

# SECTION **BL**

## BODY, LOCK & SECURITY SYSTEM

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# PRECAUTIONS

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## PRECAUTIONS

PFP:00001

### Precautions

*EIS002J5*

- After installing removed lids or doors, be sure to adjust hinges and mount points so that lids or doors can open and close properly.
- Confirm parts for proper lubrication, damage or wear. Lubricate, repair or replace as necessary.

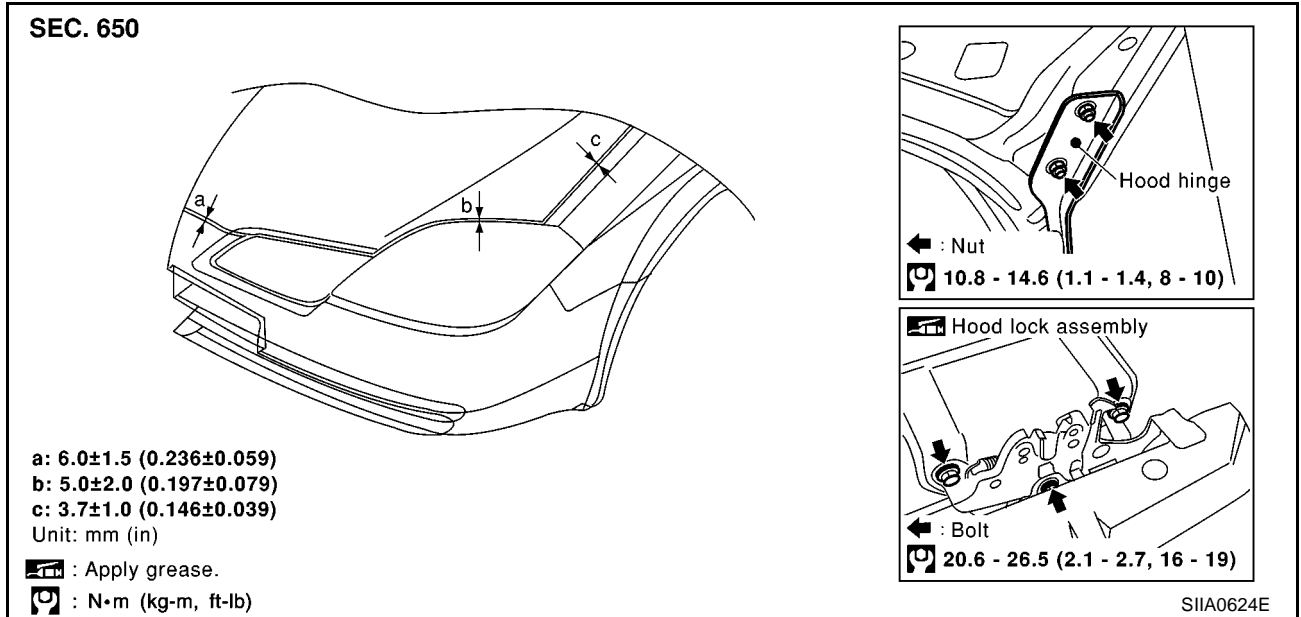
# HOOD

## HOOD

PFP:65100

### Fitting Adjustment

EIS002J6



### FRONT END HEIGHT ADJUSTMENT AND LATERAL/LONGITUDINAL CLEARANCE ADJUSTMENT

1. Remove hood lock. Rotate bumper rubber to adjust height until hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.
2. Position hood lock and engage striker. Confirm hood lock and striker for looseness. Tighten lock mount bolts to the specified torque.

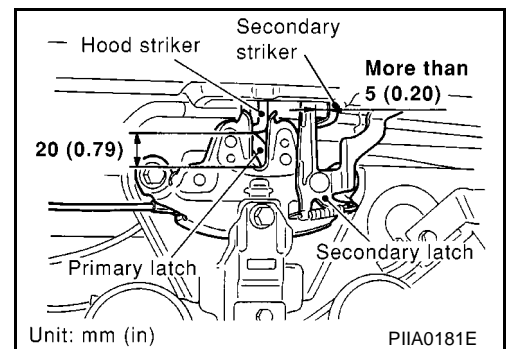
### SURFACE HEIGHT ADJUSTMENT

1. Remove hood lock. Use bumper rubber (RH/LH) to make the hood and fender flush.
2. Position hood lock. Move hood lock to left or right until vertically centered on the striker.
3. Confirm secondary latch is securely engaged with secondary striker by releasing it from a height of approximately 200 mm (7.87 in) or by pressing it lightly approx.3kg (29 N).

#### NOTE:

Do not release hood from a height of 300 mm (11.81 in) or higher.

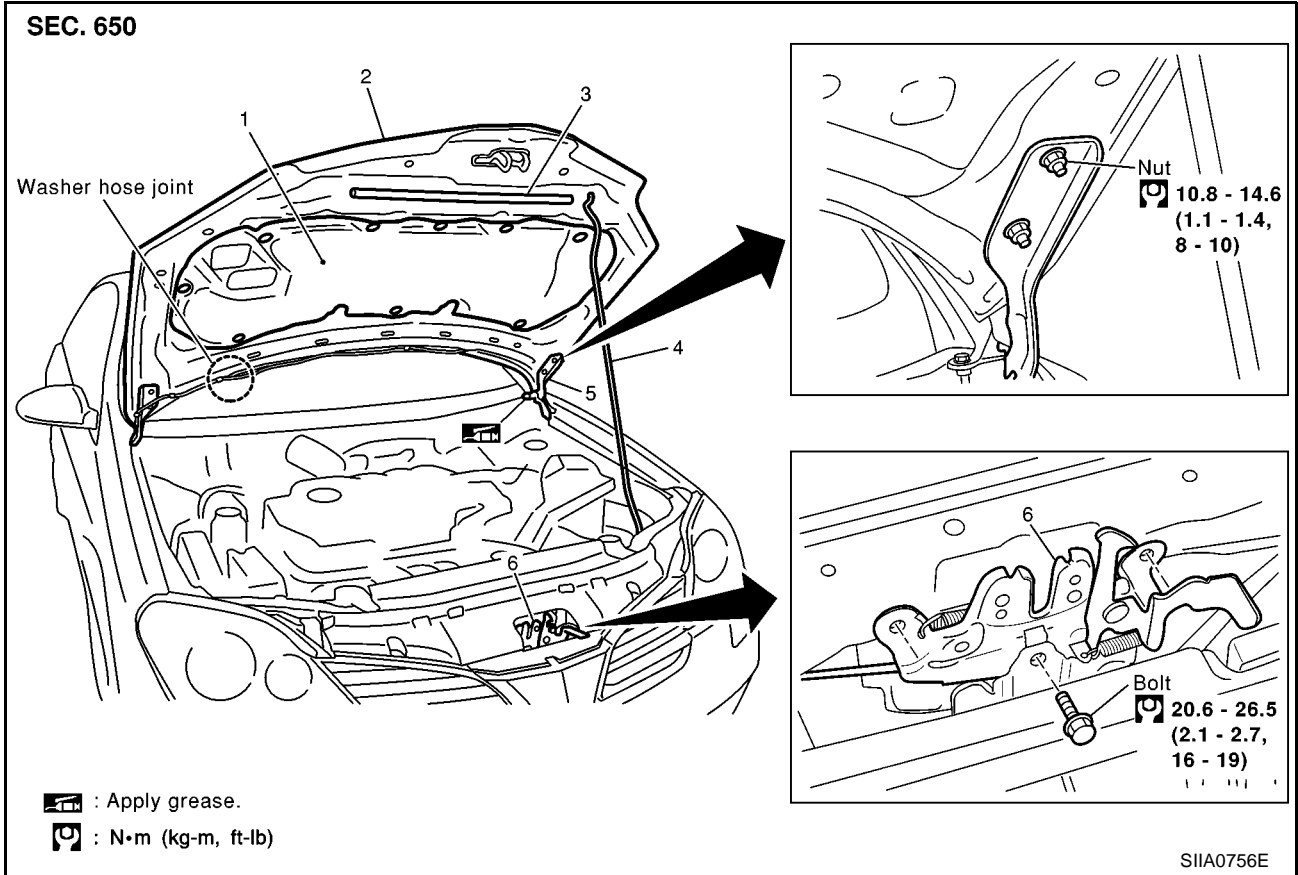
4. Move hood lock up and down until striker smoothly engages the lock when the hood is closed.
5. After adjustment, tighten lock mount bolts to the specified torque.



# HOOD

EIS002J7

## Removal and Installation of Hood Assembly



1 : Hood insulator

2 : Hood assembly

3 : Radiator core support sealing rubber

4 : Hood stay

5 : Hood hinge

6 : Hood lock assembly

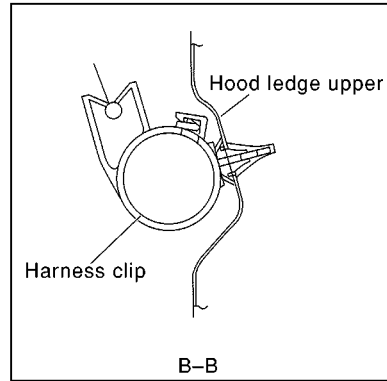
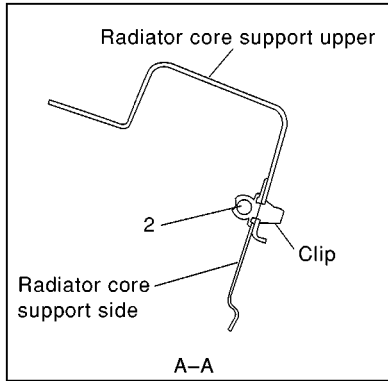
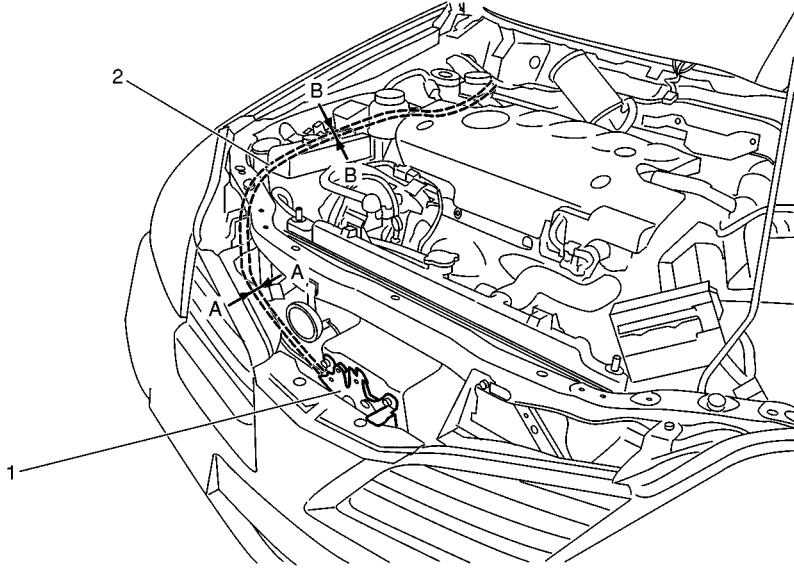
1. Disconnect washer hose at the connection.
  2. Remove hinge mount nuts on the hood and then the hood assembly.
- Install in the reverse order of removal.

# HOOD

## Removal and Installation of Hood Lock Control

EIS002J8

SEC. 656

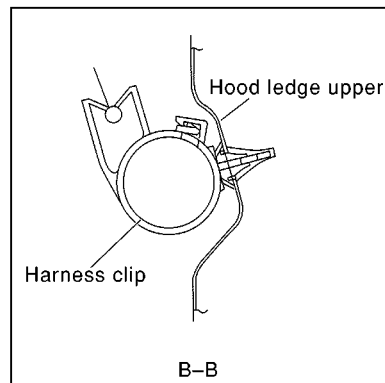
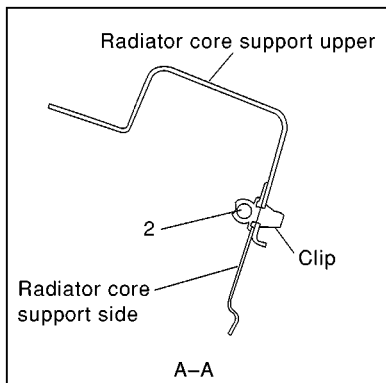
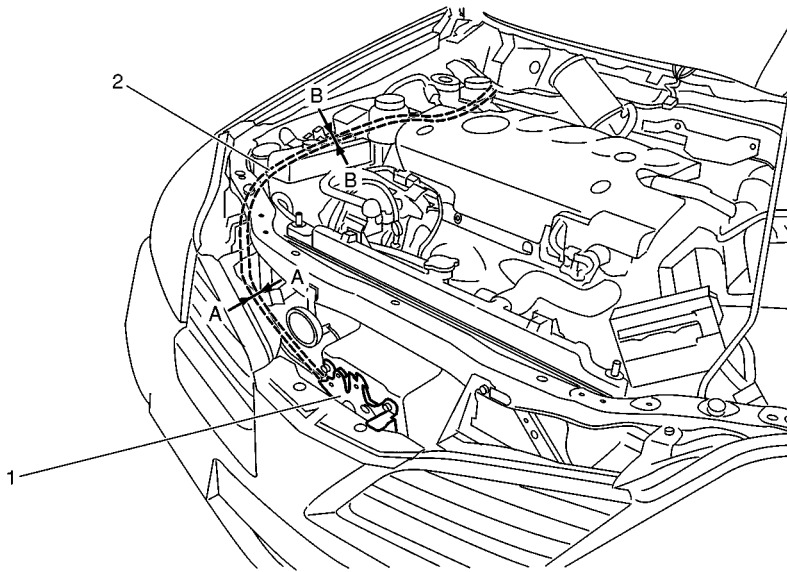


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# HOOD

SEC. 656



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1 : Hood lock assembly

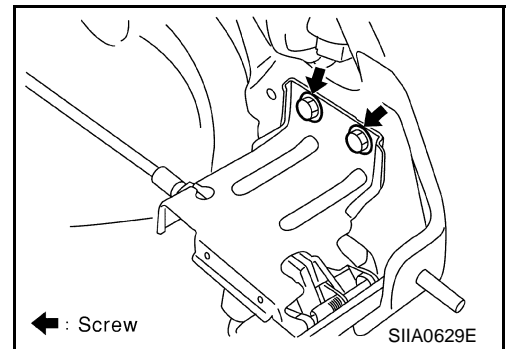
2 : Hood lock cable

## REMOVAL

1. Remove hood lock cable and clip it from upper portion of radiator core support and hood ledge.
2. Remove dash side finisher. Refer to [EI-25, "BODY SIDE TRIM"](#).
3. Remove attaching screw and then the hood opener.
4. Remove dash panel grommet and pull hood lock cable toward the passenger compartment.

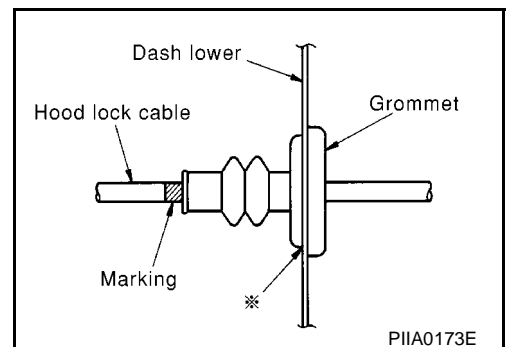
### NOTE:

When pulling the cable, be careful not to strip or scratch the outer surface.



## INSTALLATION

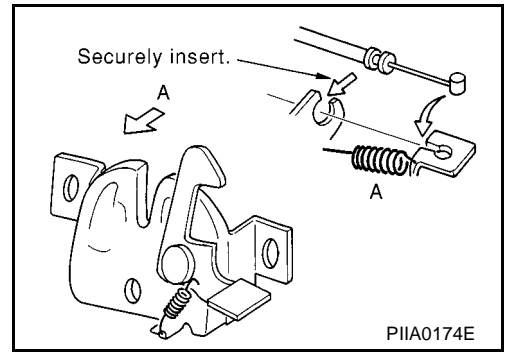
1. Pass hood lock cable through the opening while keeping the winding radius 100 mm (3.94 in) or larger.
2. After confirming that the grommet is properly positioned, push the grommet securely into the hole.
3. Apply sealant to the area on the grommet indicated with the \* mark.





# HOOD

4. Connect cable securely to the lock.
5. After connection, confirm proper adjustment and operation for both hood lock and hood opener.

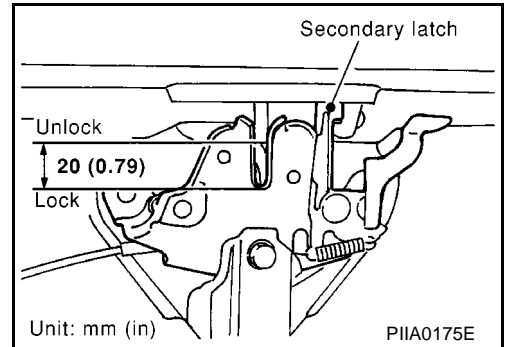


## Hood Lock Control Inspection

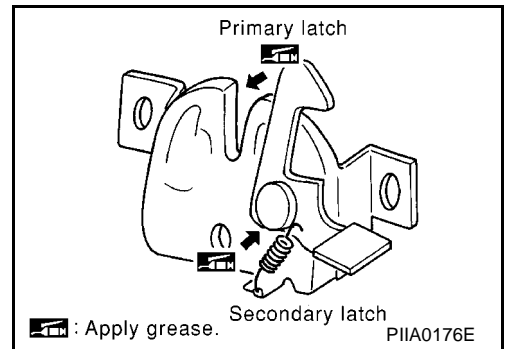
### NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Confirm hood lock secondary latch securely engages secondary striker by releasing it from a height of approximately 200 mm (7.87 in).
2. Confirm front end of the hood rises by approximately 20 mm (0.79 in) when pulling the hood opener. Also confirm hood opener returns to the original position.



3. Confirm hood lock has is properly lubricated. If necessary, apply "Grease" at the point shown in the figure.



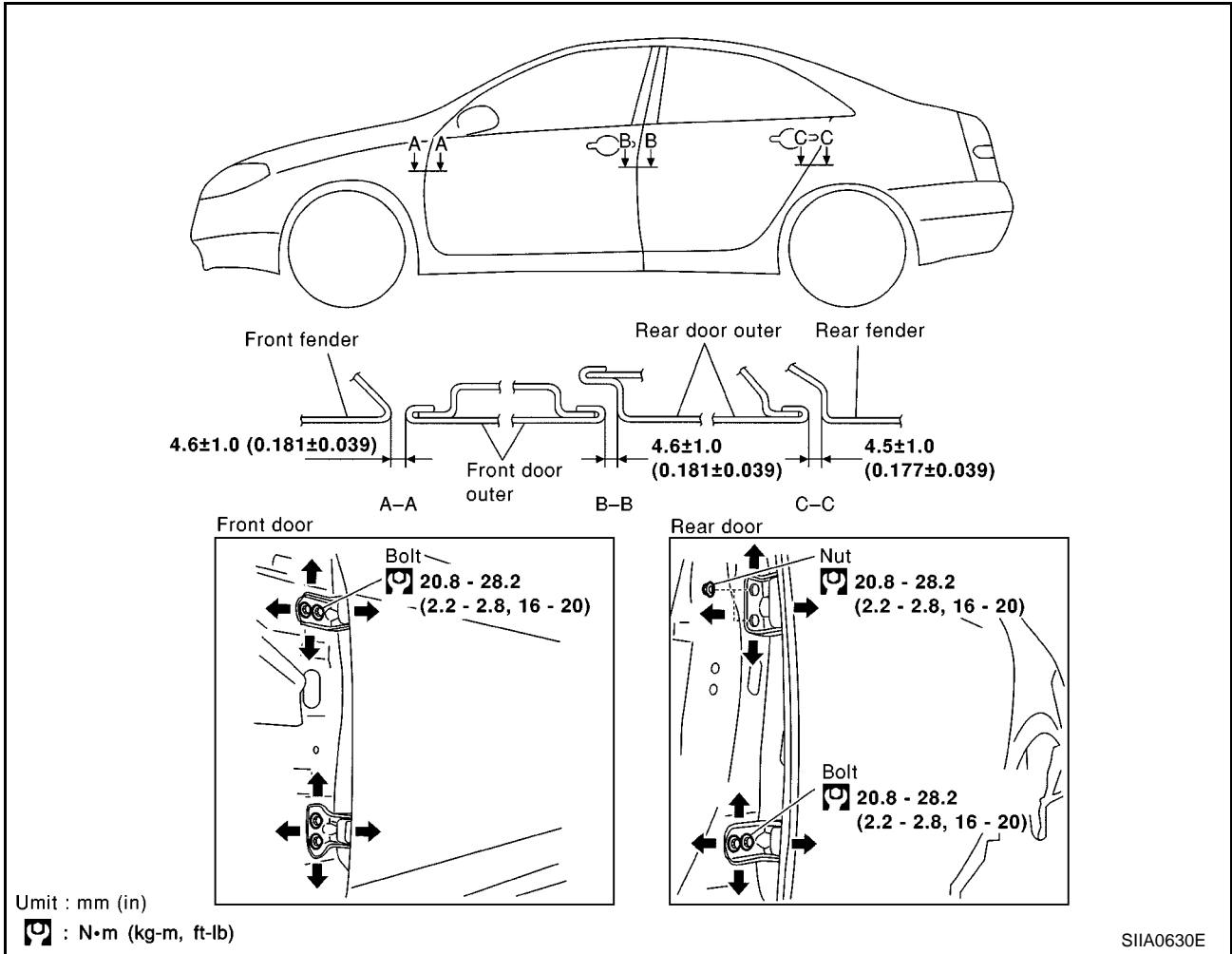
# DOOR

## DOOR

PFP:80100

### Fitting Adjustment

EIS002JA



### FRONT DOOR

#### Longitudinal Clearance and Surface Height Adjustment at Front End

1. Remove fender protector. Refer to [EI-14, "FENDER PROTECTOR"](#) .
2. Working from the inside the fender, loosen hinge mount bolts on the body. Lift rear end of the front door to adjust clearance and surface difference properly.

### REAR DOOR

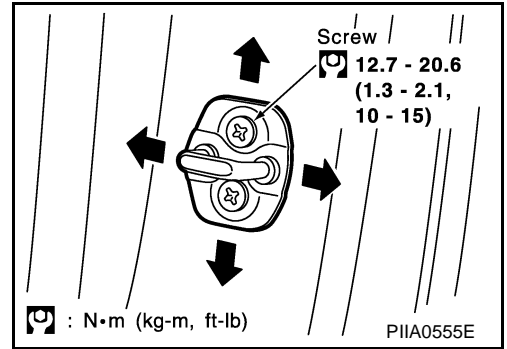
#### Longitudinal Clearance and Surface Height Adjustment at Front End

1. Remove upper and lower garnishes on the center pillar. Refer to [EI-25, "BODY SIDE TRIM"](#) .
2. Loosen mounting bolts from outside of vehicle, mounting nuts from inside of vehicle. Open rear door. Raise rear end of it to adjust.

# DOOR

## STRIKER ADJUSTMENT

Adjust striker until it is parallel to the lock engagement direction.



## Removal and Installation

EIS002JB

### NOTE:

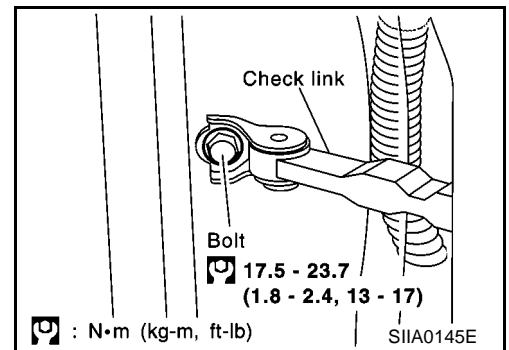
- During door assembly removal and installation, use a jack to support the door. Place shop cloths or something similar on the jack plate to protect the door and body from damage.
- After door assembly removal and installation, always adjust it so will open and close smoothly.
- Confirm the rotating part of the hinge has adequate lubrication. If necessary, apply Body Grease.

1. Remove door finisher. Refer to [EI-22, "DOOR FINISHER"](#).
2. Remove sealing screen.

### NOTE:

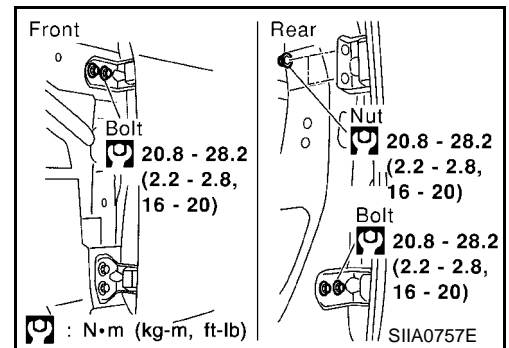
If sealing screen is reused, cut butyl tape in a way that leaves it on the sealing screen.

3. Remove door harness.
4. Remove check link mount bolts on the body.



5. Remove hinge mount nuts and bolts on the door and then the door assembly.

Install in the reverse order of removal.

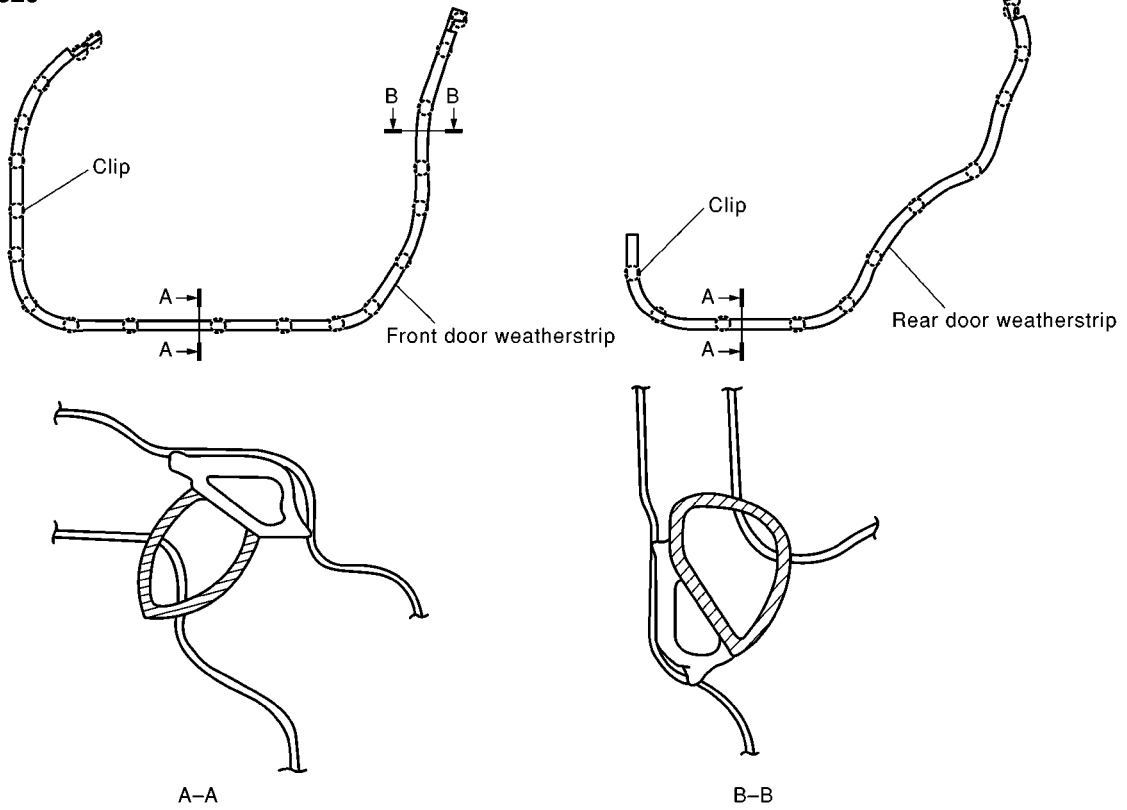


# DOOR

EIS002JC

## Door Weather-strip SEDAN

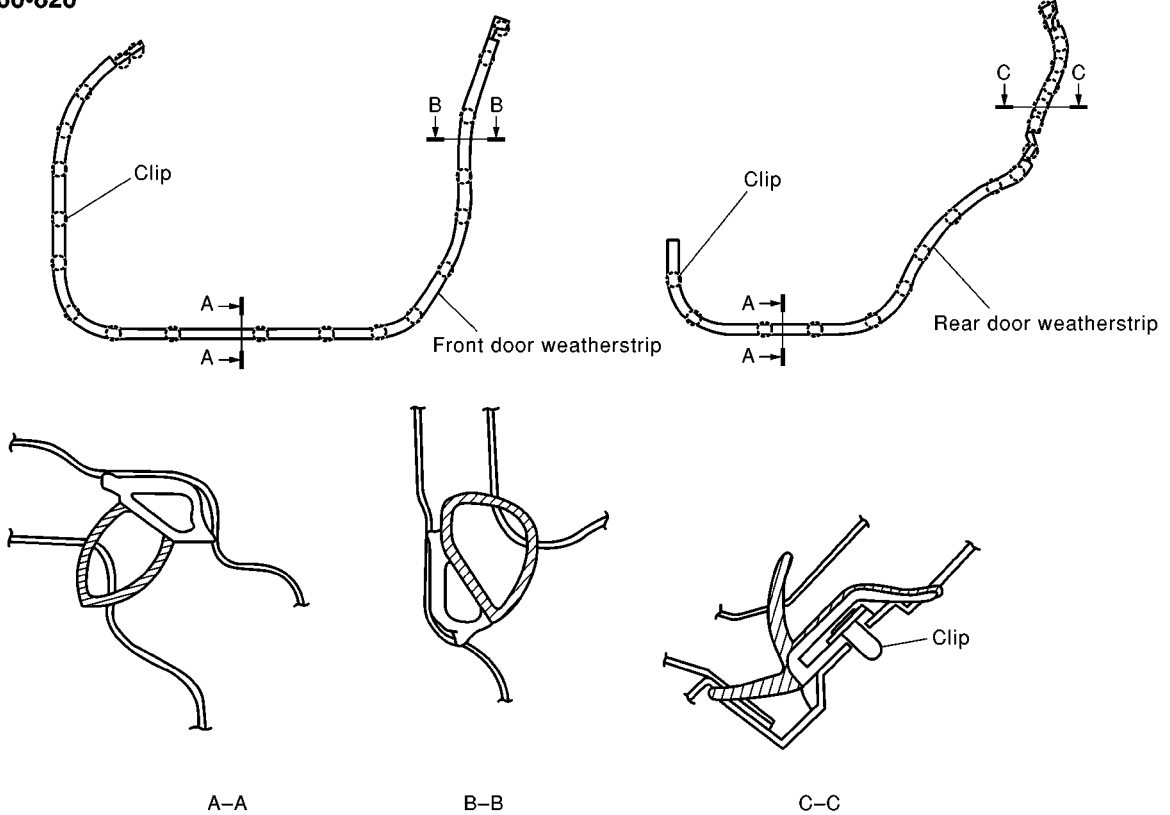
SEC. 800-820



SIIA0763E

## WAGON

SEC. 800-820



SIIA0764E

# POWER DOOR LOCK SYSTEM

## POWER DOOR LOCK SYSTEM

PFP:24814

### System Description

EIS002JD

#### OPERATION

Power is supplied at all times

- through 10A fuse (No.12, located in the fusible link and fuse box)
- to smart entrance control unit terminal 56, and
- through 40A fusible link (letter B, located in the fusible link and fuse box)
- to smart entrance control unit terminal 49.

Ground is supplied

- through body grounds M16, M50 and M70
- to smart entrance control unit terminal 53.

#### DOOR LOCK AND UNLOCK SWITCH OPERATION

When door lock/unlock switch is in LOCK position, ground is supplied

- from body grounds M50 and M70
- through power window main switch (door lock/unlock switch) terminal 3
- through power window main switch (door lock/unlock switch) terminal 1
- to smart entrance control unit terminal 13.

With power and ground supplied, doors are locked.

When door lock/unlock switch is in UNLOCK position, ground is supplied

- from body grounds M50 and M70
- through power window main switch (door lock/unlock switch) terminal 3
- through power window main switch (door lock/unlock switch) terminal 2
- to smart entrance control unit terminal 14

With power and ground supplied, all doors are unlocked.

#### KEY REMINDER SYSTEM

- If the ignition key is in the ignition key cylinder and driver door is open, setting door lock/unlock switch, lock knob, key or remote controller to "LOCK" locks the door once but then immediately unlocks all doors.

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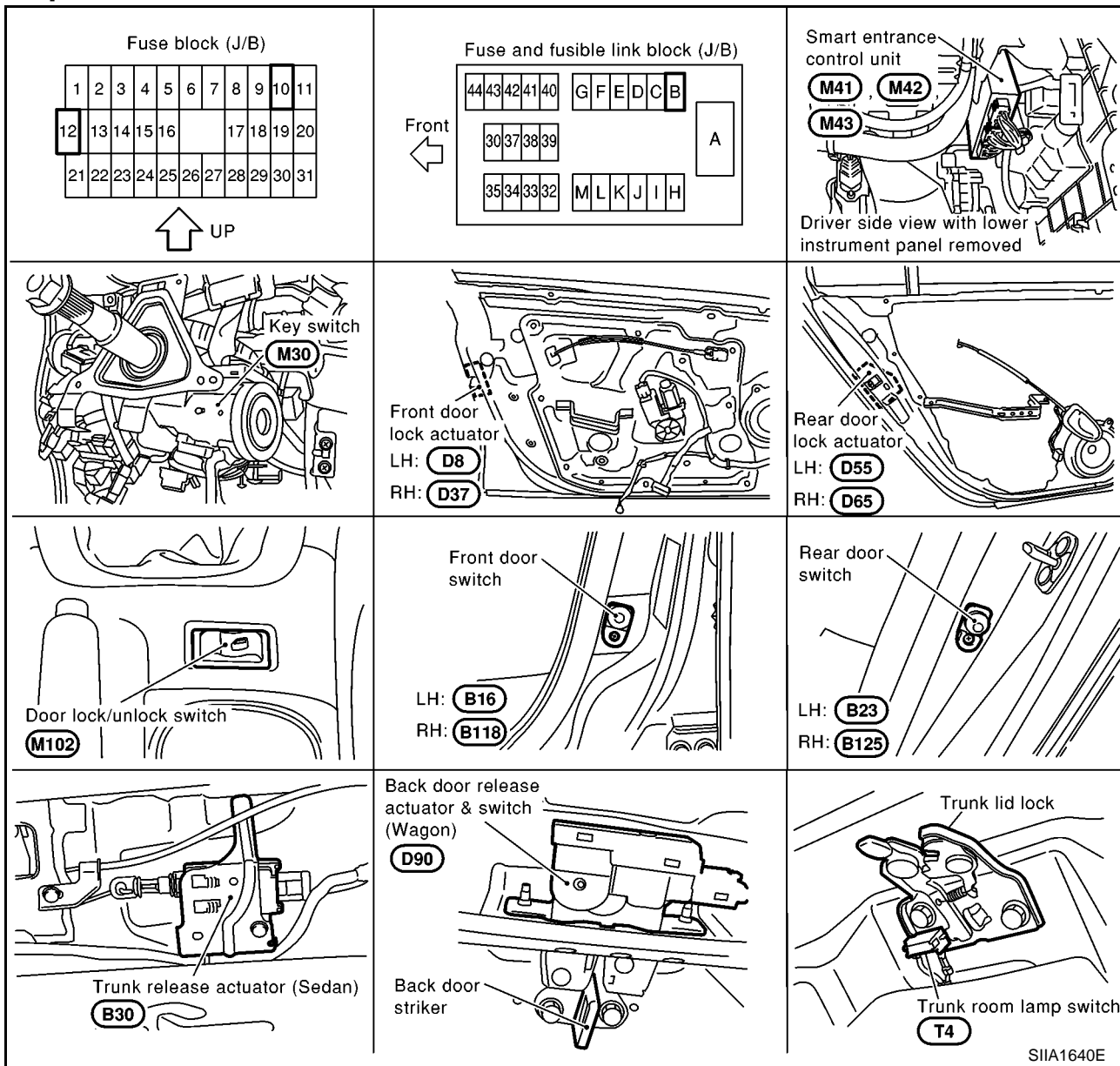
L

M

# POWER DOOR LOCK SYSTEM

## Component Parts and Harness Connector Location

EIS002JE

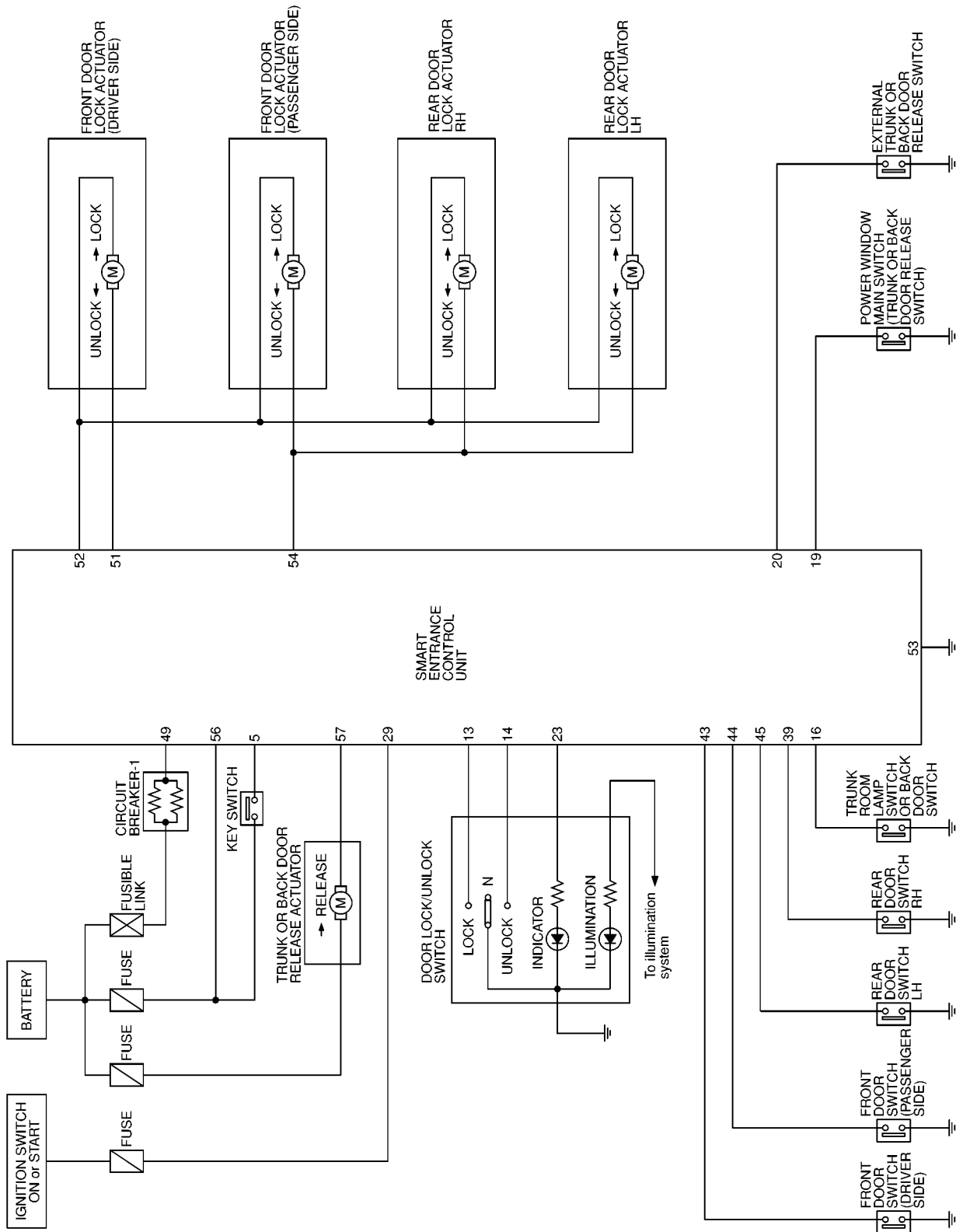


SIIA1640E

# POWER DOOR LOCK SYSTEM

## Schematic

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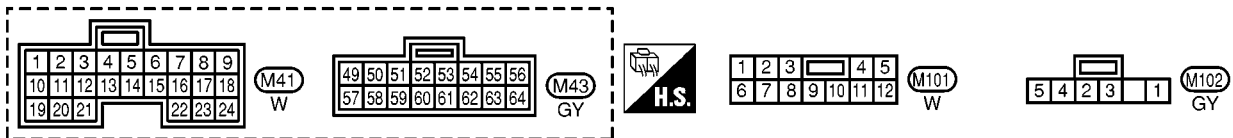
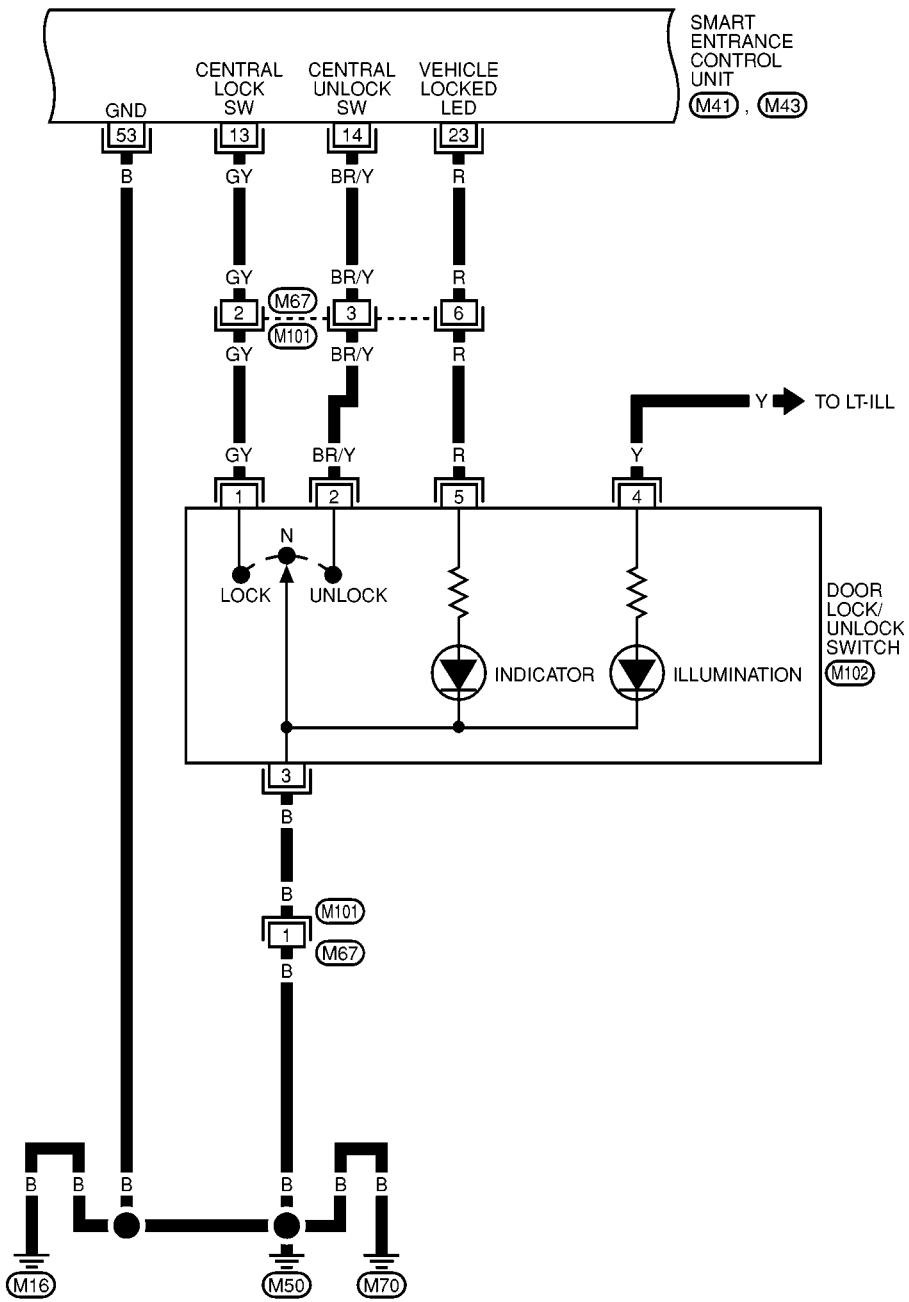
MKWA0094E





# POWER DOOR LOCK SYSTEM

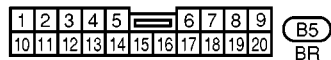
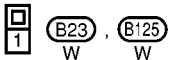
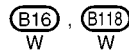
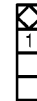
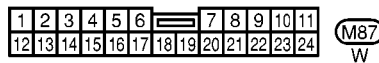
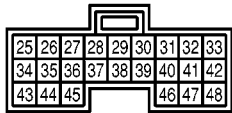
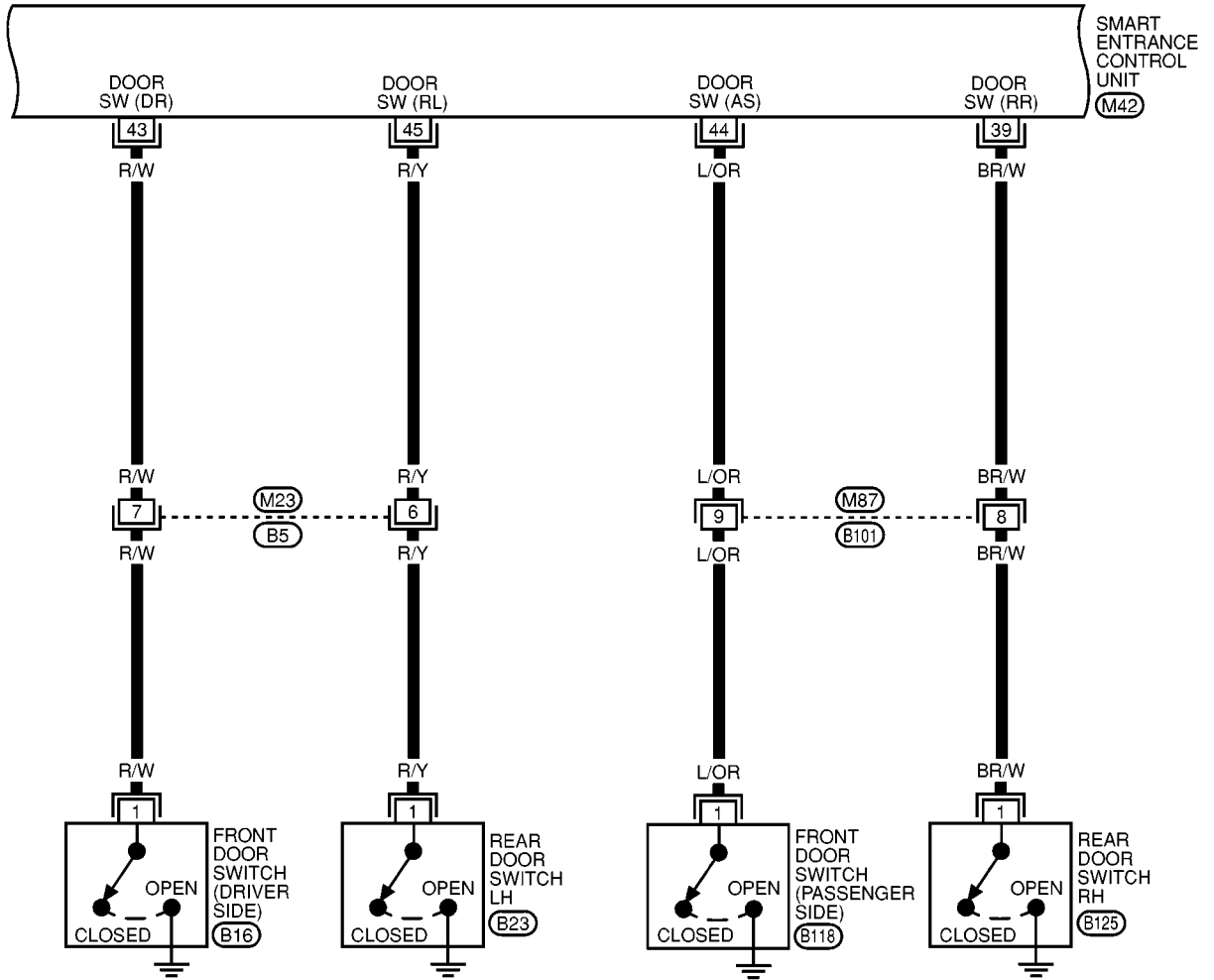
BL-D/LOCK-02



MKWA0096E

# POWER DOOR LOCK SYSTEM

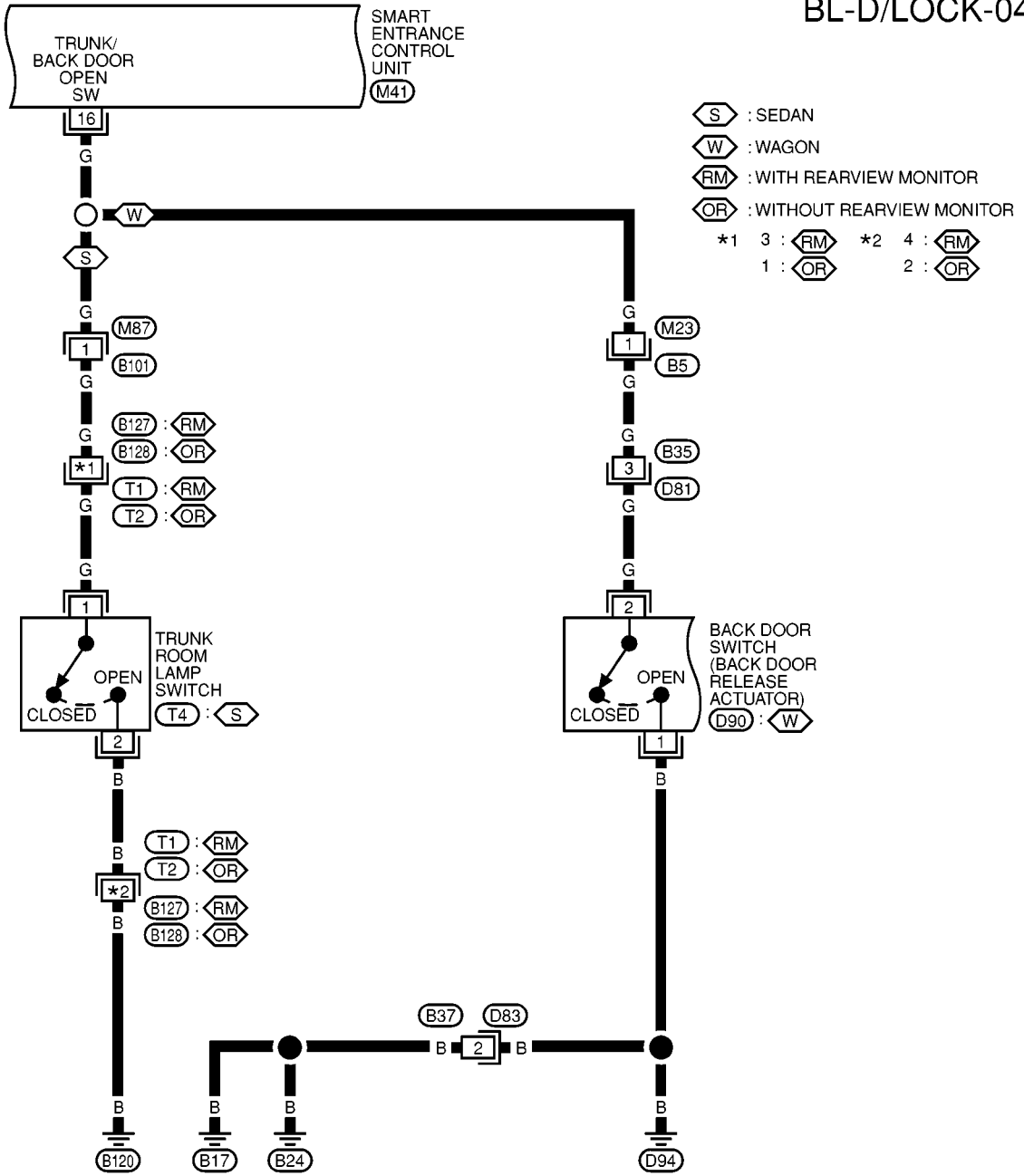
BL-D/LOCK-03



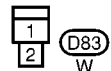
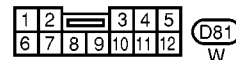
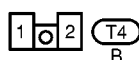
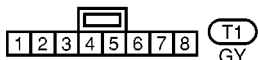
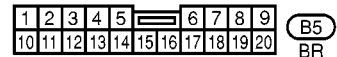
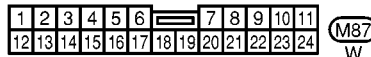
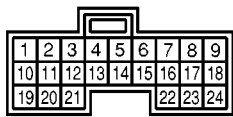
MKWA0097E

