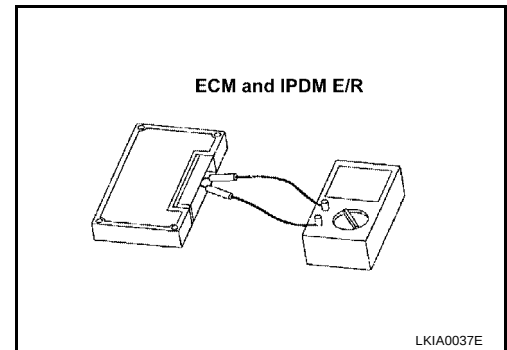
- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω

- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS005GG



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