# POWER DOOR LOCK SYSTEM

BL-D/LOCK-04



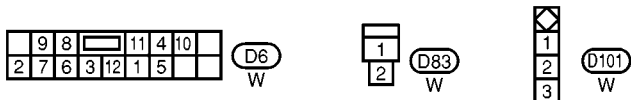
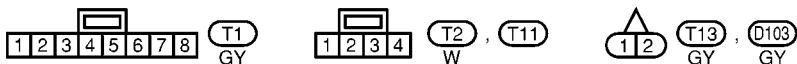
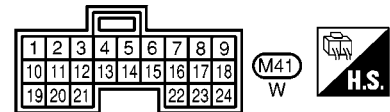
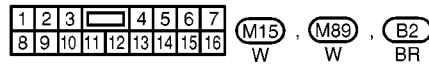
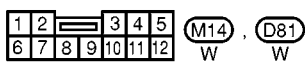
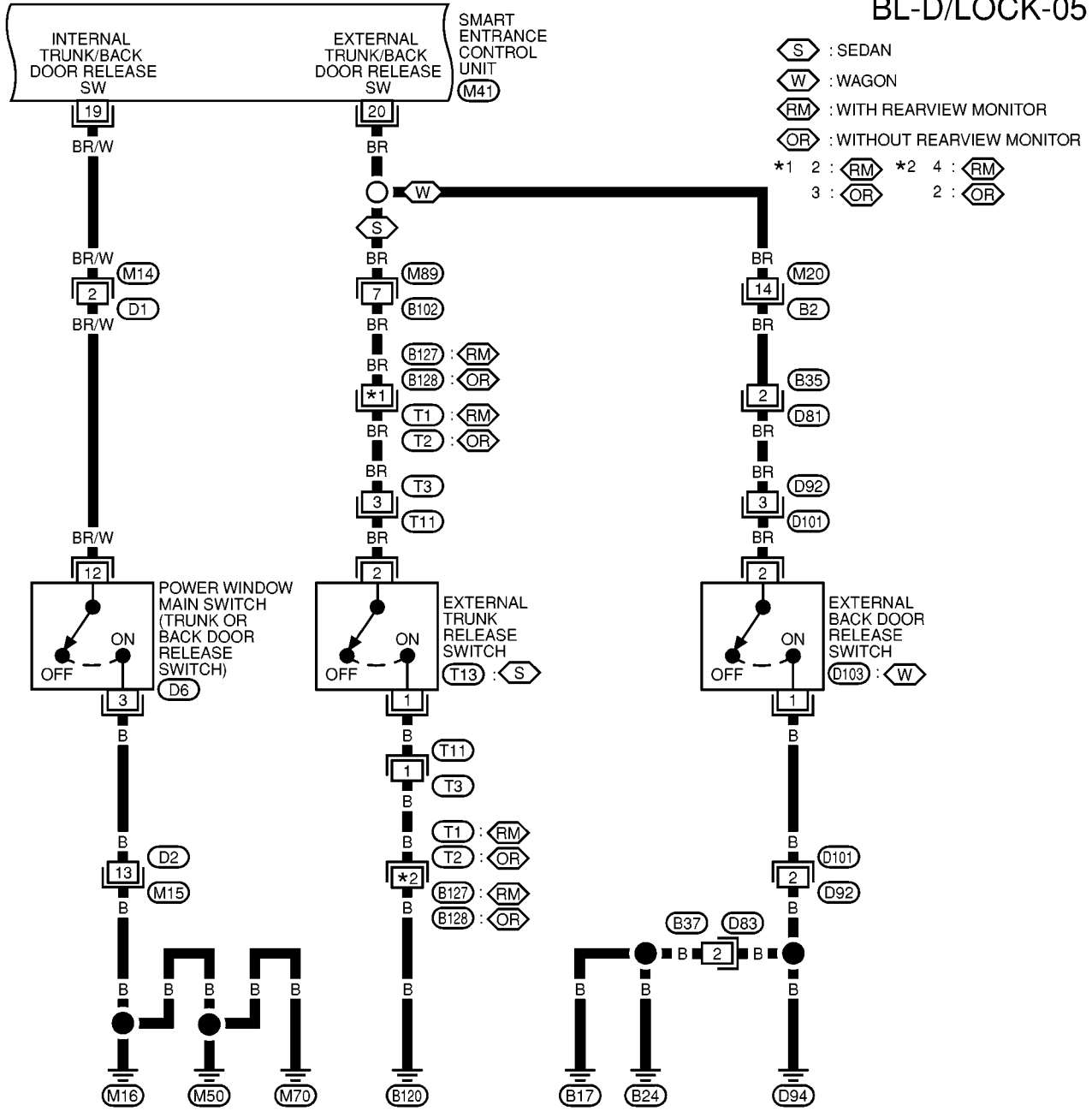
A  
B  
C  
D  
E  
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G  
H  
BL  
J  
K  
L  
M



MKWA0098E

# POWER DOOR LOCK SYSTEM

BL-D/LOCK-05

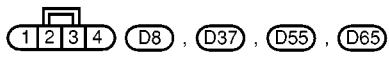
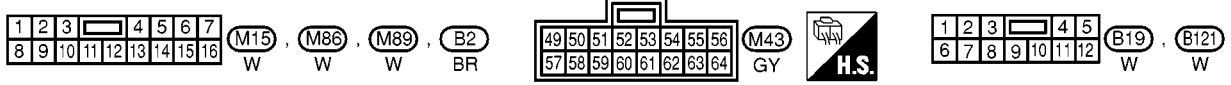
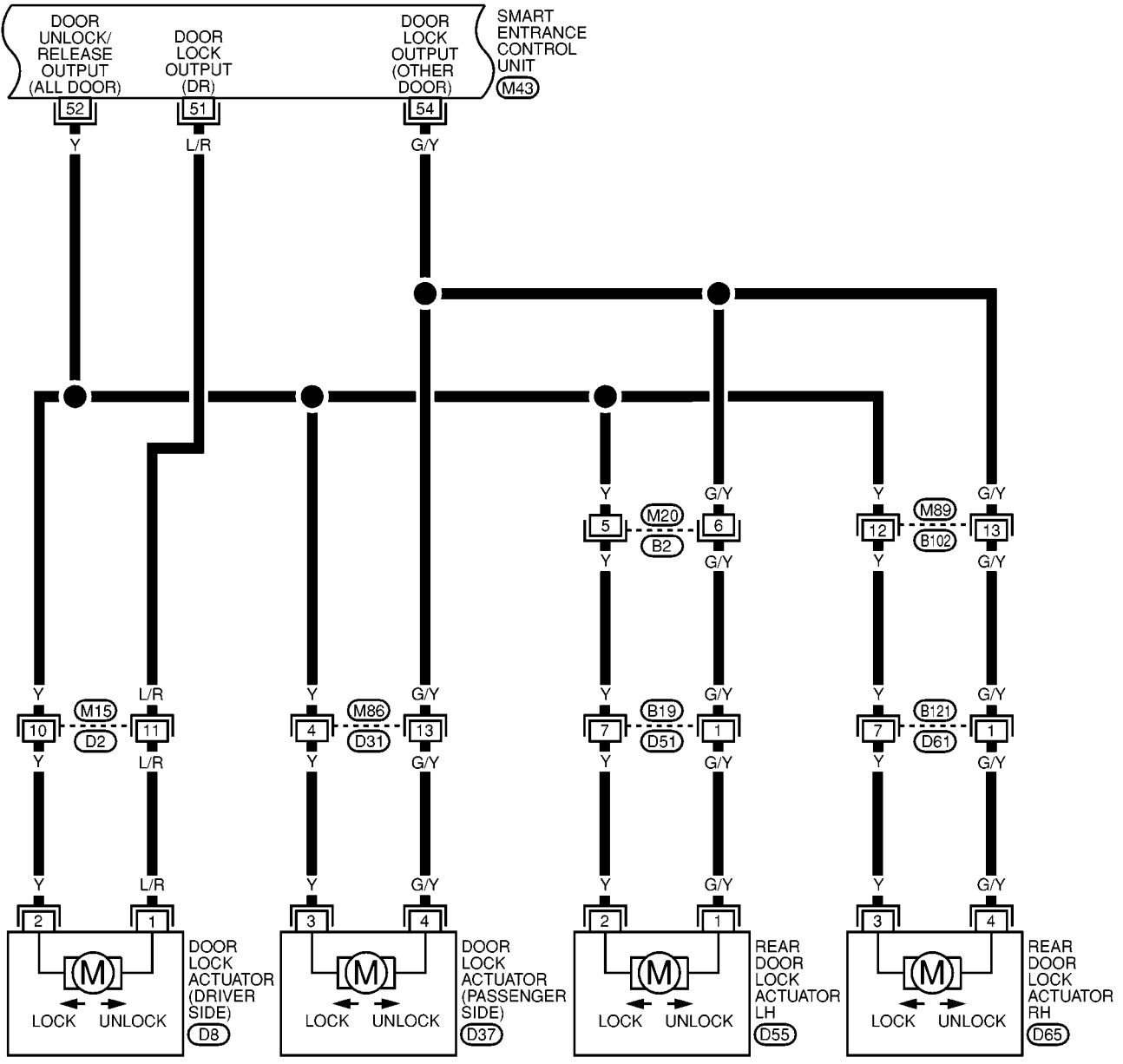


MKWA0099E

# POWER DOOR LOCK SYSTEM

BL-D/LOCK-06

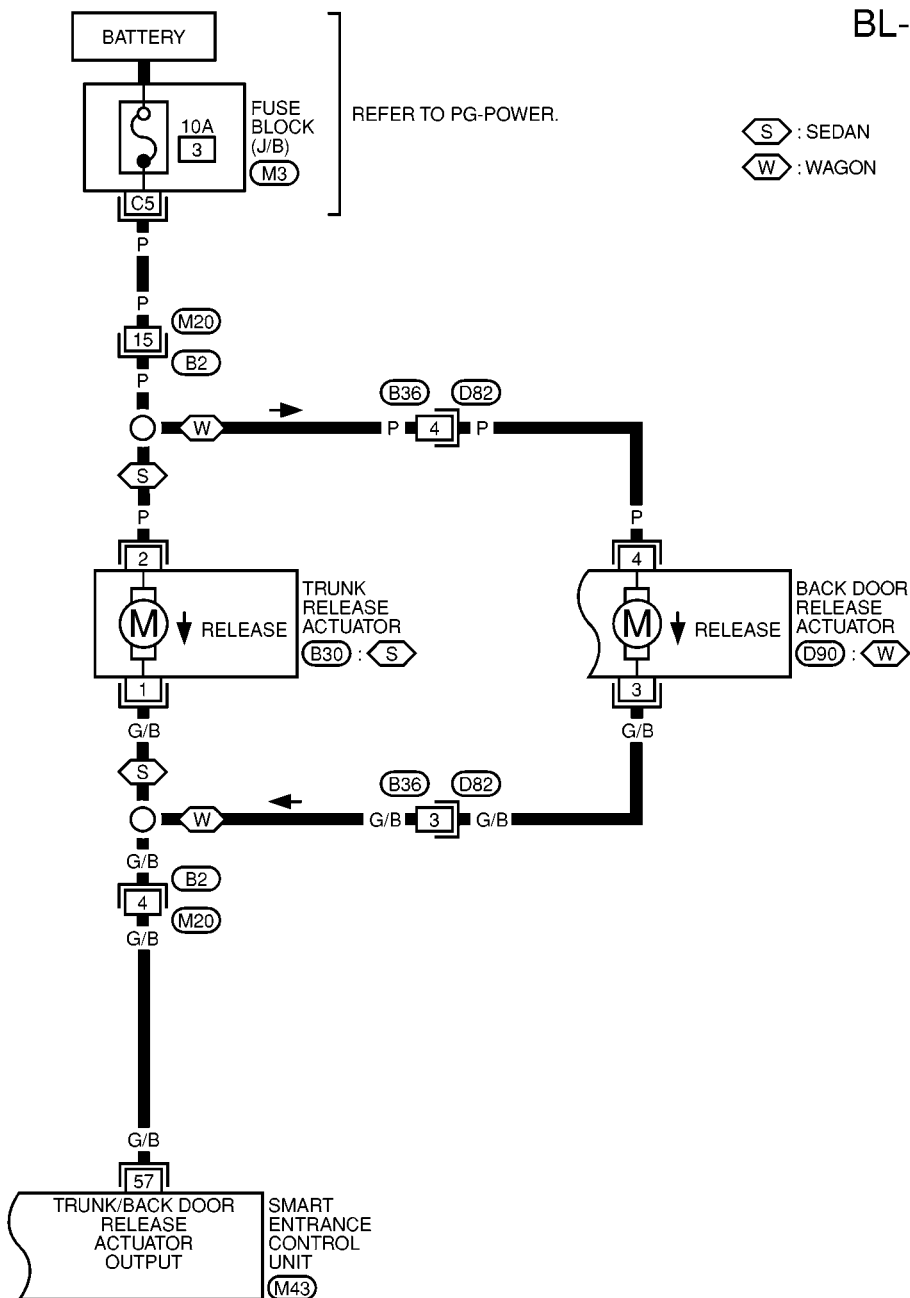
A  
B  
C  
D  
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G  
H  
BL  
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K  
L  
M



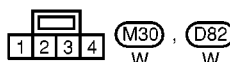
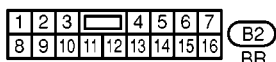
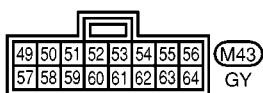
MKWA0100E

# POWER DOOR LOCK SYSTEM

BL-D/LOCK-07



S : SEDAN  
W : WAGON



REFER TO THE FOLLOWING.

M3 - FUSE BLOCK - JUNCTION BOX (J/B)



MKWA0101E

# POWER DOOR LOCK SYSTEM

## Terminal and Reference Value for Smart Entrance Control Unit

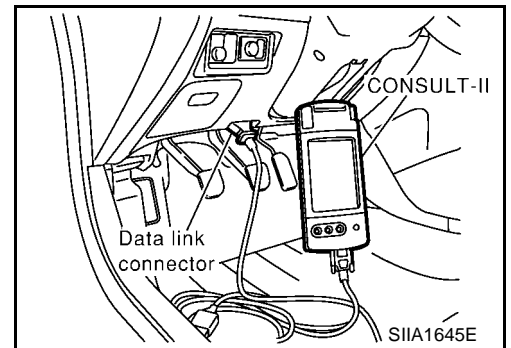
EIS002JH

TER-MINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (Approximate values)
5	B/R	Key switch	Key inserted (ON) → key removed from IGN key cylinder (OFF)	Battery voltage → 0V
13	GY	Door lock/unlock switch (Lock signal)	Lock operation (ON)	0V
			Other than above (OFF)	5V
14	BR/Y	Door lock/unlock switch (Unlock signal)	Unlock operation (ON)	0V
			Other than above (OFF)	5V
16	G	Trunk room lamp switch (Back door switch)	Trunk (Back door) open (ON) → close (OFF)	0V → Battery voltage
19	BR/W	External trunk or back door release switch	OFF → ON	5V → 0V
20	BR	Power window main switch (Trunk or back door release switch)	OFF → ON	5V → 0V
23	R	Door lock/unlock switch indicator	Goes OFF → Illuminates (Ignition switch ON and all door closed)	0V → Battery voltage
29	Y/G	IGN power supply	—	Battery voltage
39	BR/W	Rear door switch RH	Door open (ON) → close (OFF)	0V → Battery voltage
43	R/W	Driver door switch	Door open (ON) → close (OFF)	0V → Battery voltage
44	L/OR	Passenger door switch	Door open (ON) → close (OFF)	0V → Battery voltage
45	R/Y	Rear door switch LH	Door open (ON) → close (OFF)	0V → Battery voltage
49	W/L	Power source (PTC)	—	Battery voltage
51	L/R	Door lock actuator lock (ALL Doors)	Door lock/unlock switch LOCK operation	0V → 12V
52	Y	Door lock actuator unlock (Driver side)	Door lock/unlock switch Unlock operation	0V → 12V
53	B	Ground	—	0V
54	G/Y	Door lock actuator lock (Passenger and rear LH, RH side)	Door lock/unlock switch LOCK operation	0V → 12V
56	R/B	BAT power supply	—	Battery voltage
57	G/B	Trunk (Back door) release actuator	Power window main switch (Trunk or back door release switch) OPEN operation	Battery voltage → 0V

## CONSULT- II Inspection Procedure

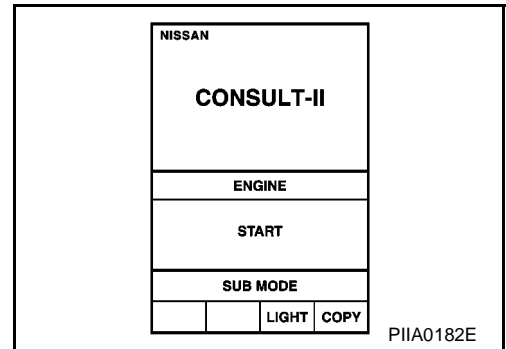
EIS002JI

1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.

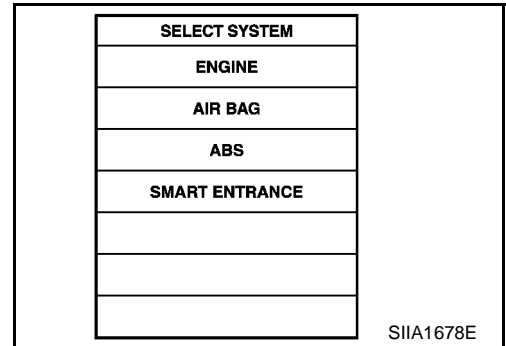


# POWER DOOR LOCK SYSTEM

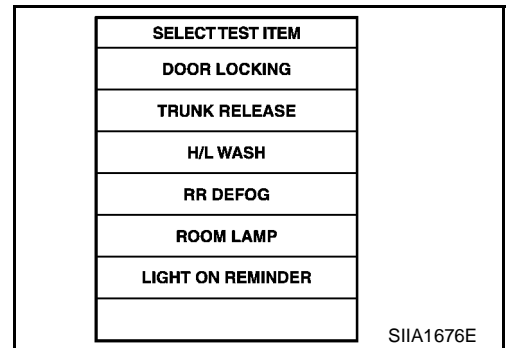
3. Turn ignition switch "ON".
4. Touch "START".



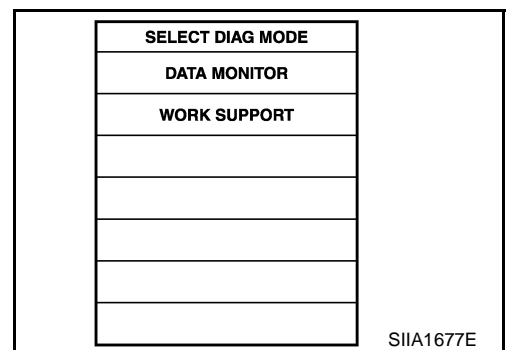
5. Touch "SMART ENTRANCE".



6. Touch "DOOR LOCKING" or "TRUNK RELEASE".



7. Select diagnosis mode.  
"DATA MONITOR" and "WORK SUPPORT" are available.





# POWER DOOR LOCK SYSTEM

## CONSULT- II Application Items DOOR LOCKING

EIS002JJ

### DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
KEY IN DETECT	Indicates [ON/OFF] condition of key switch.
DOOR SW DR RR	Indicates [ON/OFF] condition of rear door switch (driver side).
DOOR SW AS RR	Indicates [ON/OFF] condition of rear door switch (passenger side).
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/ unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/ unlock switch.
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.

### WORK SUPPORT

Monitored Item	Description
AUTO RE-LOCK	Auto re-lock function can be changed in this mode. The re-lock mode will be changed when "CHANGE MODE" on CONSULT-II screen is touched.
SELECTIVE UNLOCK	Selective unlock function can be changed in this mode. The unlock mode will be changed when "CHANGE SET" on CONSULT-II screen is touched.

## TRUNK RELEASE

### DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
INT TRUNK REL	Indicates [ON/OFF] condition of internal trunk release switch (sedan) or internal back door release switch (wagon).
EXT TRUNK REL	Indicates [ON/OFF] condition of external trunk release switch (sedan) or external back door release switch (wagon).
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (back door) open signal from trunk or back door release switch.

### WORK SUPPORT

Monitored Item	Description
TRUNK OPEN DELAY	This mode can be changed trunk release switch (sedan) or back door (wagon) release switch operation time.

## Trouble Diagnoses

EIS0020C

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-33, "CONSULT-II INSPECTION PROCEDURE"](#) .

### SYMPTOM CHART

Symptom	Malfunctioning system	Reference page
Power door lock does not operate using any switch	Power supply and ground circuit check	<a href="#">BL-26</a>
	Door lock actuator check	<a href="#">BL-28</a>
	If above systems are OK, replace smart entrance control unit.	—

# POWER DOOR LOCK SYSTEM

Symptom	Malfunctioning system	Reference page
Power door lock does not operate with lock/unlock switch.	Door lock/unlock switch check	<a href="#">BL-27</a>
	If above system is OK, replace smart entrance control unit.	—
Specific door lock actuator does not operate.	Door lock actuator check	<a href="#">BL-28</a>
*Key reminder system does not operate.	Door switch check	<a href="#">BL-32</a>
	Key switch check	<a href="#">BL-42</a>
	If above system is OK, replace smart entrance control unit.	—
Trunk or back door release actuator does not operate.	Trunk room lamp switch or back door switch check	<a href="#">BL-38</a>
	Trunk release actuator check (sedan)	<a href="#">BL-40</a>
	Back door release actuator check (wagon)	<a href="#">BL-41</a>
	If above system is OK, replace smart entrance control unit.	—

\*:Make sure the power door lock system operates properly.

## Power Supply and Ground Circuit Check

EIS002JL

### 1. CHECK POWER SUPPLY CIRCUIT

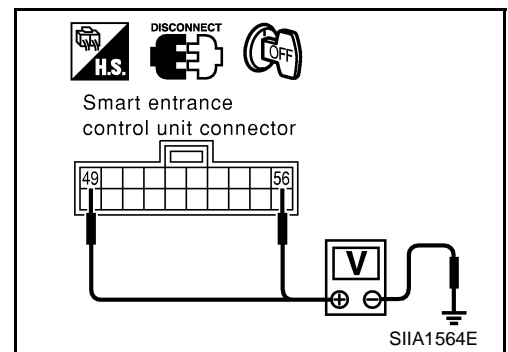
- Turn ignition switch OFF.
- Disconnect smart entrance control unit connector.
- Check voltage between smart entrance control unit harness connector M43 terminal 49(W/L), 56(R/B) and ground.

Terminal		Voltage
+	-	
49(W/L)	Ground	Battery voltage
56(R/B)		

OK or NG?

OK >> GO TO 2

NG >> Check smart entrance control unit power supply circuit for open or short.



### 2. CHECK GROUND CIRCUIT

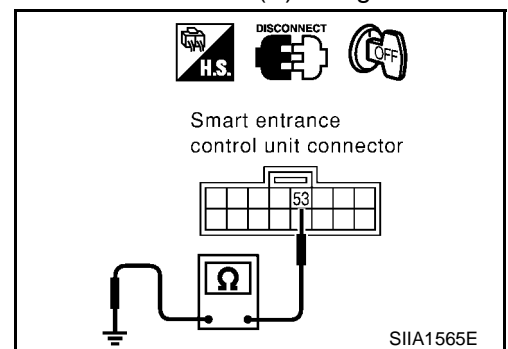
Check continuity between smart entrance control unit harness connector M43 terminal 53(B) and ground.

Terminal		Continuity
+	-	
53(B)	Ground	Yes

OK or NG?

OK >> Power supply and ground circuit is OK.

NG >> Check smart entrance control unit ground circuit for open or short.



# POWER DOOR LOCK SYSTEM

## Door Lock/Unlock Switch Check

EIS002JM

### 1. CHECK DOOR LOCK/UNLOCK SWITCH SIGNAL

With CONSULT- II

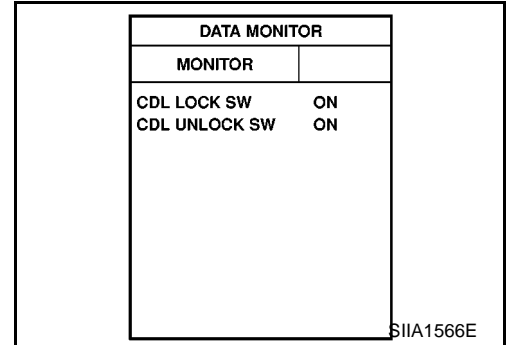
- Check door lock/unlock switch input signal (“CDL LOCK SW” “CDL UNLOCK SW”) in “DATA MONITOR” mode with CONSULT- II.

When door lock/unlock switch is turned to LOCK:

CDL LOCK SW ⇒ ON

When door lock/unlock switch is turned to UNLOCK:

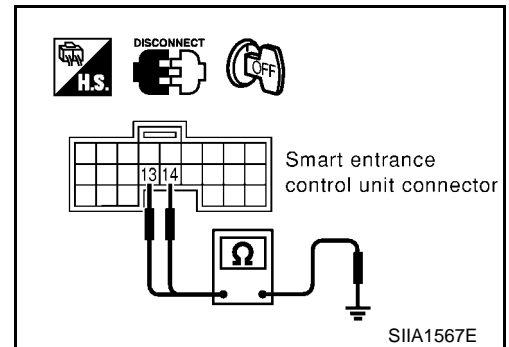
CDL UNLOCK SW ⇒ ON



Without CONSULT- II

- Disconnect smart entrance control unit harness connector.
- Check continuity between smart entrance control unit harness connector M91 terminal 13(GY), 14(BR/Y) and ground.

Terminals	Door lock/unlock switch operation	Continuity
13 – Ground	Lock position	Yes
	Neutral or Unlock position	No
14 – Ground	Unlock position	Yes
	Neutral or Lock position	No



OK or NG?

- OK >> Door lock/unlock switch is OK.
- NG >> GO TO 2

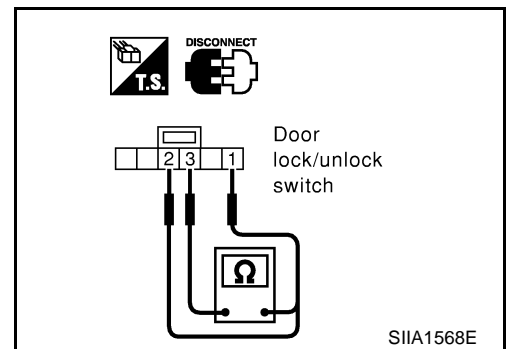
### 2. CHECK DOOR LOCK/UNLOCK SWITCH

- Disconnect door lock/unlock switch harness connector.
- Check continuity between door lock/unlock switch terminals 1, 2 and 3.

Terminals	Door lock/unlock switch operation	Continuity
1 – 3	Lock position	Yes
	Neutral or Unlock position	No
2 – 3	Unlock position	Yes
	Neutral or Lock position	No

OK or NG?

- OK >> Check the following.
  - Ground circuit for door lock/unlock switch
  - Harness for open or short between door lock/unlock switch and smart entrance control unit connector
- NG >> Replace power window main switch (door lock/unlock switch).



# POWER DOOR LOCK SYSTEM

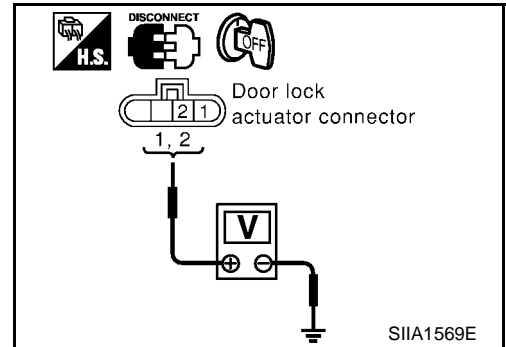
EIS00208

## Door Lock Actuator Check DRIVER SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect door lock actuator (driver side) harness connector.
2. Check voltage between door lock actuator harness connector D8 terminal 1(L/R), 2(Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	1(L/R)	Ground	Approx. 12
Unlock position	2(Y)	Ground	



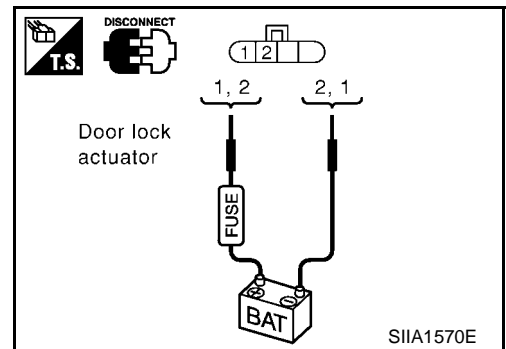
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect door lock actuator (driver side) harness connector.
2. Apply 12V direct current to door lock actuator and check operation.

Terminal		Door lock actuator operation
+	-	
1	2	Unlock → Lock
2	1	Lock → Unlock



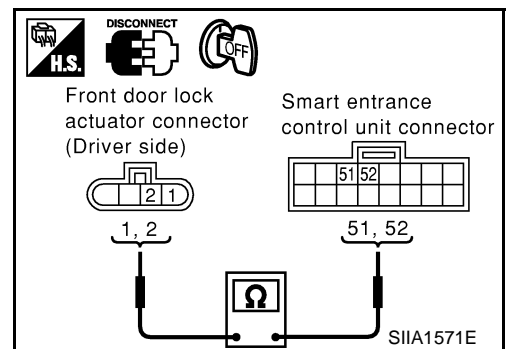
OK or NG?

- OK >> GO TO 3  
NG >> Replace door lock actuator (driver side).

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between door lock actuator (driver side) harness connector D8 terminal 1(L/R), 2(Y) and smart entrance control unit harness connector M43 terminal 51(L/R), 52(Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
1 (L/R)	51 (L/R)	Yes
2 (Y)	52 (Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and door lock actuator (driver side).

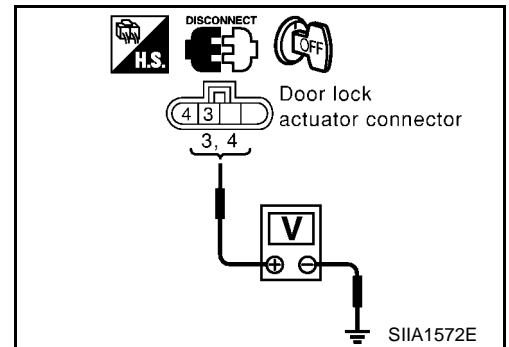
# POWER DOOR LOCK SYSTEM

## PASSENGER SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect door lock actuator (passenger side) harness connector.
2. Check voltage between door lock actuator harness connector D37 terminal 3(Y), 4(G/Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	4(G/Y)	Ground	Approx. 12
Unlock position	3(Y)	Ground	



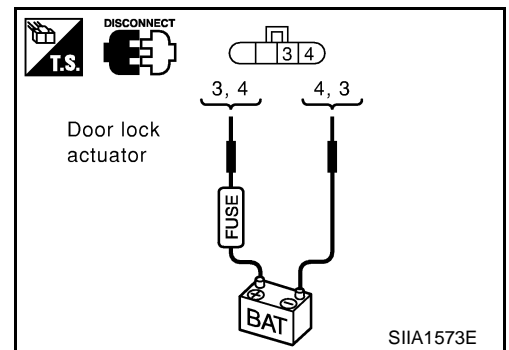
OK or NG?

- OK >> GO TO 2  
 NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect door lock actuator (passenger side) harness connector.
2. Apply 12V direct current to door lock actuator and check operation.

Terminal		Door lock actuator operation
+	-	
4	3	Unlock → Lock
3	4	Lock → Unlock



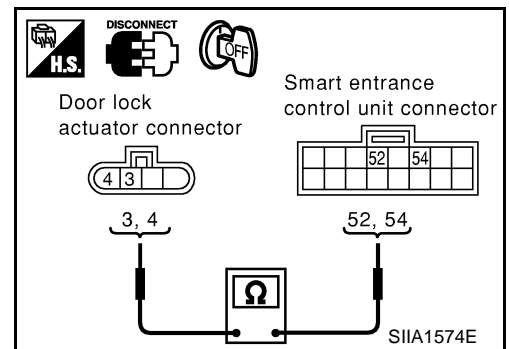
OK or NG?

- OK >> GO TO 4  
 NG >> Replace door lock actuator (passenger side).

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between door lock actuator (passenger side) harness connector D37 terminal 3(Y), 4(G/Y) and smart entrance control unit harness connector M43 terminal 52(Y), 54(G/Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
3 (Y)	52(Y)	Yes
4 (G/Y)	54(G/Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
 NG >> Check harness for open or short between smart entrance control unit and door lock actuator (passenger side).

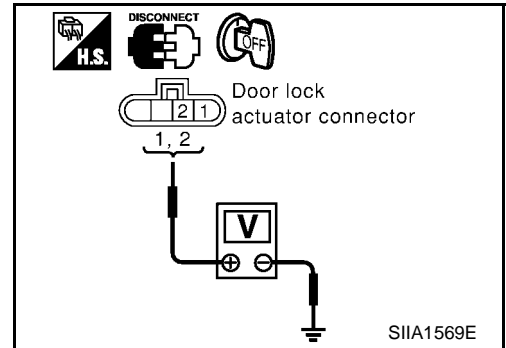
# POWER DOOR LOCK SYSTEM

## REAR LH SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect rear door lock actuator LH harness connector.
2. Check voltage between door lock actuator harness connector D55 terminal 1(G/Y), 2(Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	1(G/Y)	Ground	Approx. 12
Unlock position	2(Y)	Ground	



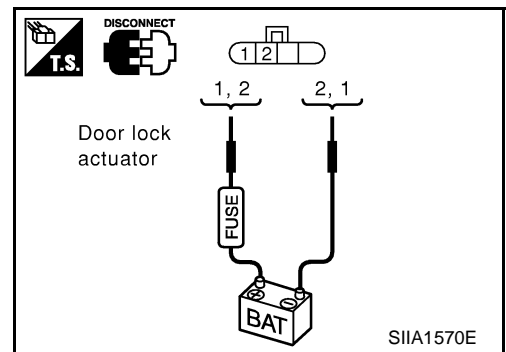
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect rear door lock actuator LH harness connector.
2. Apply 12V direct current to rear door lock actuator LH and check operation.

Terminal		Door lock actuator operation
+	-	
1	2	Unlock → Lock
2	1	Lock → Unlock



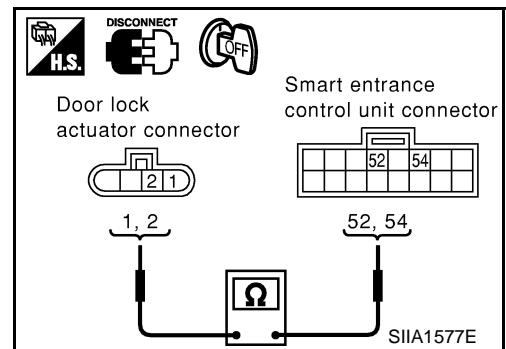
OK or NG?

- OK >> GO TO 3  
NG >> Replace rear door lock actuator LH.

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator LH harness connector D55 terminal 1(G/Y), 2(Y) and smart entrance control unit harness connector M43 terminal 52(Y), 54(G/Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
1 (G/Y)	54 (G/Y)	Yes
2 (Y)	52 (Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and rear door lock actuator LH.

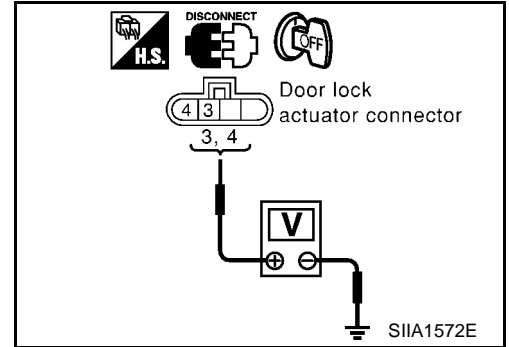
# POWER DOOR LOCK SYSTEM

## REAR RH SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect rear door lock actuator RH harness connector.
2. Check voltage between rear door lock actuator RH harness connector D65 terminal 3(Y), 4(G/Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	4(G/Y)	Ground	Approx. 12
Unlock position	3(Y)	Ground	



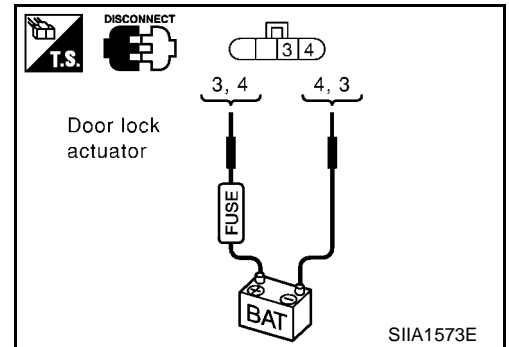
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect rear door lock actuator RH harness connector.
2. Apply 12V direct current to rear door lock actuator RH and check operation.

Terminal		Door lock actuator operation
+	-	
4	3	Unlock → Lock
3	4	Lock → Unlock



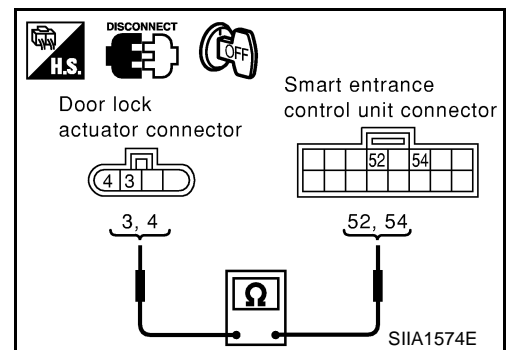
OK or NG?

- OK >> GO TO 4  
NG >> Replace rear door lock actuator RH.

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator RH harness connector D65 terminal 3(Y), 4(G/Y) and smart entrance control unit harness connector M43 terminal 52(Y), 54(G/Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
3 (Y)	52(Y)	Yes
4 (G/Y)	54(G/Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and rear door lock actuator RH.

# POWER DOOR LOCK SYSTEM

EIS00209

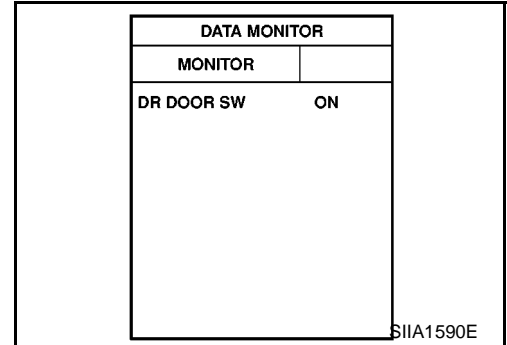
## Door Switch Check DRIVER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch "DR DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

	Monitor item	Condition
DR DOOR SW	Front door switch LH	Open: ON
		Close: OFF



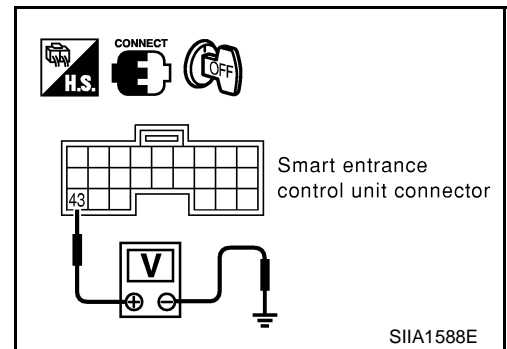
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 43(R/W) and ground.

Terminal		Front door LH	Voltage
(+)	(-)		
43(R/W)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2



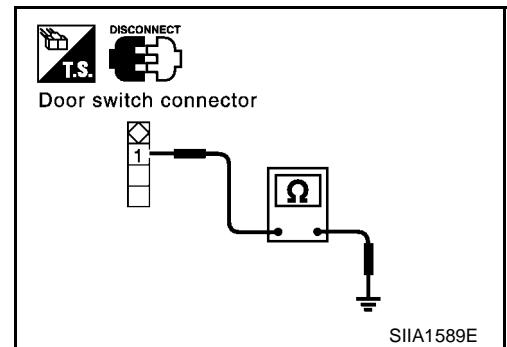
### 2. CHECK DOOR SWITCH

Check continuity between front door switch LH harness connector B16 terminal 1(R/W) and ground.

Terminal		Front door LH switch	Continuity
(+)	(-)		
1(R/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Front door switch LH ground condition
  - Harness for open or short between smart entrance control unit and front door switch LH
- NG >> Replace front door switch LH.





# POWER DOOR LOCK SYSTEM

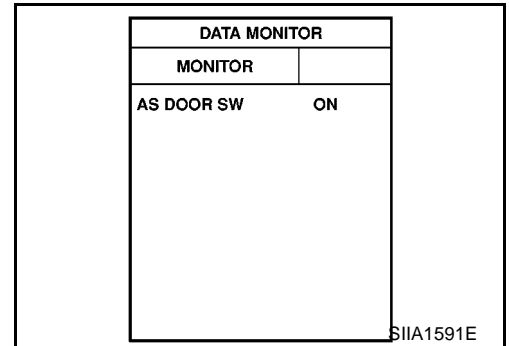
## PASSENGER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch "AS DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

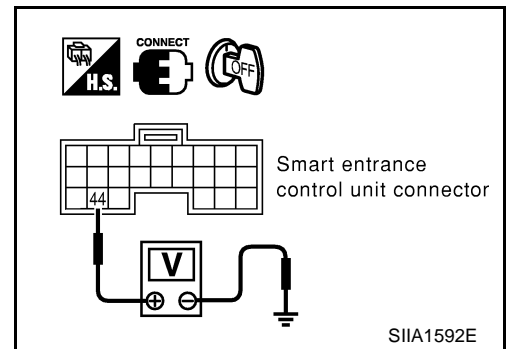
	Monitor item	Condition
AS DOOR SW	Front door switch RH	Open: ON
		Close: OFF



⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 44(L/OR) and ground.

Terminal		Front door RH	Voltage
(+)	(-)		
44(L/OR)	Ground	Closed	Approx. 5
		Open	0



OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2

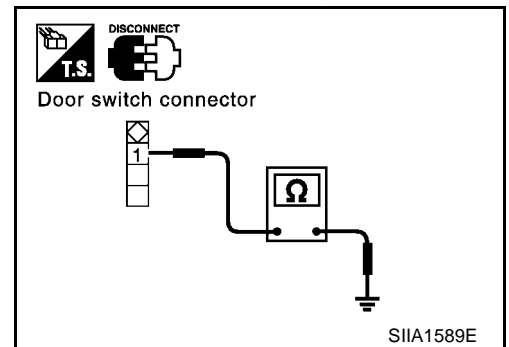
### 2. CHECK DOOR SWITCH

Check continuity between front door switch RH harness connector B118 terminal 1(L/OR) and ground.

Terminal		Front door RH switch	Continuity
(+)	(-)		
1(L/OR)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
  - Front door switch RH ground condition
  - Harness for open or short between smart entrance control unit and front door switch RH
- NG >> Replace front door switch RH.



# POWER DOOR LOCK SYSTEM

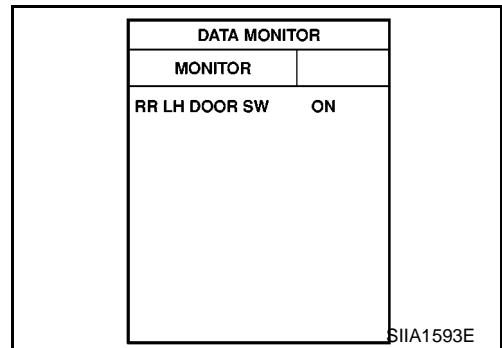
## REAR LH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch "RR LH DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

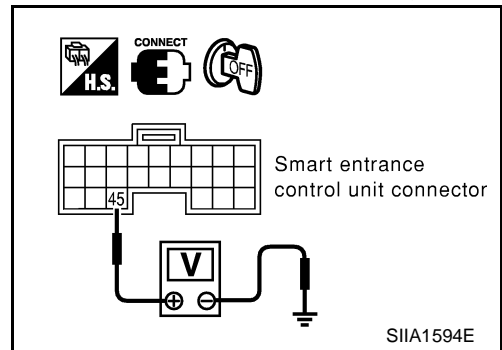
	Monitor item	Condition
RR LH DOOR SW	Rear door switch LH	Open: ON
		Close: OFF



⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 45(R/Y) and ground.

Terminal		Rear door LH	Voltage
(+)	(-)		
45(R/Y)	Ground	Closed	Approx. 5
		Open	0



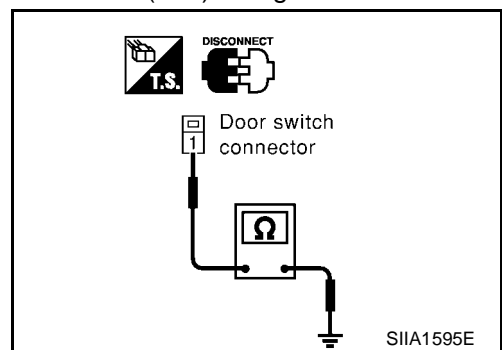
OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2

### 2. CHECK DOOR SWITCH

Check continuity between rear door switch LH harness connector B23 terminal 1(R/Y) and ground.

Terminal		Rear door LH switch	Continuity
(+)	(-)		
1(R/Y)	Ground	Pushed	No
		Released	Yes



OK or NG?

- OK >> Check the following.
  - Rear door switch LH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch LH
- NG >> Replace rear door switch LH.

# POWER DOOR LOCK SYSTEM

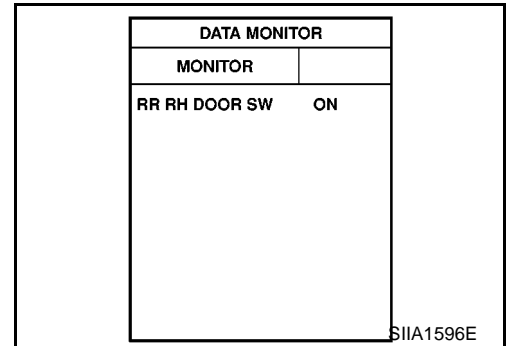
## REAR RH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch "RR RH DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

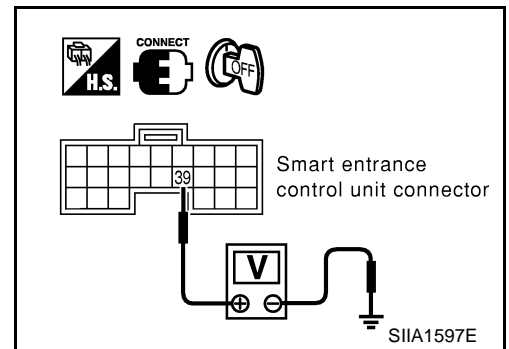
	Monitor item	Condition
RR RH DOOR SW	Rear door switch RH	Open: ON
		Close: OFF



⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 39(BR/W) and ground.

Terminal		Rear door RH	Voltage
(+)	(-)		
39(BR/W)	Ground	Closed	Approx. 5
		Open	0



OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2

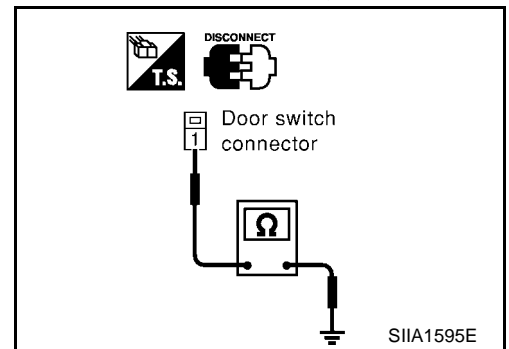
### 2. CHECK DOOR SWITCH

Check continuity between rear door switch RH harness connector B125 terminal 1(BR/W) and ground.

Terminal		Rear door RH switch	Continuity
(+)	(-)		
1(BR/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
  - Rear door switch RH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch RH
- NG >> Replace rear door switch RH.



# POWER DOOR LOCK SYSTEM

EIS0020B

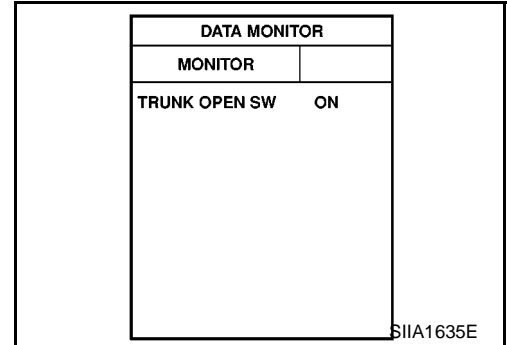
## Trunk Room Lamp Switch or Back Door Switch Check TRUNK ROOM LAMP SWITCH

### 1. CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

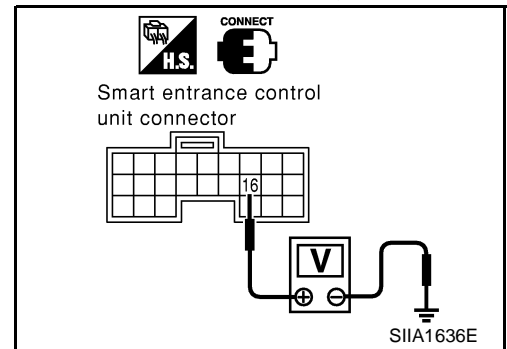
	Monitor item	Condition
TRUNK OPEN SW	Trunk room lamp switch	Open: ON
		Close: OFF



⊗ Without CONSULT- II

Check voltage between smart entrance control unit harness connector M41 terminal 16(G) and ground.

Terminal		Trunk lid	Voltage
(+)	(-)		
16(G)	Ground	Closed	Approx. 5
		Open	0



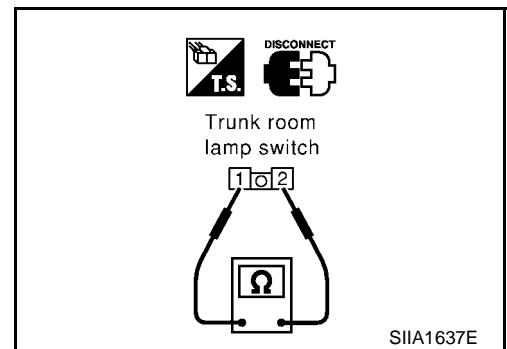
OK or NG?

- OK >> Trunk room lamp switch is OK.
- NG >> GO TO 2

### 2. CHECK TRUNK ROOM LAMP SWITCH

Check continuity between trunk room lamp switch terminals 1 and 2.

Terminal	Trunk lid condition	Continuity
1 - 2	Opened	Yes
	Closed	No



OK or NG?

- OK >> Check the following.
  - Trunk room lamp switch ground circuit
  - Harness for open or short between smart entrance control unit and trunk room lamp switch
- NG >> Replace trunk room lamp switch.

# POWER DOOR LOCK SYSTEM

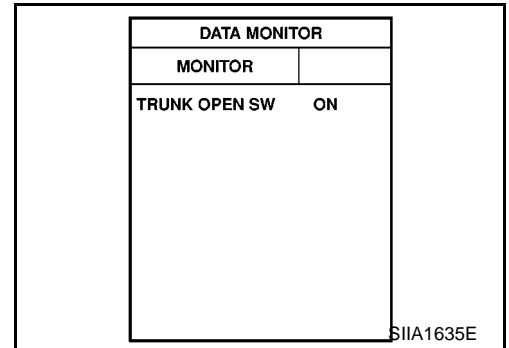
## BACK DOOR SWITCH

### 1. CHECK BACK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

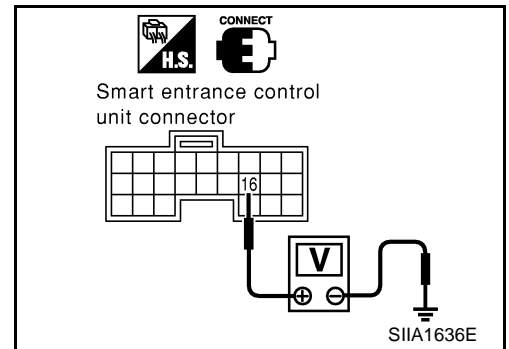
	Monitor item	Condition
TRUNK OPEN SW	Back door switch	Open: ON
		Close: OFF



⊗ Without CONSULT- II

Check voltage between smart entrance control unit harness connector M41 terminal 16(G) and ground.

Terminal		Back door	Voltage
(+)	(-)		
16(G)	Ground	Closed	Approx. 5
		Open	0



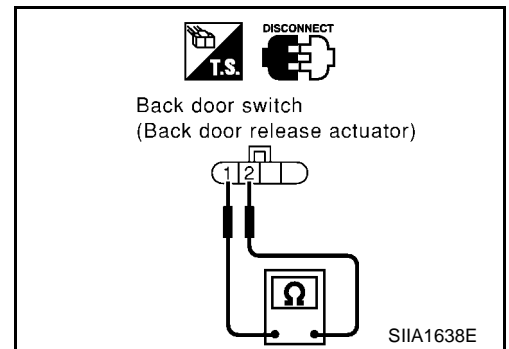
OK or NG?

- OK >> Back door switch is OK.
- NG >> GO TO 2

### 2. CHECK BACK DOOR SWITCH

Check continuity between back door switch (back door release actuator) terminals 1 and 2.

Terminal	Back door condition	Continuity
1 - 2	Opened	Yes
	Closed	No



OK or NG?

- OK >> Check the following.
  - Back door switch (back door release actuator) ground circuit
  - Harness for open or short between smart entrance control unit and back door switch (back door release actuator)
- NG >> Replace back door switch (back door release actuator).

# POWER DOOR LOCK SYSTEM

EIS0020A

## Trunk or Back Door Release Switch Check EXTERNAL SWITCH

### 1. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

④ With CONSULT-II

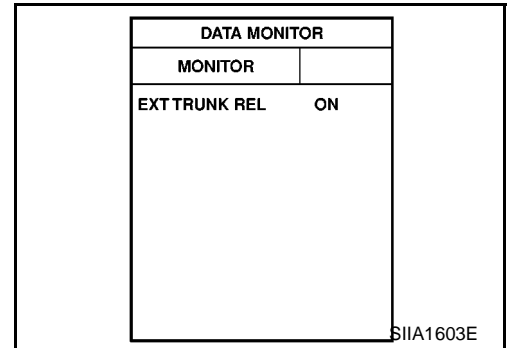
- Check external trunk or back door release switch input signal "EXT TRUNK REL" in "DATA MONITOR" mode with CONSULT- II.

**Release switch is pushed (open):**

**EXT TRUNK REL ON**

**Release switch is released (close):**

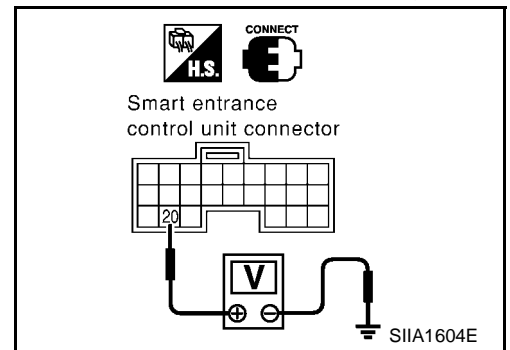
**EXT TRUNK REL OFF**



⊗ Without CONSULT- II

- Check voltage between smart entrance control unit harness connector M41 terminal 20(B/R) and ground.

Terminals		Release switch	Voltage (Approximate values)
+	-		
20(B/R)	Ground	Pushed	0V
		Released	5V



OK or NG?

- OK >> Trunk or back door release switch is OK.
- NG >> GO TO 2

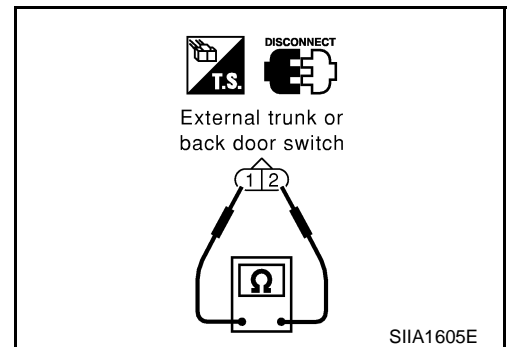
### 2. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH

1. Disconnect external trunk or back door release switch connector.
2. Check continuity between external trunk or back door release switch terminals 1 and 2.

Terminals	Release switch	Continuity
1 - 2	Pushed	Yes
	Released	No

OK or NG?

- OK >> Check the following.
  - Harness for open or short between external trunk or back door release switch and smart entrance control unit
  - External trunk or back door release switch ground circuit
- NG >> Replace external trunk or back door release switch.



# POWER DOOR LOCK SYSTEM

## POWER WINDOW MAIN SWITCH (INTERNAL TRUNK RELEASE SWITCH)

### 1. CHECK TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

Ⓟ With CONSULT-II

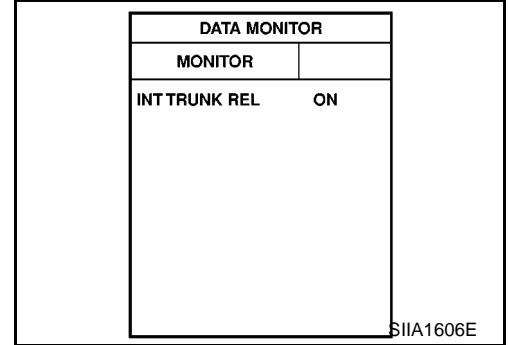
- Check trunk or back door release switch input signal "INT TRUNK REL" in "DATA MONITOR" mode with CONSULT- II.

Release switch is pushed (open):

INT TRUNK REL ON

Release switch is released (close):

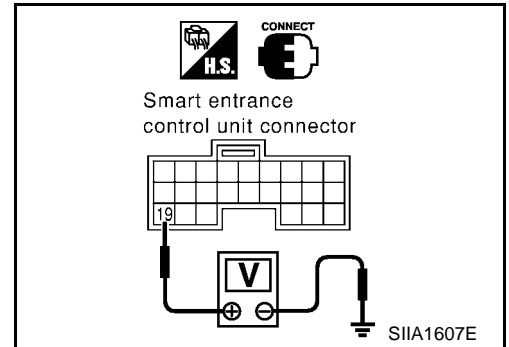
INT TRUNK REL OFF



⊗ Without CONSULT- II

- Check voltage between smart entrance control unit harness connector M41 terminal 19(BR/W) and ground.

Terminals		Release switch	Voltage (Approximate values)
+	-		
19(BR/W)	Ground	Pushed	0V
		Released	5V



OK or NG?

OK >> Trunk or back door release switch is OK.

NG >> GO TO 2

### 2. CHECK TRUNK OR BACK DOOR RELEASE SWITCH

1. Disconnect power window main switch (trunk or back door release switch) connector.
2. Check continuity between power window main switch (trunk or back door release switch) terminals 3 and 12.

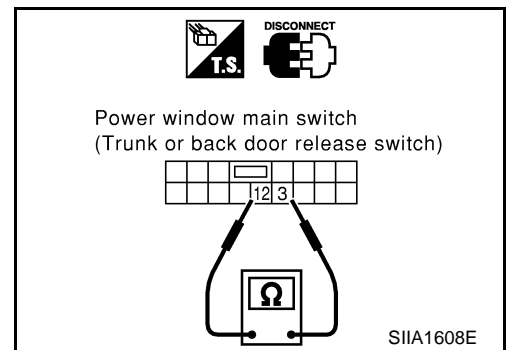
Terminals	Release switch	Continuity
3-12	Pushed	Yes
	Released	No

OK or NG?

OK >> Check the following.

- Harness for open or short between power window main switch (trunk or back door release switch) and smart entrance control unit
- Power window main switch (trunk or back door release switch) ground circuit

NG >> Replace power window main switch (trunk or back door release switch).



# POWER DOOR LOCK SYSTEM

EIS002NI

## Trunk Release Actuator Check (Sedan)

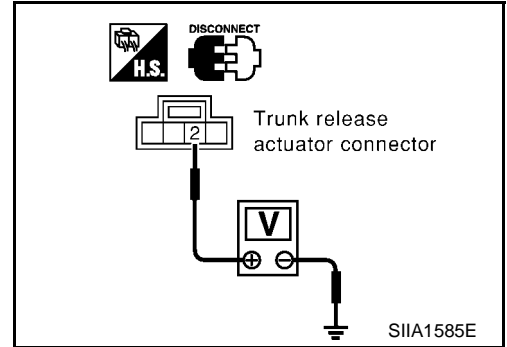
### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect trunk release actuator harness connector.
3. Check voltage between trunk release harness connector D90 terminal 2(P) and ground.

Terminal		Voltage
+	-	
2(P)	Ground	Battery voltage

OK or NG?

- OK >> GO TO 2  
 NG >> Check trunk release actuator power supply circuit for open or short.



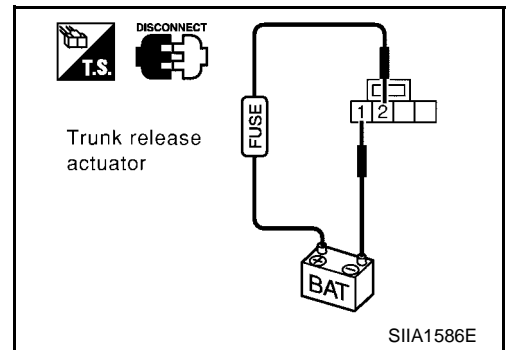
### 2. CHECK TRUNK RELEASE ACTUATOR

1. Disconnect back door release actuator harness connector.
2. Apply 12V direct current to trunk release actuator and check operation.

Terminal		Trunk release actuator operation
+	-	
2	1	Lock → Release

OK or NG?

- OK >> GO TO 3  
 NG >> Replace trunk release actuator.



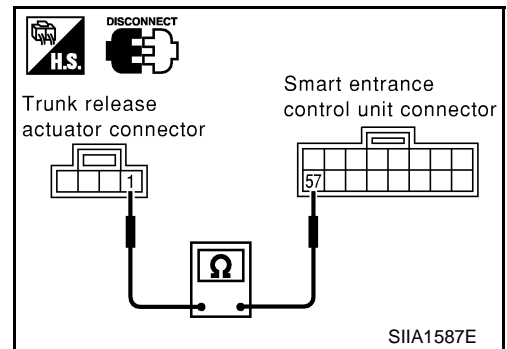
### 3. CHECK TRUNK RELEASE ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between trunk release actuator harness connector D90 terminal 1(G/B) and smart entrance control unit harness connector M43 terminal 57(G/B).

Terminal		Continuity
Trunk release actuator	Smart entrance control unit	
1(G/B)	57(G/B)	Yes

OK or NG?

- OK >> Replace smart entrance control unit.  
 NG >> Check harness for open or short between smart entrance control unit and trunk release actuator.





# POWER DOOR LOCK SYSTEM

EIS002JS

## Back Door Release Actuator Check (Wagon)

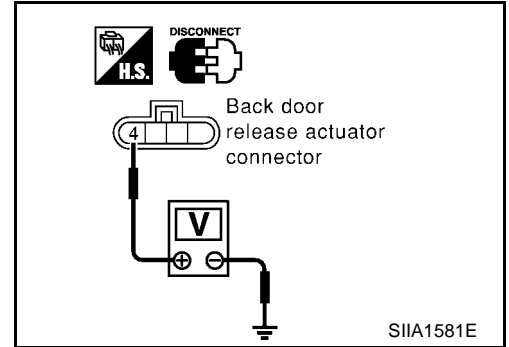
### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect back door release actuator harness connector.
3. Check voltage between back door release actuator harness connector B30 terminal 4(P) and ground.

Terminal		Voltage
+	-	
4(P)	Ground	Battery voltage

OK or NG?

- OK >> GO TO 2  
 NG >> Check back door release actuator power supply circuit for open or short.



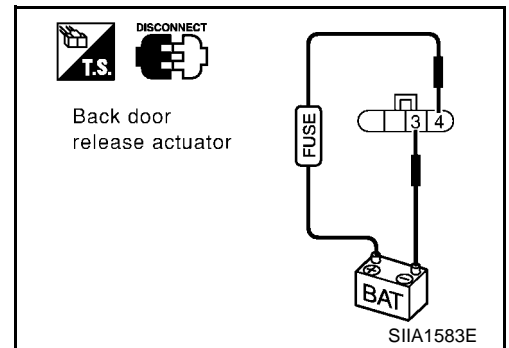
### 2. CHECK BACK DOOR RELEASE ACTUATOR

1. Disconnect back door release actuator harness connector.
2. Apply 12V direct current to back door release actuator and check operation.

Terminal		Back door release actuator operation
+	-	
4	3	Lock → Release

OK or NG?

- OK >> GO TO 3  
 NG >> Replace back door lock actuator.



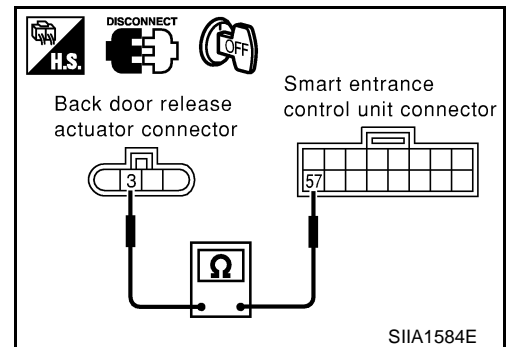
### 3. CHECK BACK DOOR RELEASE ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between back door release actuator harness connector B30 terminal 3(G/B) and smart entrance control unit harness connector M43 terminal 57(G/B).

Terminal		Continuity
Back door release actuator	Smart entrance control unit	
3(G/B)	57(G/B)	Yes

OK or NG?

- OK >> Replace smart entrance control unit.  
 NG >> Check harness for open or short between smart entrance control unit and back door release actuator.



# POWER DOOR LOCK SYSTEM

EIS002NN

## Key Switch Check

### 1. CHECK KEY SWITCH INPUT SIGNAL

① With CONSULT-II

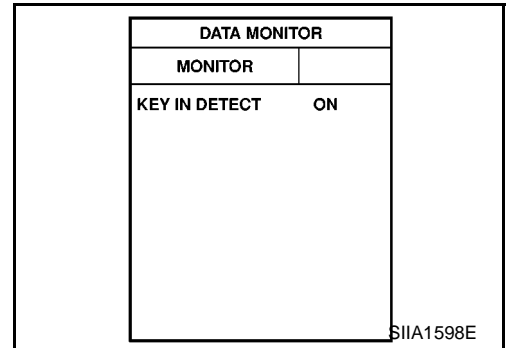
- Check key switch input signal "KEY IN DETECT" in "DATA MONITOR" mode with CONSULT- II.

**When key is inserted in ignition key cylinder:**

**KEY IN DETECT ⇒ ON**

**When key is removed from ignition key cylinder:**

**KEY IN DETECT ⇒ OFF**



⊗ Without CONSULT- II

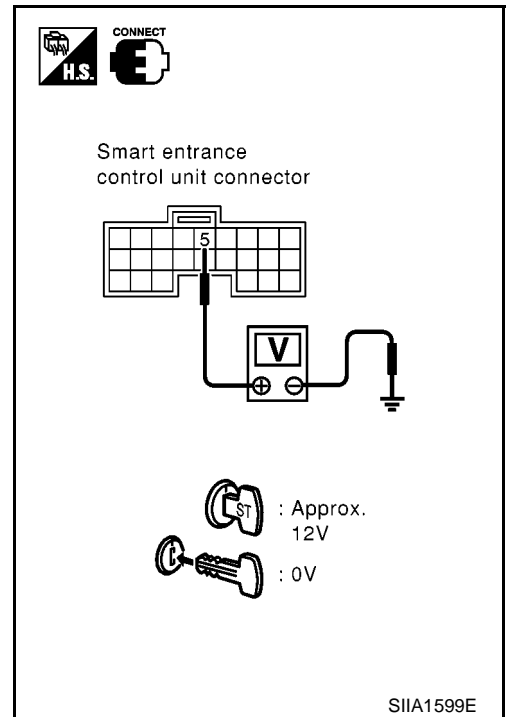
- Check voltage between smart entrance control unit harness connector M41 terminal 5(B/R) and ground.

Terminals		Key switch	Voltage
+	-		
5(B/R)	Ground	Key is inserted	Approx. 12
		Key is removed	0

OK or NG?

OK >> Key switch is OK.

NG >> GO TO 2



# POWER DOOR LOCK SYSTEM

## 2. CHECK KEY SWITCH (INSERT)

1. Disconnect key switch connector.
2. Check continuity between key switch terminals 1 and 2.

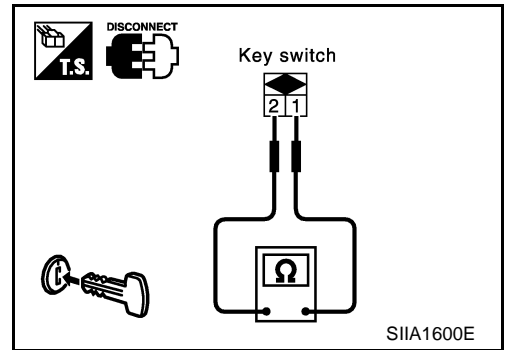
Terminals	Key switch	Continuity
1 - 2	Key is inserted	Yes
	Key is removed	No

OK or NG?

OK >> Check the following.

- 10A fuse [No. 12, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse
- Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



A  
B  
C  
D  
E  
F  
G  
H  
BL  
J  
K  
L  
M

**POWER DOOR LOCK — SUPER LOCK —**

PFP:24814

**System Description  
OUTLINE**

EIS002JW

Power door lock system with super lock and key reminder is controlled by smart entrance control unit. Super lock has a higher anti-theft performance than conventional power door lock systems. When super lock is in released condition, lock knob operation locks or unlocks door. When super lock is in set condition, lock knob operation cannot lock nor unlock door.

**OPERATION**

**Power door lock/unlock and super lock set/release operation by door key cylinder**

- With the key inserted into driver door key cylinder, turning it to LOCK will lock all doors and set super lock. (Super lock will not be set while key is inserted in the ignition key cylinder.)
- With the key inserted into driver door key cylinder, turning it to UNLOCK will unlock all doors and release super lock.

**Power door lock/unlock and super lock set/release operation by remote controller (If equipped)**

- Pressing remote controller LOCK button will lock all doors and set super lock. (Super lock will not be set while key is inserted in the ignition key cylinder.)
- Pressing remote controller UNLOCK button once will unlock driver door and release super lock. Then, if an unlock signal is sent from the remote controller again within 5 seconds, all other doors will be unlocked.

**Power door lock and super lock release operation**

- When the super lock is set, turning the ignition key switch to ON will release the super lock. All doors will unlock once, but then immediately lock again.

**Power door lock/unlock operation by lock/unlock switch**

- With door lock/unlock switch on center console setting to LOCK will lock all doors.
- With door lock/unlock switch on center console setting to UNLOCK will unlock all doors.

Door lock/unlock switch operation cannot control super lock

**Child lock system**

- The system has a child lock switch that mechanically latches in the ON and OFF condition. Child locks can only be operated when the ignition is ON and for 30 seconds after the ignition is OFF.

**Child lock indicator (Located in combination meter) operation**

Indicator ON	Ignition switch: ON	Child lock set	Indicator ON for 30 seconds
		Child lock not completely set	Indicator blinks & beep warning for 10 seconds
Indicator OFF	Child lock switch released	Child lock released	Indicator blinks for 10 seconds
		Child lock not completely released	Indicator blinks & beep warning for 10 seconds
	Ignition switch: OFF	—	Indicator OFF

**Key reminder system**

- If the ignition key is in the ignition key cylinder and driver door is open, setting door lock/unlock switch, lock knob, key or remote controller to “LOCK” locks the door once but then immediately unlocks all doors. (signal from door unlock sensor driver side)

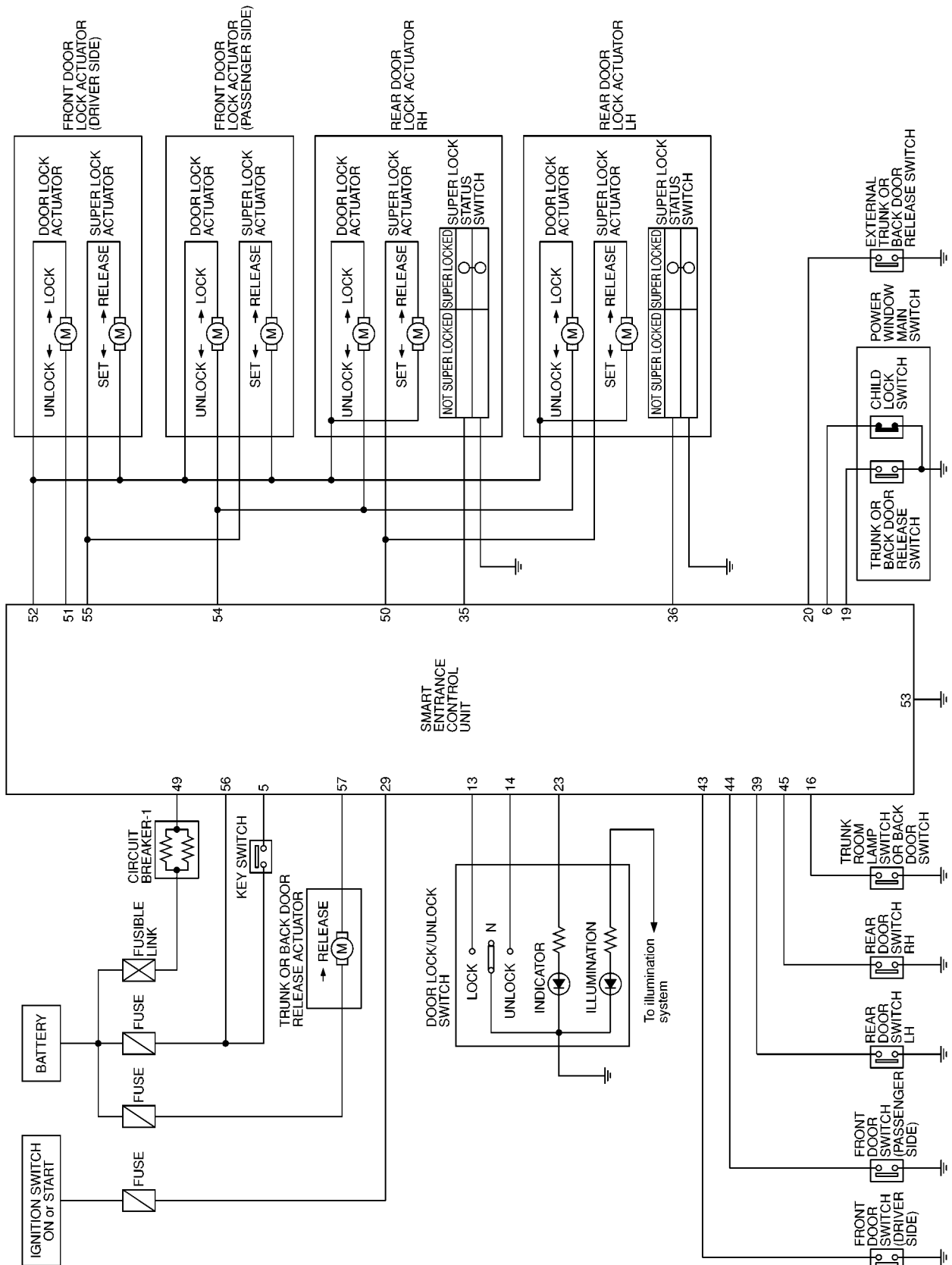
**System initialization**

- System initialization is required when battery cables are reconnected. Conduct the following to release super lock once;
  - insert the key into the ignition key cylinder and turn it to ON.
  - LOCK/UNLOCK operation using door key cylinder or remote controller.

# POWER DOOR LOCK — SUPER LOCK —

## Schematic

EIS002JX



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

BL

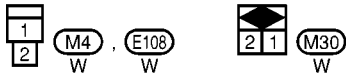
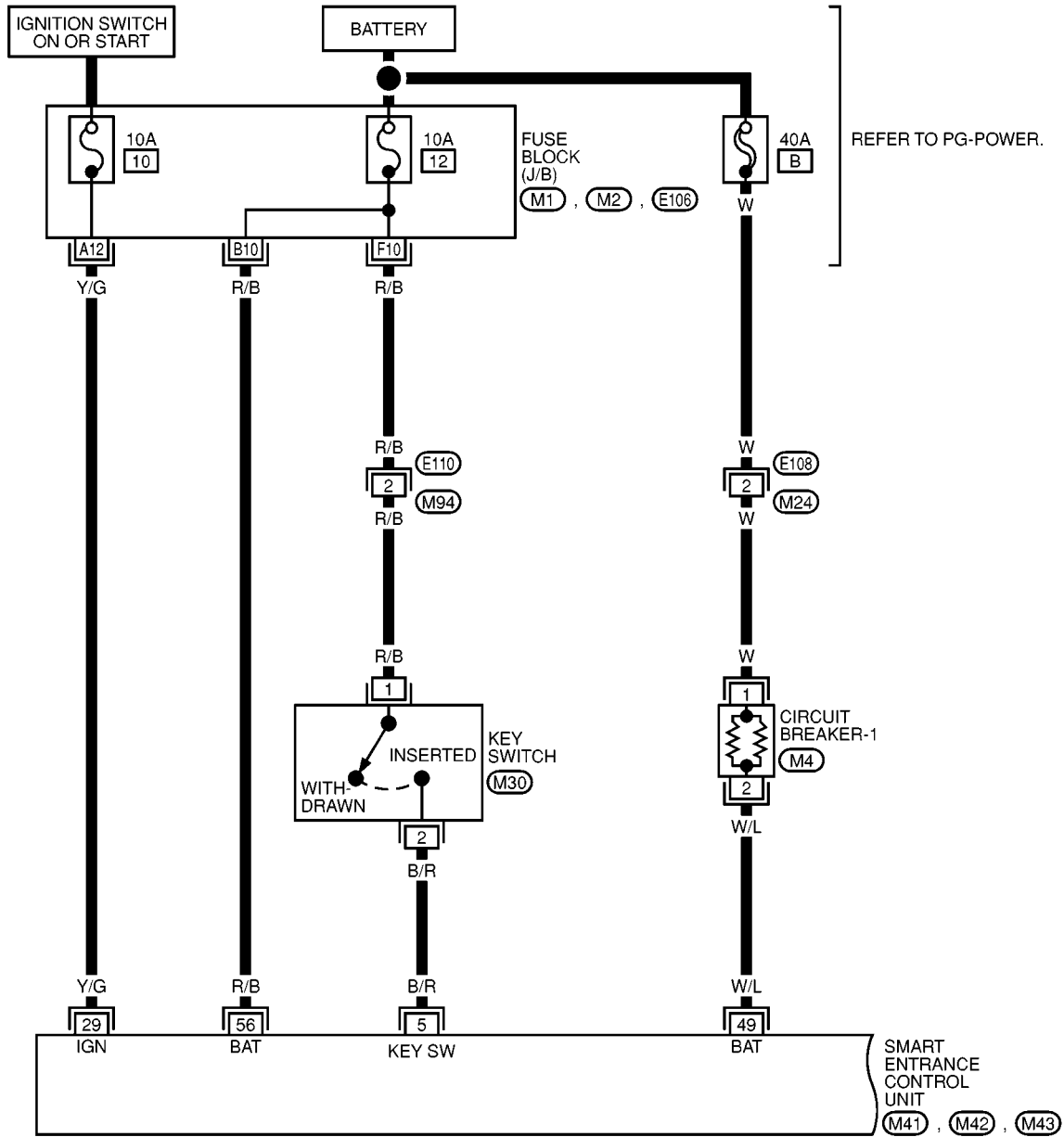
MKWA0102E

# POWER DOOR LOCK — SUPER LOCK —

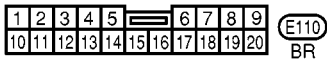
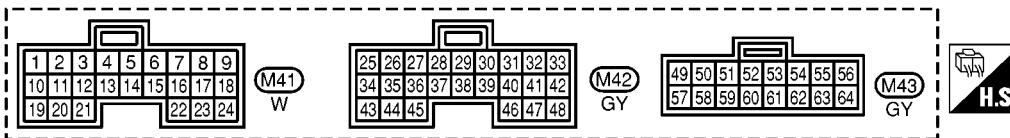
## Wiring Diagram — S/LOCK —

E/IS002JY

BL-S/LOCK-01



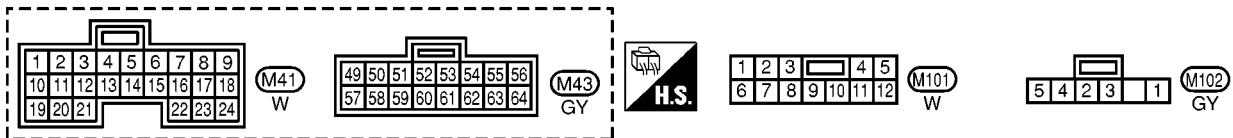
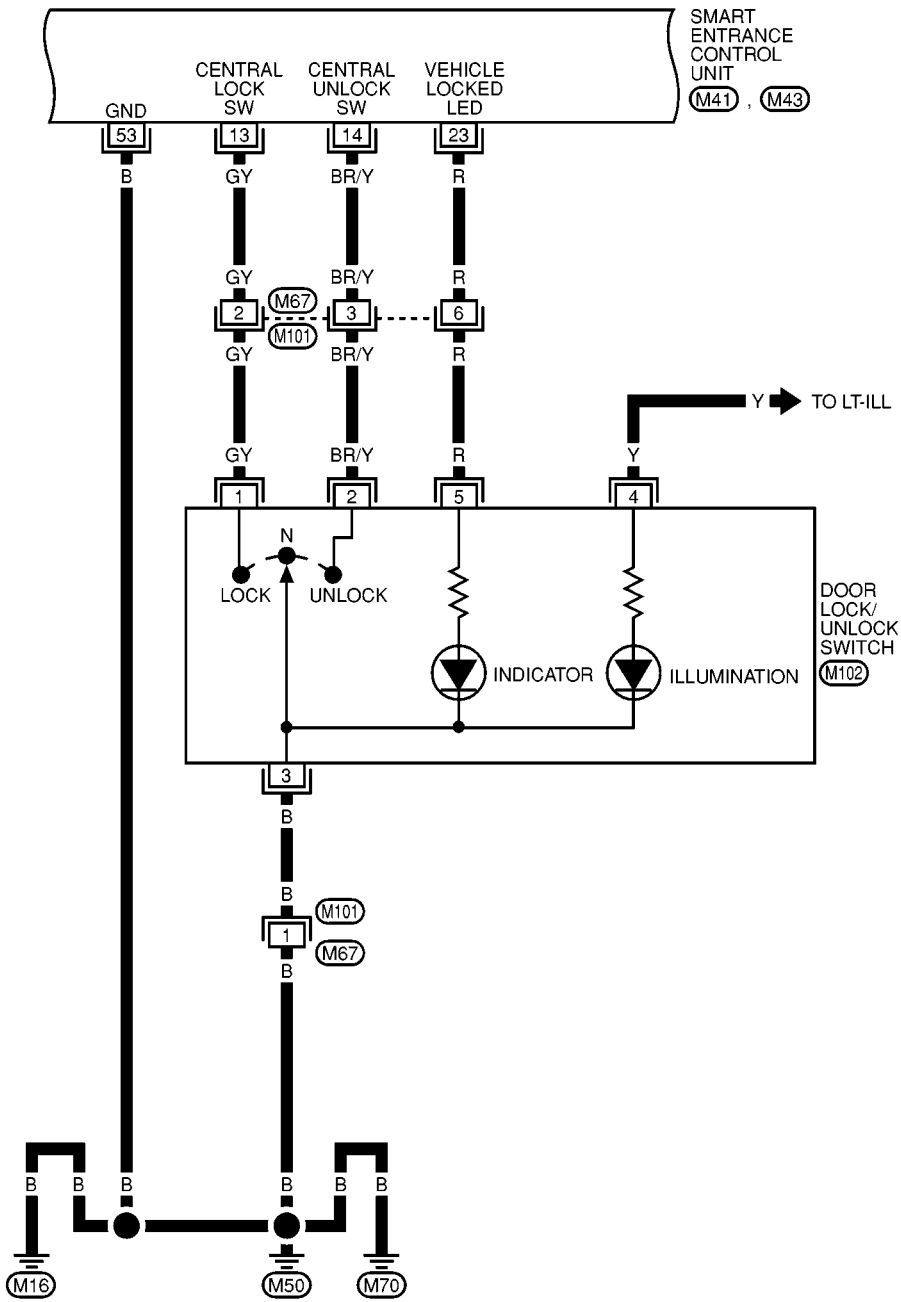
REFER TO THE FOLLOWING.  
 (M1), (M2), (E106) - FUSE BLOCK -  
 JUNCTION BOX (J/B)



MKWA0103E

# POWER DOOR LOCK — SUPER LOCK —

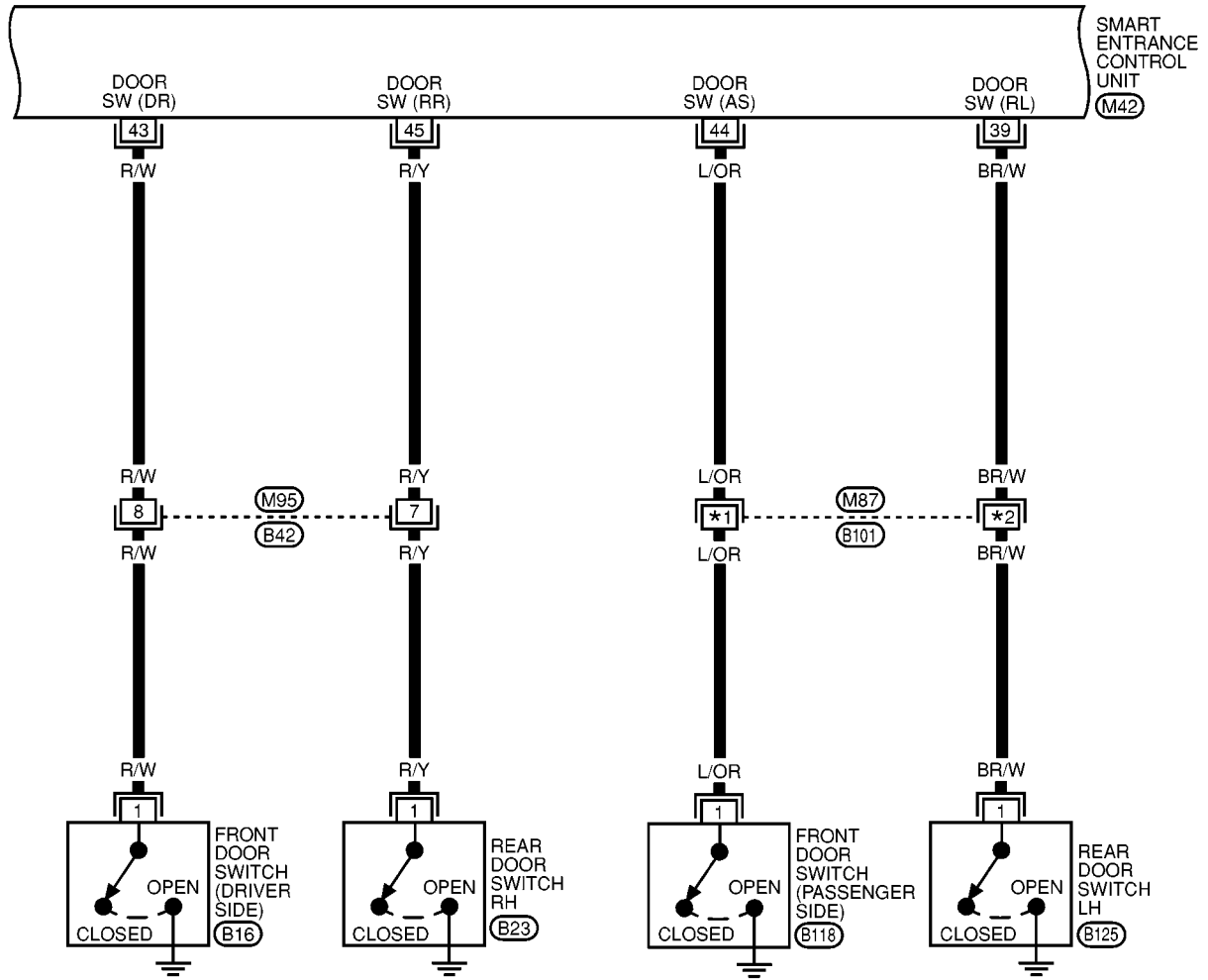
BL-S/LOCK-02



MKWA0104E

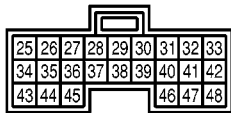
# POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-03

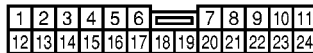


ES : WITH ESP/TCS/ABS CONTROL UNIT  
OE : WITHOUT ESP/TCS/ABS CONTROL UNIT

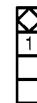
\*1 11: ES      \*2 24: ES  
 9: OE                      8: OE



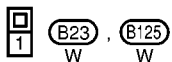
M42  
GY



M87 , B42  
W                      GY



B16 , B118  
W                      W



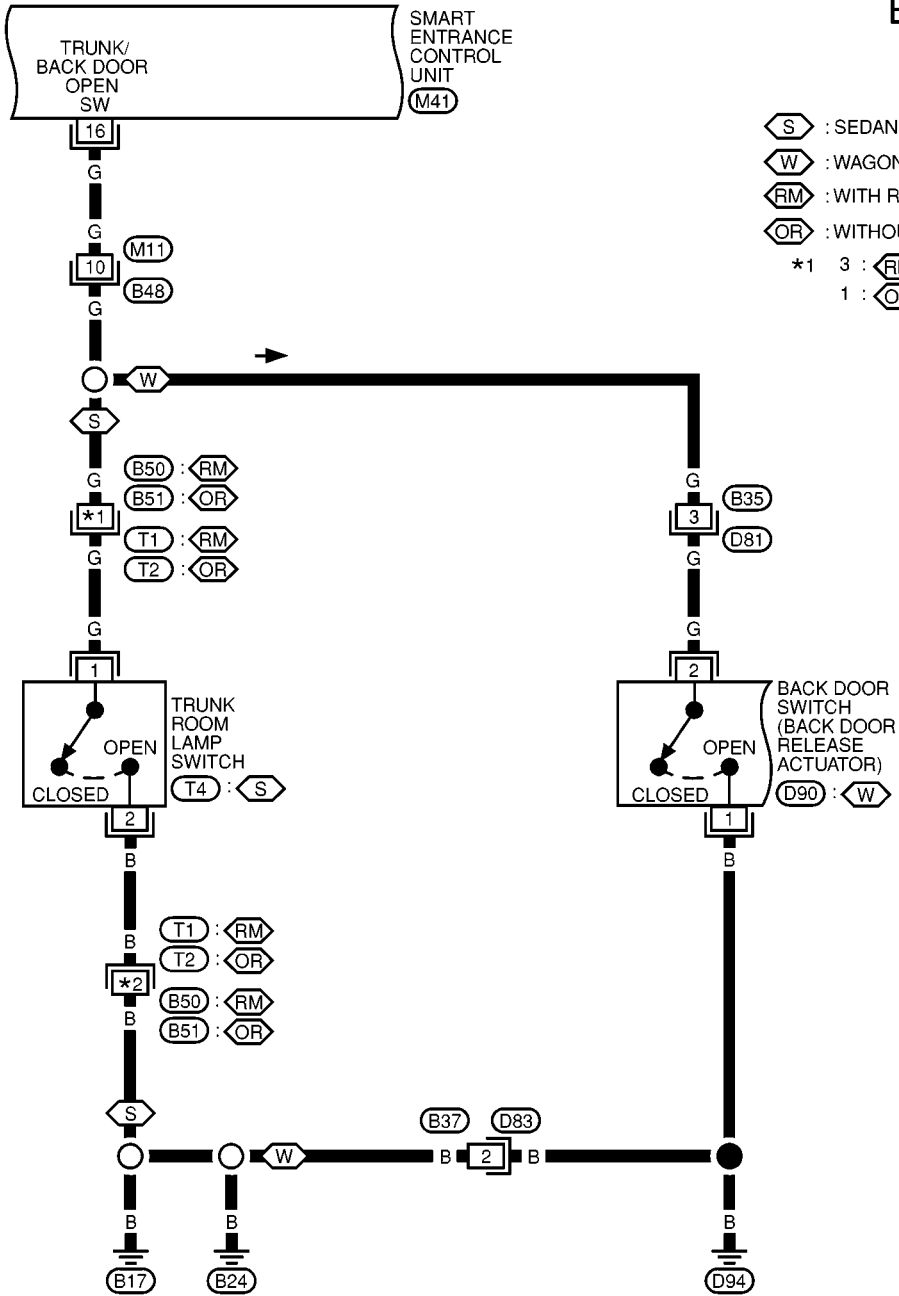
B23 , B125  
W                      W

MKWA0105E

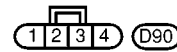
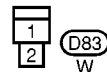
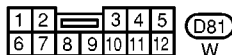
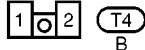
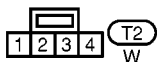
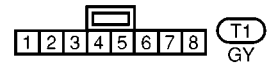
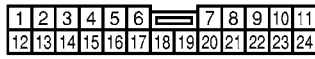
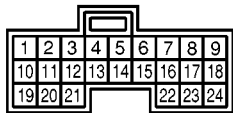


# POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-04



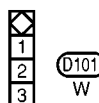
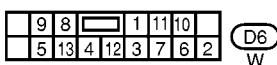
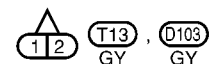
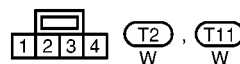
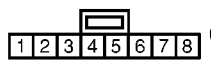
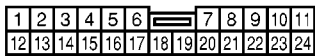
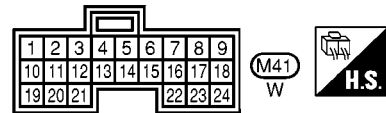
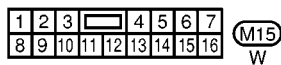
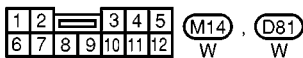
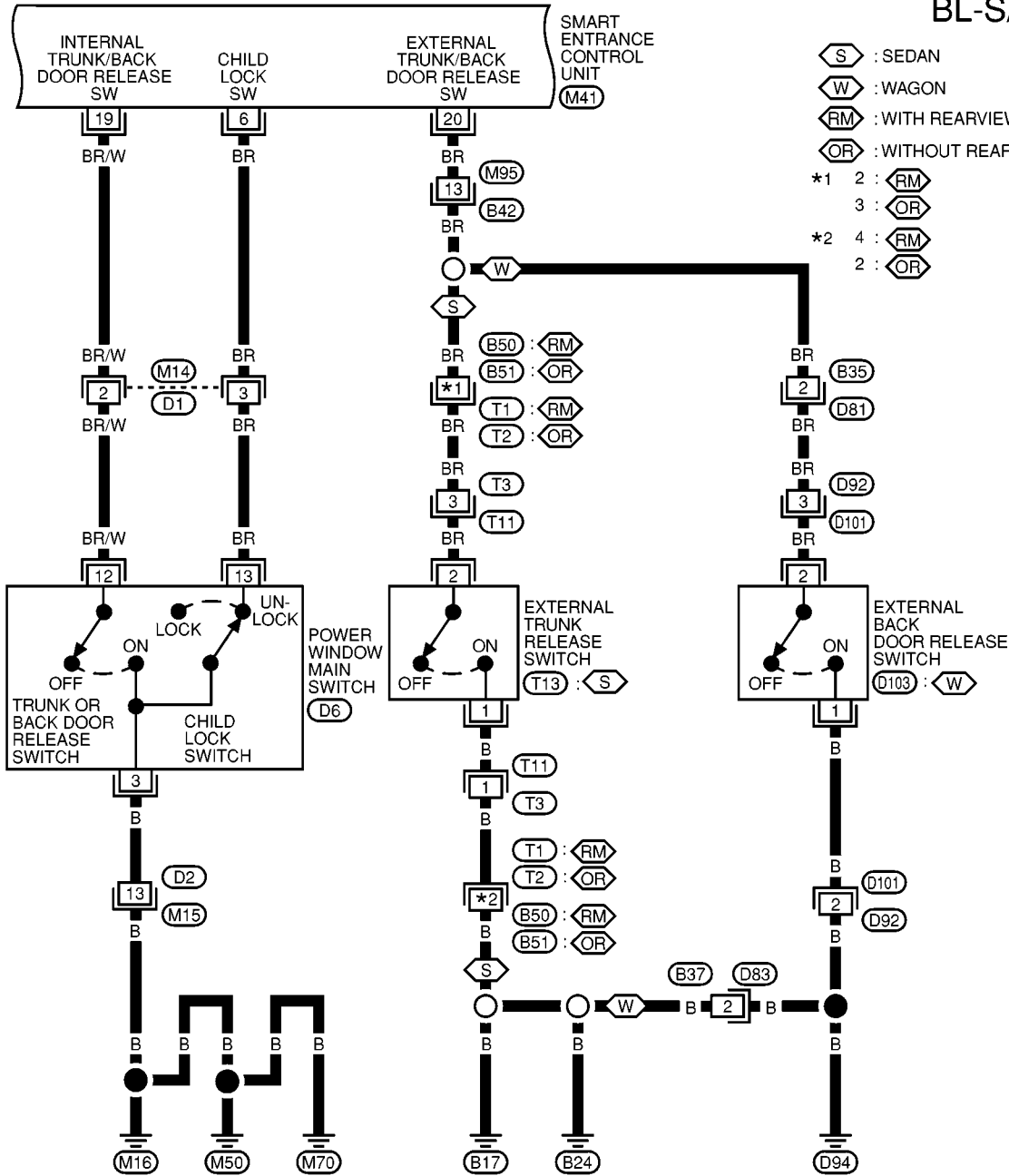
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MKWA0106E

# POWER DOOR LOCK — SUPER LOCK —

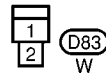
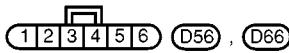
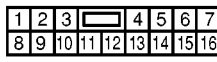
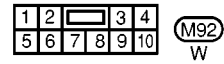
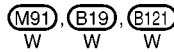
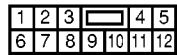
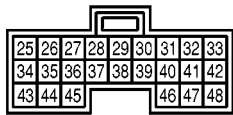
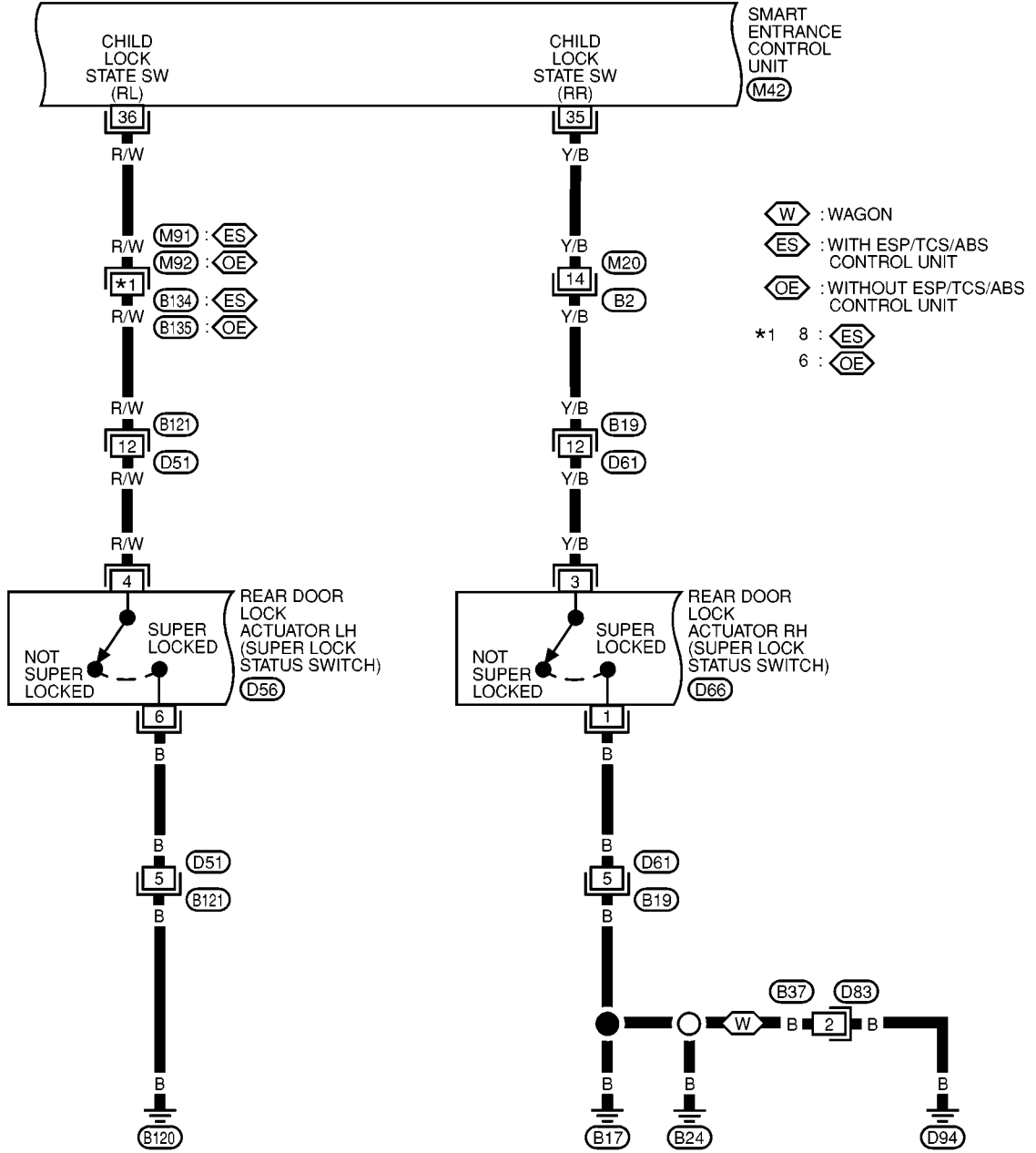
BL-S/LOCK-05



MKWA0107E

# POWER DOOR LOCK — SUPER LOCK —

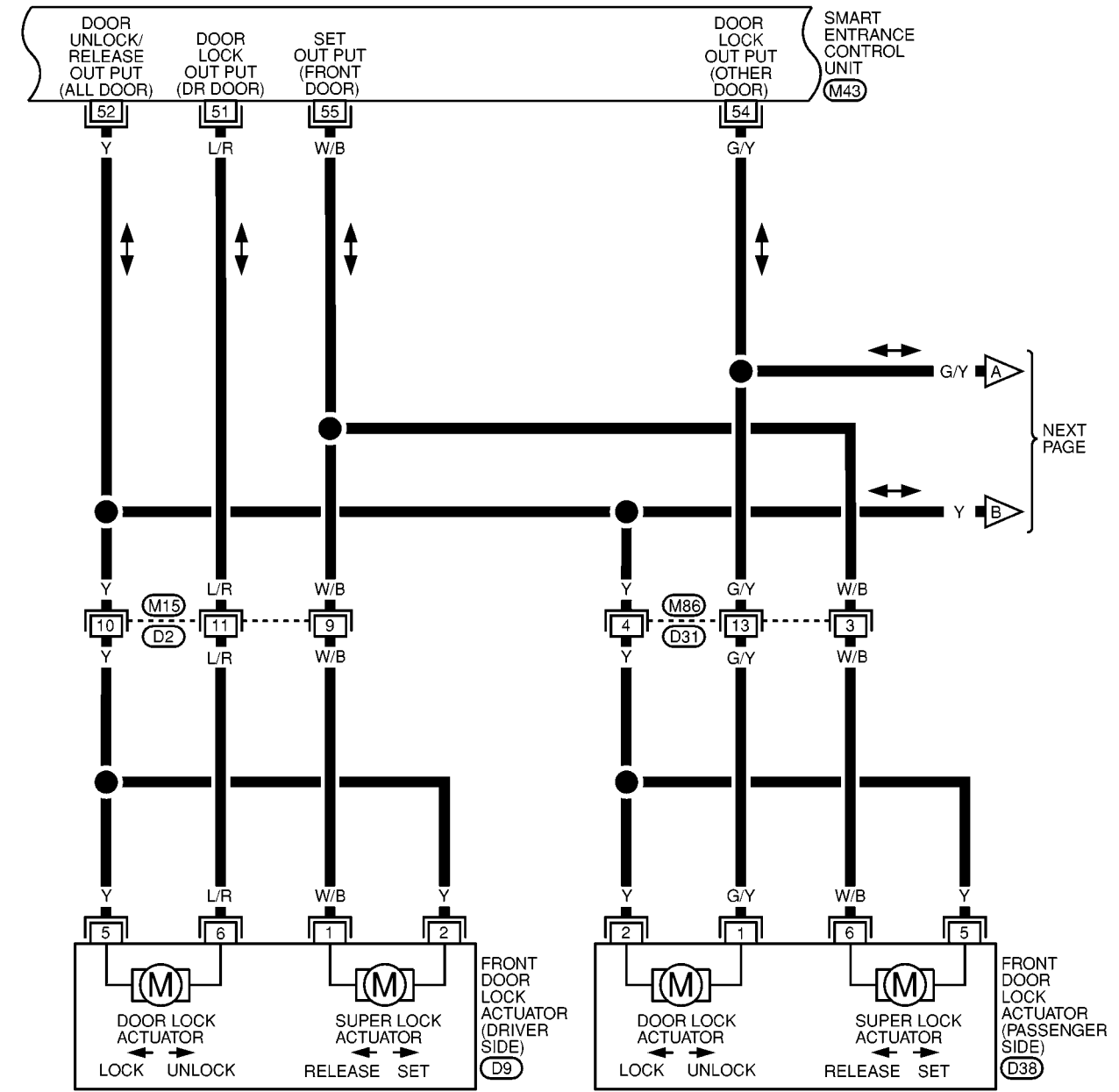
BL-S/LOCK-06



MKWA0108E

# POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-07



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

(M15) W (M86) W

49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

(M43) GY

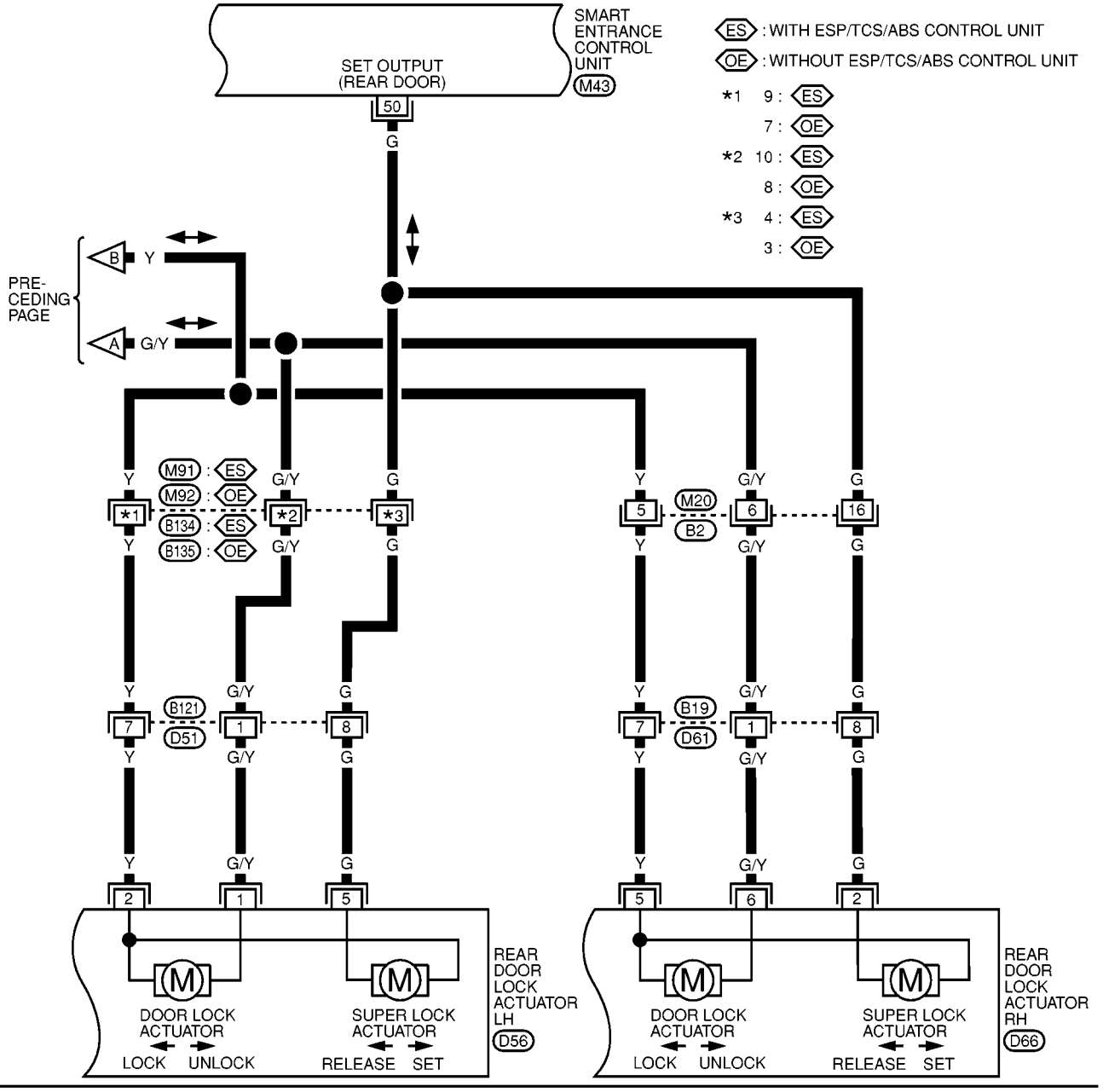
1	2	3	4	5	6
---	---	---	---	---	---

(D9) (D38)

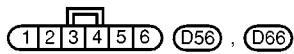
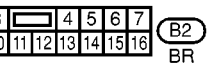
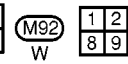
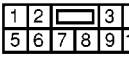
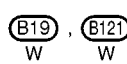
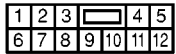
MKWA0109E

# POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-08



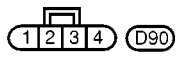
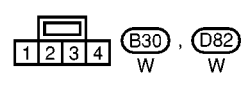
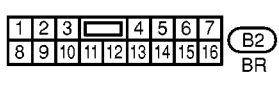
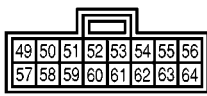
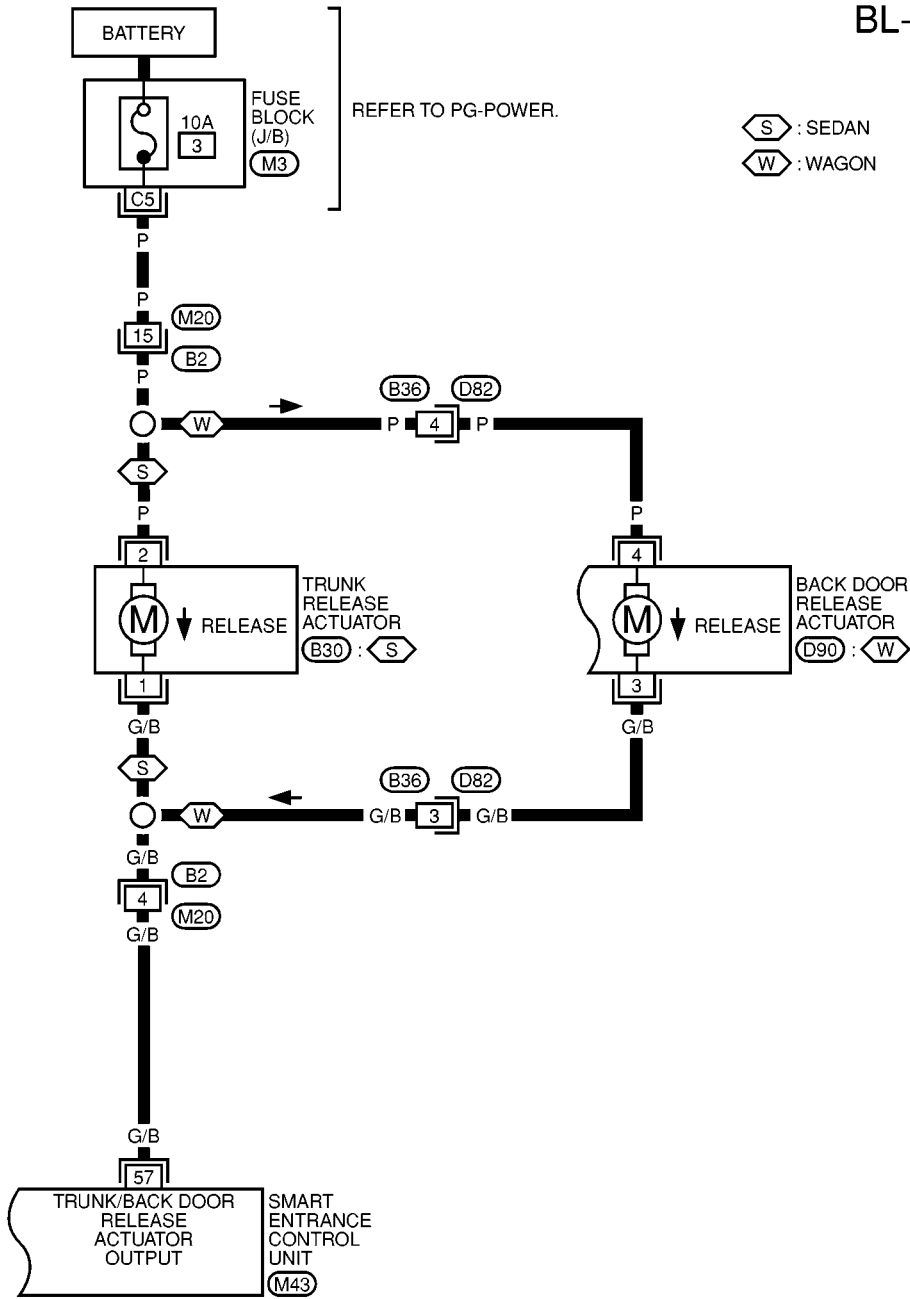
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MKWA0110E

# POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-09



REFER TO THE FOLLOWING.  
M3 - FUSE BLOCK-JUNCTION BOX (J/B)

# POWER DOOR LOCK — SUPER LOCK —

## Terminal and Reference Value for Smart Entrance Control Unit

EIS002NO

TER-MINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (Approximate values)
5	B/R	Key switch	Key inserted (ON) → key removed from IGN key cylinder (OFF)	Battery voltage → 0V
6	BR	Child lock switch	Locked (OFF) → Unlocked (ON)	5V → 0V
13	GY	Door lock/unlock switch (Lock signal)	Lock operation (ON)	0V
			Other than above (OFF)	5V
14	BR/Y	Door lock/unlock switch (Unlock signal)	Unlock operation (ON)	0V
			Other than above (OFF)	5V
16	G	Trunk room lamp switch (Back door switch)	Trunk (Door) open (ON) → close (OFF)	0V → Battery voltage
19	BR/W	External trunk or back door release switch	Release switch open operation	5V → 0V
20	BR	Power window main switch (Trunk or back door release switch)	Release switch open operation	5V → 0V
23	R	Door lock/unlock switch indicator	Goes OFF → Illuminates (Ignition switch ON and all door closed)	0V → Battery voltage
29	Y/G	IGN power supply	—	Battery voltage
35	Y/B	Super lock status switch (Rear door RH side)	Super locked → Not super locked	0V → 5V
36	R/W	Super lock status switch (Rear door LH side)	Super locked → Not super locked	0V → 5V
39	BR/W	Rear door switch RH	Door open (ON) → close (OFF)	0V → Battery voltage
43	R/W	Driver door switch	Door open (ON) → close (OFF)	0V → Battery voltage
44	L/OR	Passenger door switch	Door open (ON) → close (OFF)	0V → Battery voltage
45	R/Y	Rear door switch LH	Door open (ON) → close (OFF)	0V → Battery voltage
49	W/L	Power source (PTC)	—	Battery voltage
50	G	Super lock actuator set (Rear door)	Driver's door key cylinder Lock operation (Set)	0V → 12V
51	L/R	Door lock actuator lock (Driver side)	Door lock/unlock switch Lock operation	0V → 12V
52	Y	Door lock actuator unlock & release (All doors)	Door lock/unlock switch Unlock operation	0V → 12V
53	B	Ground	—	0V
54	G/Y	Door lock actuator lock (Passenger and rear LH, RH side)	Door lock/unlock switch Lock operation	0V → 12V
55	W/B	Super lock actuator set (Front door)	Driver's door key cylinder Lock operation (Set)	0V → 12V
56	R/B	BAT power supply	—	Battery voltage
57	G/B	Trunk (Back door) release actuator	Power window main switch (Trunk or back door release switch) Open operation	Battery voltage → 0V

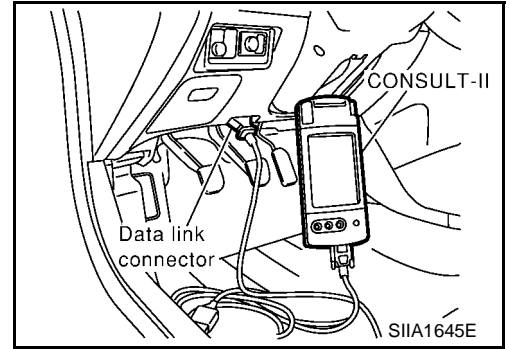
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# POWER DOOR LOCK — SUPER LOCK —

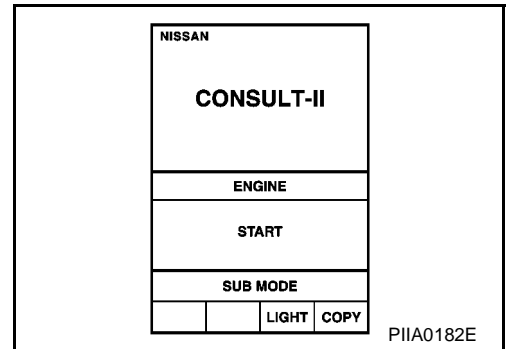
## CONSULT- II Inspection Procedure

EIS002NP

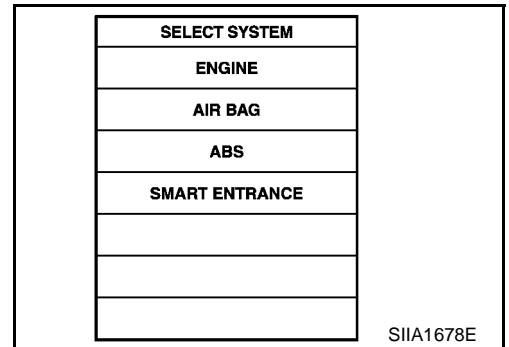
1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.



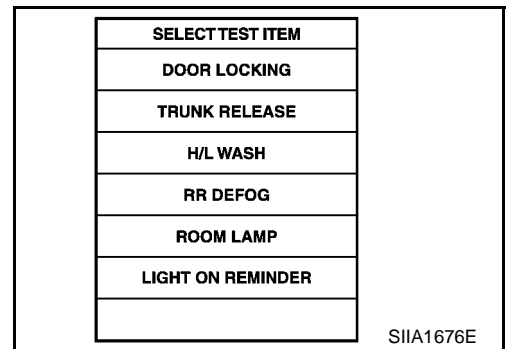
3. Turn ignition switch "ON".
4. Touch "START".



5. Touch "SMART ENTRANCE".



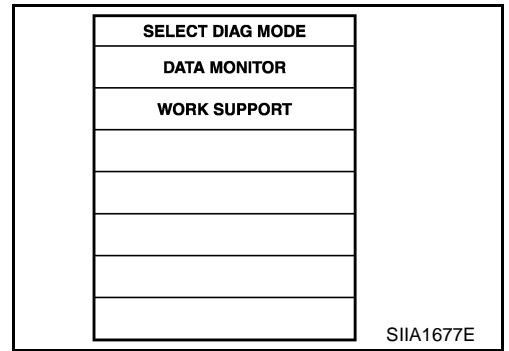
6. Touch "DOOR LOCK" or "TRUNK RELEASE".





# POWER DOOR LOCK — SUPER LOCK —

7. Select diagnosis mode.  
“DATA MONITOR” and “WORK SUPPROT” are available.



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BL

# POWER DOOR LOCK — SUPER LOCK —

EIS002P7

## CONSULT- II Application Items

### DOOR LOCKING

#### DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
KEY IN DETECT	Indicates [ON/OFF] condition of key switch.
DOOR SW DR RR	Indicates [ON/OFF] condition of rear door switch (driver side).
DOOR SW AS RR	Indicates [ON/OFF] condition of rear door switch (passenger side).
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/ unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/ unlock switch.
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.

#### WORK SUPPORT

Monitored Item	Description
AUTO RE-LOCK	Auto re-lock function can be changed in this mode. The re-lock mode will be changed when "CHANGE MODE" on CONSULT-II screen is touched.
SELECTIVE UNLOCK	Selective unlock function can be changed in this mode. The unlock mode will be changed when "CHANGE SET" on CONSULT-II screen is touched.

### TRUNK RELEASE

#### DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
INT TRUNK REL	Indicates [ON/OFF] condition of internal trunk release switch (sedan) or internal back door release switch (wagon).
EXT TRUNK REL	Indicates [ON/OFF] condition of external trunk release switch (sedan) or external back door release switch (wagon).
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (back door) open signal from trunk or back door release switch.

#### WORK SUPPORT

Monitored Item	Description
TRUNK OPEN DELAY	This mode can be changed trunk release switch (sedan) or back door (wagon) release switch operation time.

### CHILD LOCK

#### DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
CHILD LOCK SW	Indicates [ON/OFF] condition of child lock switch.
DR RR LOCK ON	Indicates [ON/OFF] condition of rear door switch.
EXT TRUNK REL	Indicates [ON/OFF] condition of external trunk release switch (sedan) or external back door release switch (wagon).
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (back door) open signal from trunk or back door release switch.

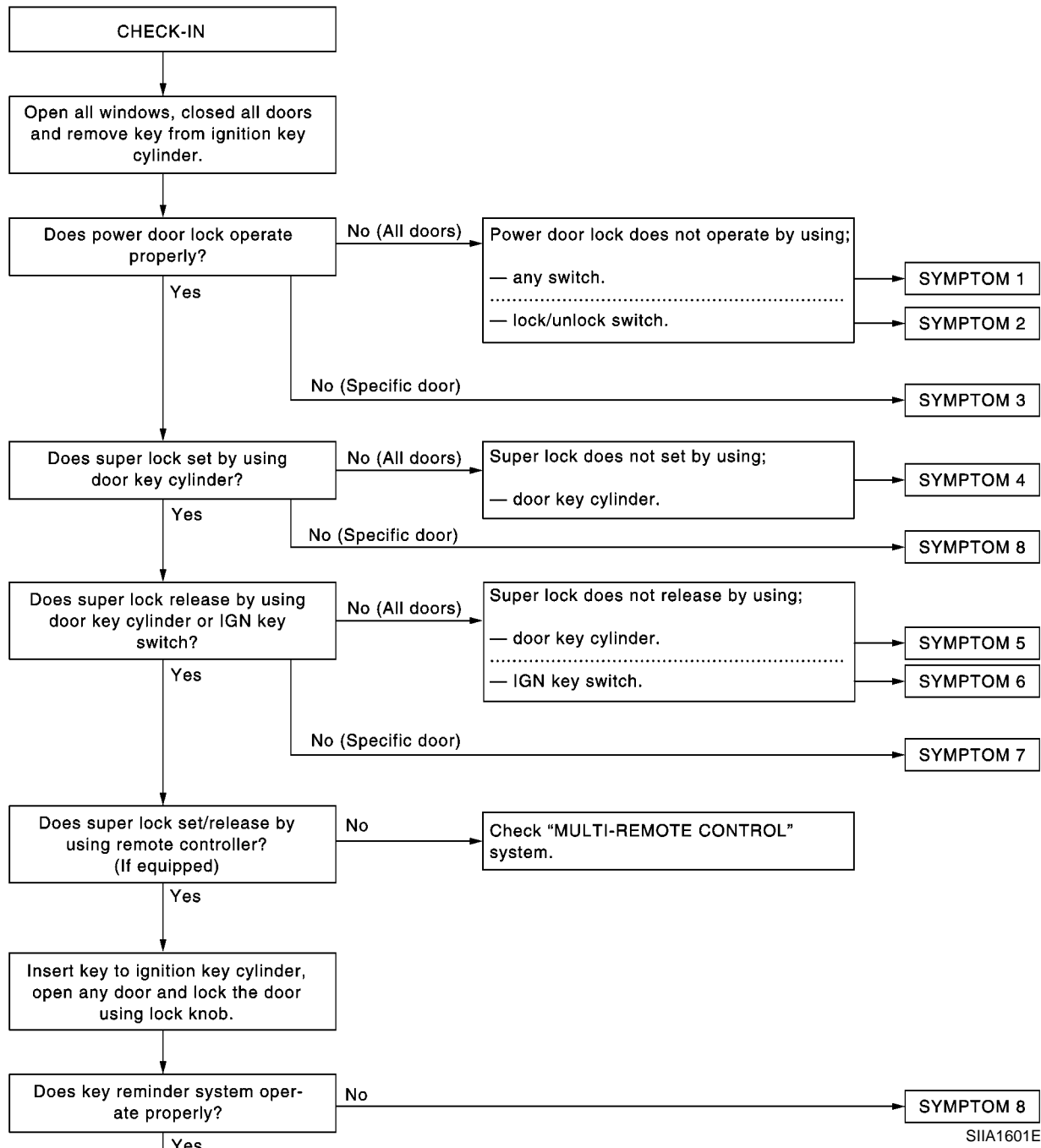
# POWER DOOR LOCK — SUPER LOCK —

E/S002K0

## Trouble Diagnoses

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-33, "CONSULT-II INSPECTION PROCEDURE"](#).

### PRELIMINARY CHECK



SIIA1601E

After performing preliminary check, go to SYMPTOM CHART.

Before starting trouble diagnoses below, perform preliminary check.

Symptom numbers in the symptom chart correspond with those of Preliminary check.

# POWER DOOR LOCK — SUPER LOCK —

## SYMPTOM CHART

Symptom	Malfunctioning system	Reference page
<b>SYMPTOM 1</b> Power door lock does not operate using any switch	Power supply and ground circuit check	<a href="#">BL-61</a>
	Door lock actuator check	<a href="#">BL-63</a>
	If above systems are OK, replace smart entrance control unit.	—
<b>SYMPTOM 2</b> Power door lock does not operate with lock/unlock switch.	Door lock/unlock switch check	<a href="#">BL-62</a>
	If above system is OK, replace smart entrance control unit.	—
<b>SYMPTOM 3</b> Specific door lock actuator does not operate.	Door lock actuator check	<a href="#">BL-63</a>
	If above system is OK, replace smart entrance control unit.	—
<b>SYMPTOM 4</b> Super lock cannot be set by door key cylinder.	Super lock actuator check	<a href="#">BL-74</a>
	Key switch check	<a href="#">BL-73</a>
	Ignition switch ON circuit check	<a href="#">BL-61</a>
	If above systems are OK, replace smart entrance control unit.	—
<b>SYMPTOM 5</b> *Super lock cannot be released by door key cylinder.	Super lock actuator check	<a href="#">BL-74</a>
	If above systems are OK, replace smart entrance control unit.	—
<b>SYMPTOM 6</b> *Super lock cannot be released by ignition key switch.	Super lock actuator check	<a href="#">BL-74</a>
	Ignition switch "ON" circuit check	<a href="#">BL-61</a>
	If above systems are OK, replace smart entrance control unit.	—
<b>SYMPTOM 7</b> Specific super lock actuator does not operate.	Super lock actuator check	<a href="#">BL-74</a>
	If above system is OK, replace smart entrance control unit.	—
<b>SYMPTOM 8</b> *Key reminder system does not operate.	Door switch check	<a href="#">BL-67</a>
	Trunk room lamp switch or back door switch check	<a href="#">BL-71</a>
	Key switch check	<a href="#">BL-73</a>
	If above system is OK, replace smart entrance control unit.	—
<b>SYMPTOM 9</b> Trunk or back door release actuator does not operate.	Trunk or back door release switch check	<a href="#">BL-76</a>
	Trunk release actuator check (sedan)	<a href="#">BL-78</a>
	Back door release actuator check (wagon)	<a href="#">BL-79</a>
	If above system is OK, replace smart entrance control unit.	—
<b>SYMPTOM 10</b> Child lock does not operate.	Child lock switch check	<a href="#">BL-80</a>
	Super lock actuator check (Rear door)	<a href="#">BL-75</a>
	Child lock status switch check	<a href="#">BL-80</a>
	If above system is OK, replace smart entrance control unit.	—

\*:Make sure the power door lock system operates properly.

# POWER DOOR LOCK — SUPER LOCK —

## Power Supply and Ground Circuit Check

EIS002NR

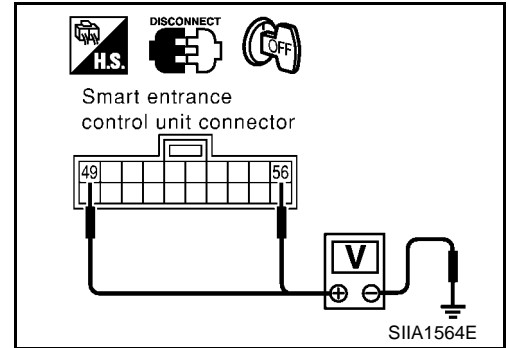
### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect smart entrance control unit connector.
3. Check voltage between smart entrance control unit harness connector M43 terminal 49(W/L), 56(R/B) and ground.

Terminal		Voltage
+	-	
49(W/L)	Ground	Battery voltage
56(R/B)		

OK or NG?

- OK >> GO TO 2  
 NG >> Check smart entrance control unit power supply circuit for open or short.



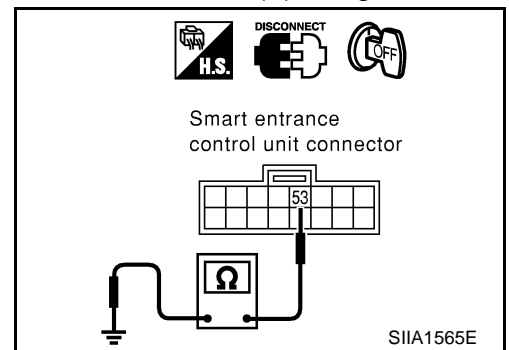
### 2. CHECK GROUND CIRCUIT

Check continuity between smart entrance control unit harness connector M43 terminal 53(B) and ground.

Terminal		Continuity
+	-	
53(B)	Ground	Yes

OK or NG?

- OK >> Power supply and ground circuit is OK.  
 NG >> Check smart entrance control unit ground circuit for open or short.



## Ignition Switch “ON” Circuit Check

EIS002KA

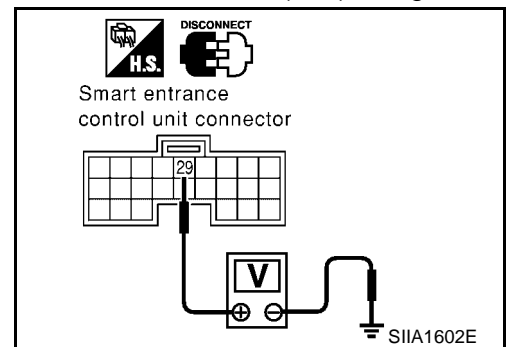
### 1. CHECK IGNITION ON SIGNAL

1. Disconnect smart entrance control unit connector.
2. Check voltage between smart entrance control unit harness connector M42 terminal 29(Y/G) and ground.

Terminal		Ignition switch position: ON
+	-	
29(Y/G)	Ground	Battery voltage

OK or NG?

- OK >> Ignition ON signal is OK.  
 NG >> Check the following.
- 10A fuse [No. 10, located in fuse block (J/B)]
  - Harness for open or short between smart entrance control unit and fuse



# POWER DOOR LOCK — SUPER LOCK —

EIS00203

## Door Lock/Unlock Switch Check

### 1. CHECK DOOR LOCK/UNLOCK SWITCH SIGNAL

① With CONSULT- II

- Check door lock/unlock switch input signal (“CDL LOCK SW” “CDL UNLOCK SW”) in “DATA MONITOR” mode with CONSULT- II.

**When door lock/unlock switch is turned to LOCK:**

**CDL LOCK SW ⇒ ON**

**When door lock/unlock switch is turned to UNLOCK:**

**CDL UNLOCK SW ⇒ ON**

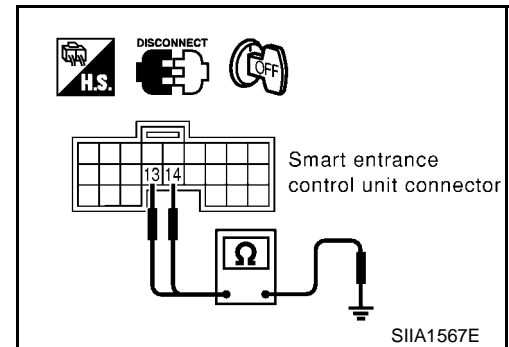
DATA MONITOR	
MONITOR	
CDL LOCK SW	ON
CDL UNLOCK SW	ON

SIIA1566E

⊗ Without CONSULT- II

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between smart entrance control unit harness connector M91 terminal 13(GY), 14(BR/Y) and ground.

Terminals	Door lock/unlock switch operation	Continuity
13 – Ground	L.ock position	Yes
	Neutral or Unlock position	No
14 – Ground	Unlock position	Yes
	Neutral or Lock position	No



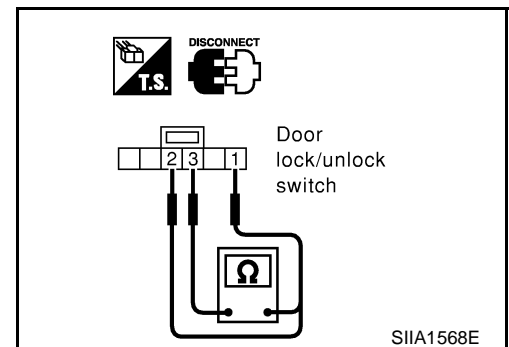
OK or NG?

- OK >> Door lock/unlock switch is OK.  
 NG >> GO TO 2

### 2. CHECK DOOR LOCK/UNLOCK SWITCH

1. Disconnect door lock/unlock switch harness connector.
2. Check continuity between door lock/unlock switch terminals 1, 2 and 3.

Terminals	Door lock/unlock switch operation	Continuity
1 – 3	Lock position	Yes
	Neutral or Unlock position	No
2 – 3	Unlock position	Yes
	Neutral or Lock position	No



OK or NG?

- OK >> Check the following.
- Ground circuit for door lock/unlock switch
  - Harness for open or short between door lock/unlock switch and smart entrance control unit connector
- NG >> Replace power window main switch (door lock/unlock switch).

# POWER DOOR LOCK — SUPER LOCK —

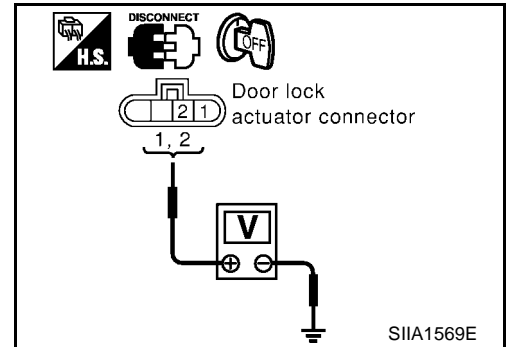
EIS002NS

## Door Lock Actuator Check DRIVER SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect door lock actuator (driver side) harness connector.
2. Check voltage between door lock actuator harness connector D8 terminal 1(L/R), 2(Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	1(L/R)	Ground	Approx. 12
Unlock position	2(Y)	Ground	



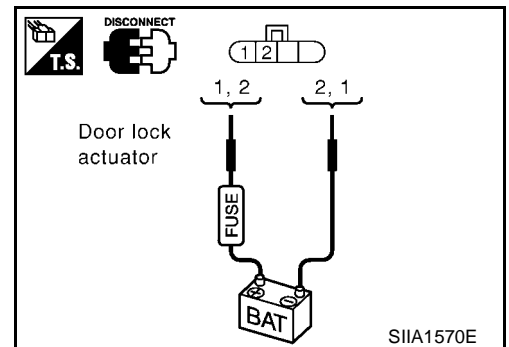
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect door lock actuator (driver side) harness connector.
2. Apply 12V direct current to door lock actuator and check operation.

Terminal		Door lock actuator operation
+	-	
1	2	Unlock → Lock
2	1	Lock → Unlock



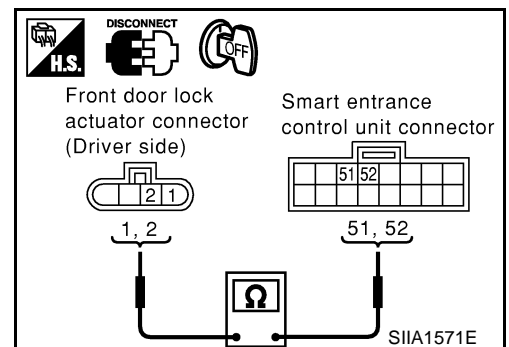
OK or NG?

- OK >> GO TO 3  
NG >> Replace door lock actuator (driver side).

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between door lock actuator (driver side) harness connector D8 terminal 1(L/R), 2(Y) and smart entrance control unit harness connector M43 terminal 51(L/R), 52(Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
1 (L/R)	51 (L/R)	Yes
2 (Y)	52 (Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and door lock actuator (driver side).

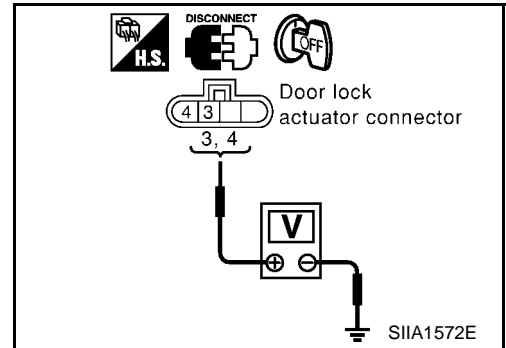
# POWER DOOR LOCK — SUPER LOCK —

## PASSENGER SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect door lock actuator (passenger side) harness connector.
2. Check voltage between door lock actuator harness connector D37 terminal 3(Y), 4(G/Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	4(G/Y)	Ground	Approx. 12
Unlock position	3(Y)	Ground	



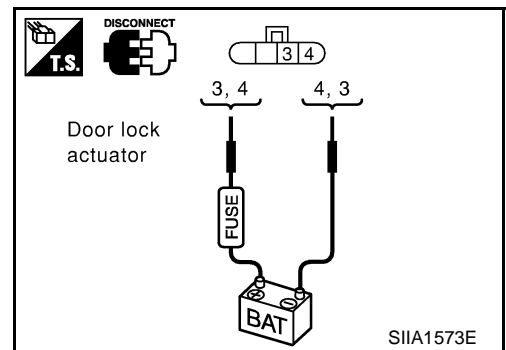
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect door lock actuator (passenger side) harness connector.
2. Apply 12V direct current to door lock actuator and check operation.

Terminal		Door lock actuator operation
+	-	
4	3	Unlock → Lock
3	4	Lock → Unlock



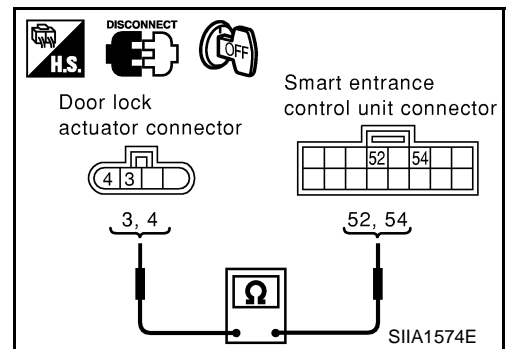
OK or NG?

- OK >> GO TO 4  
NG >> Replace door lock actuator (passenger side).

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between door lock actuator (passenger side) harness connector D37 terminal 3(Y), 4(G/Y) and smart entrance control unit harness connector M43 terminal 52(Y), 54(G/Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
3 (Y)	52(Y)	Yes
4 (G/Y)	54(G/Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and door lock actuator (passenger side).



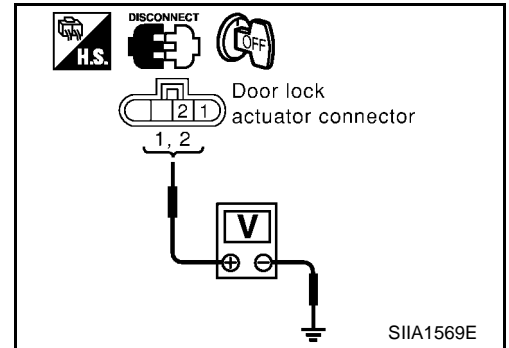
# POWER DOOR LOCK — SUPER LOCK —

## REAR LH SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect rear door lock actuator LH harness connector.
2. Check voltage between door lock actuator harness connector D55 terminal 1(G/Y), 2(Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	1(G/Y)	Ground	Approx. 12
Unlock position	2(Y)	Ground	



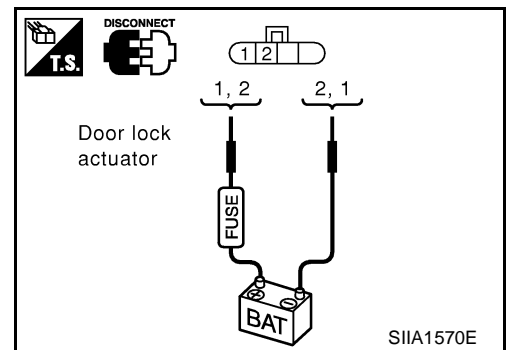
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect rear door lock actuator LH harness connector.
2. Apply 12V direct current to rear door lock actuator LH and check operation.

Terminal		Door lock actuator operation
+	-	
1	2	Unlock → Lock
2	1	Lock → Unlock



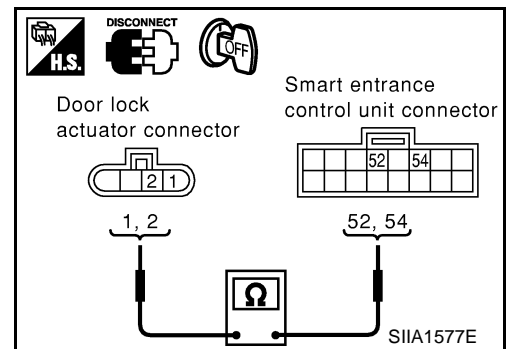
OK or NG?

- OK >> GO TO 3  
NG >> Replace rear door lock actuator LH.

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator LH harness connector D55 terminal 1(G/Y), 2(Y) and smart entrance control unit harness connector M43 terminal 52(Y), 54(G/Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
1 (G/Y)	54 (G/Y)	Yes
2 (Y)	52 (Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and rear door lock actuator LH.

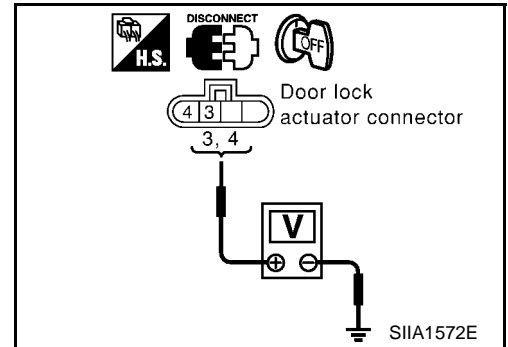
# POWER DOOR LOCK — SUPER LOCK —

## REAR RH SIDE

### 1. CHECK DOOR LOCK SIGNAL

1. Disconnect rear door lock actuator RH harness connector.
2. Check voltage between rear door lock actuator RH harness connector D65 terminal 3(Y), 4(G/Y) and ground.

Door lock/ unlock switch	Terminals		Voltage
	+	-	
Lock position	4(G/Y)	Ground	Approx. 12
Unlock position	3(Y)	Ground	



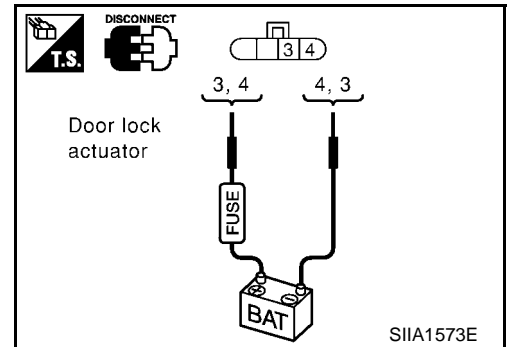
OK or NG?

- OK >> GO TO 2  
NG >> GO TO 3

### 2. CHECK DOOR LOCK ACTUATOR

1. Disconnect rear door lock actuator RH harness connector.
2. Apply 12V direct current to rear door lock actuator RH and check operation.

Terminal		Door lock actuator operation
+	-	
4	3	Unlock → Lock
3	4	Lock → Unlock



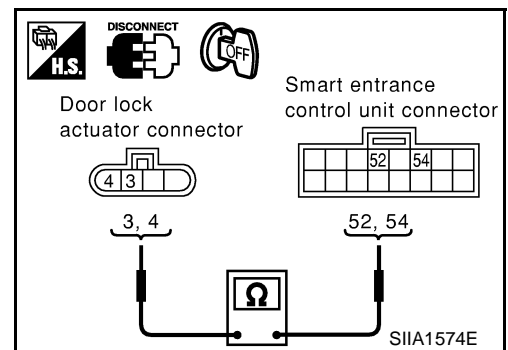
OK or NG?

- OK >> GO TO 4  
NG >> Replace rear door lock actuator RH.

### 3. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator RH harness connector D65 terminal 3(Y), 4(G/Y) and smart entrance control unit harness connector M43 terminal 52(Y), 54(G/Y).

Terminal		Continuity
Door lock actuator	Smart entrance control unit	
3 (Y)	52(Y)	Yes
4 (G/Y)	54(G/Y)	Yes



OK or NG?

- OK >> Replace smart entrance control unit.  
NG >> Check harness for open or short between smart entrance control unit and rear door lock actuator RH.

# POWER DOOR LOCK — SUPER LOCK —

EIS002NY

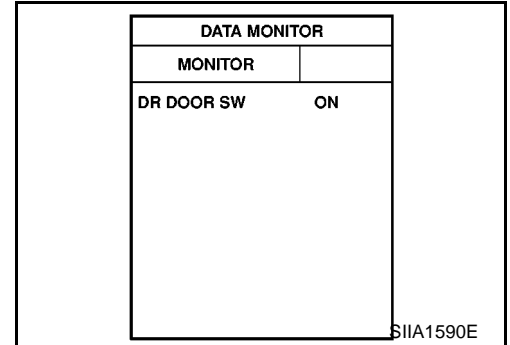
## Door Switch Check DRIVER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch “DR DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
DR DOOR SW	Front door switch LH	Open: ON
		Close: OFF



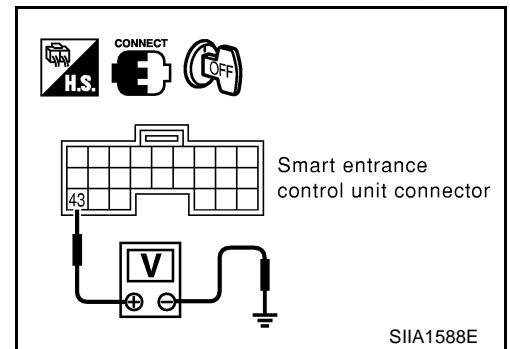
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 43(R/W) and ground.

Terminal		Front door LH	Voltage
(+)	(-)		
43(R/W)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2



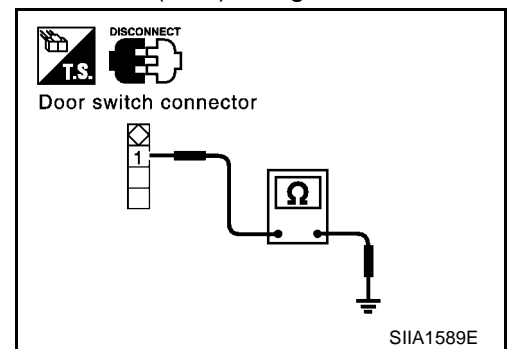
### 2. CHECK DOOR SWITCH

Check continuity between front door switch LH harness connector B16 terminal 1(R/W) and ground.

Terminal		Front door LH switch	Continuity
(+)	(-)		
1(R/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
  - Front door switch LH ground condition
  - Harness for open or short between smart entrance control unit and front door switch LH
- NG >> Replace front door switch LH.



# POWER DOOR LOCK — SUPER LOCK —

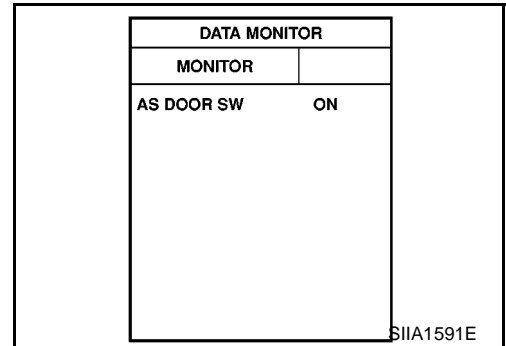
## PASSENGER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch “AS DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

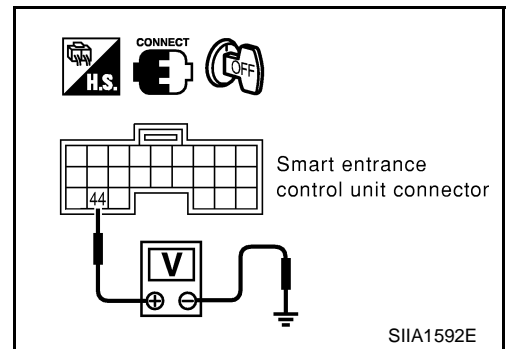
	Monitor item	Condition
AS DOOR SW	Front door switch RH	Open: ON
		Close: OFF



⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 44(L/OR) and ground.

Terminal		Front door RH	Voltage
(+)	(-)		
44(L/OR)	Ground	Closed	Approx. 5
		Open	0



OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2

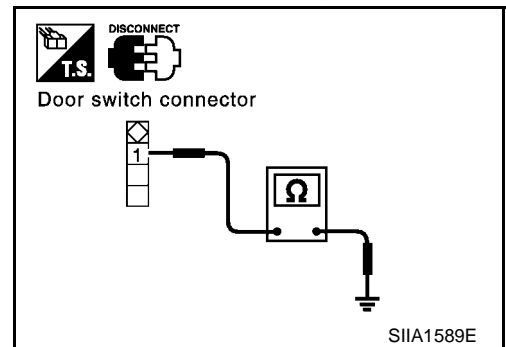
### 2. CHECK DOOR SWITCH

Check continuity between front door switch RH harness connector B118 terminal 1(L/OR) and ground.

Terminal		Front door RH switch	Continuity
(+)	(-)		
1(L/OR)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
  - Front door switch RH ground condition
  - Harness for open or short between smart entrance control unit and front door switch RH
- NG >> Replace front door switch RH.



# POWER DOOR LOCK — SUPER LOCK —

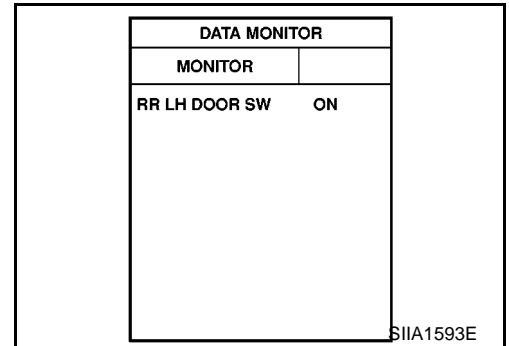
## REAR LH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓜ With CONSULT- II

- Check door switch “RR LH DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
RR LH DOOR SW	Rear door switch LH	Open: ON
		Close: OFF



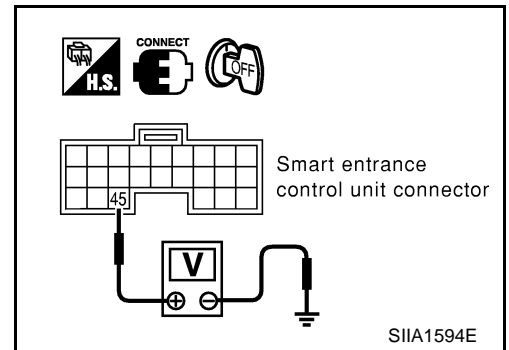
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 45(R/Y) and ground.

Terminal		Rear door LH	Voltage
(+)	(-)		
45(R/Y)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2



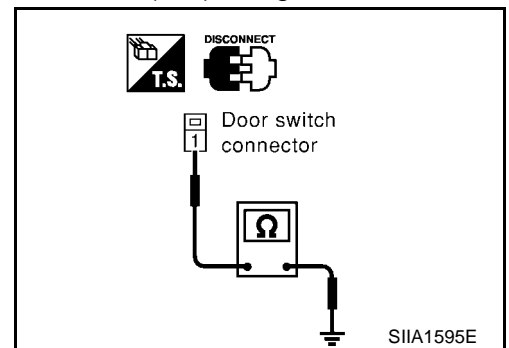
### 2. CHECK DOOR SWITCH

Check continuity between rear door switch LH harness connector B23 terminal 1(R/Y) and ground.

Terminal		Rear door LH switch	Continuity
(+)	(-)		
1(R/Y)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
  - Rear door switch LH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch LH
- NG >> Replace rear door switch LH.



# POWER DOOR LOCK — SUPER LOCK —

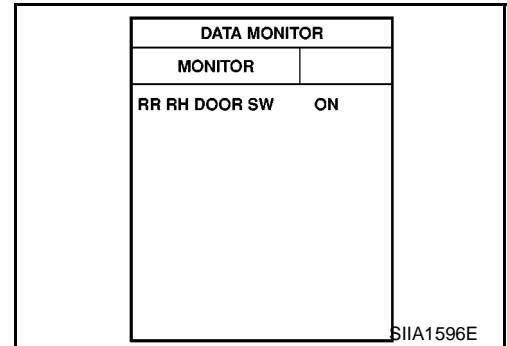
## REAR RH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch “RR RH DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

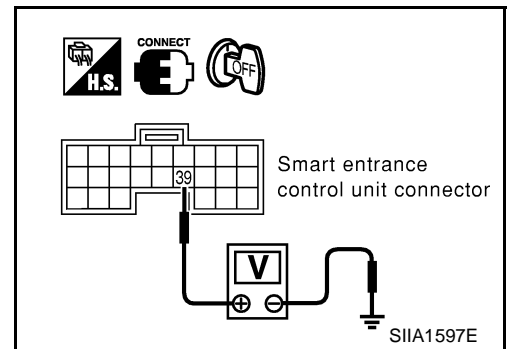
	Monitor item	Condition
RR RH DOOR SW	Rear door switch RH	Open: ON
		Close: OFF



⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 39(BR/W) and ground.

Terminal		Rear door RH	Voltage
(+)	(-)		
39(BR/W)	Ground	Closed	Approx. 5
		Open	0



OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2

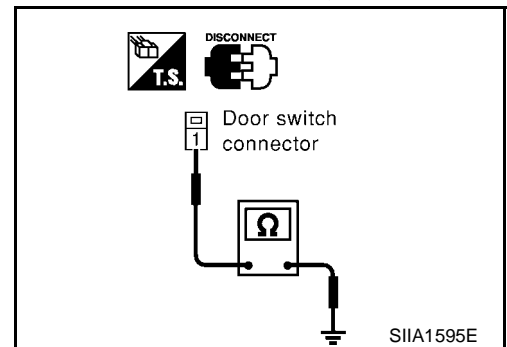
### 2. CHECK DOOR SWITCH

Check continuity between rear door switch RH harness connector B125 terminal 1(BR/W) and ground.

Terminal		Rear door RH switch	Continuity
(+)	(-)		
1(BR/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
  - Rear door switch RH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch RH
- NG >> Replace rear door switch RH.



# POWER DOOR LOCK — SUPER LOCK —

EIS0020E

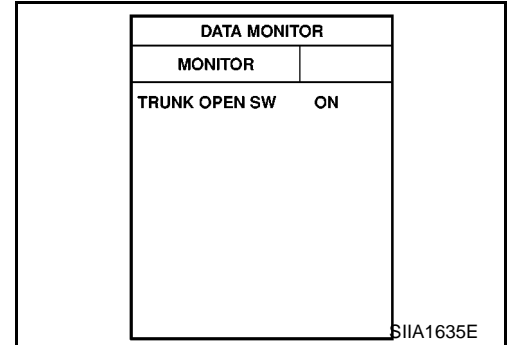
## Trunk Room Lamp Switch or Back Door Switch Check TRUNK ROOM LAMP SWITCH

### 1. CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch “TRUNK OPEN SWITCH” in “DATA MONITOR” mode with CONSULT- II.

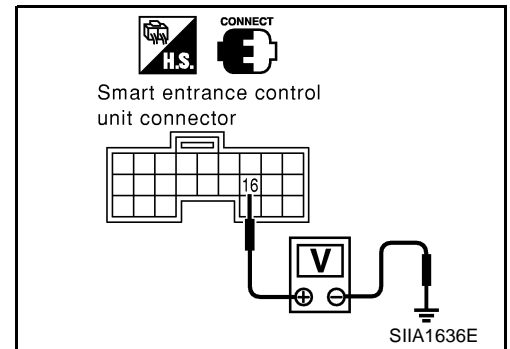
	Monitor item	Condition
TRUNK OPEN SW	Trunk room lamp switch	Open: ON
		Close: OFF



⊗ Without CONSULT- II

Check voltage between smart entrance control unit harness connector M41 terminal 16(G) and ground.

Terminal		Trunk lid	Voltage
(+)	(-)		
16(G)	Ground	Closed	Approx. 5
		Open	0



OK or NG?

- OK >> Trunk room lamp switch is OK.
- NG >> GO TO 2

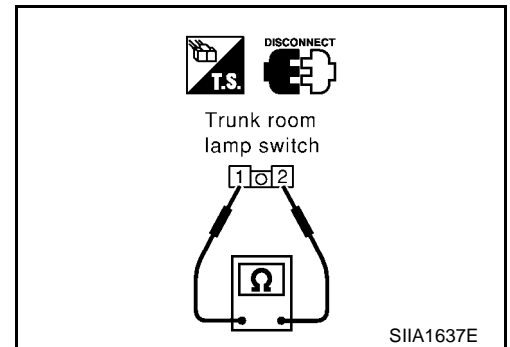
### 2. CHECK TRUNK ROOM LAMP SWITCH

Check continuity between trunk room lamp switch terminals 1 and 2.

Terminal	Trunk lid condition	Continuity
1 - 2	Opened	Yes
	Closed	No

OK or NG?

- OK >> Check the following.
  - Trunk room lamp switch ground circuit
  - Harness for open or short between smart entrance control unit and trunk room lamp switch
- NG >> Replace trunk room lamp switch.



# POWER DOOR LOCK — SUPER LOCK —

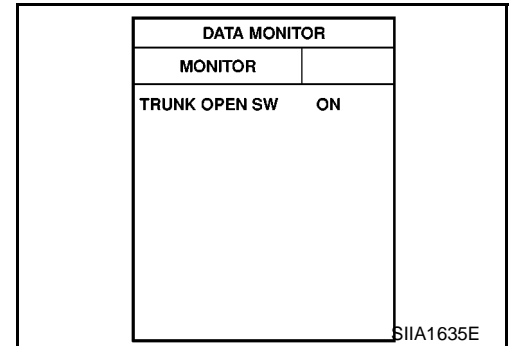
## BACK DOOR SWITCH

### 1. CHECK BACK DOOR SWITCH INPUT SIGNAL

④ With CONSULT- II

- Check door switch “TRUNK OPEN SWITCH” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
TRUNK OPEN SW	Back door switch	Open: ON
		Close: OFF



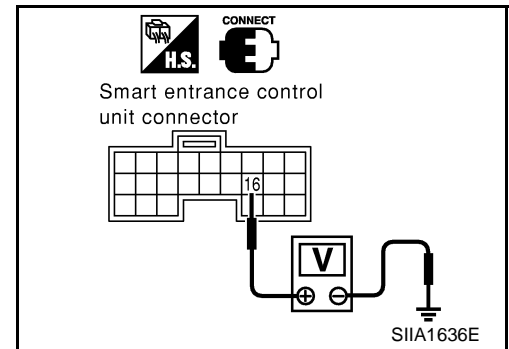
⊗ Without CONSULT- II

Check voltage between smart entrance control unit harness connector M41 terminal 16(G) and ground.

Terminal		Back door	Voltage
(+)	(-)		
16(G)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Back door switch is OK.
- NG >> GO TO 2



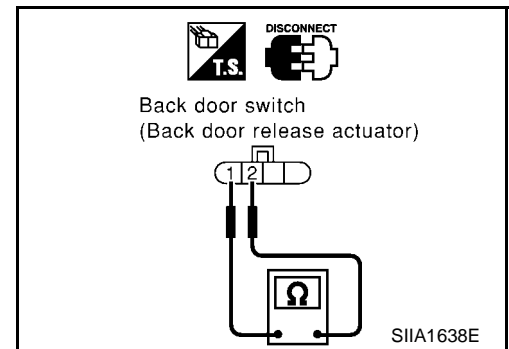
### 2. CHECK BACK DOOR SWITCH

Check continuity between back door switch (back door release actuator) terminals 1 and 2.

Terminal	Back door condition	Continuity
1 - 2	Opened	Yes
	Closed	No

OK or NG?

- OK >> Check the following.
  - Back door switch (back door release actuator) ground circuit
  - Harness for open or short between smart entrance control unit and back door switch (back door release actuator)
- NG >> Replace back door switch (back door release actuator).





# POWER DOOR LOCK — SUPER LOCK —

## Key Switch Check

EIS00202

### 1. CHECK KEY SWITCH INPUT SIGNAL

📱 With CONSULT-II

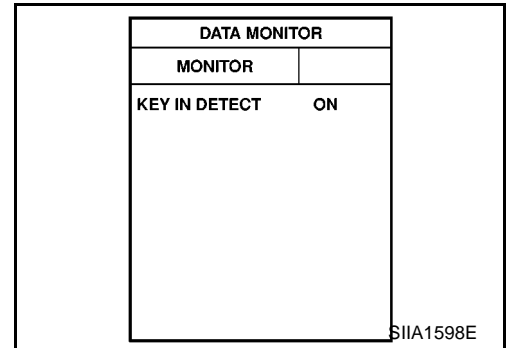
- Check key switch input signal “KEY IN DETECT” in “DATA MONITOR” mode with CONSULT- II.

**When key is inserted in ignition key cylinder:**

**KEY IN DETECT ⇒ ON**

**When key is removed from ignition key cylinder:**

**KEY IN DETECT ⇒ OFF**



⊗ Without CONSULT- II

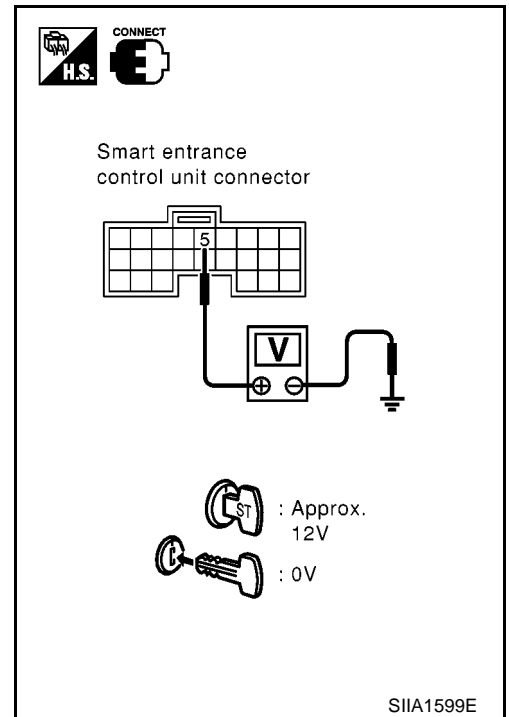
- Check voltage between smart entrance control unit harness connector M41 terminal 5(B/R) and ground.

Terminals		Key switch	Voltage
+	-		
5(B/R)	Ground	Key is inserted	Approx. 12
		Key is removed	0

OK or NG?

OK >> Key switch is OK.

NG >> GO TO 2



# POWER DOOR LOCK — SUPER LOCK —

## 2. CHECK KEY SWITCH (INSERT)

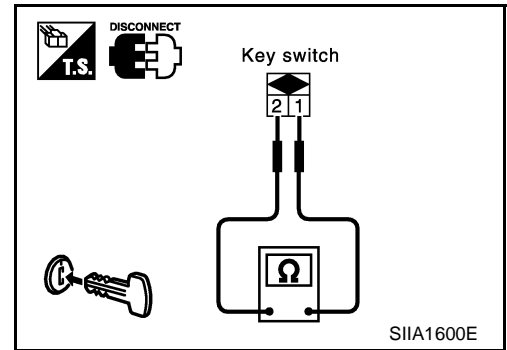
1. Disconnect key switch connector.
2. Check continuity between key switch terminals 1 and 2.

Terminals	Key switch	Continuity
1 – 2	Key is inserted	Yes
	Key is removed	No

OK or NG?

- OK >> Check the following.
- 10A fuse [No. 12, located in fuse block (J/B)]
  - Harness for open or short between key switch and fuse
  - Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



## Super Lock Actuator Check FRONT DOOR

EIS002K8

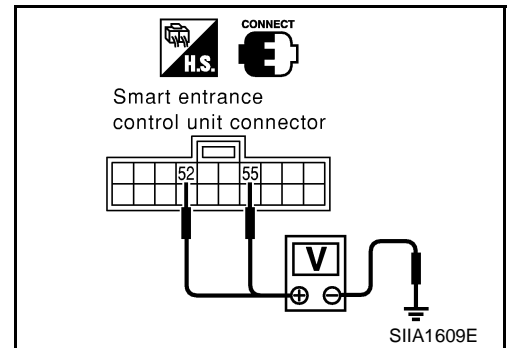
### 1. CHECK OUTPUT SIGNAL FOR SUPER LOCK ACTUATOR

Check voltage between smart entrance control unit harness connector M43 terminal 52(Y), 55(W/B) and ground.

Door key cylinder (Driver side)	Terminals		Voltage
	+	-	
Lock (Set)	55(W/B)	Ground	Approx. 12
Unlock (Released)	52(Y)		

OK or NG?

- OK >> GO TO 2  
 NG >> Replace smart entrance control unit.



### 2. CHECK SUPER LOCK ACTUATOR

1. Disconnect door lock actuator assembly connector.

**Door lock actuator connector (Driver side): D9**

**Door lock actuator connector (Passenger side): D38**

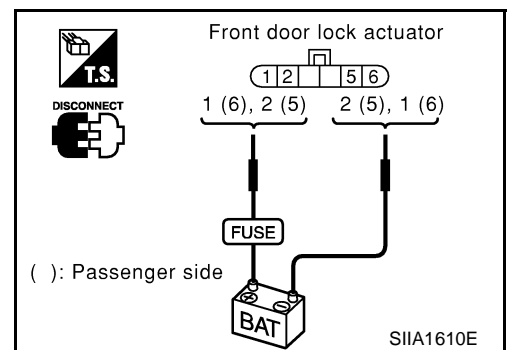
2. Apply 12V direct current to door lock actuator assembly and check operation.

Terminals		Super lock actuator operation
+	-	
1 (6)	2 (5)	Release → Set
2 (5)	1 (6)	Set → Release

( ): Front door passenger side

OK or NG?

- OK >> Check harness for open or short between smart entrance control unit and super lock actuator.  
 NG >> Replace super lock actuator (door lock actuator).



# POWER DOOR LOCK — SUPER LOCK —

## REAR DOOR

### 1. CHECK OUTPUT SIGNAL FOR SUPER LOCK ACTUATOR

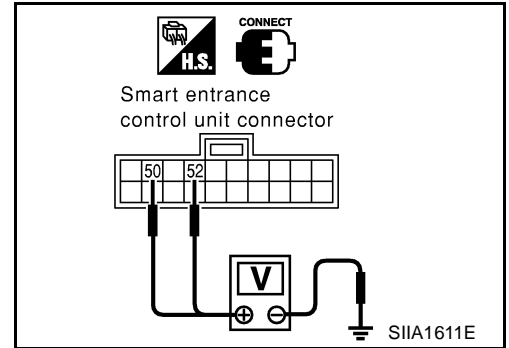
Check voltage between smart entrance control unit harness connector M43 terminal 50(G), 52(Y) and ground.

Door key cylinder (Driver side)	Terminals		Voltage
	+	-	
Lock (Set)	50(G)	Ground	Approx. 12
Unlock (Released)	52(Y)		

OK or NG?

OK >> GO TO 2

NG >> Replace smart entrance control unit.



### 2. CHECK SUPER LOCK ACTUATOR

1. Disconnect door lock actuator assembly connector.

**Door lock actuator connector (Rear LH side): D56**

**Door lock actuator connector (Rear RH side): D66**

2. Apply 12V direct current to door lock actuator assembly and check operation.

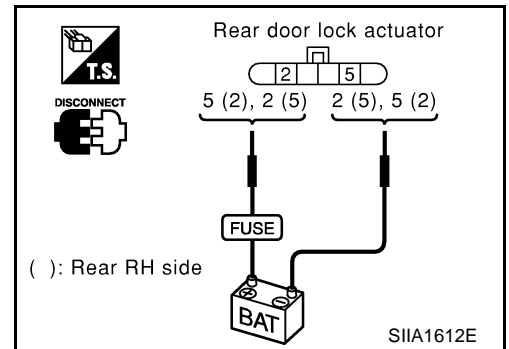
Terminals		Super lock actuator operation
+	-	
5 (2)	2 (5)	Release → Set
2 (5)	5 (2)	Set → Release

( ): Rear door RH side

OK or NG?

OK >> Check harness for open or short between smart entrance control unit and super lock actuator.

NG >> Replace super lock actuator (door lock actuator).



# POWER DOOR LOCK — SUPER LOCK —

EIS00204

## Trunk or Back Door Release Switch Check EXTERNAL SWITCH

### 1. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

④ With CONSULT-II

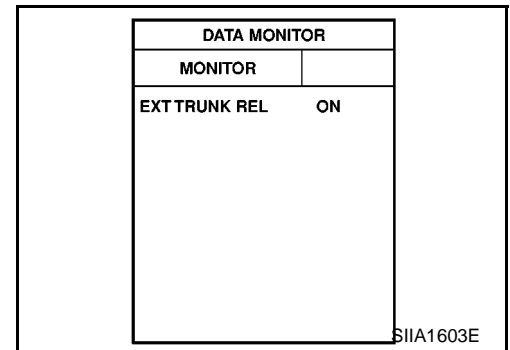
- Check external trunk or back door release switch input signal “EXT TRUNK REL” in “DATA MONITOR” mode with CONSULT- II.

**Release switch is pushed (open):**

**EXT TRUNK REL ON**

**Release switch is released (close):**

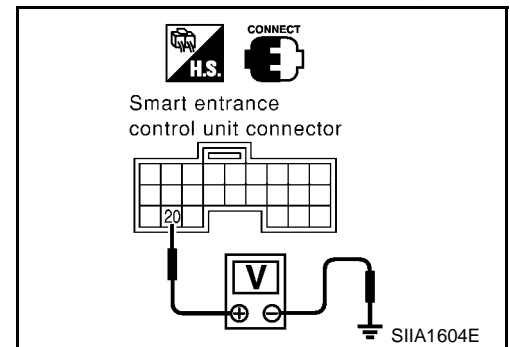
**EXT TRUNK REL OFF**



⊗ Without CONSULT- II

- Check voltage between smart entrance control unit harness connector M41 terminal 20(B/R) and ground.

Terminals		Release switch	Voltage (Approximate values)
+	-		
20(B/R)	Ground	Pushed	0V
		Released	5V



OK or NG?

- OK >> Trunk or back door release switch is OK.
- NG >> GO TO 2

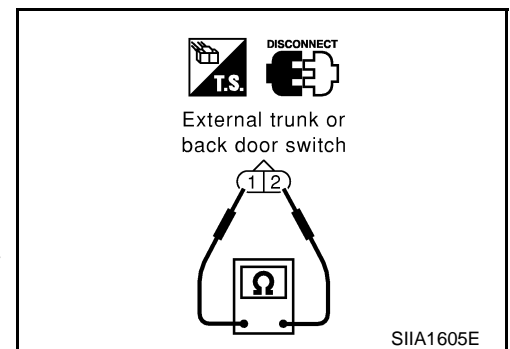
### 2. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH

1. Disconnect external trunk or back door release switch connector.
2. Check continuity between external trunk or back door release switch terminals 1 and 2.

Terminals	Release switch	Continuity
1 - 2	Pushed	Yes
	Released	No

OK or NG?

- OK >> Check the following.
  - Harness for open or short between external trunk or back door release switch and smart entrance control unit
  - External trunk or back door release switch ground circuit
- NG >> Replace external trunk or back door release switch.



# POWER DOOR LOCK — SUPER LOCK —

## POWER WINDOW MAIN SWITCH

### 1. CHECK TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

Ⓜ With CONSULT-II

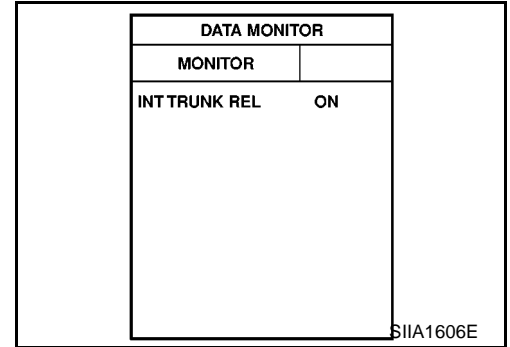
- Check trunk or back door release switch input signal “INT TRUNK REL” in “DATA MONITOR” mode with CONSULT- II.

Release switch is pushed (open):

INT TRUNK REL ON

Release switch is released (close):

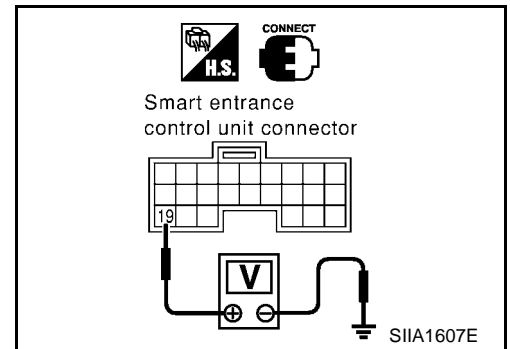
INT TRUNK REL OFF



⊗ Without CONSULT- II

- Check voltage between smart entrance control unit harness connector M41 terminal 19(BR/W) and ground.

Terminals		Release switch	Voltage (Approximate values)
+	-		
19(BR/W)	Ground	Pushed	0V
		Released	5V



OK or NG?

OK >> Trunk or back door release switch is OK.

NG >> GO TO 2

### 2. CHECK TRUNK OR BACK DOOR RELEASE SWITCH

1. Disconnect power window main switch (trunk or back door release switch) connector.
2. Check continuity between power window main switch (trunk or back door release switch) terminals 3 and 12.

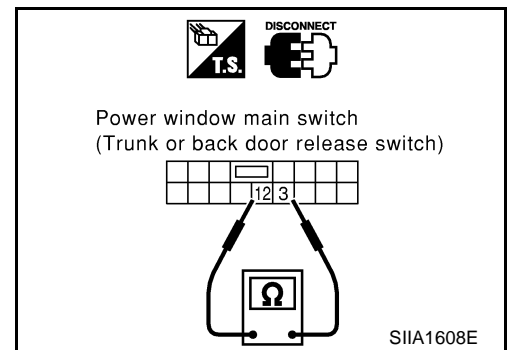
Terminals	Release switch	Continuity
3-12	Pushed	Yes
	Released	No

OK or NG?

OK >> Check the following.

- Harness for open or short between power window main switch (trunk or back door release switch) and smart entrance control unit
- Power window main switch (trunk or back door release switch) ground circuit

NG >> Replace power window main switch (trunk or back door release switch).



# POWER DOOR LOCK — SUPER LOCK —

EIS002Y1

## Trunk Release Actuator Check (Sedan)

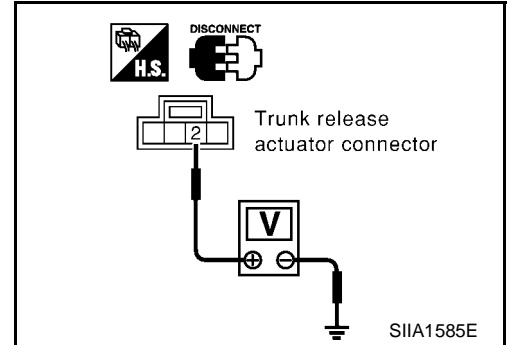
### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect trunk release actuator harness connector.
3. Check voltage between trunk release harness connector D90 terminal 2(P) and ground.

Terminal		Voltage
+	-	
2(P)	Ground	Battery voltage

OK or NG?

- OK >> GO TO 2  
 NG >> Check trunk release actuator power supply circuit for open or short.



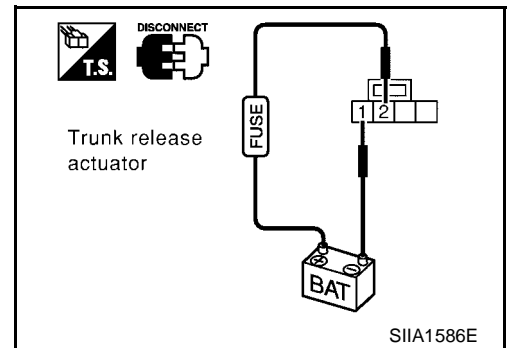
### 2. CHECK TRUNK RELEASE ACTUATOR

1. Disconnect back door release actuator harness connector.
2. Apply 12V direct current to trunk release actuator and check operation.

Terminal		Trunk release actuator operation
+	-	
2	1	Lock → Release

OK or NG?

- OK >> GO TO 3  
 NG >> Replace trunk release actuator.



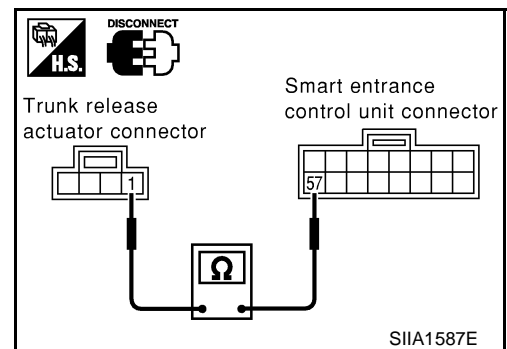
### 3. CHECK TRUNK RELEASE ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between trunk release actuator harness connector D90 terminal 1(G/B) and smart entrance control unit harness connector M43 terminal 57(G/B).

Terminal		Continuity
Trunk release actuator	Smart entrance control unit	
1(G/B)	57(G/B)	Yes

OK or NG?

- OK >> Replace smart entrance control unit.  
 NG >> Check harness for open or short between smart entrance control unit and trunk release actuator.



# POWER DOOR LOCK — SUPER LOCK —

E/S002Y2

## Back Door Release Actuator Check (Wagon)

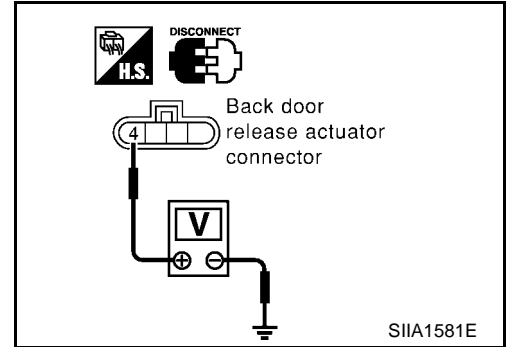
### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect back door release actuator harness connector.
3. Check voltage between back door release actuator harness connector B30 terminal 4(P) and ground.

Terminal		Voltage
+	-	
4(P)	Ground	Battery voltage

OK or NG?

- OK >> GO TO 2  
 NG >> Check back door release actuator power supply circuit for open or short.



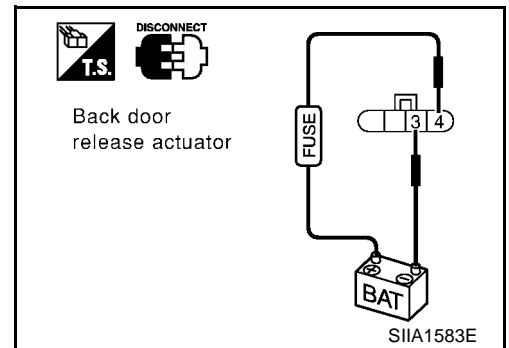
### 2. CHECK BACK DOOR RELEASE ACTUATOR

1. Disconnect back door release actuator harness connector.
2. Apply 12V direct current to back door release actuator and check operation.

Terminal		Back door release actuator operation
+	-	
4	3	Lock → Release

OK or NG?

- OK >> GO TO 3  
 NG >> Replace back door lock actuator.



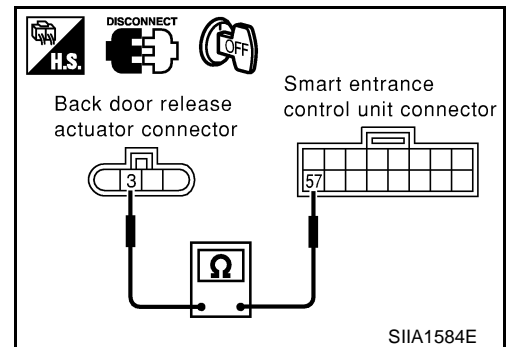
### 3. CHECK BACK DOOR RELEASE ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between back door release actuator harness connector B30 terminal 3(G/B) and smart entrance control unit harness connector M43 terminal 57(G/B).

Terminal		Continuity
Back door release actuator	Smart entrance control unit	
3(G/B)	57(G/B)	Yes

OK or NG?

- OK >> Replace smart entrance control unit.  
 NG >> Check harness for open or short between smart entrance control unit and back door release actuator.



# POWER DOOR LOCK — SUPER LOCK —

EIS00206

## Child Lock Switch Check

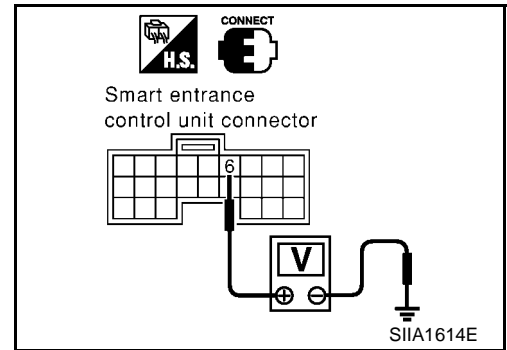
### 1. CHECK CHILD LOCK SWITCH INPUT SIGNAL

- Check voltage between smart entrance control unit harness connector M41 terminal 6(BR) and ground.

Terminals		Child lock switch	Voltage (Approximate values)
+	-		
6(BR)	Ground	Unlock operation	0V
		Lock operation	5V

OK or NG?

- OK >> Child lock switch is OK.
- NG >> GO TO 2



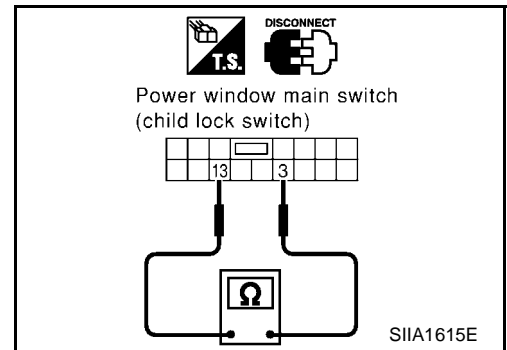
### 2. CHECK CHILD LOCK SWITCH

- Disconnect power window main switch (Child lock switch) connector.
- Check continuity between power window main switch (Child lock switch) terminals 3 and 13.

Terminals	Child lock switch	Continuity
3 - 13	Unlock operation	Yes
	Lock operation	No

OK or NG?

- OK >> Check the following.
  - Harness for open or short between power window main switch (Child lock switch) and smart entrance control unit
  - Power window main switch (Child lock switch) ground circuit
- NG >> Replace power window main switch (Child lock switch).



## Child Lock State Switch Check

EIS00207

### 1. CHECK CHILD LOCK STATE SWITCH INPUT SIGNAL

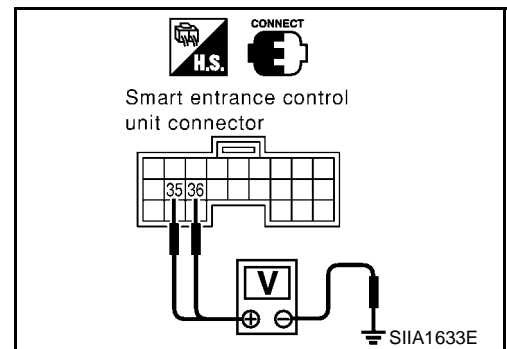
- Check voltage between smart entrance control unit harness connector M42 terminal 36:R/W(35:Y/B) and ground.

Terminals		Rear door lock actuator condition	Voltage (Approximate values)
+	-		
36:R/W (35:Y/B)	Ground	Super locked	0V
		Not super locked	5V

( ): Rear door RH side

OK or NG?

- OK >> Super lock status switch is OK.
- NG >> GO TO 2





# POWER DOOR LOCK — SUPER LOCK —

## 2. CHECK CHILD LOCK STATE SWITCH

1. Disconnect rear door lock actuator connector.
2. Check continuity between rear door lock actuator terminals 4(3) and 6(1).

Terminals	Rear door lock actuator condition	Continuity
4(3) – 6(1)	Super locked	Yes
	Not super locked	No

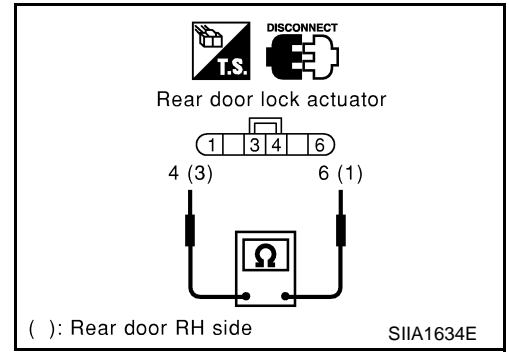
( ): Rear door RH side

OK or NG?

OK >> Check the following.

- Harness for open or short between rear door lock actuator and smart entrance control unit
- Rear door lock actuator (Super lock status switch) ground circuit

NG >> Replace rear door lock actuator.



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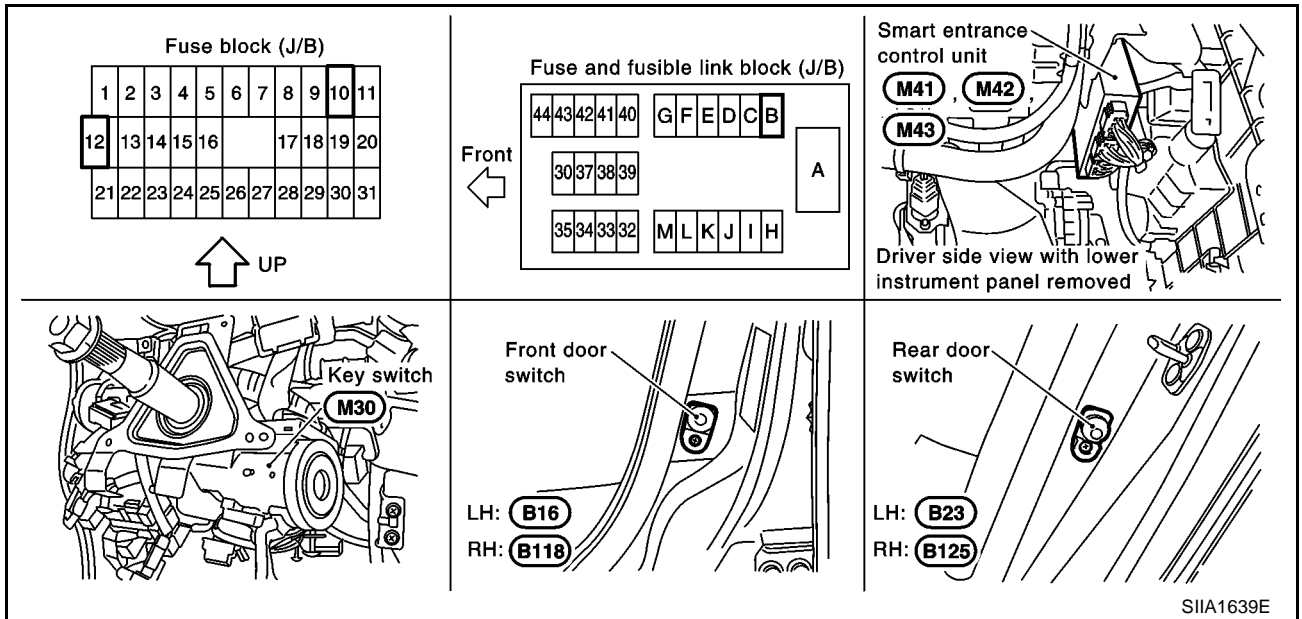
# MULTI-REMOTE CONTROL SYSTEM

## MULTI-REMOTE CONTROL SYSTEM

PFP:28596

### Component Parts and Harness Connector Location

EIS002KM



### System Description INPUTS

EIS002KN

Power is supplied at all times

- to smart entrance control unit terminal 56 and
- to key switch terminal 1
- through 10A fuse (No.12, located in the fusible link and fuse box).
- to smart entrance control unit terminal 49
- through 40A fusible link (letter B, located in the fusible link and fuse box).

When the key switch is ON (Ignition key is inserted in key cylinder), power is supplied

- through key switch terminal 2
- to smart entrance control unit terminal 5.

When the front door switch (driver side) is ON (door is open), ground supplied

- to smart entrance control unit terminal 43
- through front door switch (driver side) terminal 1
- from front door switch (drive side) case ground.

When the front door switch (passenger side) is ON (door is open), ground supplied

- to smart entrance control unit terminal 44
- through front door switch (passenger side) terminal 1
- from front door switch (passenger side) case ground.

When the rear door switch (LH) are ON (door is open), ground is supplied

- to smart entrance control unit terminal 45(LHD models) or 39(RHD models)
- through rear door switch (LH) terminal 1
- from rear door switch (LH) case ground.

When the rear door switch (RH) are ON (door is open), ground is supplied

- to smart entrance control unit terminal 39(LHD models) or 45(RHD models)
- through rear door switch (RH) terminal 1
- from rear door switch (RH) case ground.

Remote controller signal is inputted to smart entrance control unit (The antenna of the system is combined with smart entrance control unit).

# MULTI-REMOTE CONTROL SYSTEM

---

The multi-remote control system controls operation of the

- power door lock
- hazard reminder

A

## OPERATED PROCEDURE

B

### Power Door Lock Operation

#### Models with super lock

Smart entrance control unit receives a LOCK signal from remote controller. Smart entrance control unit locks all doors with input of LOCK signal from remote controller.

C

When an UNLOCK signal is sent from remote controller once, driver's door will be unlocked.

Then, if an UNLOCK signal is sent from remote controller again within 5 seconds, all door will be unlocked.

D

#### Models without super lock

Smart entrance control unit receives a LOCK/UNLOCK signal from remote controller. Smart entrance control unit locks/unlocks all doors with input of LOCK/UNLOCK signal from remote controller.

E

### Hazard Reminder

When the doors are locked or unlocked by remote controller, supply power to hazard warning lamp flashes as follows

- LOCK operation: Flash once
- UNLOCK operation: Flash twice

F

### Remote Controller ID Code Entry

G

A maximum of four remote controllers can be entered.

To enter ID code entry, the following signals must be input to the smart entrance control unit.

- Ignition switch (ON)
- Signal from remote controller

H

For detailed procedure, refer to [BL-106, "ID Code Entry Procedure"](#)

BL

J

K

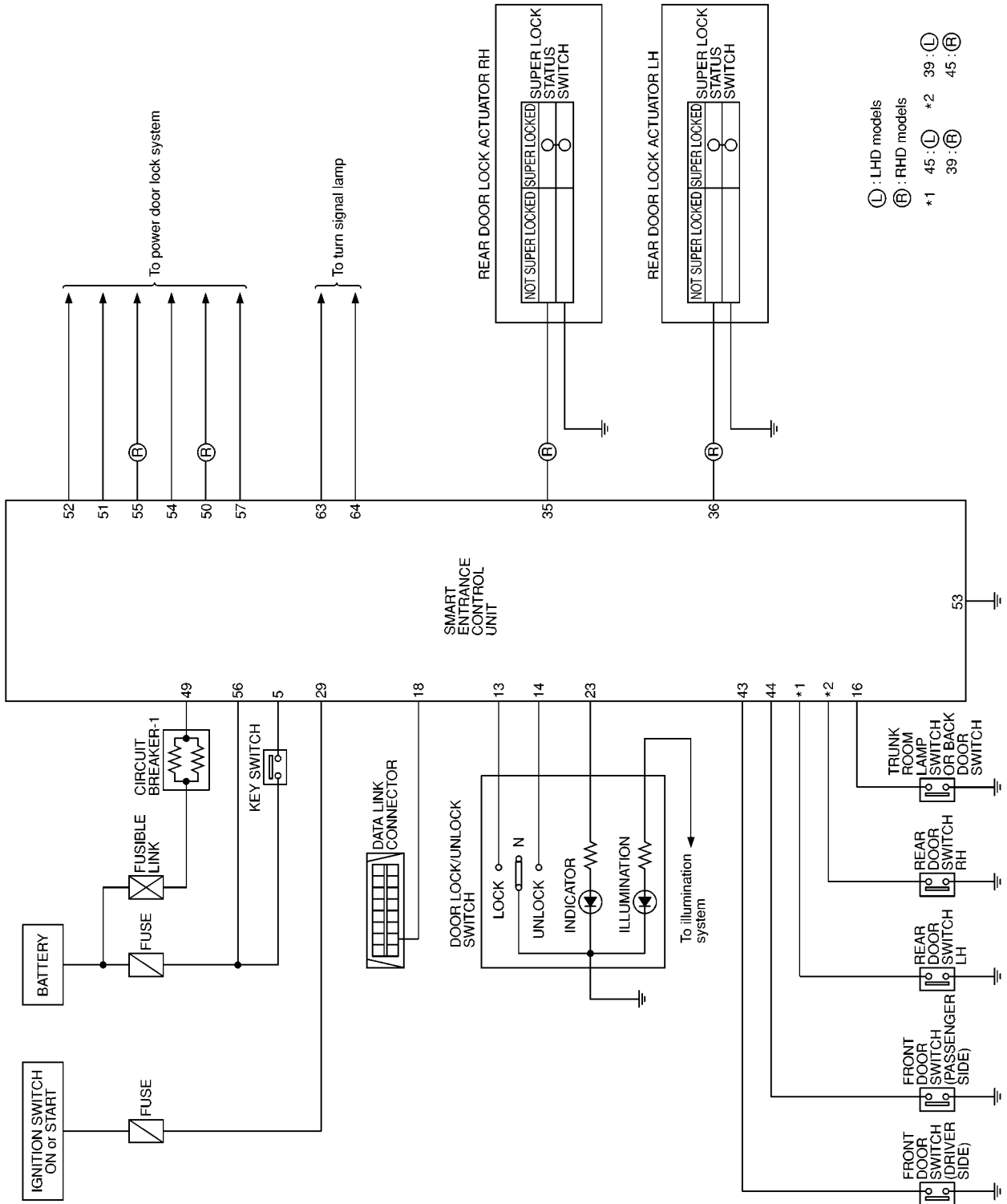
L

M

# MULTI-REMOTE CONTROL SYSTEM

## Schematic

EIS002KO

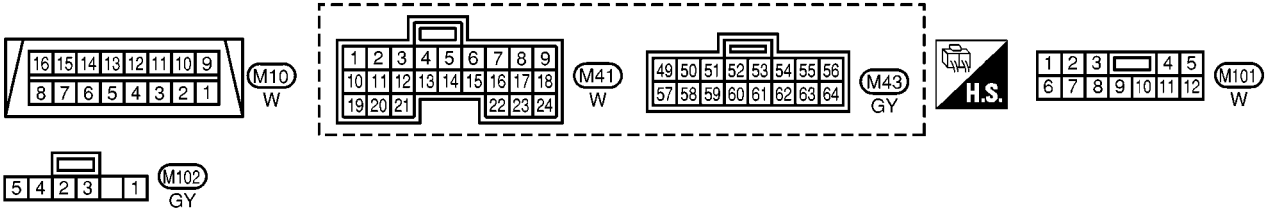
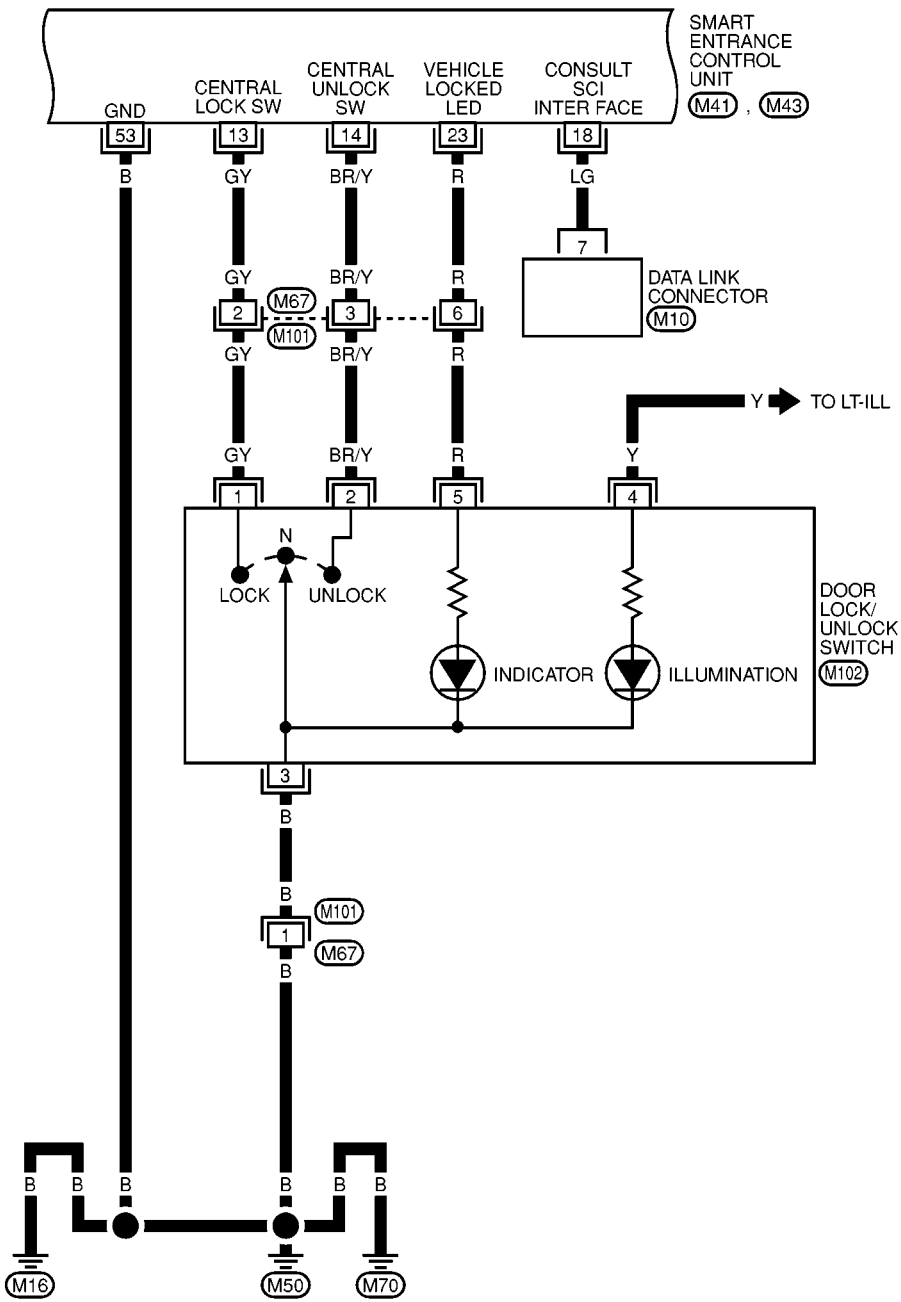


MKWA0112E



# MULTI-REMOTE CONTROL SYSTEM

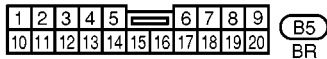
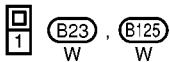
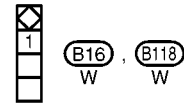
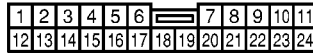
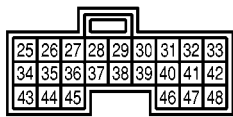
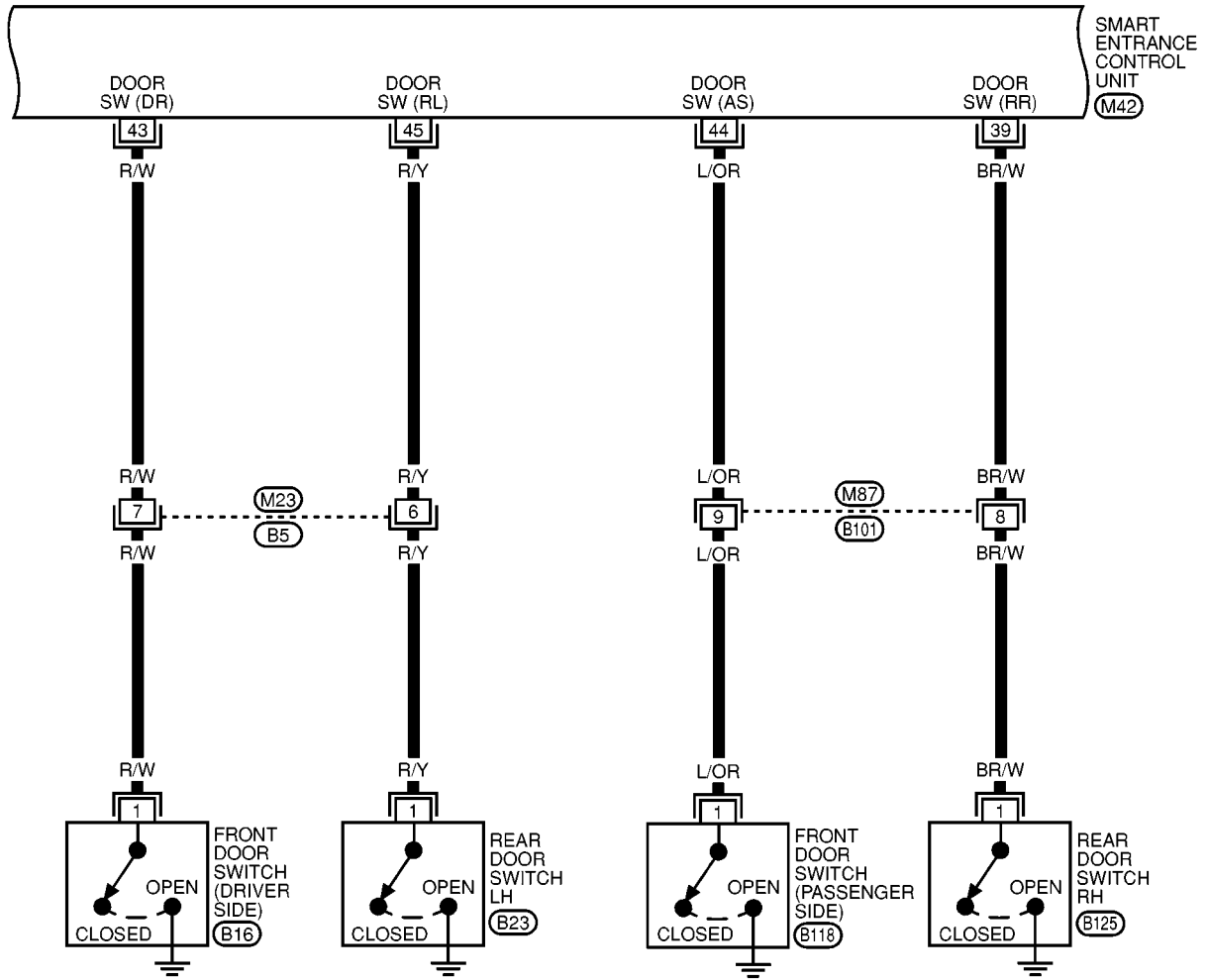
BL-MULTI-02



MKWA0114E

# MULTI-REMOTE CONTROL SYSTEM

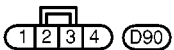
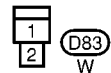
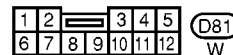
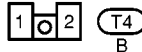
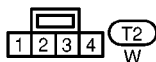
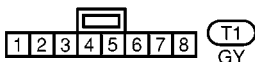
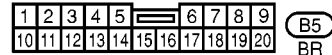
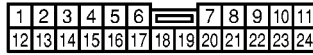
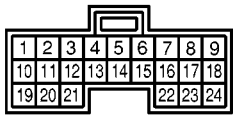
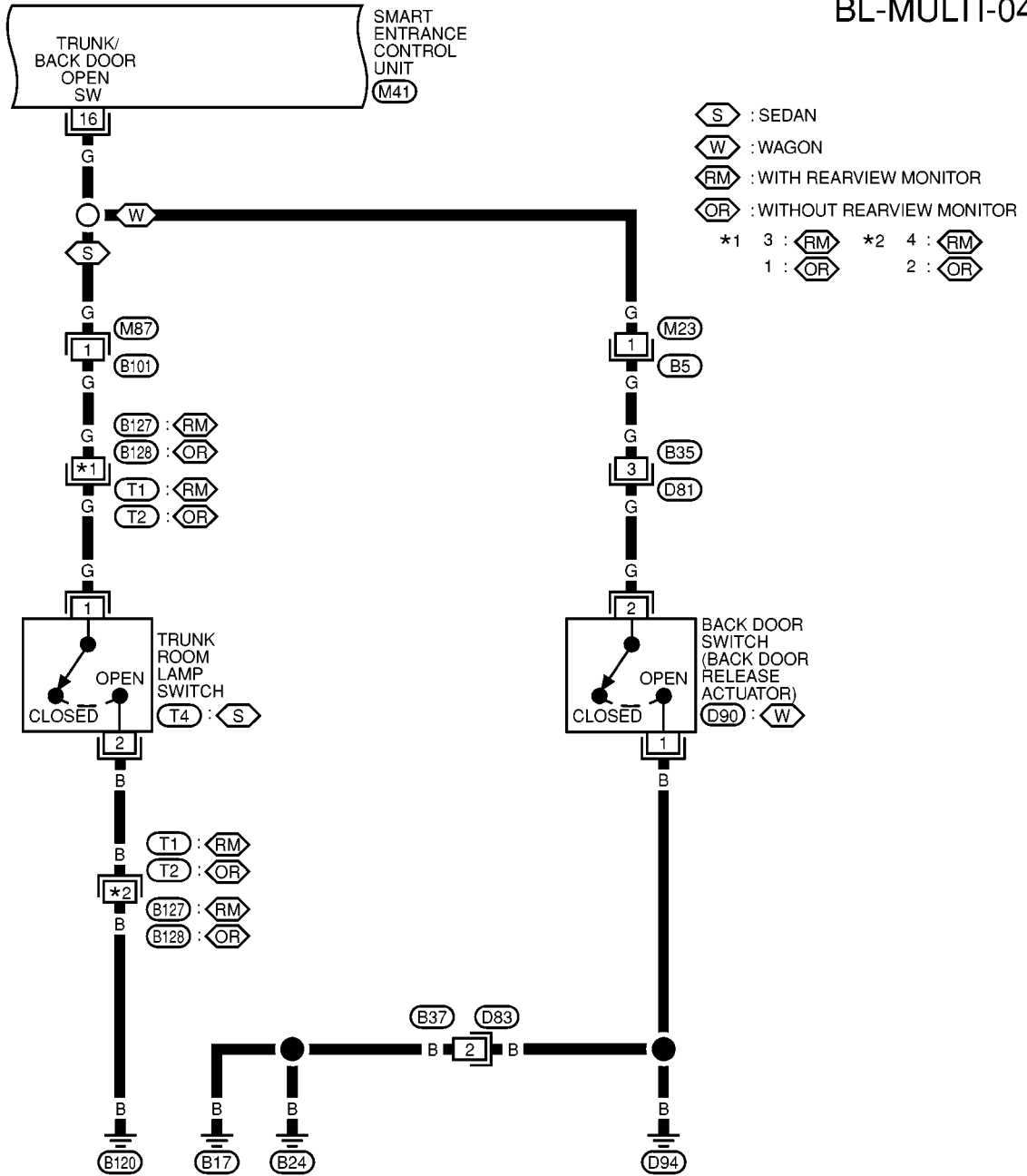
BL-MULTI-03



MKWA0115E

# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-04

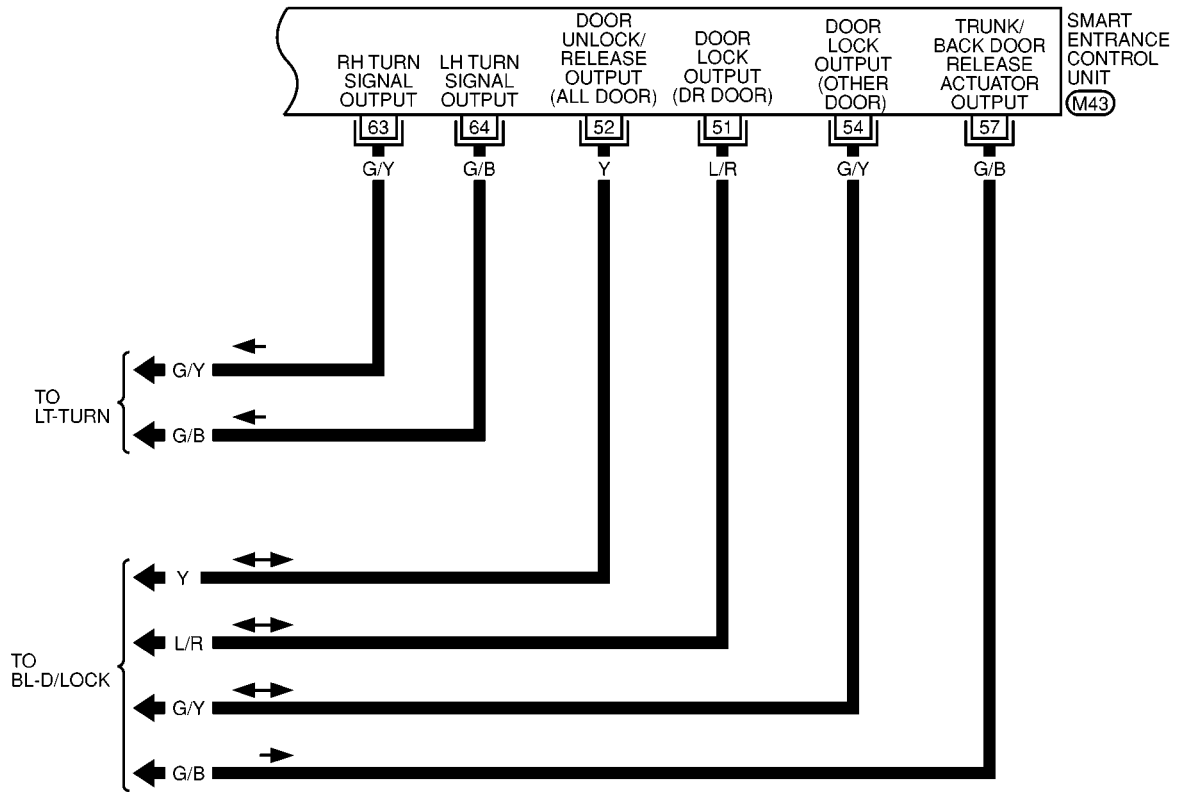


MKWA0116E

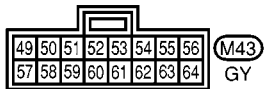


# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-05



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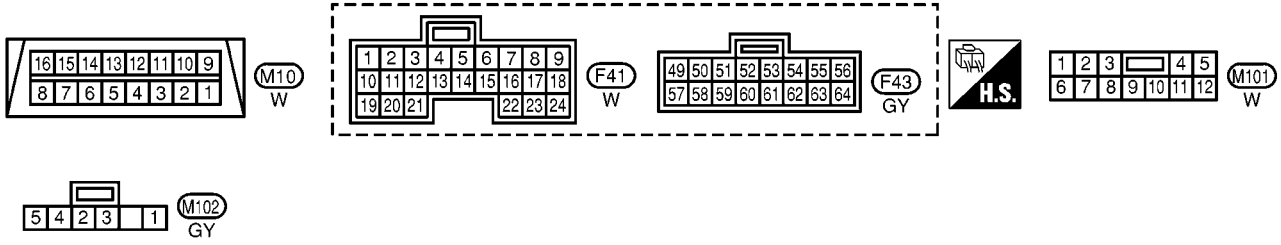
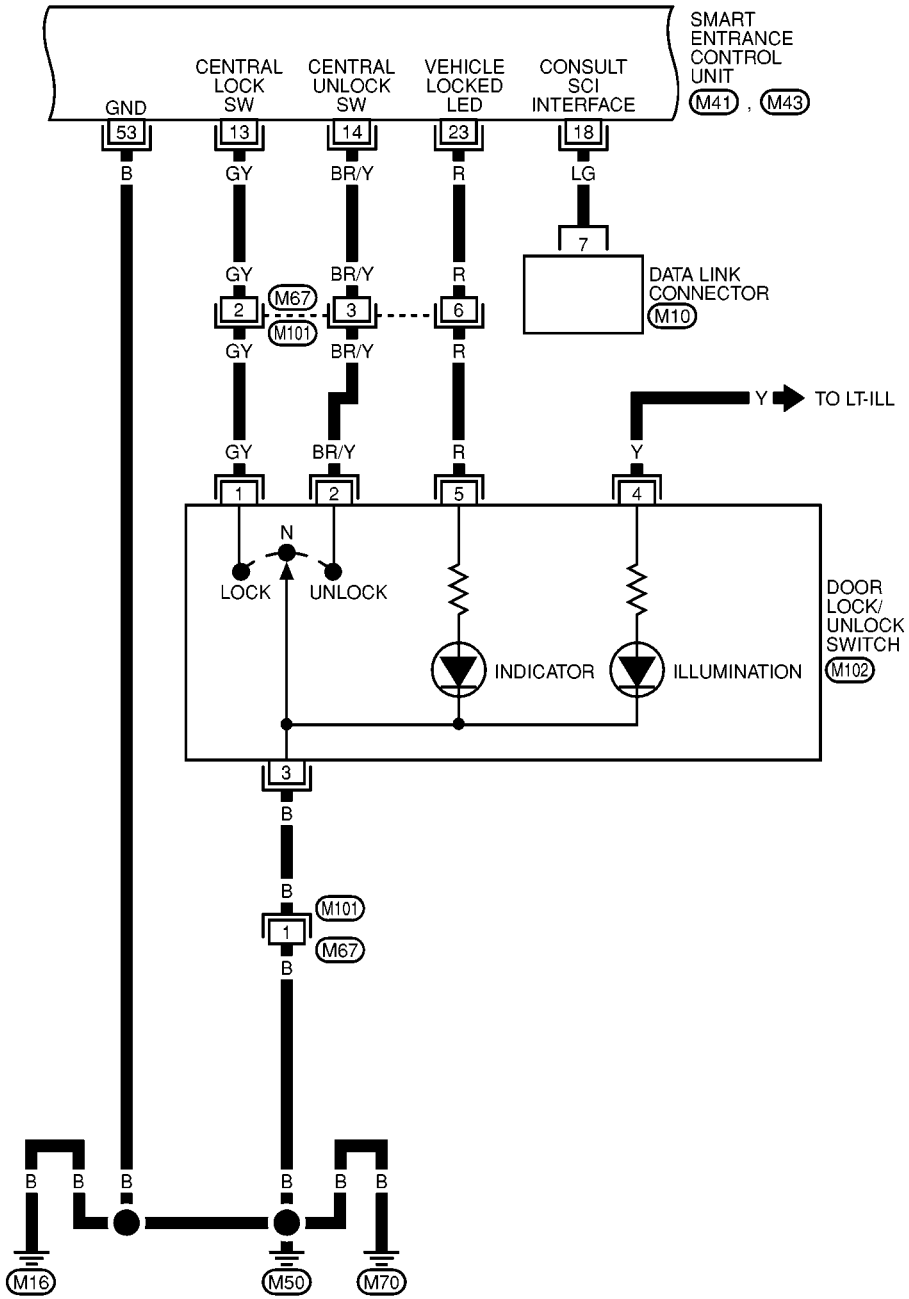
MKWA0117E



# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-07

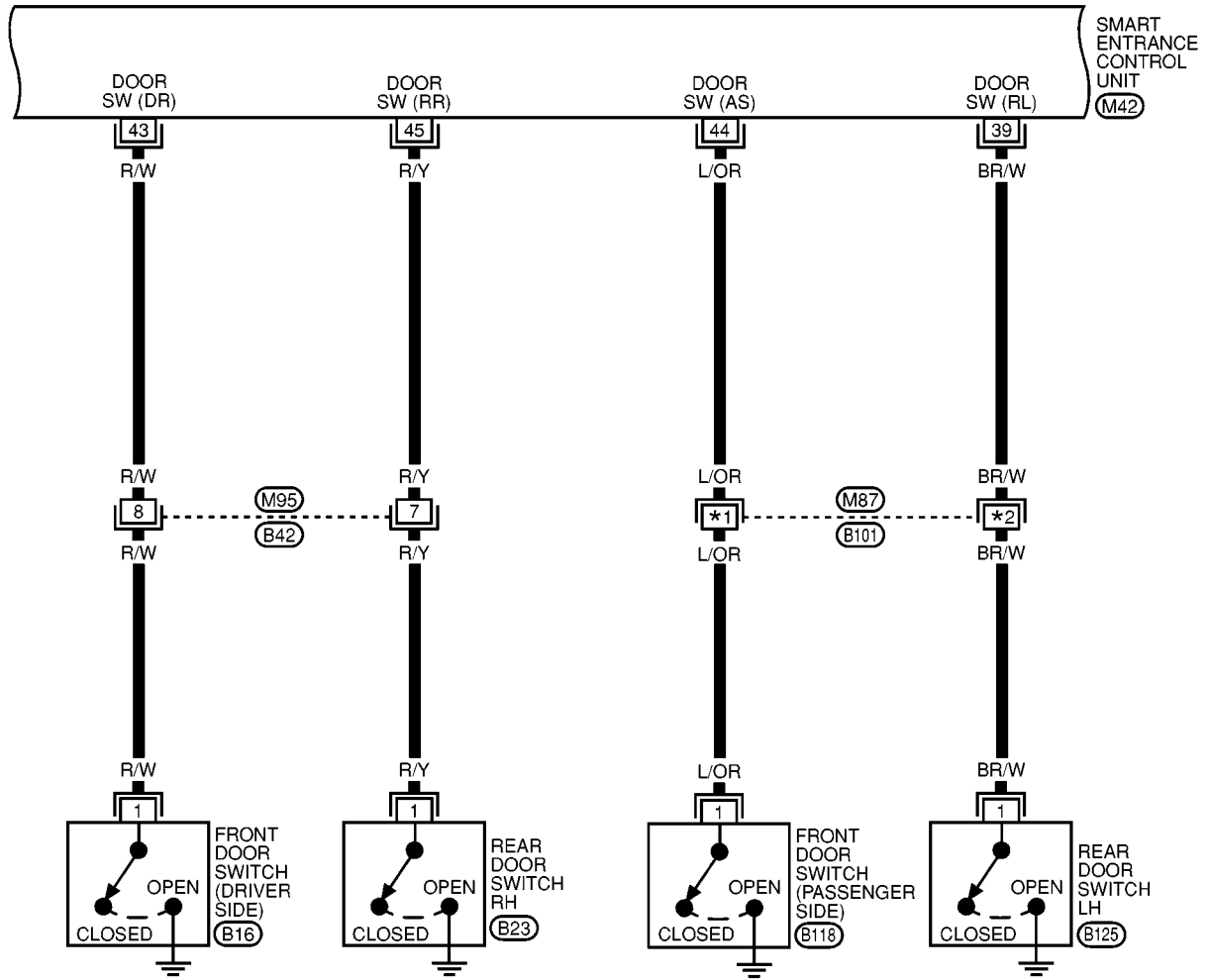
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MKWA0119E

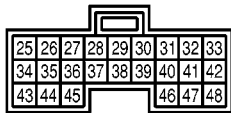
# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-08

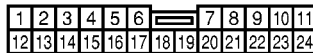


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 <OE> : WITHOUT ESP/TCS/ABS CONTROL UNIT

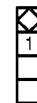
\*1 11 : <ES>      \*2 24 : <ES>  
 9 : <OE>            8 : <OE>



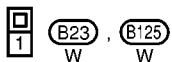
M42  
GY



M87, B42  
W GY



B16, B118  
W W

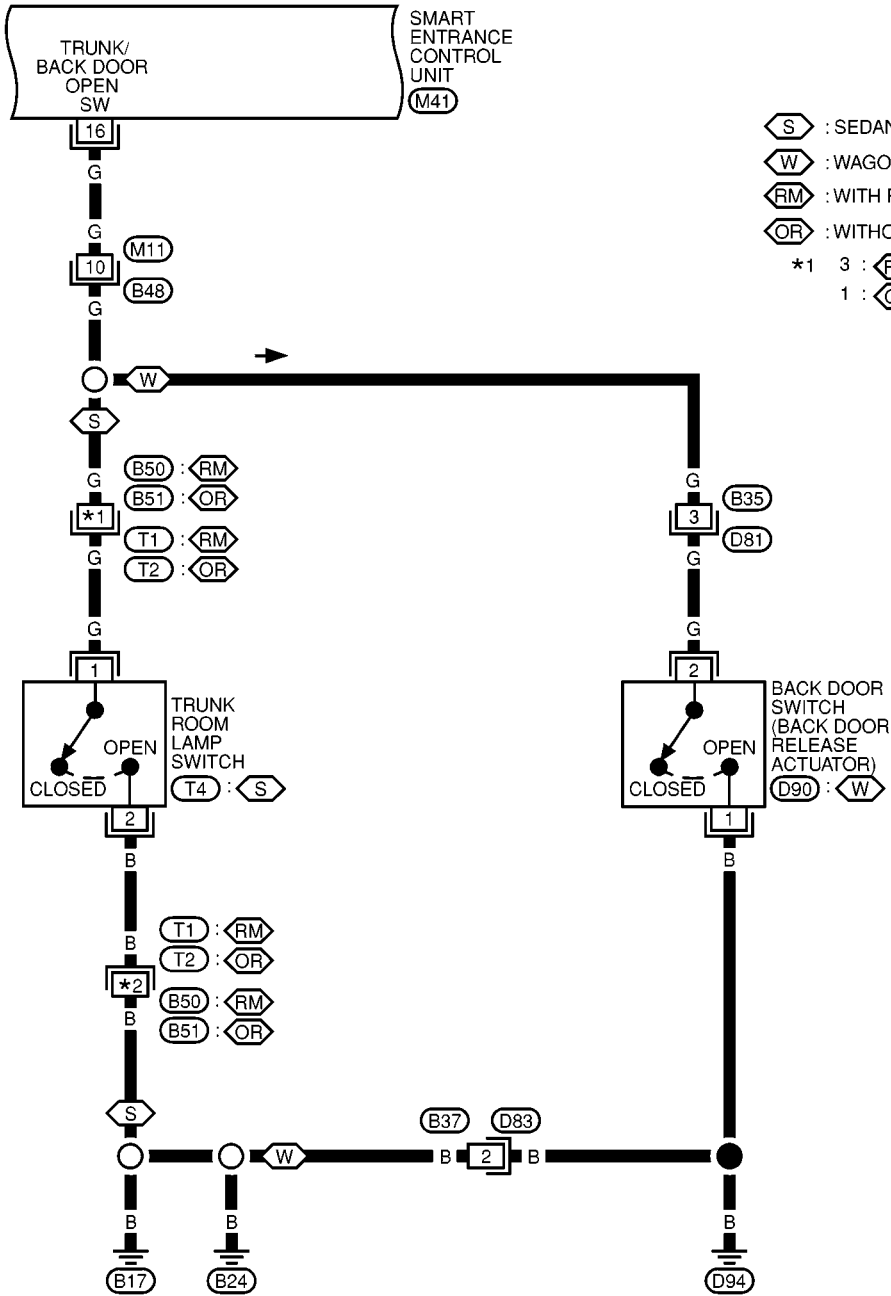


B23, B125  
W W

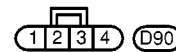
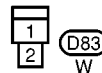
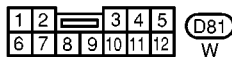
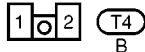
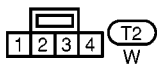
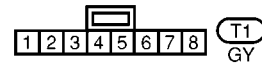
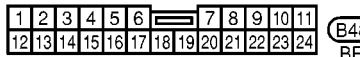
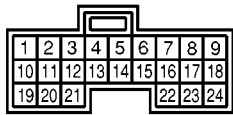
MKWA0120E

# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-09



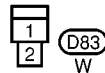
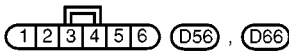
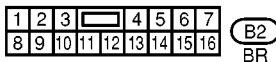
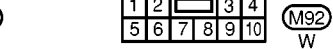
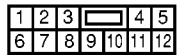
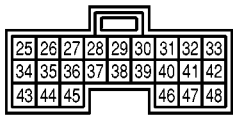
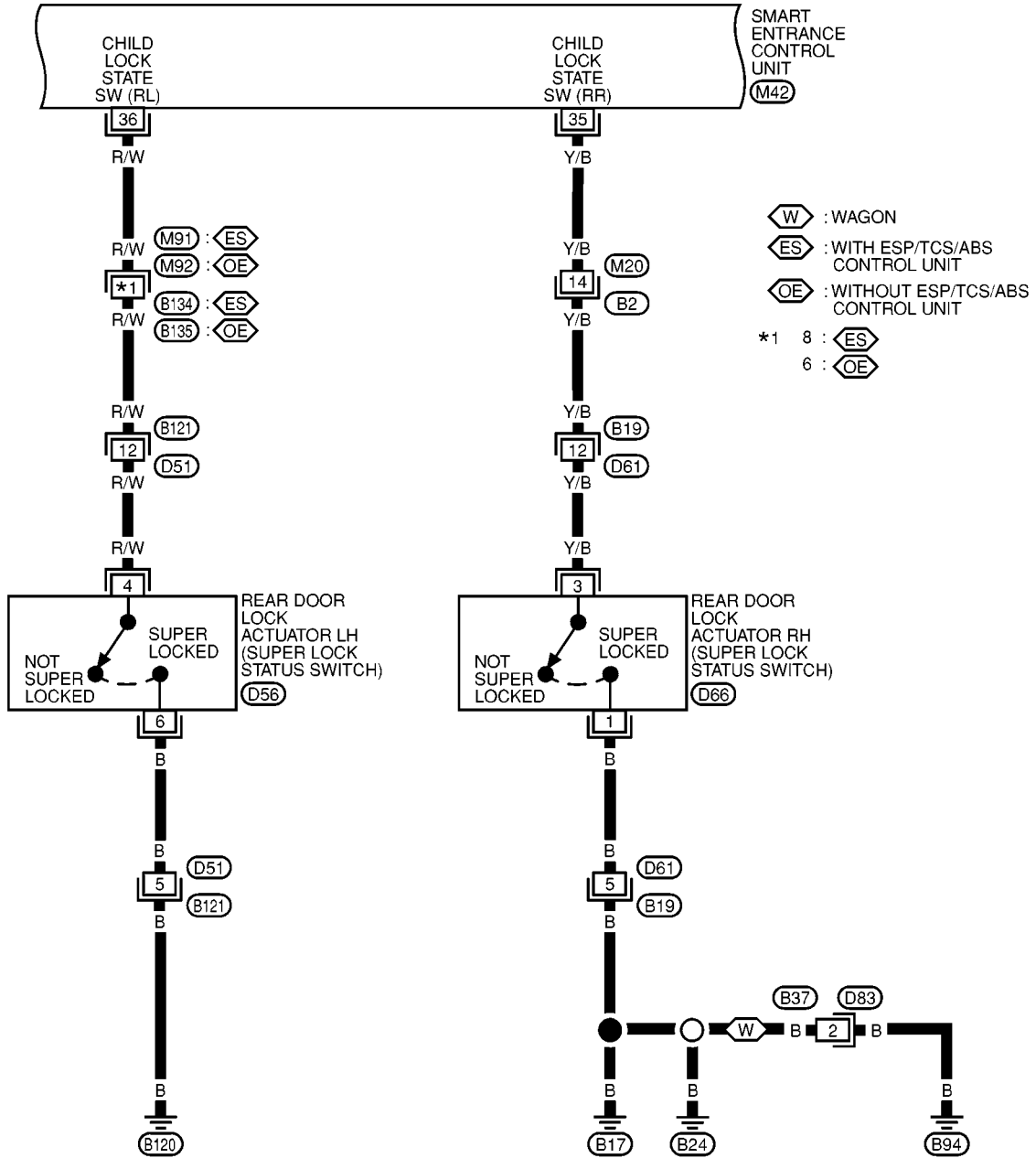
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MKWA0121E

# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-10

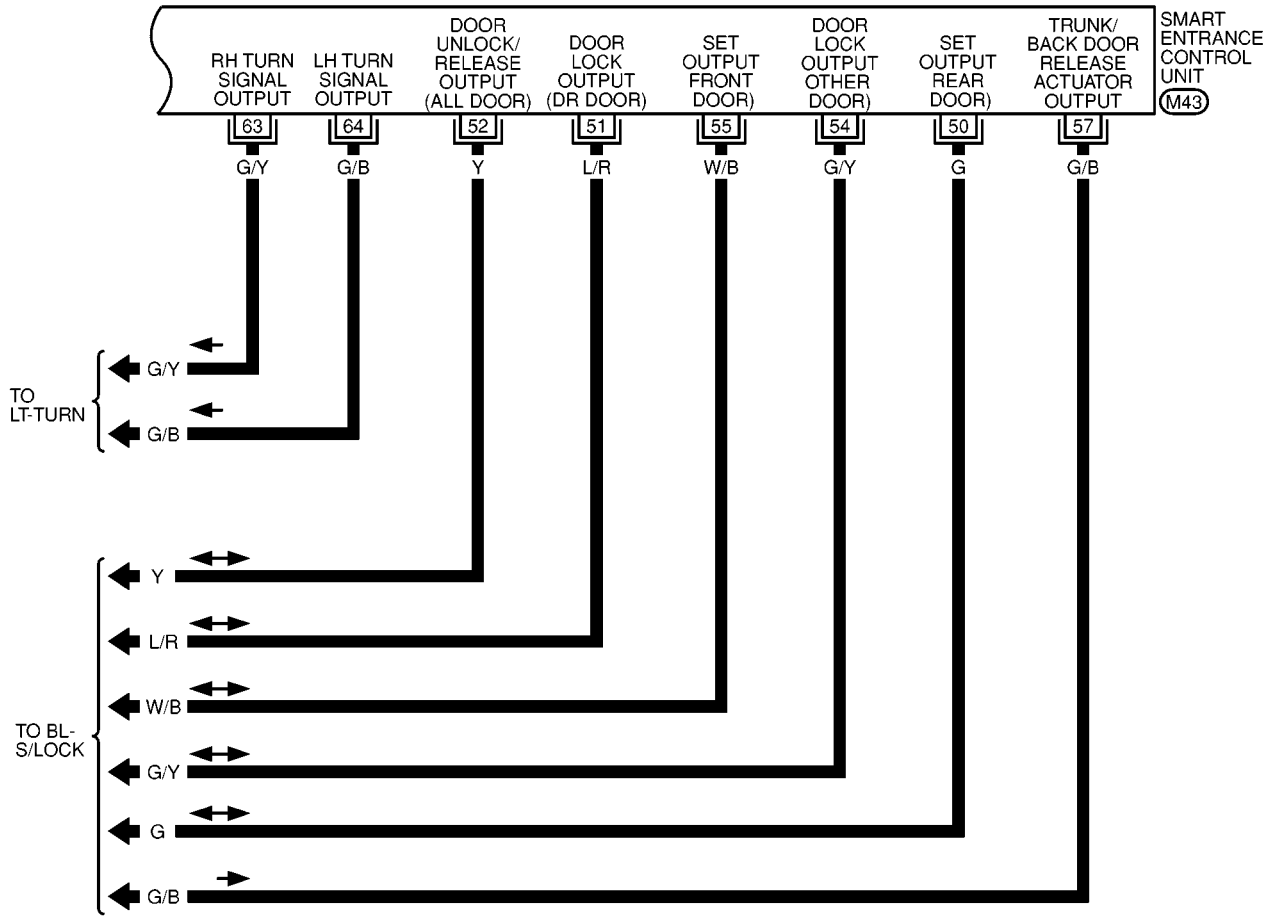


MKWA0122E

# MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-11

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MKWA0123E

# MULTI-REMOTE CONTROL SYSTEM

## Terminal and Reference Value for Smart Entrance Control Unit

EIS002OL

TER-MINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (Approximate values)
5	B/R	Key switch	Key inserted (ON) → key removed from IGN key cylinder (OFF)	Battery voltage → 0V
13	GY	Door lock/unlock switch (Lock signal)	Lock operation (ON)	0V
			Other than above (OFF)	5V
14	BR/Y	Door lock/unlock switch (Unlock signal)	Unlock operation (ON)	0V
			Other than above (OFF)	5V
16	G	Trunk room lamp switch (Back door switch)	Trunk (Back door) open (ON) → close (OFF)	0V → Battery voltage
19	BR/W	External trunk or back door release switch	OFF → ON	5V → 0V
20	BR	Power window main switch (Trunk or back door release switch)	OFF → ON	5V → 0V
23	R	Door lock/unlock switch indicator	Goes OFF → Illuminates (Ignition switch ON and all door closed)	0V → Battery voltage
29	Y/G	IGN power supply	—	Battery voltage
35	Y/B	Super lock status switch (Rear door RH side)	Super locked → Not super locked	0V → 5V
36	R/W	Super lock status switch (Rear door LH side)	Super locked → Not super locked	0V → 5V
39	BR/W	Rear door switch RH (LHD models)	Door open (ON) → close (OFF)	0V → Battery voltage
		Rear door switch LH (RHD models)		
43	R/W	Driver door switch	Door open (ON) → close (OFF)	0V → Battery voltage
44	L/OR	Passenger door switch	Door open (ON) → close (OFF)	0V → Battery voltage
45	R/Y	Rear door switch LH (LHD models)	Door open (ON) → close (OFF)	0V → Battery voltage
		Rear door switch RH (RHD models)		
49	W/L	Power source (PTC)	—	Battery voltage
50	G	Super lock actuator set (Rear door)	Driver's door key cylinder Lock operation (Set)	0V → 12V
51	L/R	Door lock actuator lock (ALL Door)	Door lock/unlock switch LOCK operation	0V → 12V
52	Y	Door lock actuator unlock (Driver side)	Door lock/unlock switch Unlock operation	0V → 12V
53	B	Ground	—	0V
54	G/Y	Door lock actuator lock (Passenger and rear LH, RH side)	Door lock/unlock switch LOCK operation	0V → 12V
55	W/B	Super lock actuator set (Front door)	Driver's door key cylinder Lock operation (Set)	0V → 12V
56	R/B	BAT power supply	—	Battery voltage
57	G/B	Trunk (Back door) release actuator	Power window main switch (Trunk or back door release switch) OPEN operation	Battery voltage → 0V

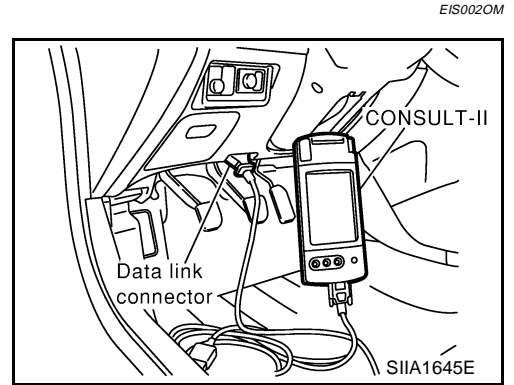


# MULTI-REMOTE CONTROL SYSTEM

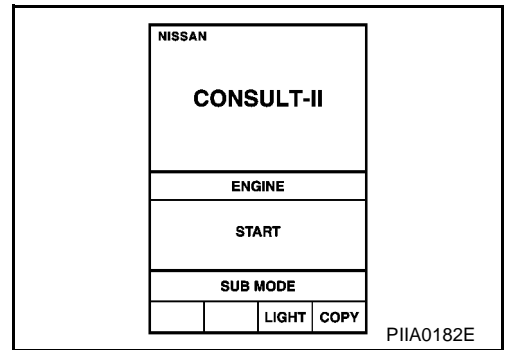
TER-MINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (Approximate values)
63	G/Y	Hazard reminder (Turn signal lamp RH)	When door lock or unlock operated using remote controller (ON → OFF)	0V → Battery voltage
64	G/B	Hazard reminder (Turn signal lamp LH)	When door lock or unlock operated using remote controller (ON → OFF)	0V → Battery voltage

## CONSULT- II Inspection Procedure

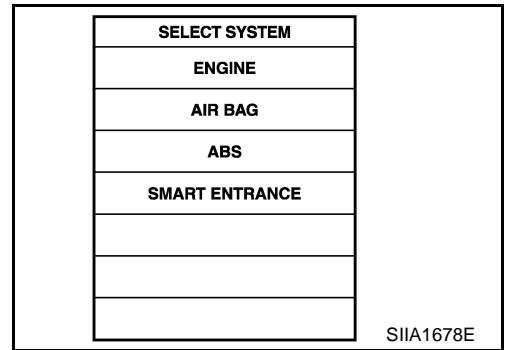
1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.



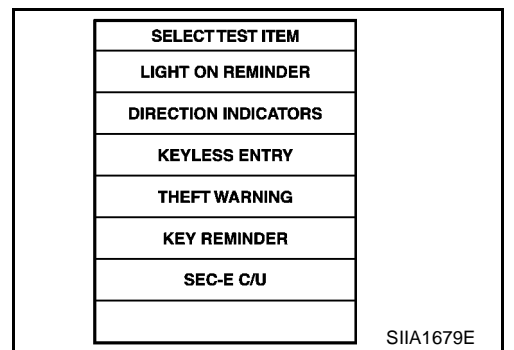
3. Turn ignition switch "ON".
4. Touch "START".



5. Touch "SMART ENTRANCE".

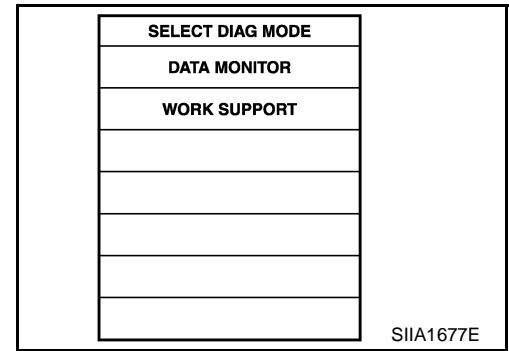


6. Touch "KEYLESS ENTRY".



# MULTI-REMOTE CONTROL SYSTEM

7. Select diagnosis mode.  
 "DATA MONITOR" and "WORK SUPPORT" are available.



## CONSULT- II Application Items

### DATA MONITOR

EIS0020N

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch in ON position.
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (wagon) open signal from trunk or back door release switch.
BATTERY CHECK	Indicates [OK/NG] condition of remote controller battery.

### WORK SUPPORT

Test Item	Description
KEYLESS CHECK	It can be checked whether remote controller ID code is registered or not in this mode.
KEYLESS REGISTRATION	Remote controller ID code can be registered.
KEYLESS DI FLASH	This mode can be setting remote controller function.

## Trouble Diagnoses

EIS002KT

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-33, "CONSULT-II INSPECTION PROCEDURE"](#).

### NOTE:

- Always check remote controller battery before replacing remote controller.

### SYMPTOM CHART

Symptom	Diagnoses/service procedure	Reference page
All function of multi-remote control system do not operate.	Remote controller battery check	<a href="#">BL-99</a>
	Power supply and ground circuit for smart entrance control unit check	<a href="#">BL-99</a>
	.If above systems are OK, replace smart entrance control unit.	—
The new ID of remote controller cannot be entered.	Remote controller battery check	<a href="#">BL-99</a>
	Key switch check	<a href="#">BL-105</a>
	Door switch check	<a href="#">BL-100</a>
	Power supply and ground circuit check	<a href="#">BL-99</a>
	If above systems are OK, replace smart entrance control unit.	—
Door lock or unlock does not function.	If the power door lock system does not operate manually, check power door lock system.	<a href="#">BL-25</a>
	Remote controller battery check	<a href="#">BL-99</a>
	If above systems are OK, replace smart entrance control unit.	—

# MULTI-REMOTE CONTROL SYSTEM

Symptom	Diagnoses/service procedure	Reference page
Hazard reminder does not activate properly when pressing lock or unlock button of remote controller.	Remote controller battery check	<a href="#">BL-99</a>
	Hazard reminder check	<a href="#">BL-106</a>
	If above systems are OK, replace smart entrance control unit.	—

## Remote Controller Battery Check

EIS002KU

### 1. CHECK REMOTE CONTROLLER BATTERY

Remove battery and measure voltage across battery positive and negative terminals, (+) and (-).

**Voltage : 2.5V – 3.0V**

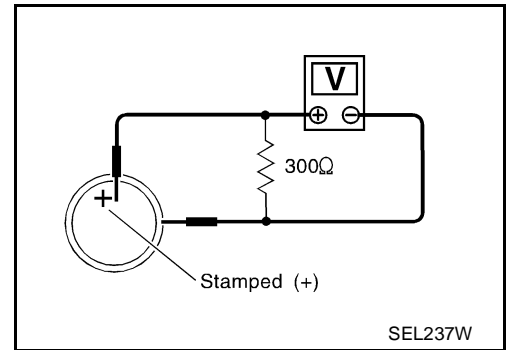
#### NOTE:

Remote controller does not function if battery is not set correctly.

OK or NG?

OK >> GO TO 2

NG >> Replace battery. Refer to [BL-110, "Remote Controller Battery Replacement"](#).



### 2. CHECK REMOTE CONTROLLER FUNCTION

#### With CONSULT-II

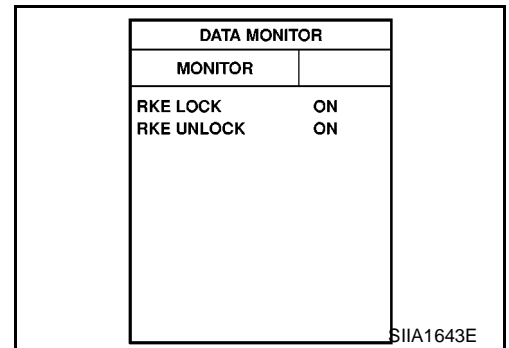
Check remote controller function ("RKE LOCK", "RKE UNLOCK") in "DATA MONITOR" mode with CONSULT-II.

Condition	Monitor item
Pushing LOCK button	RKE LOCK: ON
Pushing UNLOCK button	RKE UNLOCK: ON

OK or NG?

OK >> Remote controller is OK. Further inspection is necessary. Refer to [BL-98, "Trouble Diagnoses"](#).

NG >> Replace remote controller.



## Power Supply and Ground Circuit Check

EIS002OF

### 1. CHECK POWER SUPPLY CIRCUIT

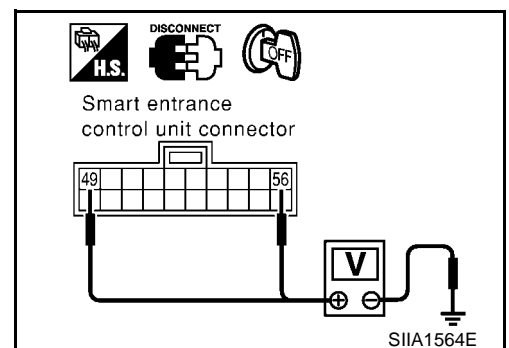
- Turn ignition switch OFF.
- Disconnect smart entrance control unit connector.
- Check voltage between smart entrance control unit harness connector M43 terminal 49(W/L), 56(R/B) and ground.

Terminal		Voltage
+	-	
49(W/L)	Ground	Battery voltage
56(R/B)		

OK or NG?

OK >> GO TO 2

NG >> Check smart entrance control unit power supply circuit for open or short.



# MULTI-REMOTE CONTROL SYSTEM

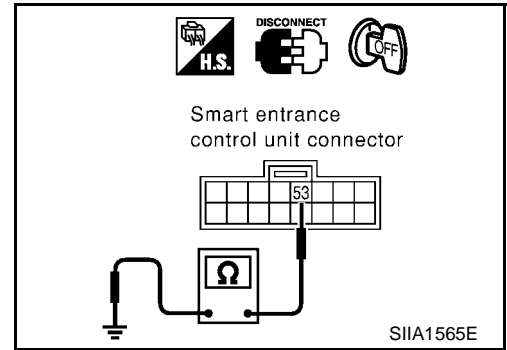
## 2. CHECK GROUND CIRCUIT

Check continuity between smart entrance control unit harness connector M43 terminal 53(B) and ground.

Terminal		Continuity
+	-	
53(B)	Ground	Yes

OK or NG?

- OK >> Power supply and ground circuit is OK.
- NG >> Check smart entrance control unit ground circuit for open or short.



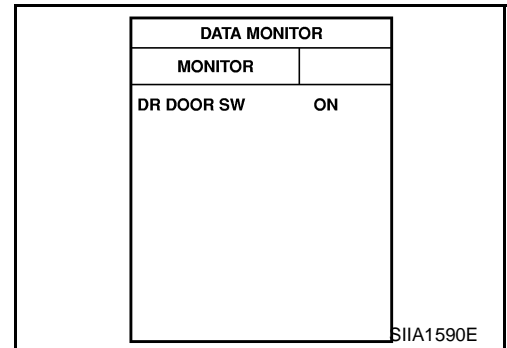
## Door Switch Check DRIVER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

With CONSULT- II

- Check door switch "DR DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

	Monitor item	Condition
DR DOOR SW	Front door switch LH	Open: ON
		Close: OFF



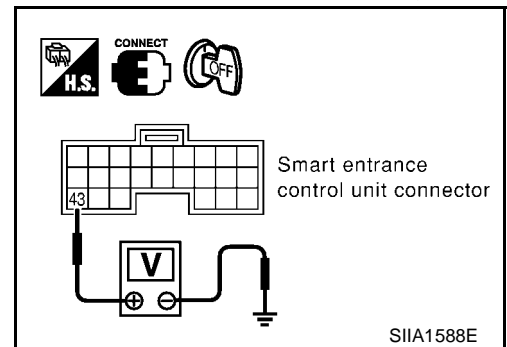
Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 43(R/W) and ground.

Terminal		Front door LH	Voltage
(+)	(-)		
43(R/W)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2



# MULTI-REMOTE CONTROL SYSTEM

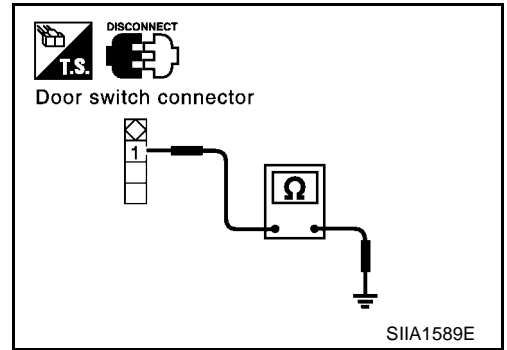
## 2. CHECK DOOR SWITCH

Check continuity between front door switch LH harness connector B16 terminal 1(R/W) and ground.

Terminal		Front door LH switch	Continuity
(+)	(-)		
1(R/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Front door switch LH ground condition
  - Harness for open or short between smart entrance control unit and front door switch LH
- NG >> Replace front door switch LH.



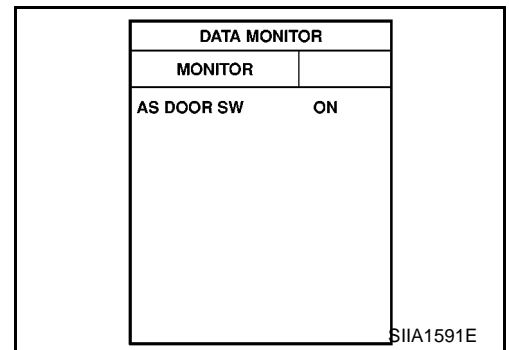
## PASSENGER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch "AS DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

	Monitor item	Condition
AS DOOR SW	Front door switch RH	Open: ON
		Close: OFF



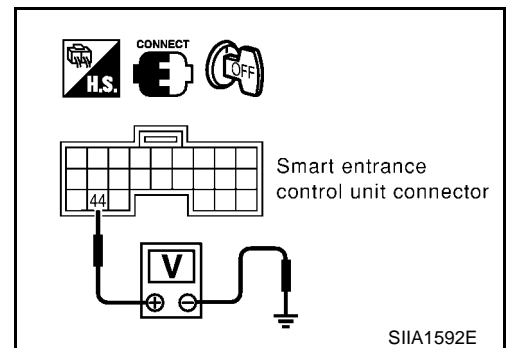
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 44(L/OR) and ground.

Terminal		Front door RH	Voltage
(+)	(-)		
44(L/OR)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2



# MULTI-REMOTE CONTROL SYSTEM

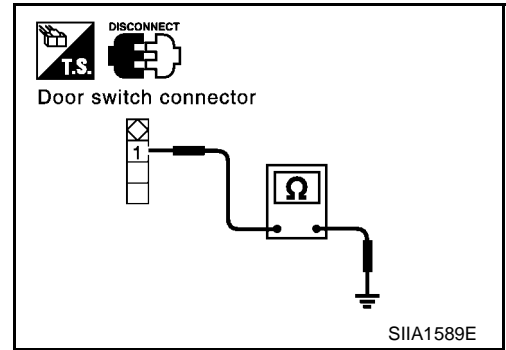
## 2. CHECK DOOR SWITCH

Check continuity between front door switch RH harness connector B118 terminal 1(L/OR) and ground.

Terminal		Front door RH switch	Continuity
(+)	(-)		
1(L/OR)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Front door switch RH ground condition
  - Harness for open or short between smart entrance control unit and front door switch RH
- NG >> Replace front door switch RH.



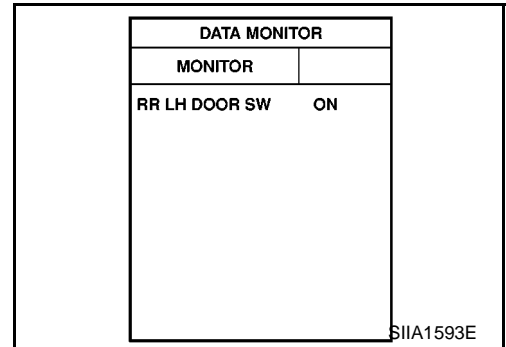
## REAR LH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch “RR LH DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
RR LH DOOR SW	Rear door switch LH	Open: ON
		Close: OFF



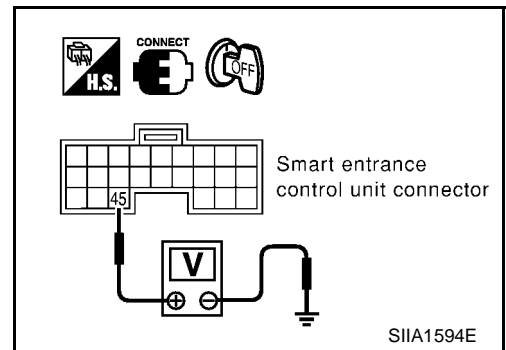
ⓧ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 45(R/Y) and ground.

Terminal		Rear door LH	Voltage
(+)	(-)		
45(R/Y)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2



# MULTI-REMOTE CONTROL SYSTEM

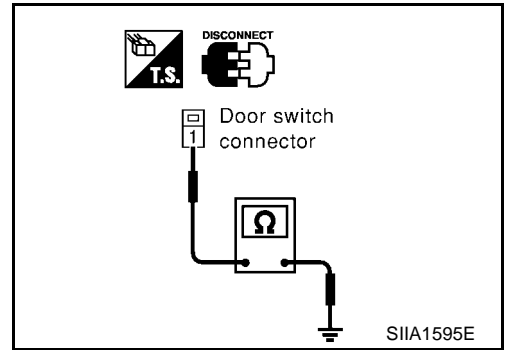
## 2. CHECK DOOR SWITCH

Check continuity between rear door switch LH harness connector B23 terminal 1(R/Y) and ground.

Terminal		Rear door LH switch	Continuity
(+)	(-)		
1(R/Y)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Rear door switch LH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch LH
- NG >> Replace rear door switch LH.



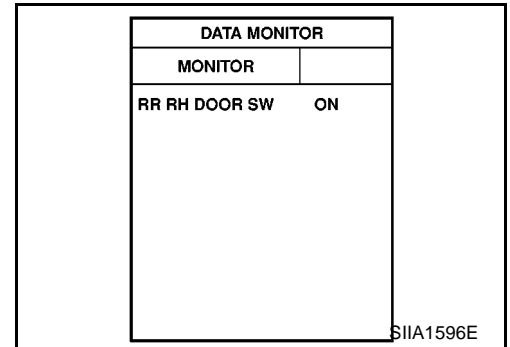
## REAR RH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch "RR RH DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

	Monitor item	Condition
RR RH DOOR SW	Rear door switch RH	Open: ON
		Close: OFF



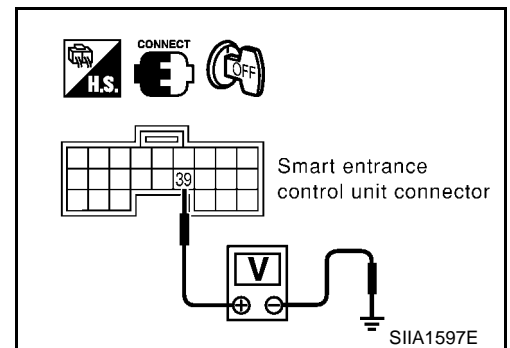
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 39(BR/W) and ground.

Terminal		Rear door RH	Voltage
(+)	(-)		
39(BR/W)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2



# MULTI-REMOTE CONTROL SYSTEM

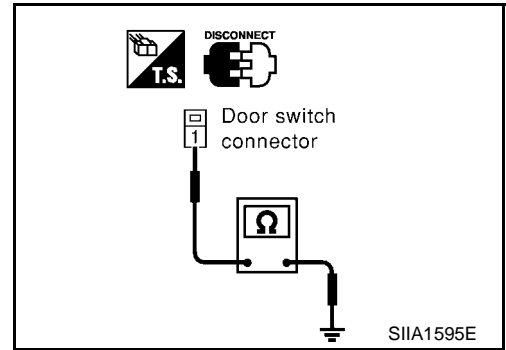
## 2. CHECK DOOR SWITCH

Check continuity between rear door switch RH harness connector B125 terminal 1(BR/W) and ground.

Terminal		Rear door RH switch	Continuity
(+)	(-)		
1(BR/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Rear door switch RH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch RH
- NG >> Replace rear door switch RH.





# MULTI-REMOTE CONTROL SYSTEM

EIS0020H

## Key Switch Check

### 1. CHECK KEY SWITCH INPUT SIGNAL

① With CONSULT-II

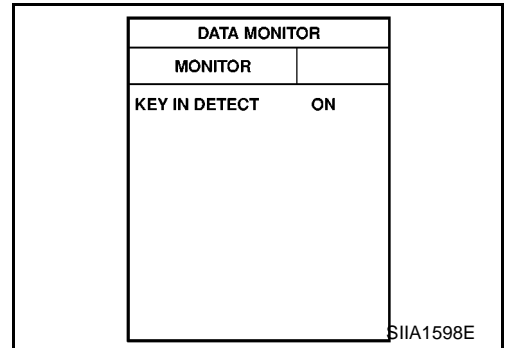
- Check key switch input signal "KEY IN DETECT" in "DATA MONITOR" mode with CONSULT- II.

**When key is inserted in ignition key cylinder:**

**KEY IN DETECT ⇒ ON**

**When key is removed from ignition key cylinder:**

**KEY IN DETECT ⇒ OFF**



⊗ Without CONSULT- II

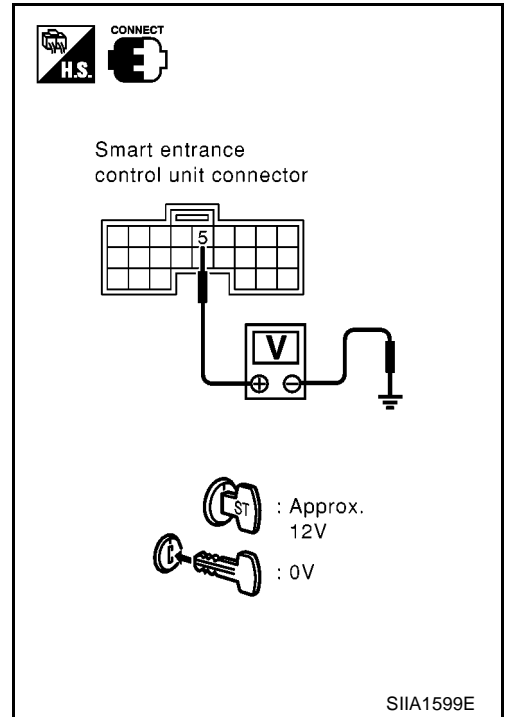
- Check voltage between smart entrance control unit harness connector M41 terminal 5(B/R) and ground.

Terminals		Key switch	Voltage
+	-		
5(B/R)	Ground	Key is inserted	Approx. 12
		Key is removed	0

OK or NG?

OK >> Key switch is OK.

NG >> GO TO 2



# MULTI-REMOTE CONTROL SYSTEM

## 2. CHECK KEY SWITCH (INSERT)

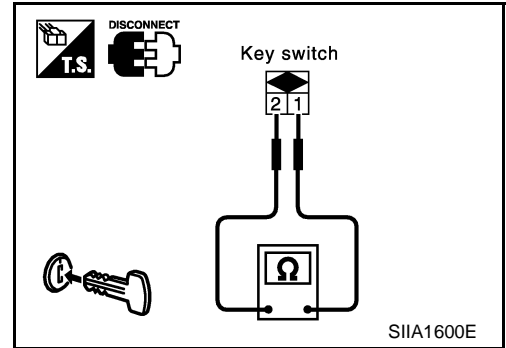
1. Disconnect key switch connector.
2. Check continuity between key switch terminals 1 and 2.

Terminals	Key switch	Continuity
1 - 2	Key is inserted	Yes
	Key is removed	No

OK or NG?

- OK >> Check the following.
- 10A fuse [No. 12, located in fuse block (J/B)]
  - Harness for open or short between key switch and fuse
  - Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



## Hazard Reminder Check

EIS002KZ

### 1. CHECK HAZARD WARNING LAMP

Check if hazard warning lamp flashes with hazard switch.

Does hazard warning lamp operate?

- Yes >> GO TO 2  
 No >> Check hazard warning lamp circuit.

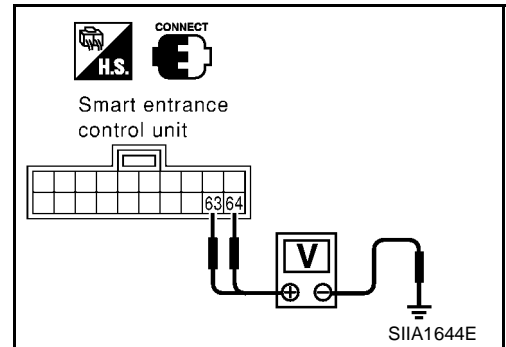
### 2. CHECK HAZARD REMINDER OPERATION

Check the following at when push the remote controller switch.  
 Check voltage between smart entrance control unit harness connector M43 terminal 63, 64 and ground.

Remote controller	Voltage (Approximate values)
Pushing LOCK button	0V → 12V → 0V
Pushing UNLOCK button	0V → 12V → 0V → 12V → 0V

OK or NG?

- OK >> Check harness for open or short between smart entrance control unit and hazard switch.  
 NG >> Replace smart entrance control unit.



## ID Code Entry Procedure

### REMOTE CONTROLLER ID SET UP WITH CONSULT-II

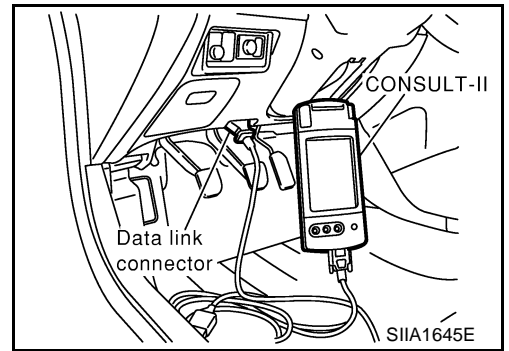
EIS00200

#### NOTE:

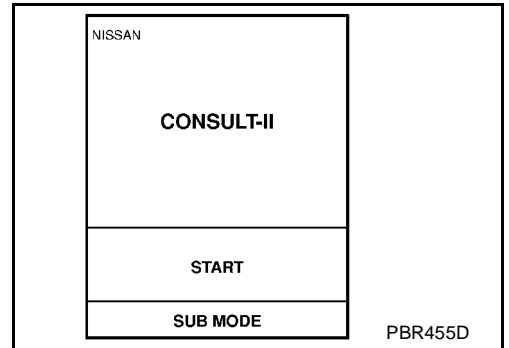
If a remote controller is lost, the ID code of the lost remote controller must be erased to prevent unauthorized use. When the ID code of a lost remote controller is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new remote controllers must be re-registered.

# MULTI-REMOTE CONTROL SYSTEM

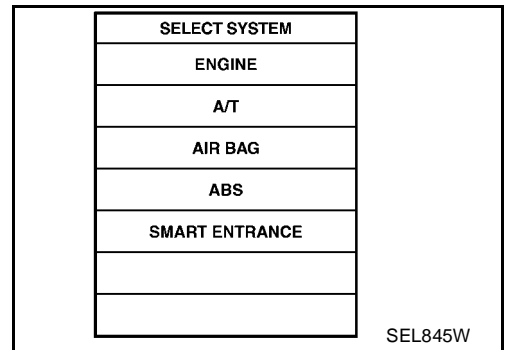
1. Turn ignition switch "OFF".
2. Connect "CONSULT-II" to the data link connector.



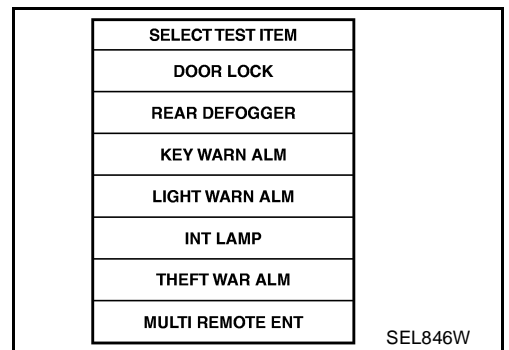
3. Turn ignition switch "ON".
4. Touch "START".



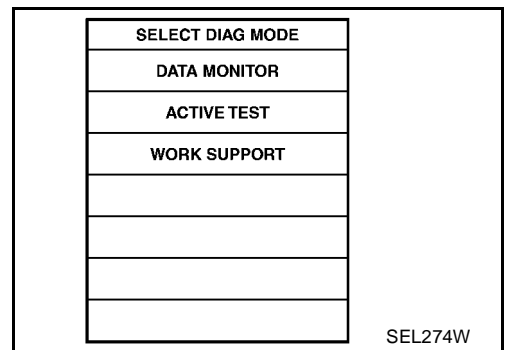
5. Touch "SMART ENTRANCE".



6. Touch "KEYLESS ENTRY".



7. Touch "WORK SUPPORT".



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M

BL

## MULTI-REMOTE CONTROL SYSTEM

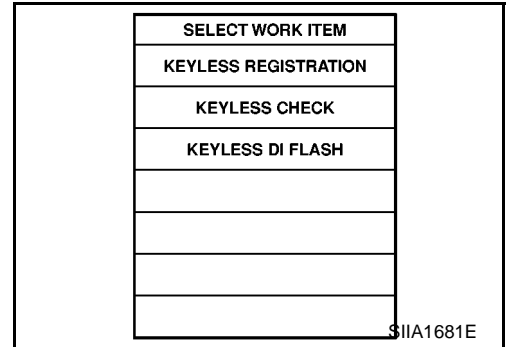
8. The items are shown on the figure at left can be set up.

- "KEYLESS CHECK"  
Use this mode to confirm if a remote controller ID code is registered or not.
- "KEYLESS REGISTRATION"  
Use this mode to register a remote controller ID code.

**NOTE:**

**Register the ID code when remote controller or smart entrance control unit is replaced, or when additional remote controller is required.**

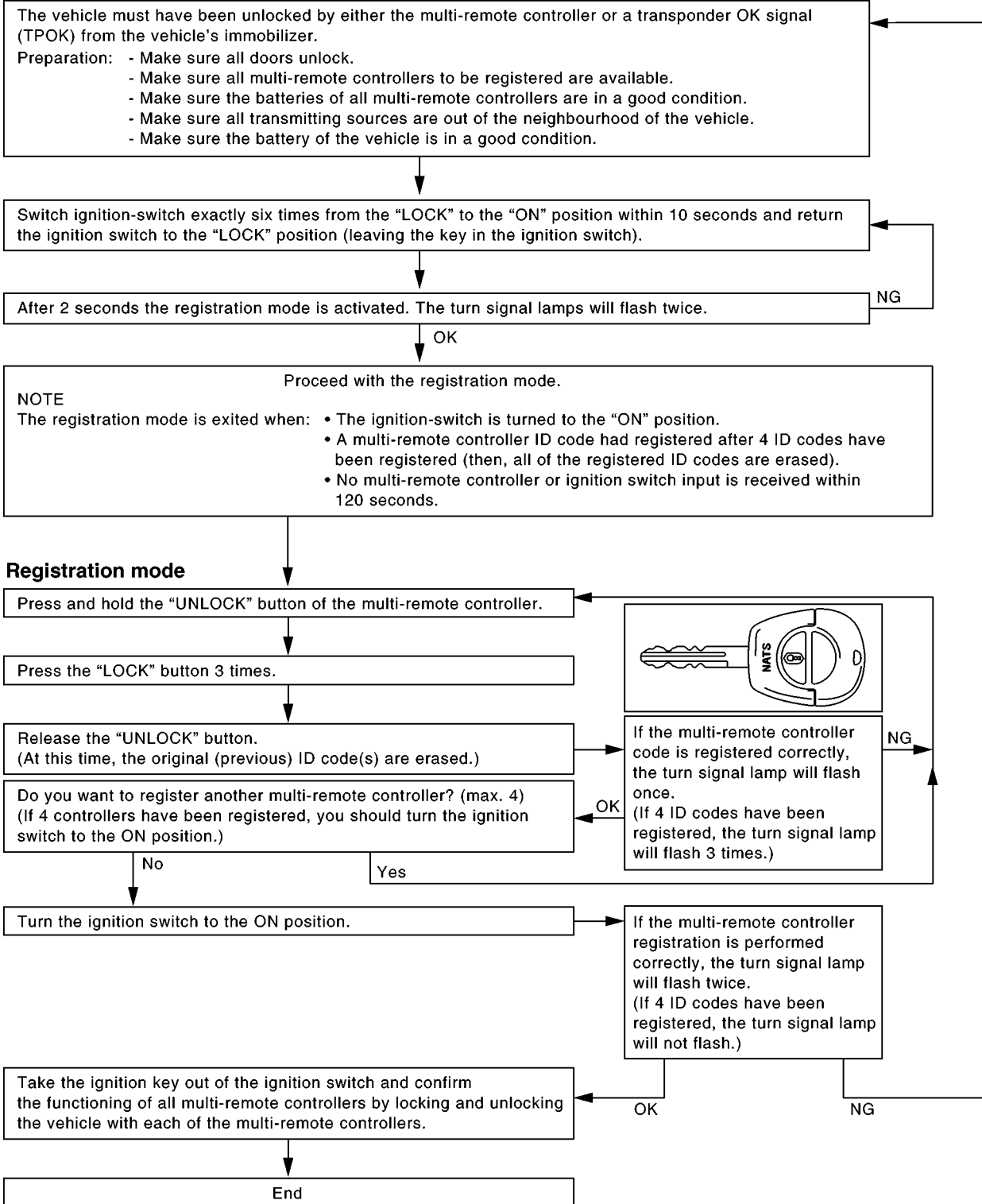
- "KEYLESS DI FLASH"  
This mode can be setting remote controller function.



# MULTI-REMOTE CONTROL SYSTEM

## REMOTE CONTROLLER ID SET UP WITHOUT CONSULT- II

### Activation of the registration mode:



SEL497X

# MULTI-REMOTE CONTROL SYSTEM

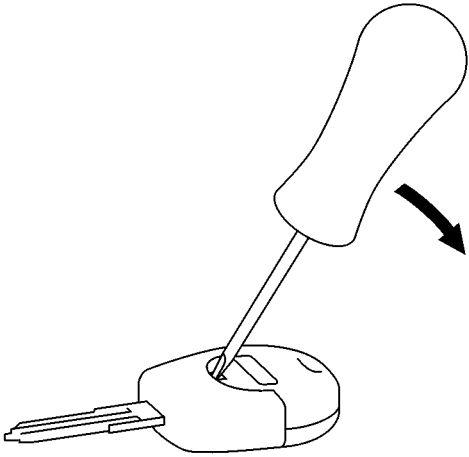
EIS0020P

## Remote Controller Battery Replacement

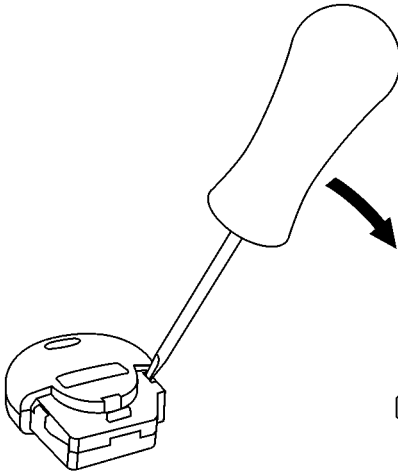
**NOTE:**

- Be careful not to touch the circuit board or battery terminal.
- The remote controller is water-resistant. However, if it does get wet, immediately wipe it dry.
- Push the remote controller button two or three times to check its operation after replacing battery.

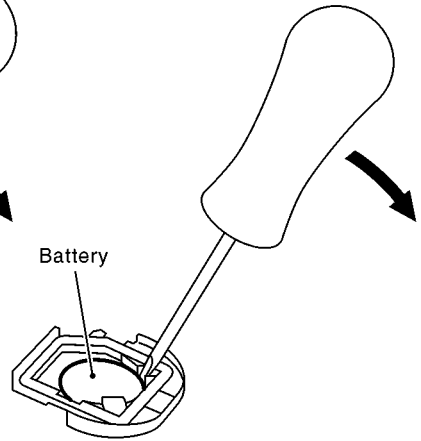
STEP 1



STEP 2



STEP 3



SEL241X

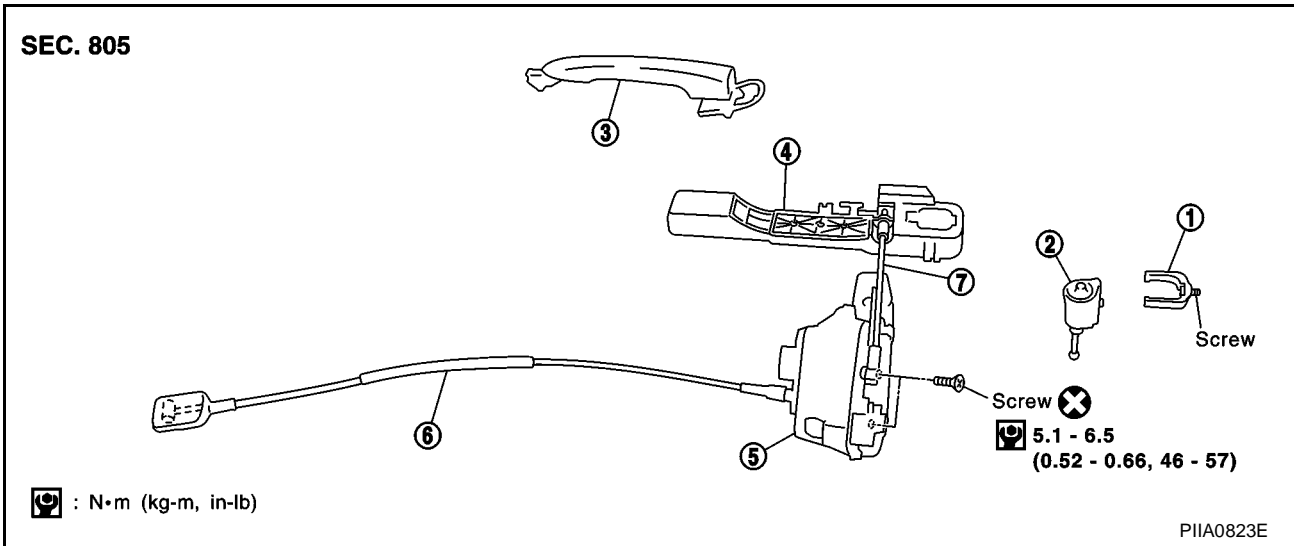
# FRONT DOOR LOCK

## FRONT DOOR LOCK

PFP:80502

### Component Parts

EIS002L4

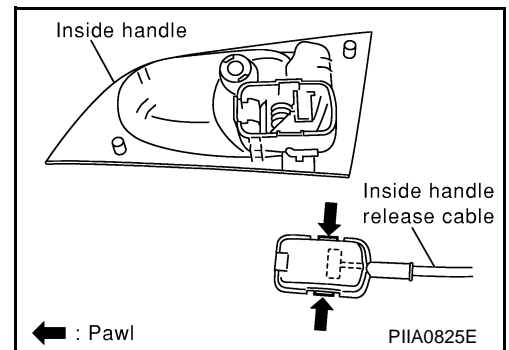


- |                                  |                                |                                 |
|----------------------------------|--------------------------------|---------------------------------|
| 1 : Fixing bracket               | 2 : Key cylinder (Driver side) | 3 : Door outside handle grip    |
| 4 : Door outside handle bracket  | 5 : Door lock assembly         | 6 : Inside handle release cable |
| 7 : Outside handle release cable |                                |                                 |

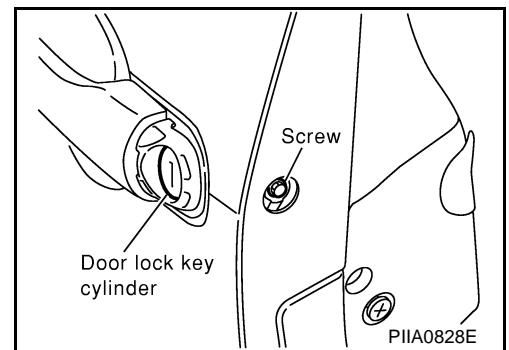
## Removal and Installation

### REMOVAL

1. Remove door finisher. Refer to [EI-22, "DOOR FINISHER"](#).
2. Remove front door glass. Refer to [GW-74, "FRONT DOOR GLASS AND REGULATOR"](#).
3. Remove front door module assembly. Refer to [GW-74, "FRONT DOOR GLASS AND REGULATOR"](#).
4. Disconnect inside release cable at the joint.

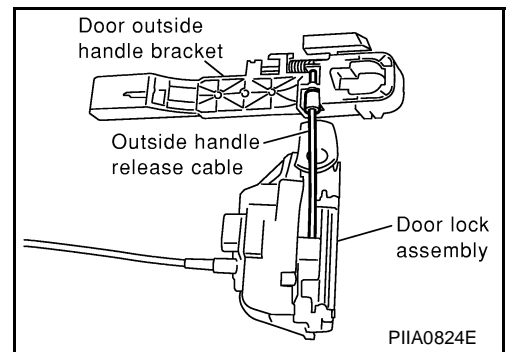


5. Remove front door lock key cylinder assembly mount screw.
6. Remove front door lock key cylinder cap (driver side).

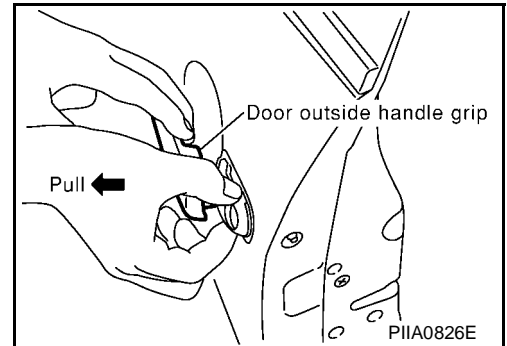


## FRONT DOOR LOCK

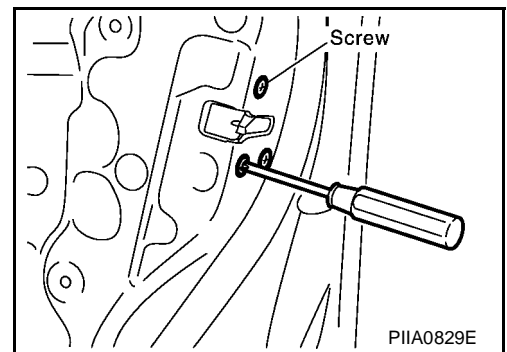
7. Working through the access hole, disconnect outside handle release cable (on the handle) at the joint.



8. Remove outside handle grip.
9. Remove outside handle bracket and front door lock key cylinder.



10. Disconnect door lock actuator connector.
11. Remove mount screw and remove door lock assembly through the access hole.



### INSTALLATION

Install in the reverse order of removal.

#### NOTE:

- Install the outside handle by pressing it forward and downward while tightening the bolts.



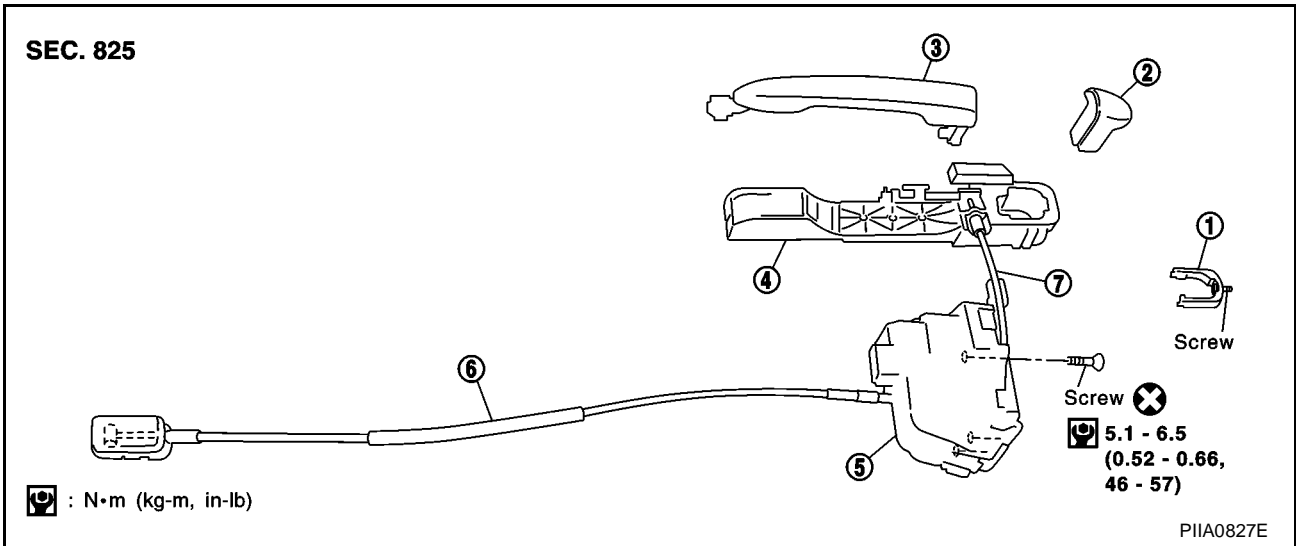
# REAR DOOR LOCK

## REAR DOOR LOCK

PF:82502

### Component Parts

EIS002L8



- |                                  |                                    |                                 |
|----------------------------------|------------------------------------|---------------------------------|
| 1 : Fixing bracket               | 2 : Door outside handle escutcheon | 3 : Door outside handle grip    |
| 4 : Door outside handle bracket  | 5 : Door lock actuator assembly    | 6 : Inside handle release cable |
| 7 : Outside handle release cable |                                    |                                 |

## Removal and Installation

EIS002NA

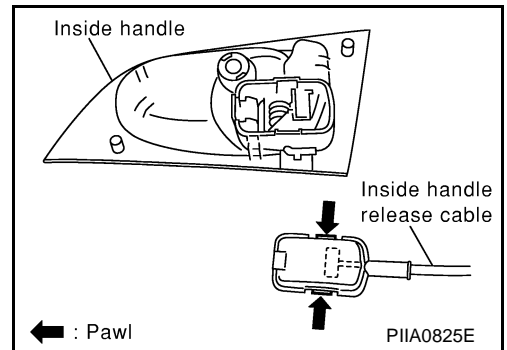
### REMOVAL

1. Remove door finisher. Refer to [EI-22, "DOOR FINISHER"](#).
2. Remove remove sealing screen.

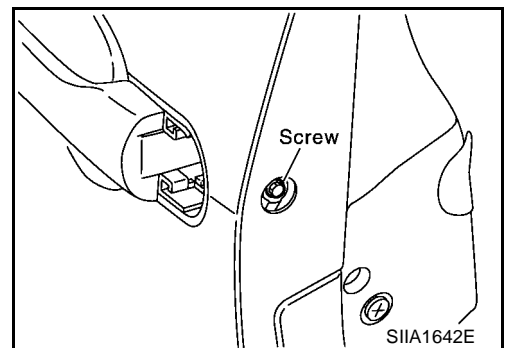
#### NOTE:

If sealing screen is reused, cut butyl tape in a way that leaves it on the sealing screen.

3. Remove rear door glass. Refer to [GW-78, "REAR DOOR GLASS AND REGULATOR"](#).
4. Disconnect inside release cable at the joint.

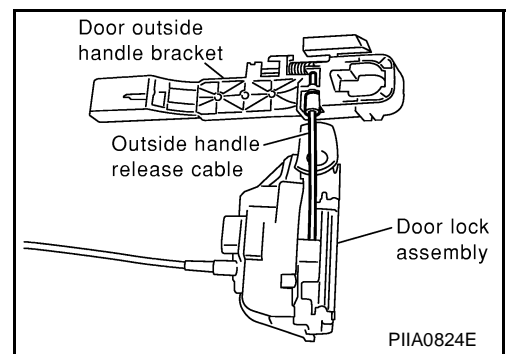


5. Remove mount screw and remove door out side handle escutcheon.

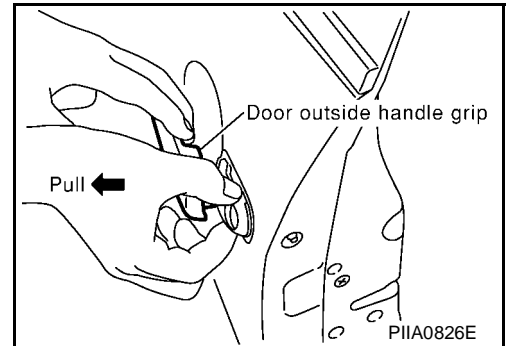


## REAR DOOR LOCK

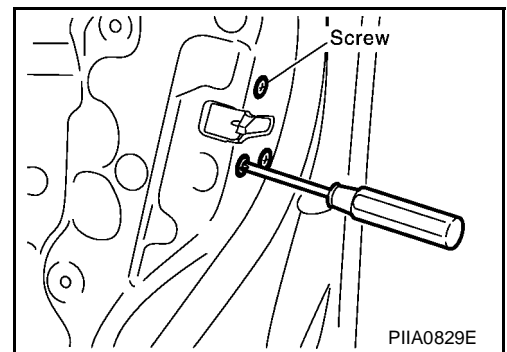
6. Working through the access hole, disconnect outside handle release cable (on the handle) at the joint.



7. Remove outside handle grip.
8. Remove outside handle bracket.



9. Disconnect door lock actuator connector.
10. Remove mount screw and remove door lock assembly through the access hole.



### INSTALLATION

Install in the reverse order of removal.

#### NOTE:

- Install the outside handle by pressing it forward and downward while tightening the bolts.

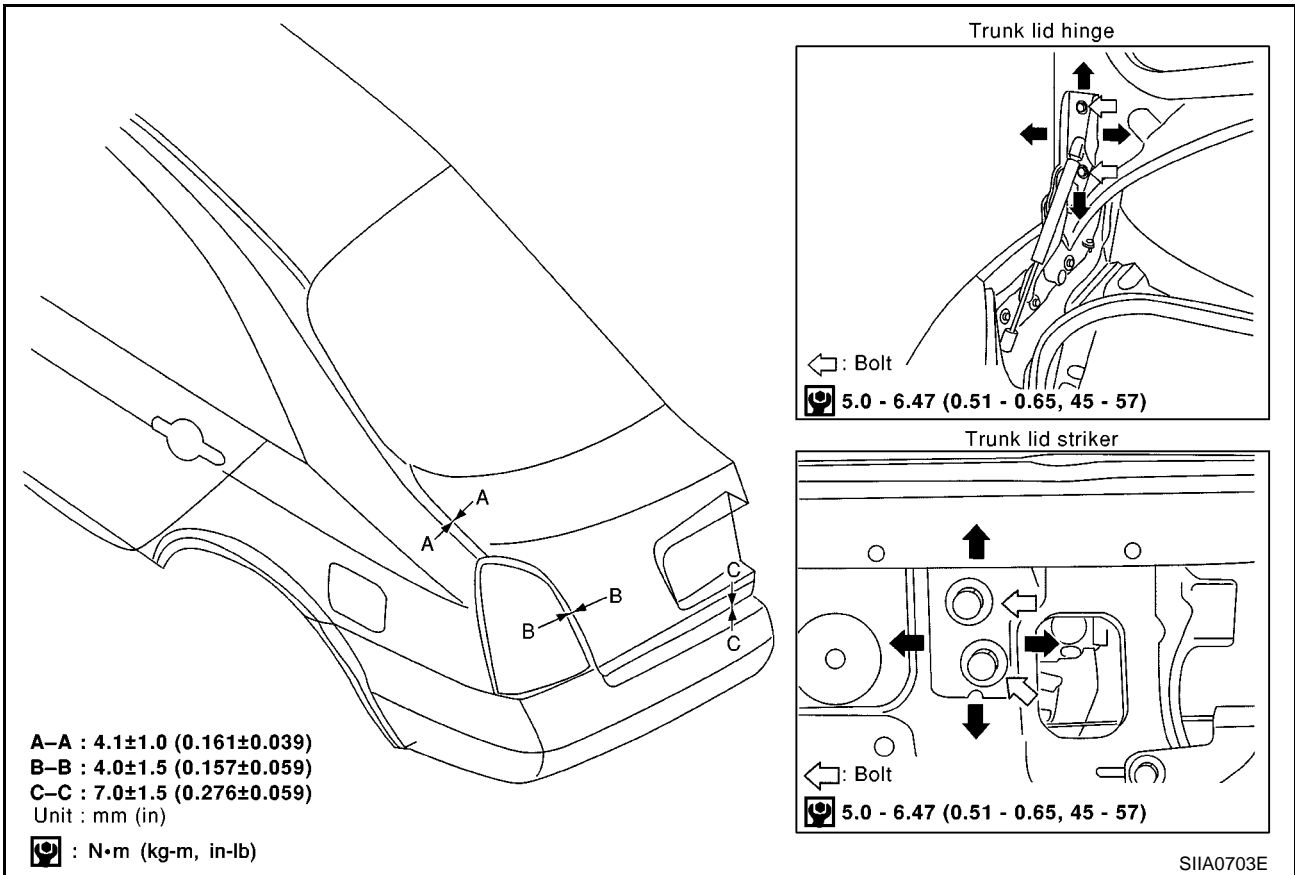
# TRUNK LID

## TRUNK LID

PFP:H4300

### Fitting Adjustment

EIS002NB



### LONGITUDINAL AND LATERAL CLEARANCE ADJUSTMENT

1. With the striker released, loosen the trunk lid hinge mounting bolts to close the trunk lid.
2. Make the lateral clearance and the clearance to the rear window glass equal, and open the trunk lid to tighten the mounting bolts to the specified torque.

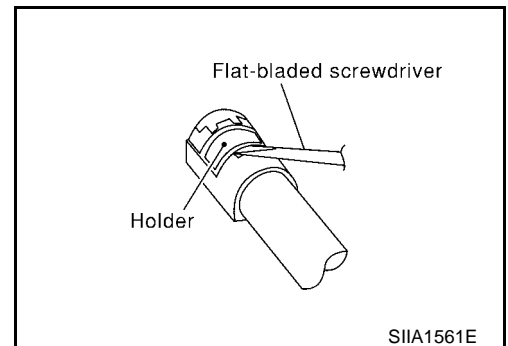
### SURFACE HEIGHT ADJUSTMENT

1. Loosen the striker mounting bolts. Raise the striker to the top position, and temporarily tighten the upper mounting bolt at the position.
2. Close the trunk lid lightly and adjust the surface height, then open the trunk lid to finally tighten the striker mounting bolts to the specified torque.

### Removal and Installation of Trunk Lid Assembly

EIS002NF

1. Disconnect the connectors in the trunk lid, and remove the harness clamps to pull the harness out of the trunk lid.
2. Insert flat-bladed screw driver into the gap and remove holder.



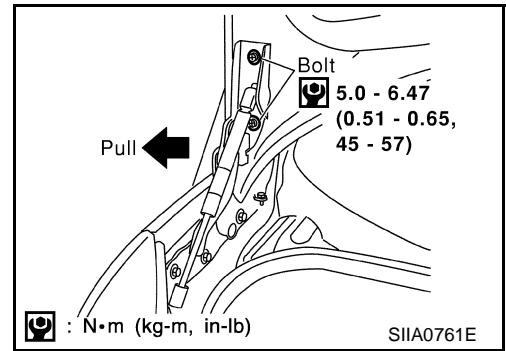
# TRUNK LID

3. Remove trunk lid stay (gas stay).
4. Remove the mounting bolts, and remove the trunk lid assembly.

**NOTE:**

After installing, apply touch-up paint (the body color) onto the head of the hinge mounting bolts.

Install in the reverse order of removal.



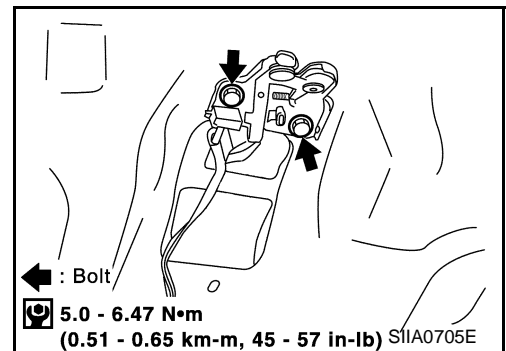
## Removal and Installation of Trunk Lid Lock STRIKER REMOVAL

EIS002ND

1. Remove trunk room rear plate. Refer to [EI-35, "TRUNK ROOM TRIM AND TRUNK LID TRIM"](#) .
2. Remove striker mounting bolts.

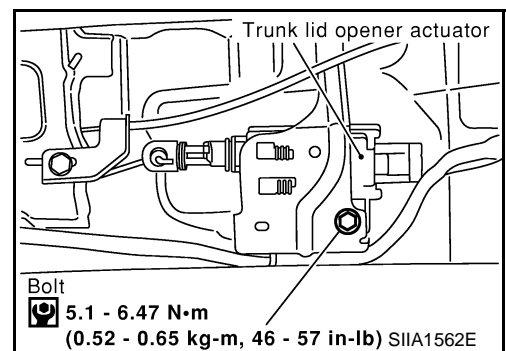
## LOCK REMOVAL

1. Remove the trunk lid trim. Refer to [EI-35, "TRUNK ROOM TRIM AND TRUNK LID TRIM"](#) .
2. Remove trunk lid lock cover.
3. Separate the key cylinder rod.
4. After removing the harness connector, remove the mounting bolts, and remove the trunk lid lock.



## ACTUATOR REMOVAL

1. Remove trunk room rear plate. Refer to [EI-35, "TRUNK ROOM TRIM AND TRUNK LID TRIM"](#) .
2. Disconnect trunk release actuator harness connector.
3. Remove the mounting bolts, and remove the trunk release actuator.



## INSTALLATION

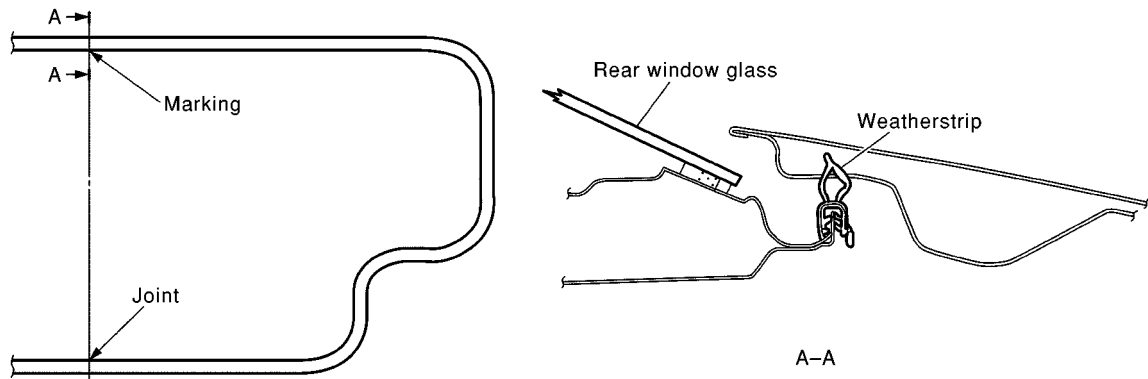
1. Install in the reverse order of removal.
2. After installing, close the trunk lid lightly. Perform the lock and surface height adjustment. Refer to [BL-115, "Fitting Adjustment"](#) .
3. After installing, check the operation.

# TRUNK LID

## Removal and Installation of Trunk Lid Weather-strip

EIS002NE

SEC. 843



SIIA0783E

1. Install the weather-strip from the front with the vehicle center mark aligned to the weather-strip mark.
2. At rear side, align the weather-strip seam to the center of the striker.
3. After installing, pull the weather-strip lightly to check for looseness.

**NOTE:**

The weather-strip shall be fit tightly onto the corners and trunk lid rear plate.

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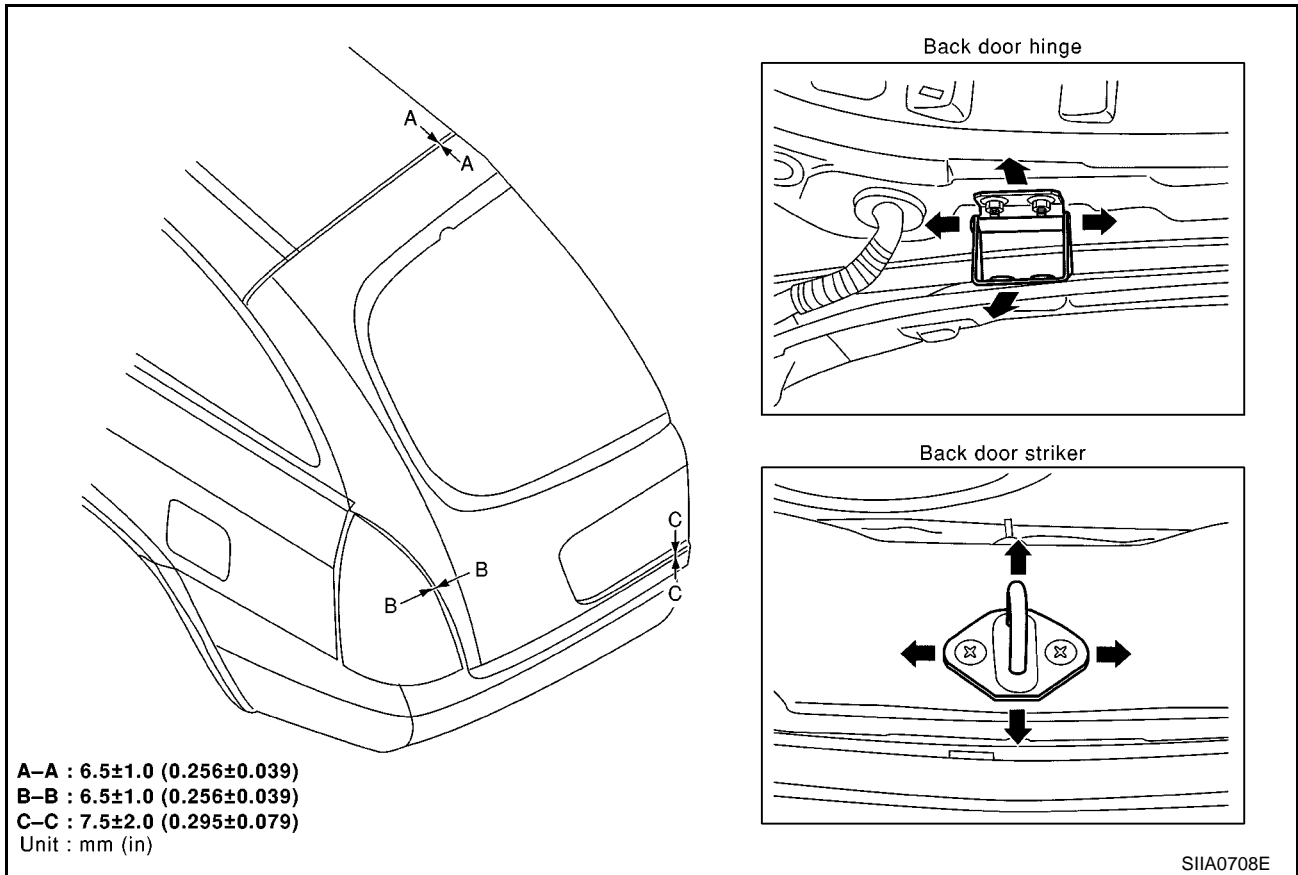
# BACK DOOR

PFP:90100

## BACK DOOR

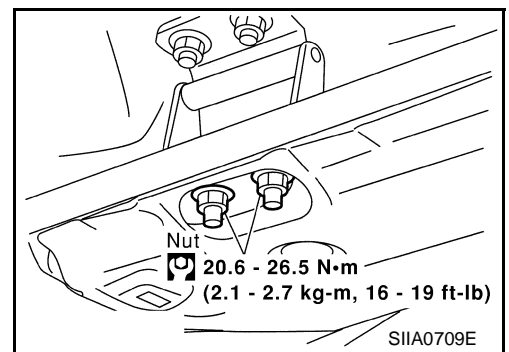
### Fitting Adjustment

EIS002LC



### VERTICAL/LATERAL CLEARANCE ADJUSTMENT

1. With striker removed, loosen hinge mount nuts on the back door and close it.
2. Make lateral clearance and clearance to rear window glass equal. Open back door to tighten mounting bolts to specified torque.
3. If taking the steps above does not result in fine adjustment, remove headliner and loosen the hinge mount nuts on the vehicle for further adjustment.



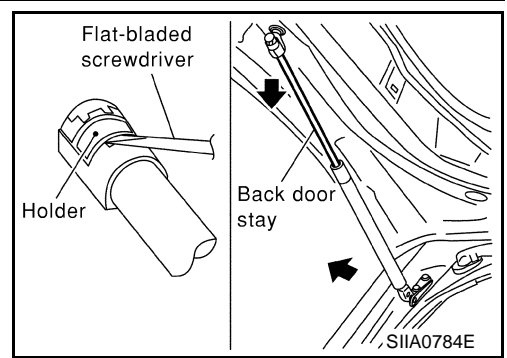
### Back Door Assembly REMOVAL

EIS002LD

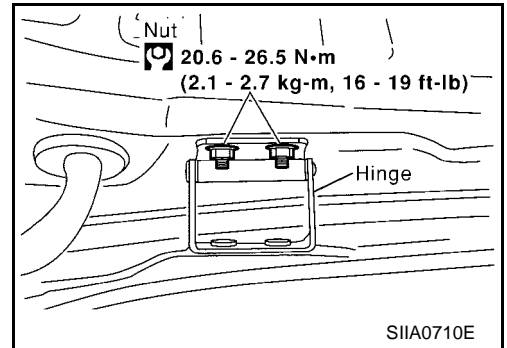
1. Disconnect connector in the back door harness. Pull the harness out of the back door.

# BACK DOOR

2. Support the back door lock with a proper material to prevent it from falling and remove back door stay (gas stay).



3. Remove hinge mount nuts on the back door and remove back door assembly.

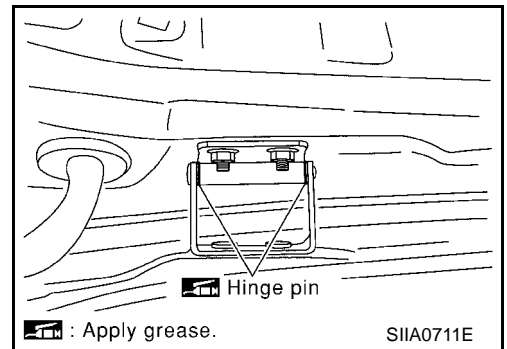


## INSTALLATION

Install in the reverse order of removal.

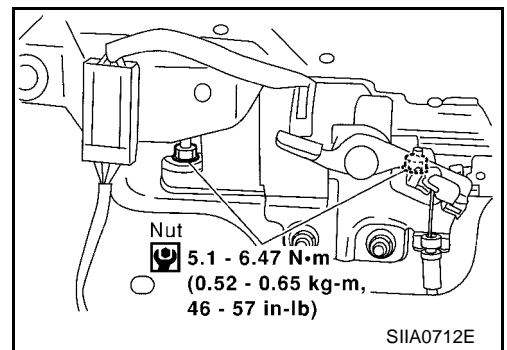
## INSPECTION

1. Check hinges for the following items
  - Abnormal noise or door closing and opening effort
  - Component wear or damage
2. Apply Body Grease to the rotating part of the hinge.



## Removal and Installation of Back Door Handle

1. Remove back door finisher. Refer to [EI-24, "BACK DOOR TRIM"](#).
2. Remove back door handle mount nuts.  
Install in the reverse order of removal.



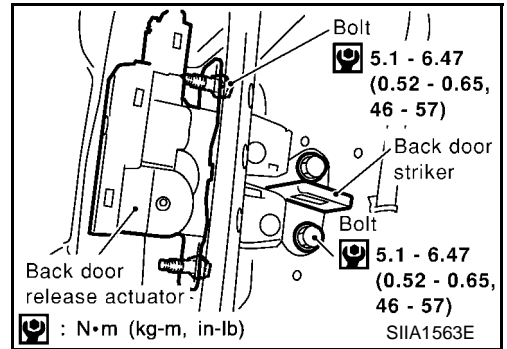
# BACK DOOR

## Removal and Installation of Back Door Lock & Actuator

EIS002LF

1. Remove back door finisher. Refer to [EI-24, "BACK DOOR TRIM"](#).
2. Disconnect back door release actuator connector.
3. Remove mounting bolts, and remove back door release actuator from the back door.

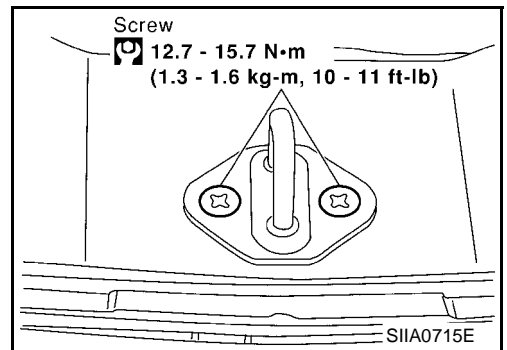
Install in the reverse order of removal.



## Removal and Installation of Back Door Striker

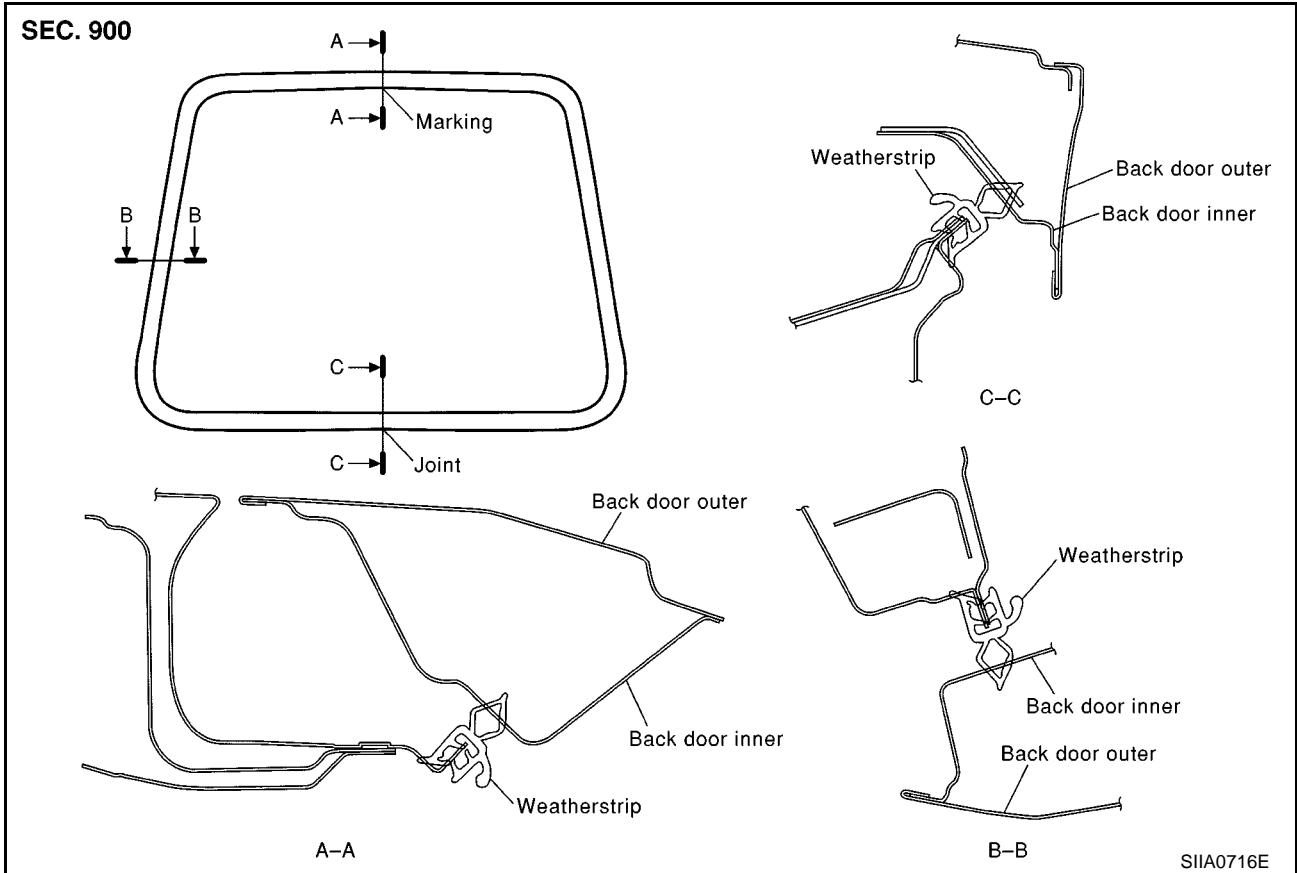
EIS002NG

1. Remove luggage rear spacer. Refer to [EI-27, "Removal and Installation \(Wagon Models\)"](#).
  2. Remove mounting screws, and remove striker from the vehicle.
- Install in the reverse order of removal.



## Removal and Installation of Back Door Weather-strip

EIS002LG



1. Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the back door.
2. For the lower section, align the weather-strip seam with center of the striker.



## BACK DOOR

---

3. After installation, pull the weather-strip gently to ensure that there is no loose section.

**NOTE:**

Make sure the weather-strip is fit tightly at each corner and back door rear plate.

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# FUEL FILLER LID OPENER

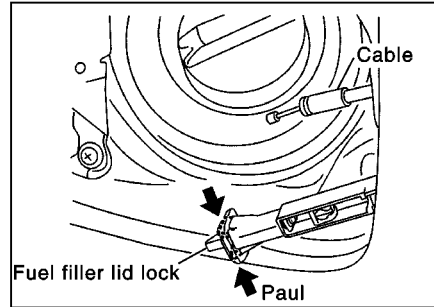
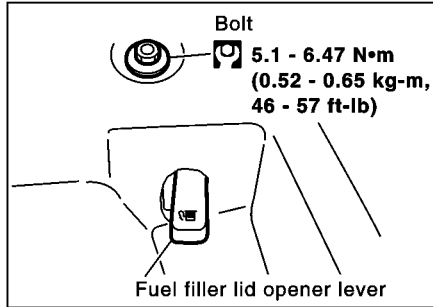
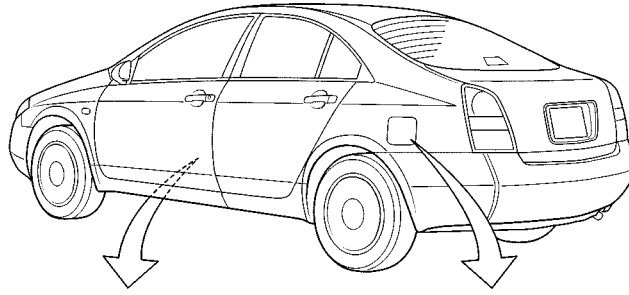
## FUEL FILLER LID OPENER

PFP:78820

### Component Parts Location

EIS002LH

SEC. 905



SIIA0717E

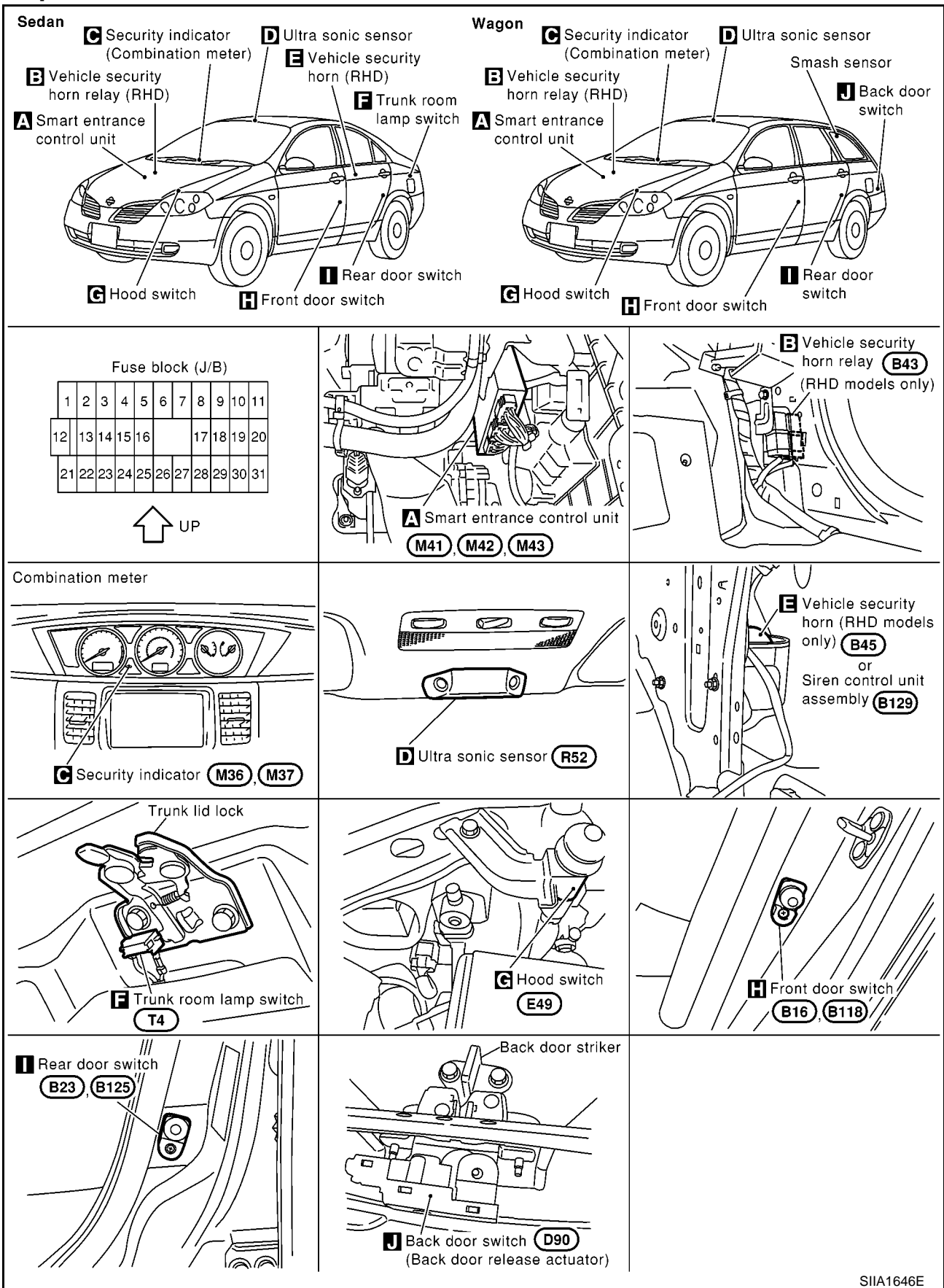
# THEFT WARNING SYSTEM

PPF:25362

EIS002LJ

## THEFT WARNING SYSTEM

### Component Parts and Harness Connector Location



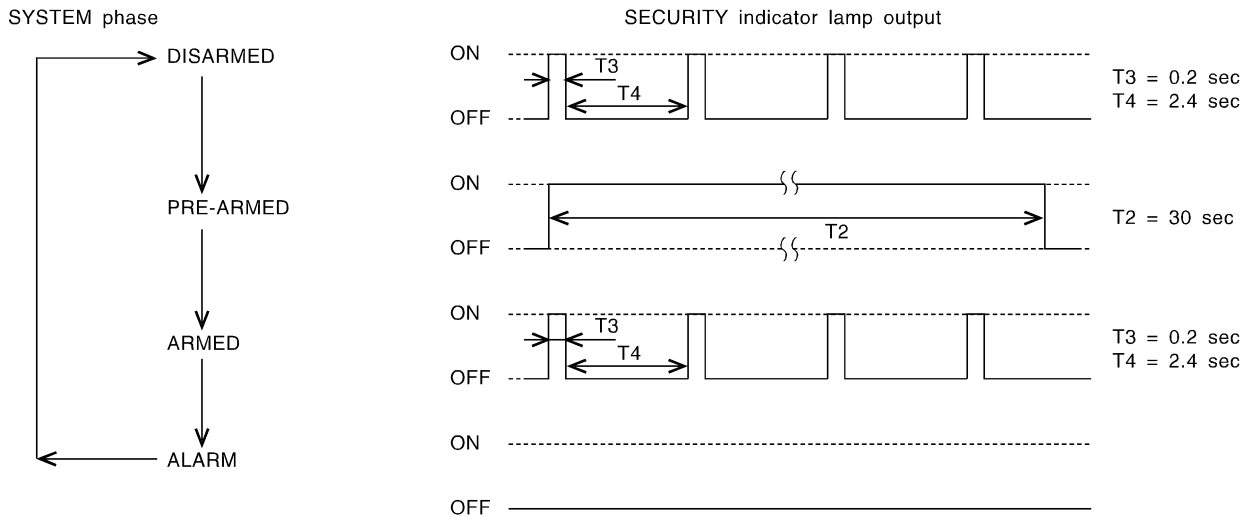
SIIA1646E

# THEFT WARNING SYSTEM

EIS002LK

## System Description DESCRIPTION

### Operation Flow



SEL334W

## Setting The Theft Warning System

### Initial condition

1. Ignition switch is in OFF position.
2. Close all doors.
3. Close hood and trunk lid (Sedan) or back door (Wagon).

### Disarmed phase

- When the vehicle security system is in the disarmed phase, the security indicator lamp blinks every 2.6 seconds.

### Pre-armed phase and armed phase

When the following operation 1 or 2 is performed, the vehicle security system turns into the “pre-armed” phase. (The security indicator lamp illuminates.)

1. Smart entrance control unit receives LOCK signal from controller after hood, and all doors are closed.
2. Hood and all doors are closed after front doors are locked by key, lock/unlock switch or remote controller.

After about 30 seconds, the system automatically shifts into the “armed” phase (the system is set). (The security indicator lamp blinks every 2.6 seconds.)

### Canceling The Set Theft Warning System

When the following 1 or 2 operation is performed, the armed phase is canceled.

1. Unlock the doors with remote controller.
2. Insert key in ignition key cylinder and turn it to ON.

### Activating The Alarm Operation of The Theft Warning System

Make sure the system is in the armed phase. (The security indicator lamp blinks every 2.6 seconds.)

When the following operation 1, 2, 3, 4, 5 or 6 is performed, the system sounds the horns and flashes about 30 seconds.

1. Engine hood, trunk lid (Sedan), back door (Wagon) or any doors is opened before unlocking door with the remote controller.
2. A door is unlocked without using the remote controller.
3. The ignition is switched ON without using a NATS registered key.
4. The ultra sonic sensing is triggered.
5. A rear side window breakage is detected (Wagon).
6. Disconnecting and connecting the battery connector before canceling armed phase.

# THEFT WARNING SYSTEM

## POWER SUPPLY AND GROUND

Power is supplied at all times

- through 10A fuse [No. 12, located in the fuse block (J/B)]
- to security indicator lamp terminal 52.
- to smart entrance control unit terminal 56

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse [No. 10, located in the fuse block (J/B)]
- to smart entrance control unit terminal 29.

Ground is supplied

- to smart entrance control unit terminals 53
- through body grounds M16, M50 and M70.

## INITIAL CONDITION TO ACTIVE THE SYSTEM

The operation of the theft warning system is controlled by the doors and hood.

To activate the theft warning system, the smart entrance control unit must receive signals indicating the doors and hood are closed.

When a door is open, smart entrance control unit terminal 39, 43, 44 or 45 receives a ground signal from each door switch.

When the hood is open, smart entrance control unit terminal 15 receives a ground signal

- from terminal 1 of the hood switch
- through body grounds E10, E58.

When the trunk lid (Sedan) or back door (Wagon) is open, smart entrance control unit terminal 16 receives a ground signal

Trunk lid (Sedan)

- from terminal 1 of the trunk room lamp switch
- through body ground B120.

Back door (Wagon)

- from terminal 2 of the back door switch (back door release actuator)
- through body grounds B17, B24 and D94.

When smart entrance control unit receives LOCK signal from door lock actuator or remote controller and none of the described conditions exist, the theft warning system will automatically shift to armed mode.

## THEFT WARNING SYSTEM ACTIVATION

If lock signal from remote controller is received by the smart entrance control unit, the vehicle security system will activate automatically.

### NOTE:

Theft warning system can be set even though all doors are not locked.

Once the vehicle security system has been activated, smart entrance control unit terminal 34 supplies ground to terminal 5 of the security indicator lamp.

The security lamp will illuminate for approximately 30 seconds and then blinks every 2.6 seconds.

Now the vehicle security system is in armed phase.

## THEFT WARNING SYSTEM ALARM OPERATION

The theft warning system is triggered by

- opening a door
- opening the hood
- opening the trunk lid (Sedan) or back door (Wagon)
- triggering the ultra sonic sensor
- smashing the back door window (wagon model only)
- detection of battery disconnect and connect.

Once the vehicle security system is in armed phase, if the smart entrance control unit receives a ground signal at terminal 39, 43, 44, 45 (door switch), 15(hood switch), 16(trunk room lamp switch or back door switch) the vehicle security system will be triggered. The hazard lamp flashes, the horn sounds (RHD models) intermittently.

# THEFT WARNING SYSTEM

---

Power is supplied at all times (RHD models)

- through 20A fuse (No, 7 located in fuse and fusible link box)
- to vehicle security horn relay terminal 2 and 5.

When the vehicle security system is triggered, ground is supplied intermittently (RHD models)

- from smart entrance control unit terminal 27
- to vehicle security horn relay terminal 1.

When vehicle security horn relay are energized, then power is supplied to horn.

The horn sounds intermittently.

The alarm automatically turns off after 50 seconds but will reactivate if the vehicle is tampered with again.

## THEFT WARNING SYSTEM DEACTIVATION

To deactivate the theft warning system, a door must be unlocked with the key or remote controller.

When the smart entrance control unit receives either one of these signals or unlock signal from remote controller, the theft warning system is deactivated. (Disarmed phase)

## SMASH SENSOR (WAGON MODEL ONLY)

The smash sensor will trigger the alarm when the side window LH or RH is broken. There are side window protected:

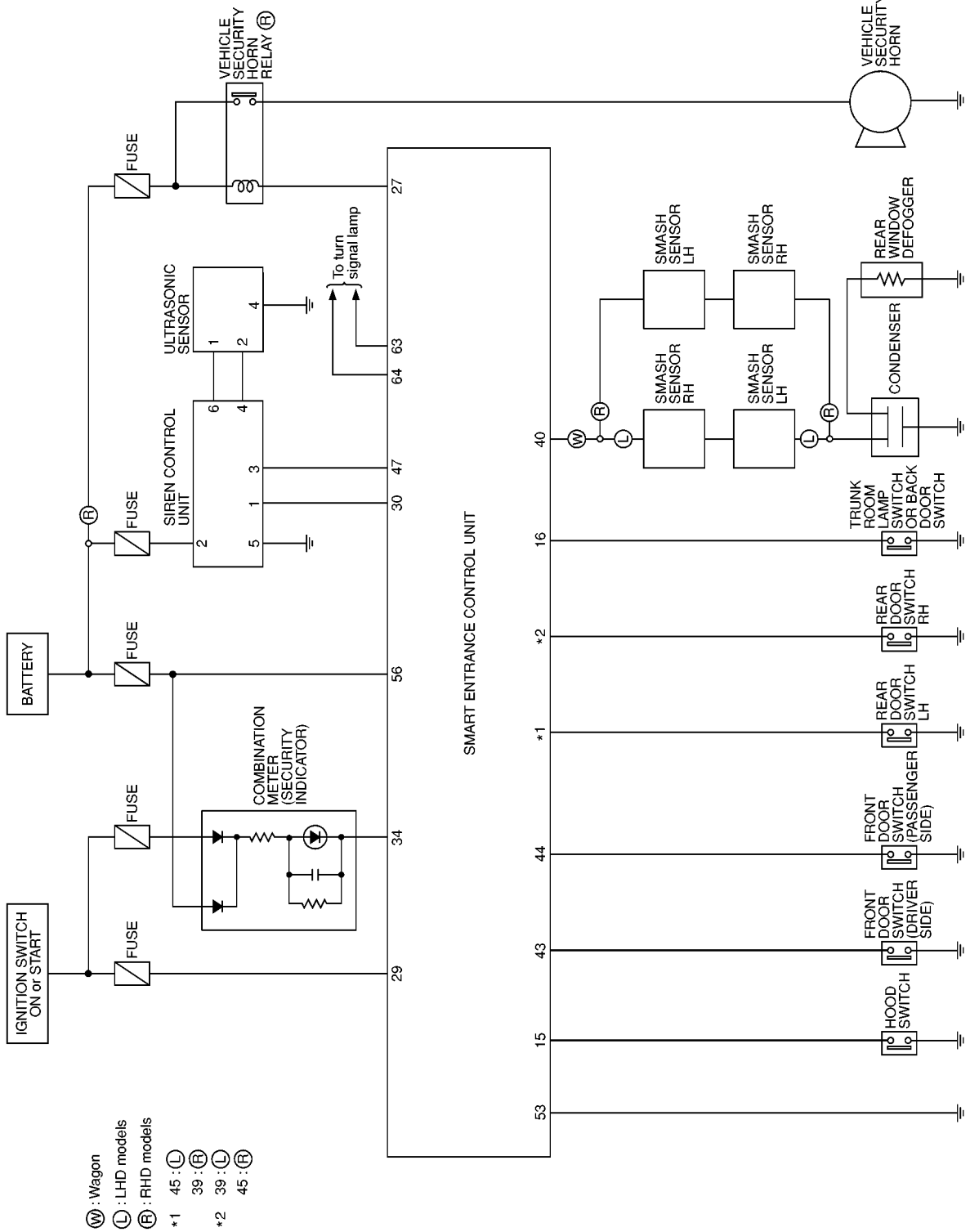
- Side window. Sensor circuit is bonded to the side window glass.

Two sensor are wired in series. By breaking any of the side window (sensor circuit open), the alarm will sound.

# THEFT WARNING SYSTEM

## Schematic

EIS002LL



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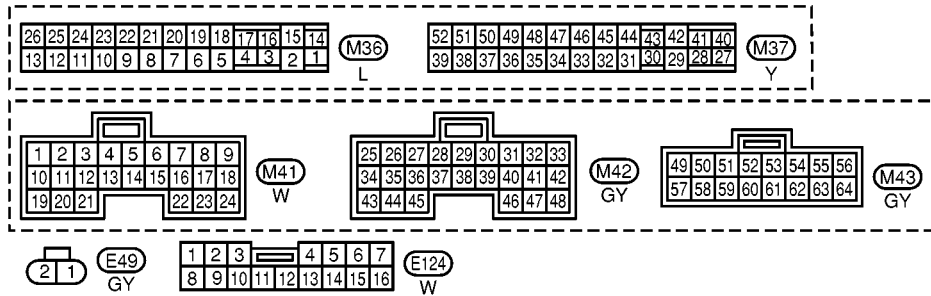
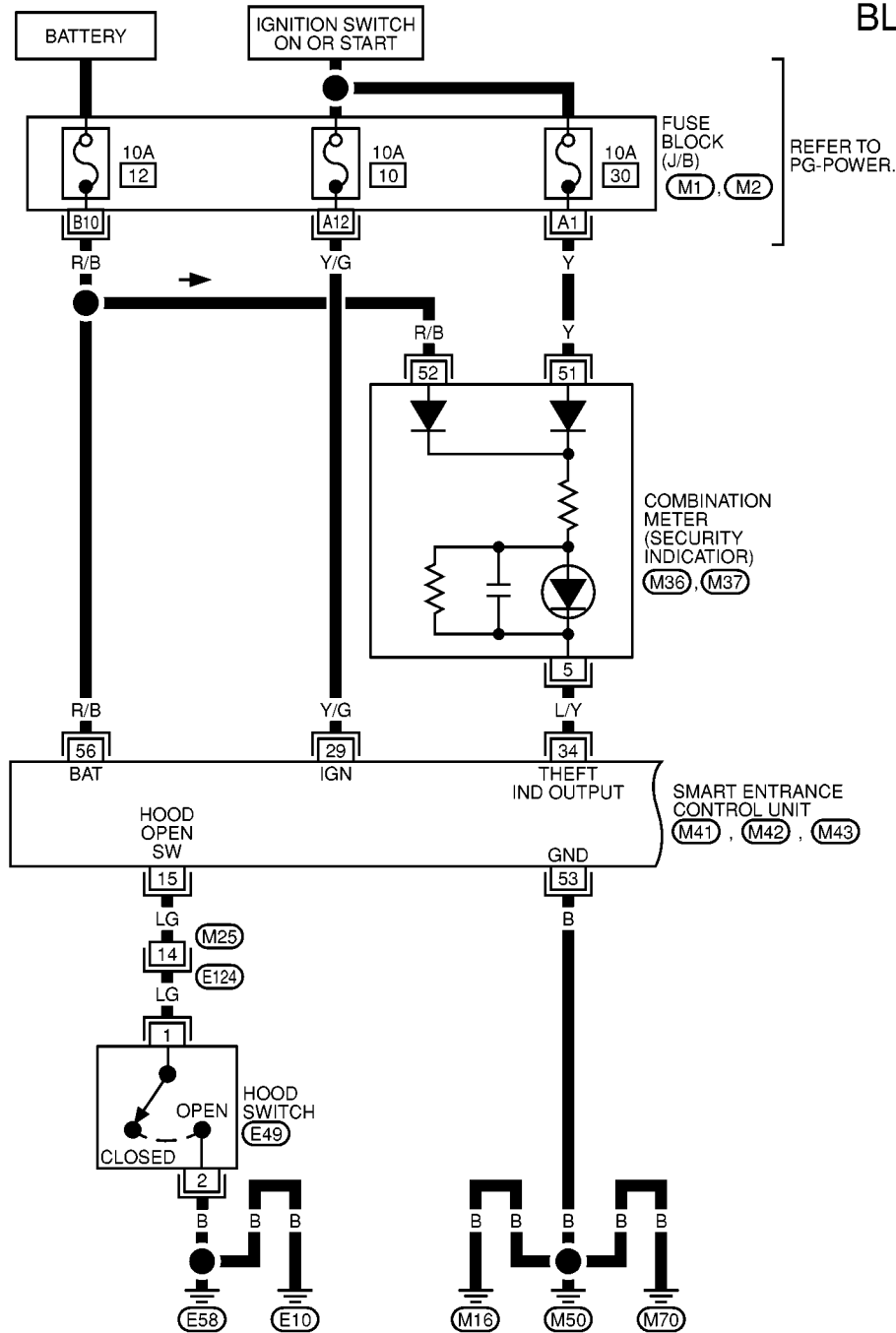
BL

# THEFT WARNING SYSTEM

## Wiring Diagram — THEFT — LHD MODELS

EIS002LM

BL-THEFT-01

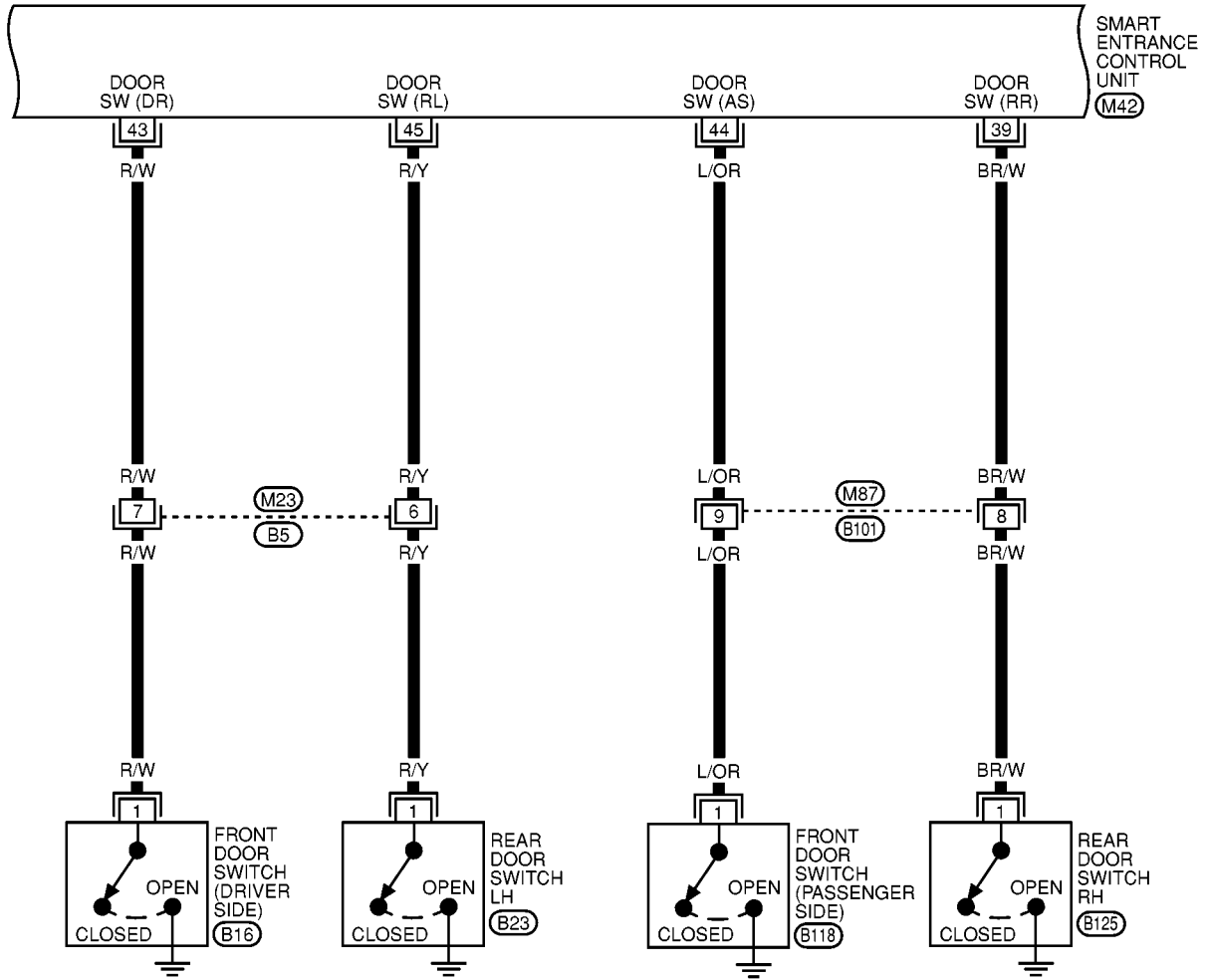


MKWA0125E

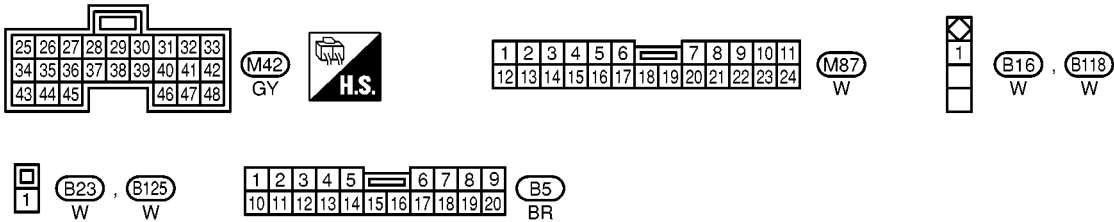


# THEFT WARNING SYSTEM

BL-THEFT-02



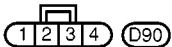
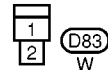
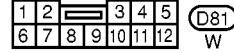
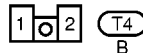
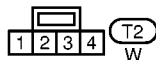
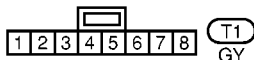
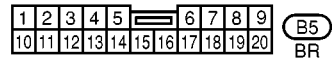
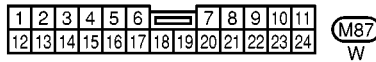
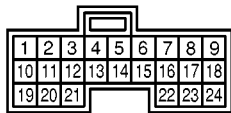
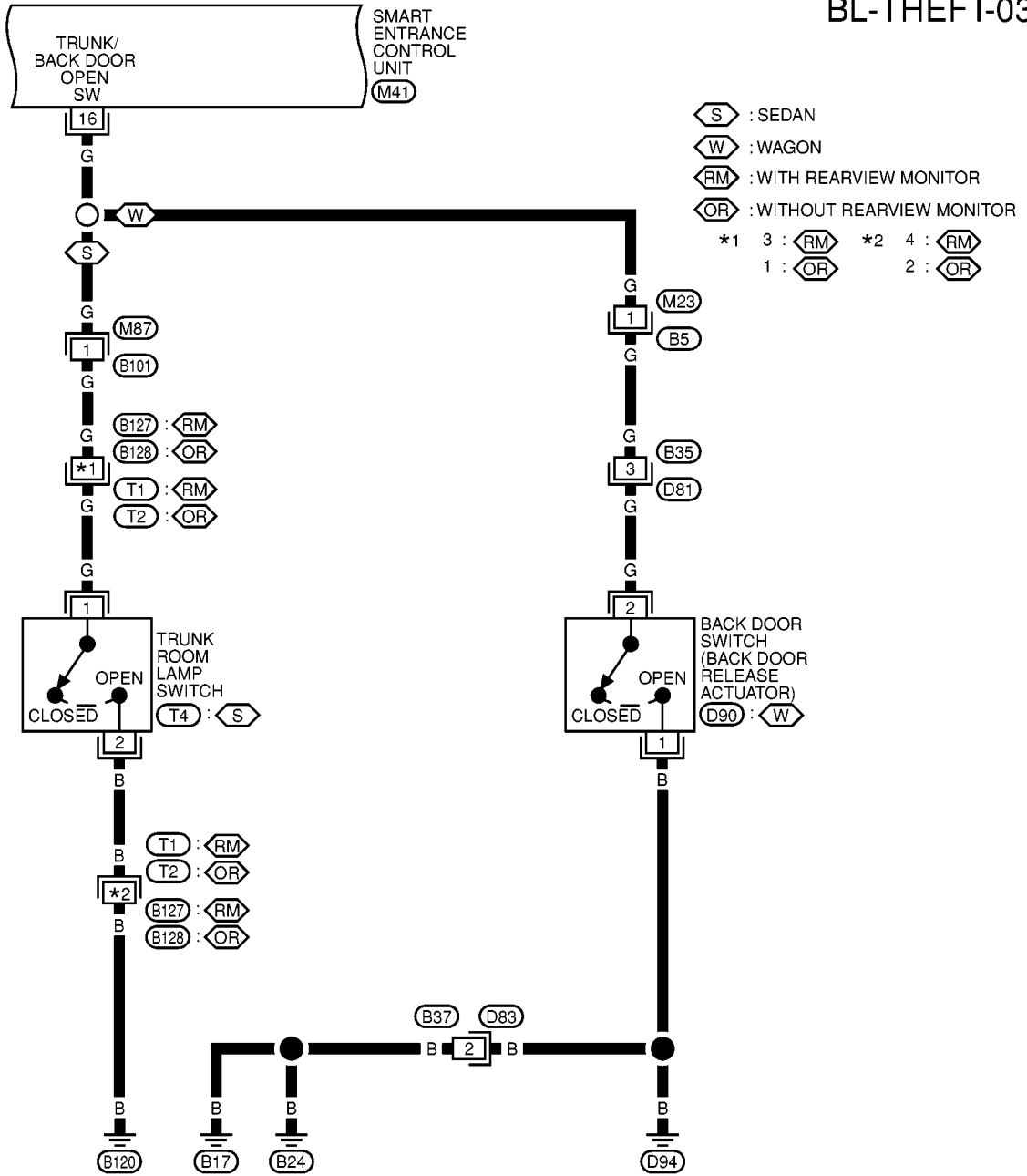
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MKWA0126E

# THEFT WARNING SYSTEM

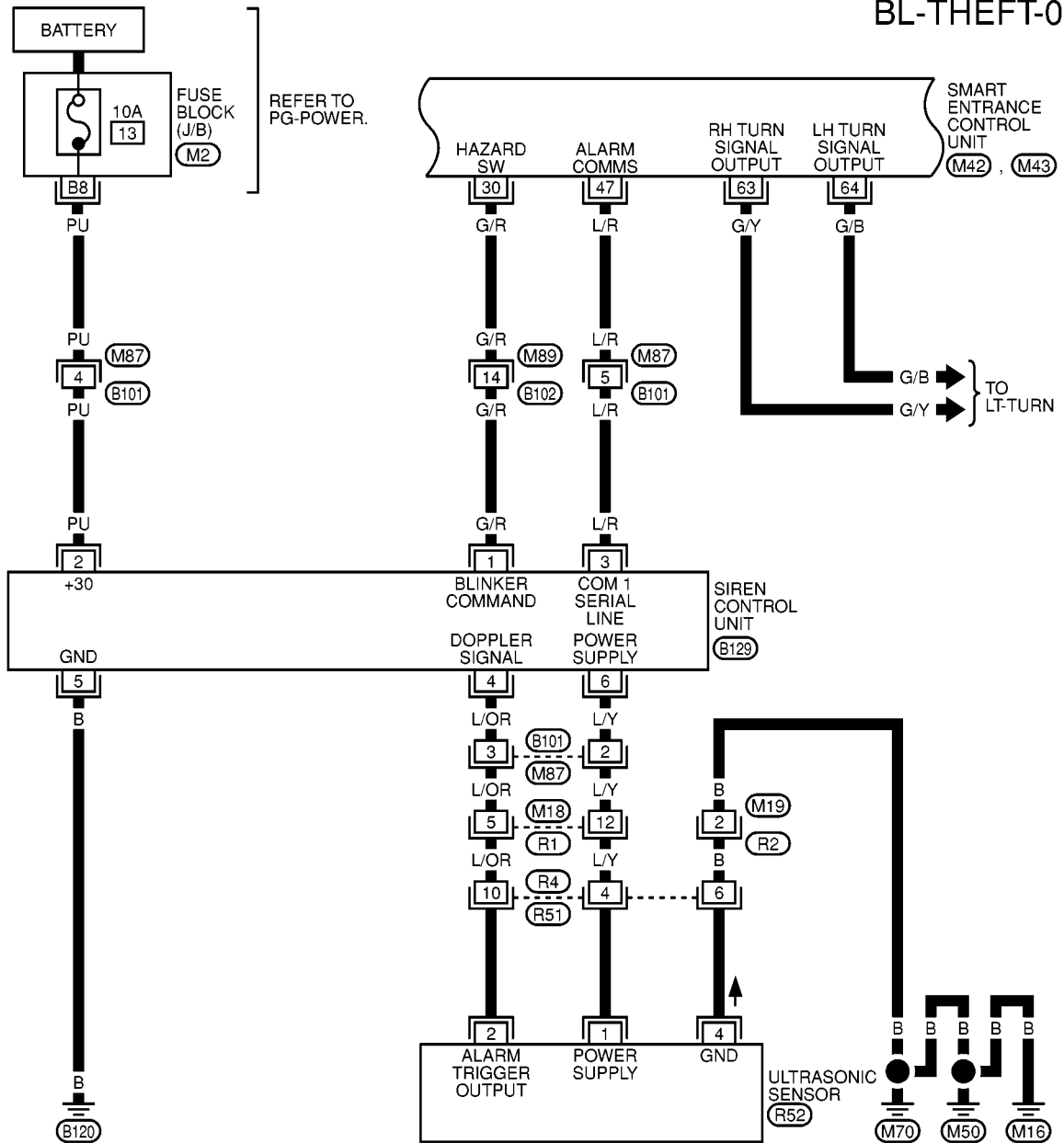
BL-THEFT-03



MKWA0127E

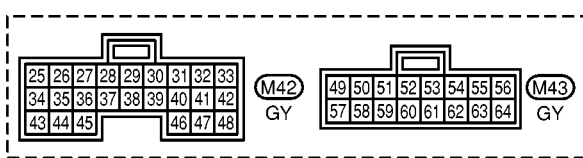
# THEFT WARNING SYSTEM

BL-THEFT-04



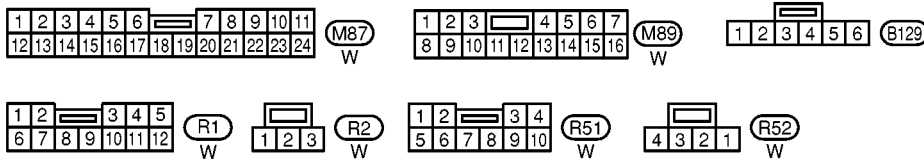
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REFER TO THE FOLLOWING.

(M2) - FUSE BLOCK-JUNCTION BOX (J/B)



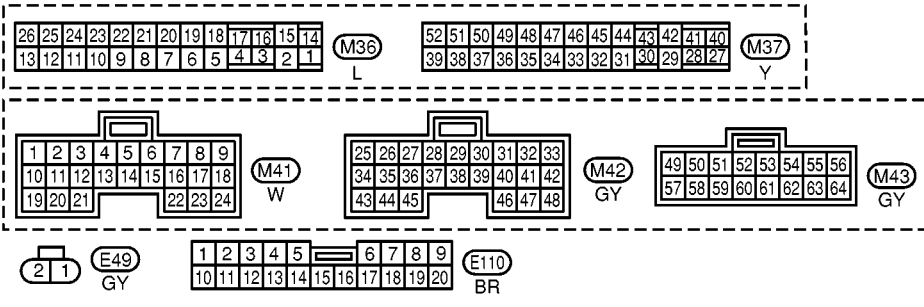
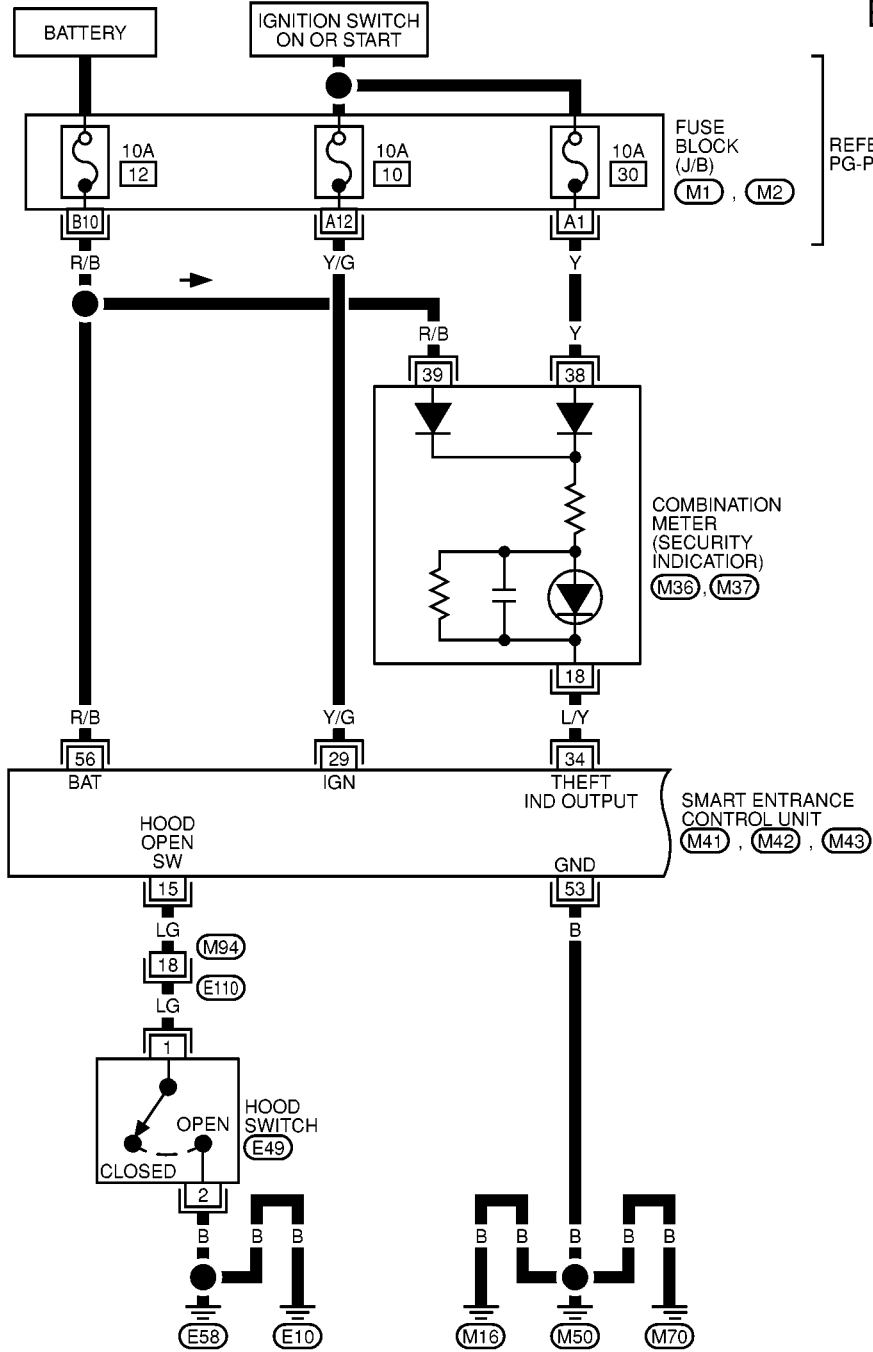
MKWA0128E



# THEFT WARNING SYSTEM

RHD MODELS

BL-THEFT-06



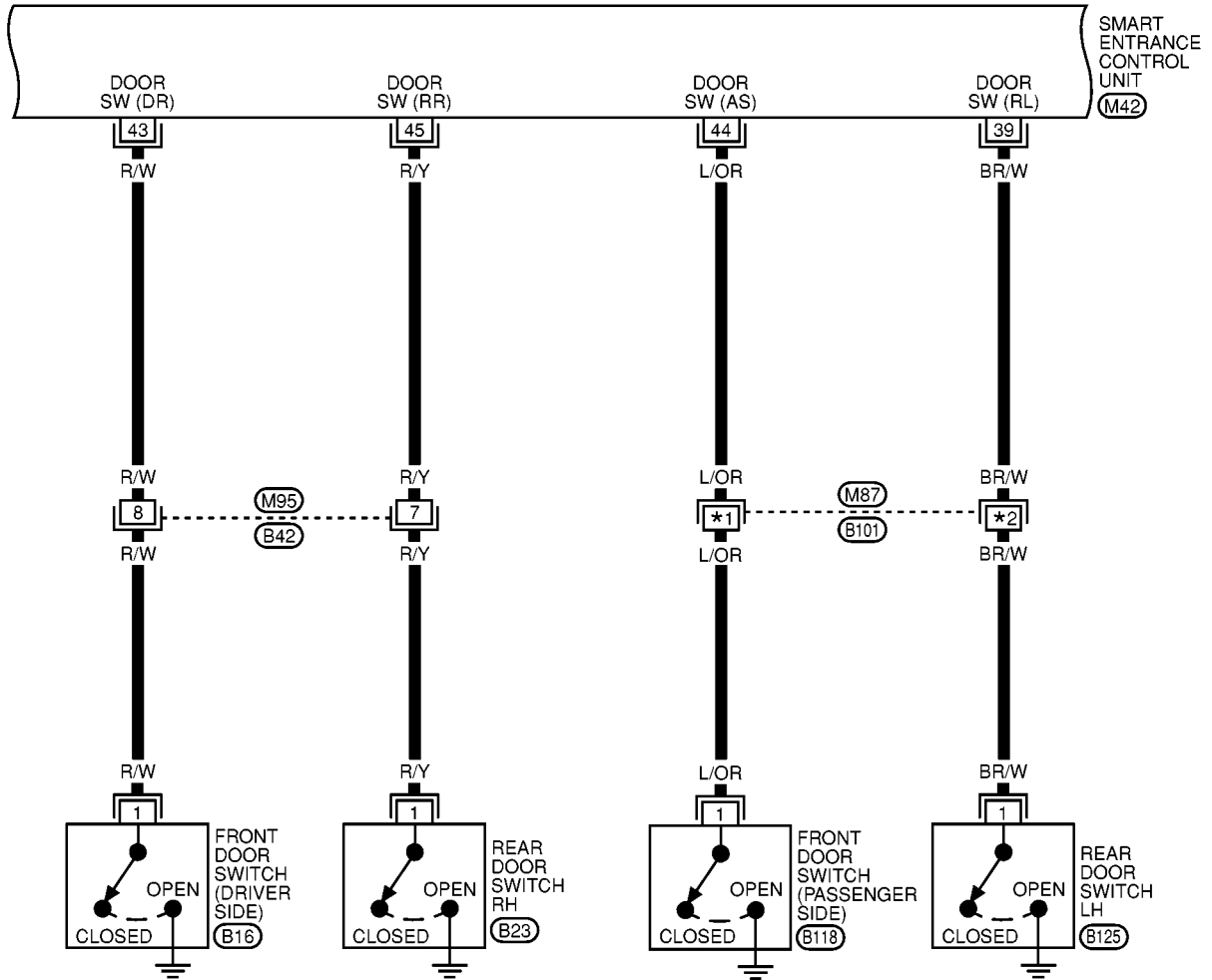
REFER TO THE FOLLOWING.

- (M1), (M2) - FUSE BLOCK
- (J/B) - JUNCTION BOX

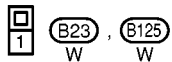
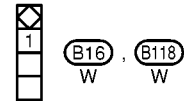
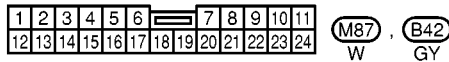
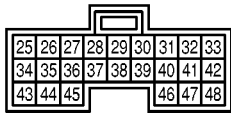
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# THEFT WARNING SYSTEM

BL-THEFT-07



ES : WITH ESP/TCS/ABS CONTROL UNIT  
 OE : WITHOUT ESP/TCS/ABS CONTROL UNIT  
 \*1 11 : ES      \*2 24 : ES  
 9 : OE            8 : OE

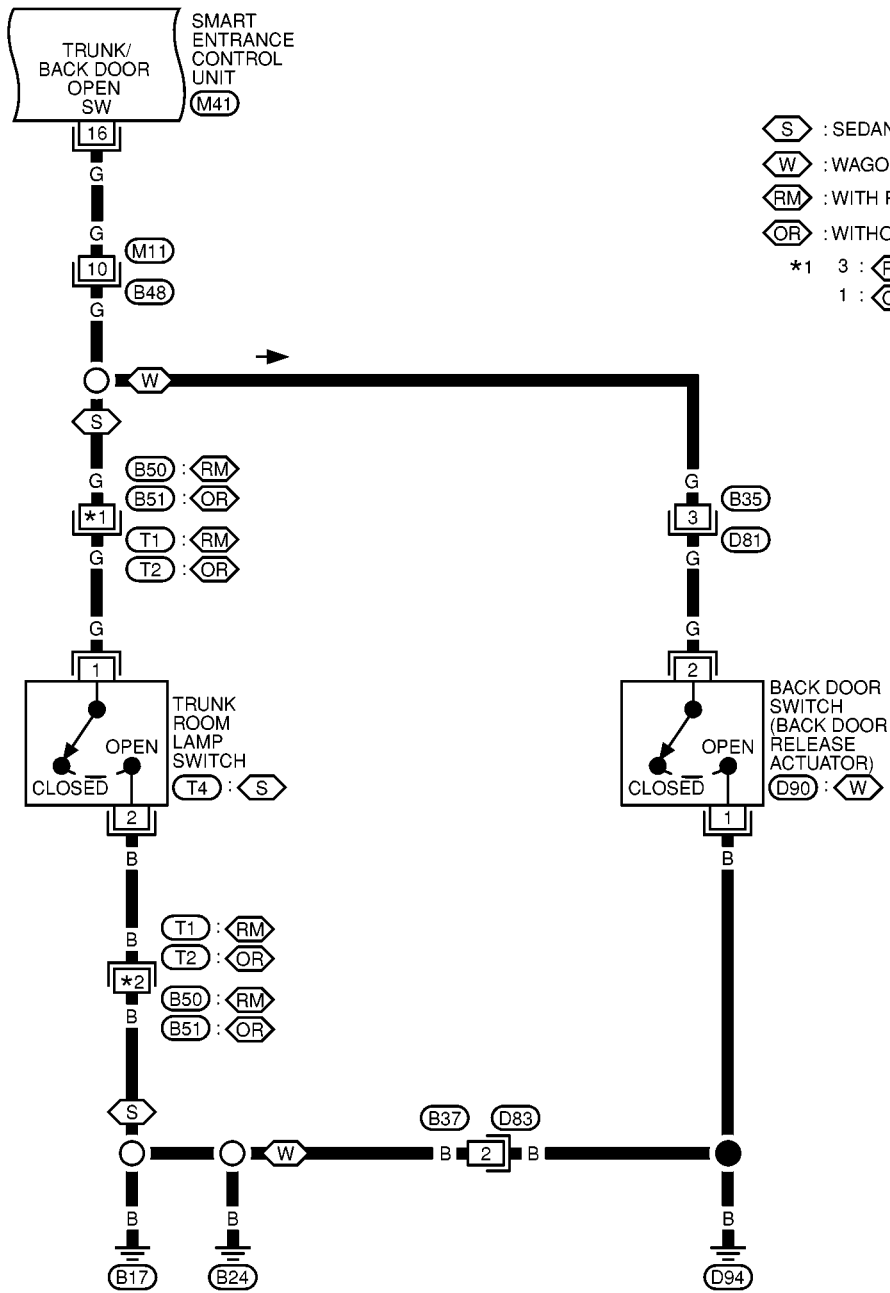


MKWA0131E

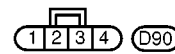
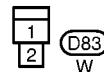
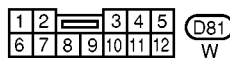
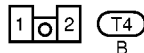
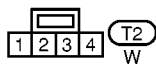
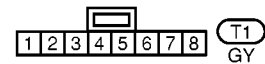
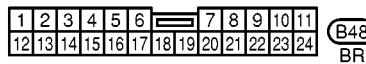
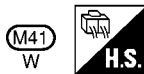
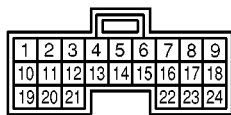
# THEFT WARNING SYSTEM

BL-THEFT-08

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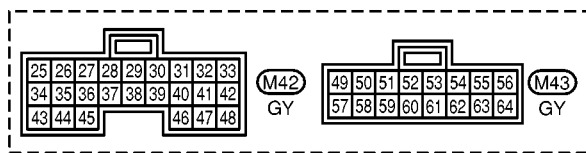
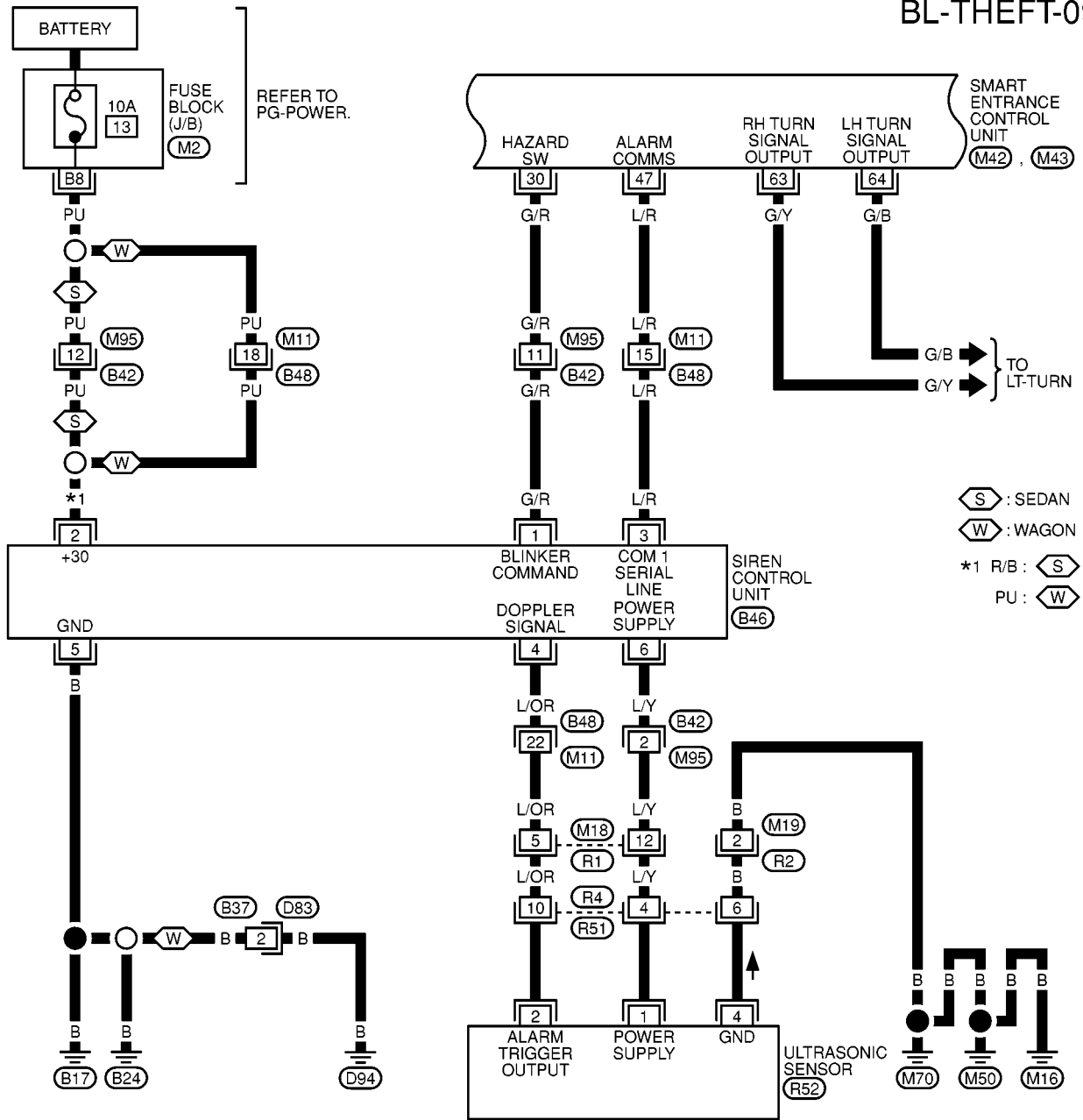
- : SEDAN
- : WAGON
- : WITH REARVIEW MONITOR
- : WITHOUT REARVIEW MONITOR
- \*1 3 : \*2 4 :
- 1 : 2 :



MKWA0132E

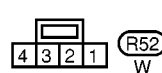
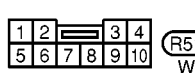
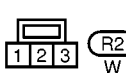
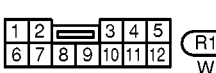
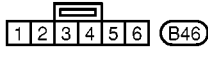
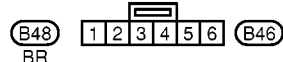
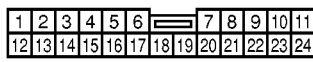
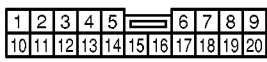
# THEFT WARNING SYSTEM

BL-THEFT-09



REFER TO THE FOLLOWING.

(M2) - FUSE BLOCK-JUNCTION BOX (J/B)

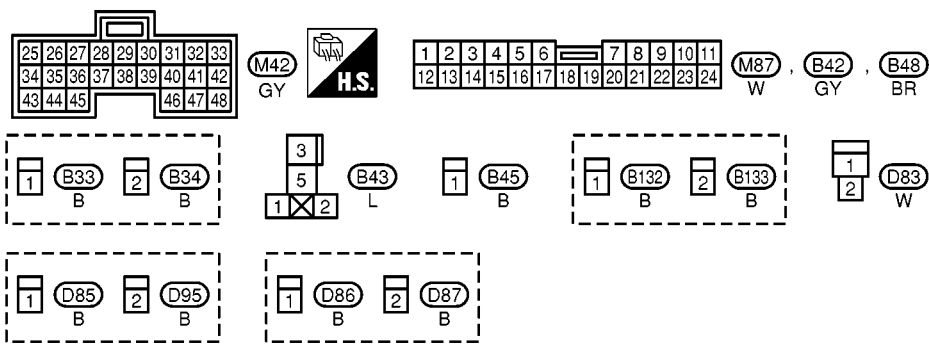
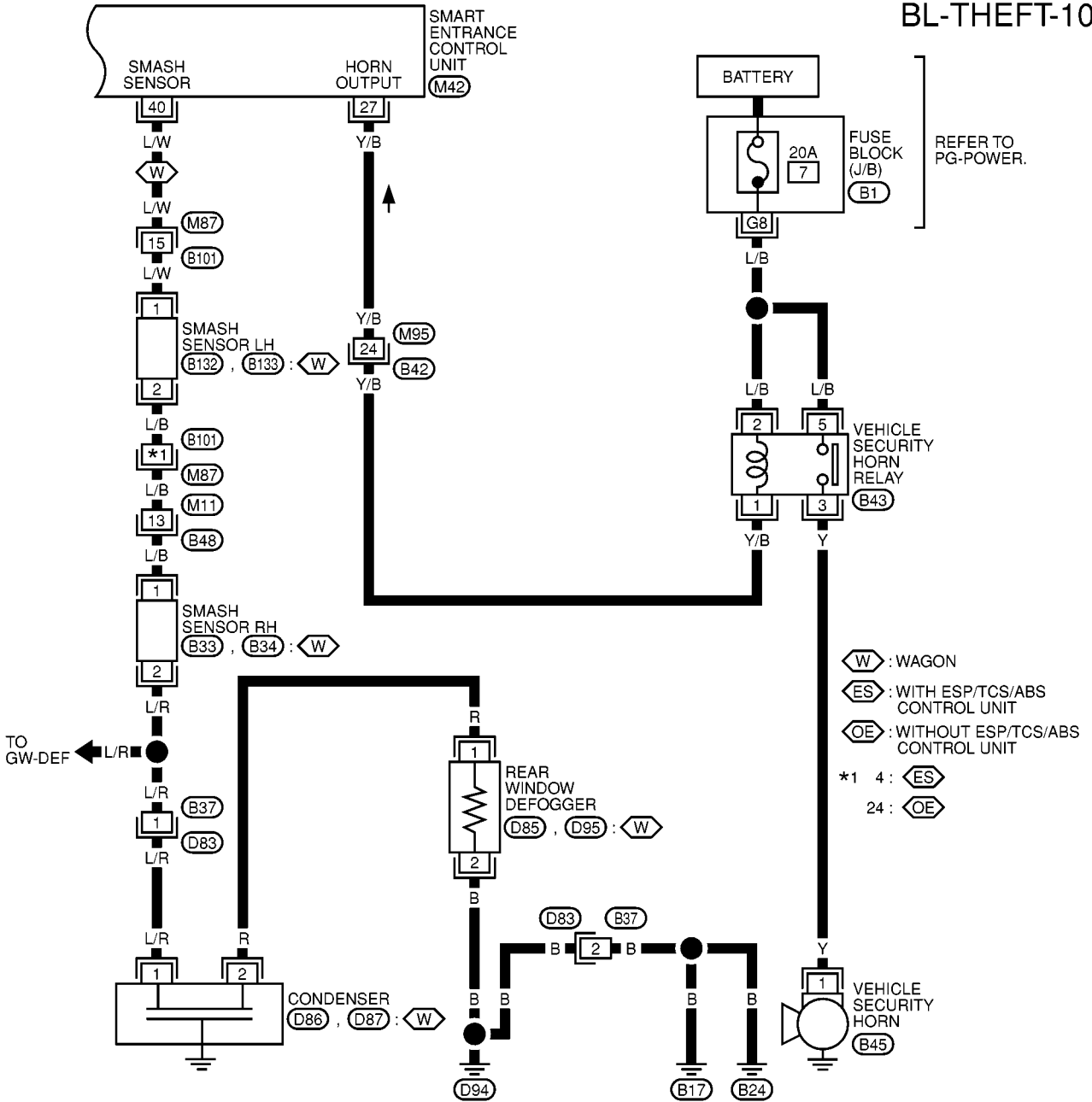


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# THEFT WARNING SYSTEM

BL-THEFT-10



REFER TO THE FOLLOWING.

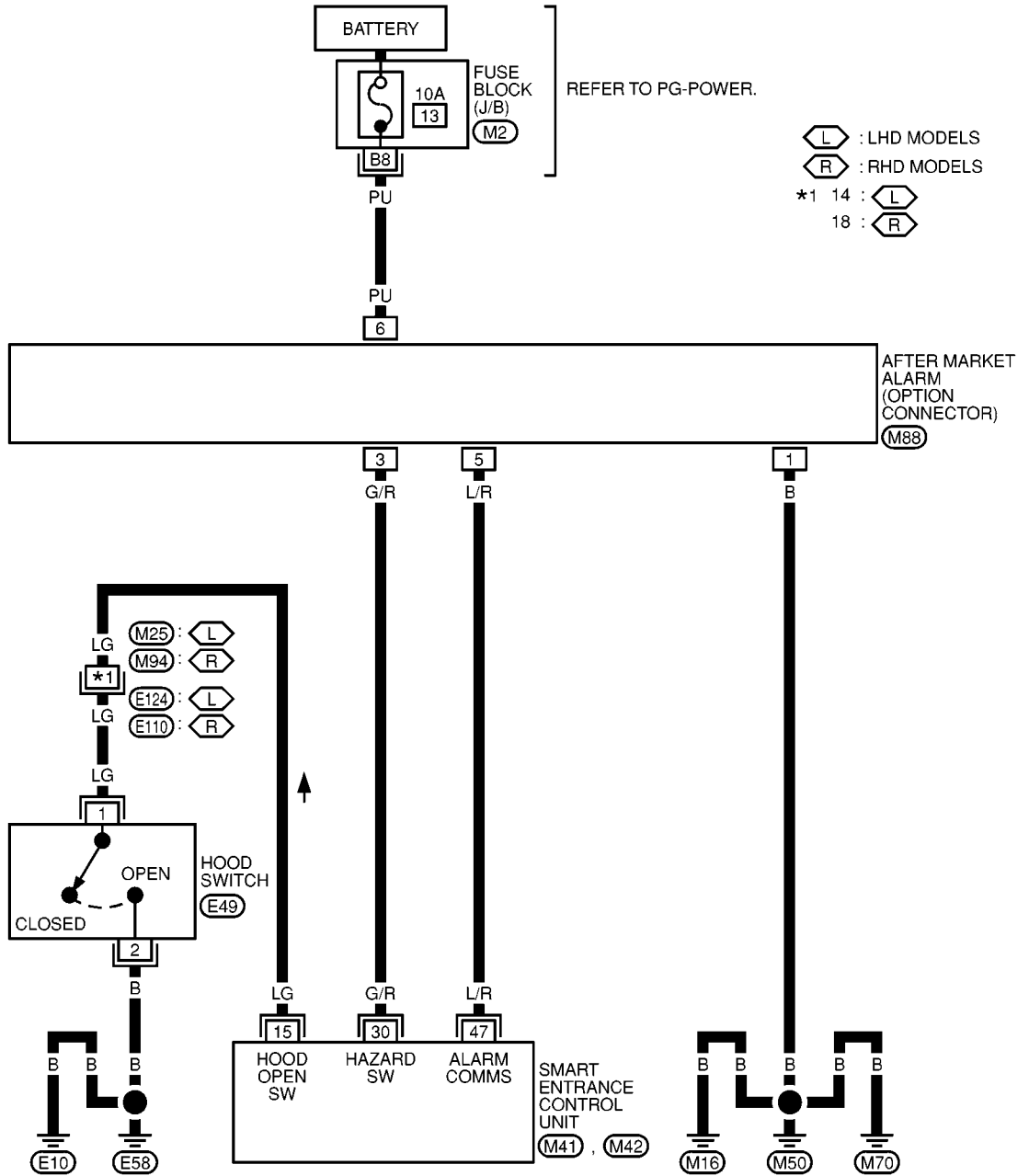
(B1) - FUSE BLOCK-JUNCTION BOX (J/B)

MKWA0134E

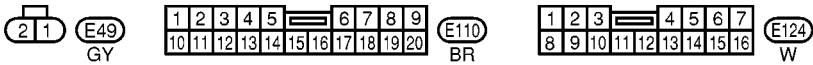
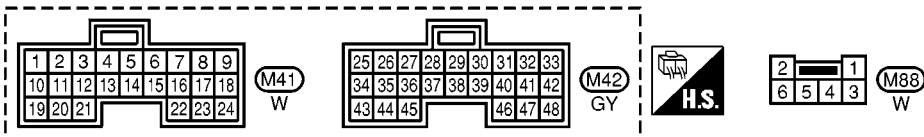
# THEFT WARNING SYSTEM

OPTION CONNECTOR — PREWIRE —

BL-PRWIRE-01



- L : LHD MODELS
- R : RHD MODELS
- \*1 14 : L
- 18 : R



REFER TO THE FOLLOWING.

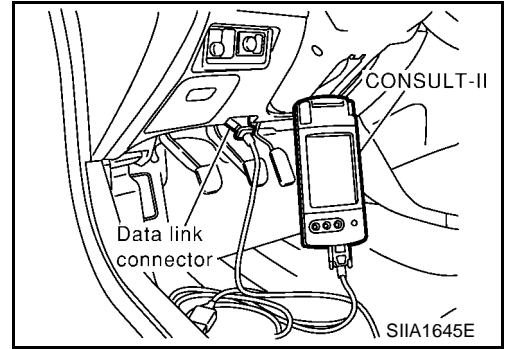
M2 - FUSE BLOCK-  
JUNCTION BOX (J/B)

# THEFT WARNING SYSTEM

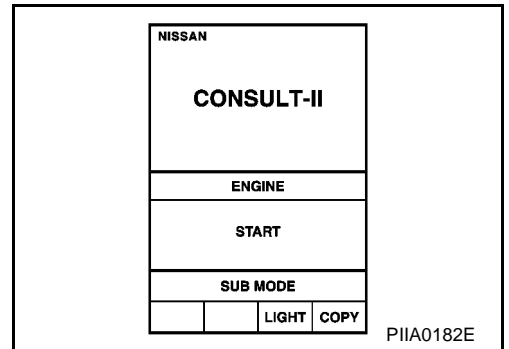
## CONSULT- II Inspection Procedure

EIS002OT

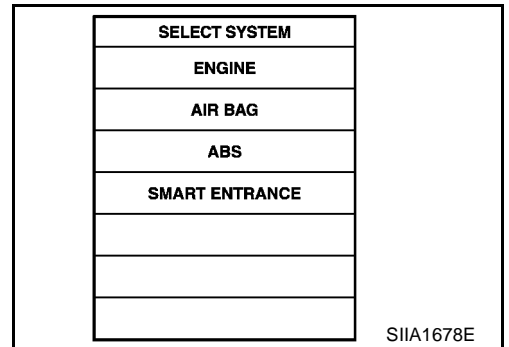
1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.



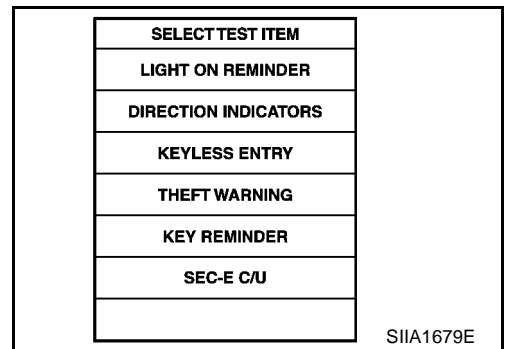
3. Turn ignition switch "ON".
4. Touch "START".



5. Touch "SMART ENTRANCE".



6. Touch "THEFT WARNING".

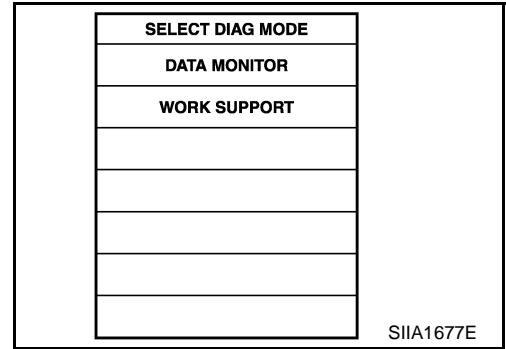


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# THEFT WARNING SYSTEM

7. Select diagnosis mode.  
 "DATA MONITOR" and "WORK SUPPORT" are available.



## CONSULT- II Application Items DATA MONITOR

EIS0020U

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch in ON position.
RR LH DOOR SW	Indicates [ON/OFF] condition of rear door switch LH.
RR RH DOOR SW	Indicates [ON/OFF] condition of rear door switch RH.
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
HOOD OPEN SW	Indicates [ON/OFF] condition of hood switch.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/ unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/ unlock switch.
DOOR SW - ALL	Indicates [ON/OFF] condition of door switch (All).
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (wagon) open signal from trunk or back door release switch.

## WORK SUPPORT

Test Item	Description
THEFT WARNING	This mode can be setting theft warning function.
LASTEST ALARM TRIGGER	This mode can be displayed last alarm trigger condition.
PRE- ARM FAST FLASH	This mode can be changed alarm operation.
SIREN FITTED	This mode can be setting siren condition.
PUREVIOUS ALARM TRIGGER	This mode can be displayed previous alarm trigger condition.
OLDEST ALARM TRIGGER	This mode can be displayed oldest alarm trigger condition.

## Trouble Diagnoses

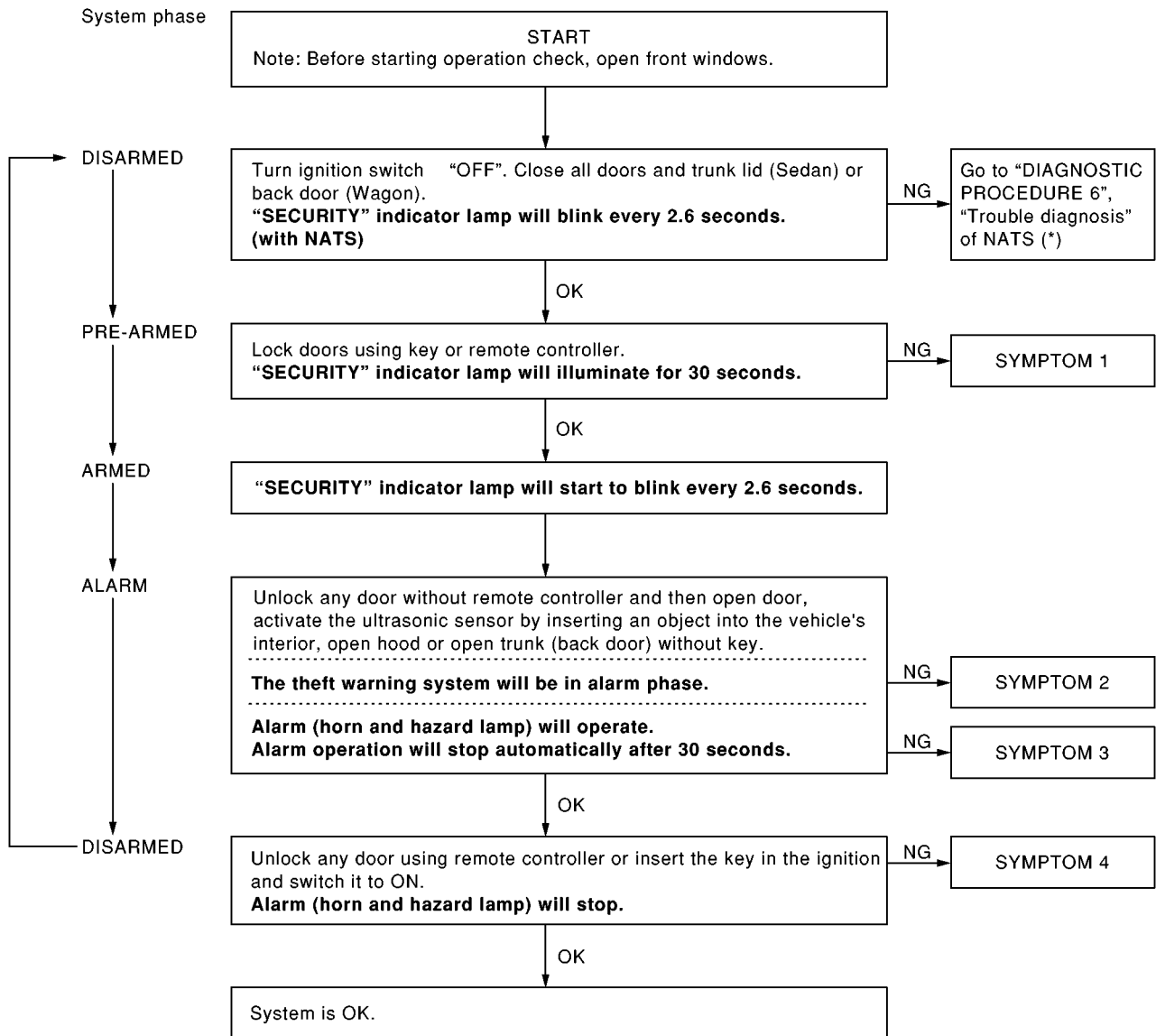
EIS0020W

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-33. "CONSULT-II INSPECTION PROCEDURE"](#) .

# THEFT WARNING SYSTEM

## PRELIMINARY CHECK

The system operation is canceled by turning ignition switch to "ACC" at any step between START and ARMED in the following flow chart.



SIIA1648E

After performing preliminary check, go to symptom chart. Refer to [BL-142, "SYMPTOM CHART"](#).

# THEFT WARNING SYSTEM

## SYMPTOM CHART

PROCEDURE		Diagnostic procedure	Reference page	
SYMPTOM				
1	Theft warning system cannot be set by ....	All items	Power supply and ground circuit check	<a href="#">BL-142</a>
			Door switch check	<a href="#">BL-143</a>
			Hood switch check	<a href="#">BL-149</a>
			Trunk room lamp switch or back door switch check	<a href="#">BL-147</a>
			If the above systems are "OK", replace smart entrance control unit.	—
	Remote controller	Check "MULTI-REMOTE CONTROL" system.	<a href="#">BL-82</a>	
Security indicator does not turn "ON".			Security indicator lamp check	<a href="#">BL-153</a>
			If the above systems are "OK", replace smart entrance control unit.	—
2	*1 Theft warning system does not alarm when ....	Any door is opened.	Door switch check	<a href="#">BL-143</a>
			Hood switch check	<a href="#">BL-149</a>
			Trunk room lamp switch or back door switch check	<a href="#">BL-147</a>
			If the above systems are "OK", replace smart entrance control unit.	—
	Glass breakage is detected	Smash sensor check	<a href="#">BL-154</a>	
3	Vehicle security alarm does not activate.	Horn alarm	Vehicle security horn alarm check	<a href="#">BL-152</a>
		Hazard lamp alarm	Hazard lamp alarm check	<a href="#">BL-153</a>
4	Theft warning system cannot be canceled by ....	Ignition key	Key switch check	<a href="#">BL-151</a>
			Check "NATS (NISSAN ANTI-THEFT SYSTEM)" system.	<a href="#">BL-156</a>
		Remote controller	Check "MULTI-REMOTE CONTROL" system.	<a href="#">BL-82</a>

\*1: Make sure the system is in the armed phase.

## Power Supply and Ground Circuit Check

EIS0020X

### 1. CHECK POWER SUPPLY CIRCUIT

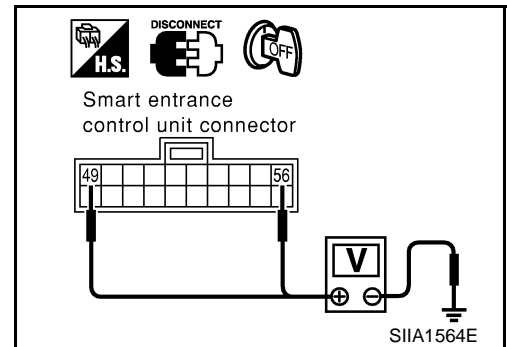
- Turn ignition switch OFF.
- Disconnect smart entrance control unit connector.
- Check voltage between smart entrance control unit harness connector M43 terminal 49(W/L), 56(R/B) and ground.

Terminal		Voltage
+	-	
49(W/L)	Ground	Battery voltage
56(R/B)		

OK or NG?

OK >> GO TO 2

NG >> Check smart entrance control unit power supply circuit for open or short.



# THEFT WARNING SYSTEM

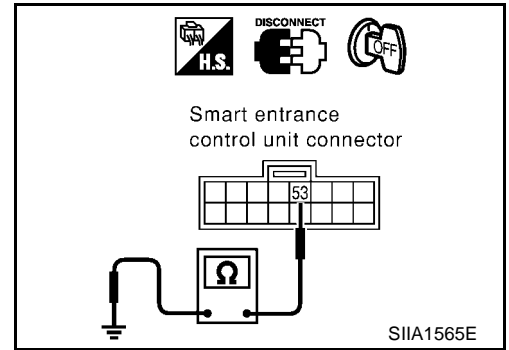
## 2. CHECK GROUND CIRCUIT

Check continuity between smart entrance control unit harness connector M43 terminal 53(B) and ground.

Terminal		Continuity
+	-	
53(B)	Ground	Yes

OK or NG?

- OK >> Power supply and ground circuit is OK.
- NG >> Check smart entrance control unit ground circuit for open or short.



EIS0020Y

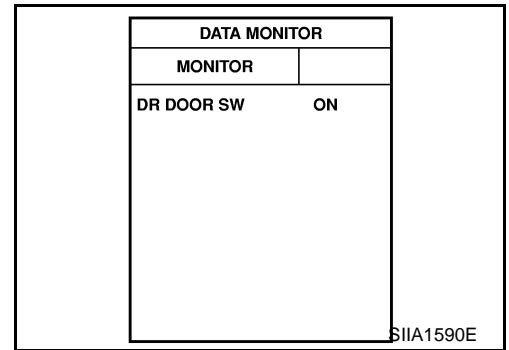
## Door Switch Check DRIVER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

☑ With CONSULT- II

- Check door switch "DR DOOR SW" in "DATA MONITOR" mode with CONSULT- II.

	Monitor item	Condition
DR DOOR SW	Front door switch LH	Open: ON
		Close: OFF



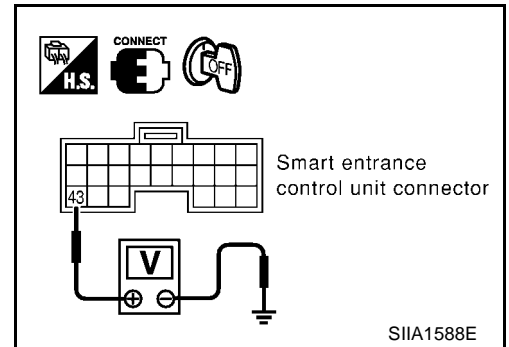
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 43(R/W) and ground.

Terminal		Front door LH	Voltage
(+)	(-)		
43(R/W)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.
- NG >> GO TO 2



SIIA1588E

# THEFT WARNING SYSTEM

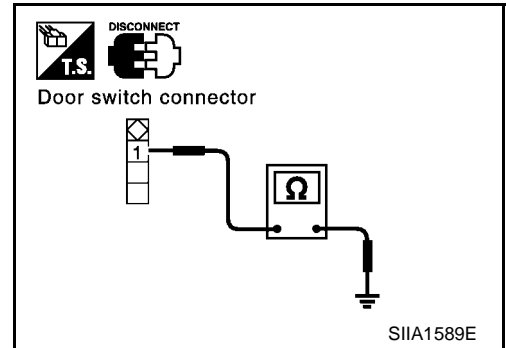
## 2. CHECK DOOR SWITCH

Check continuity between front door switch LH harness connector B16 terminal 1(R/W) and ground.

Terminal		Front door LH switch	Continuity
(+)	(-)		
1(R/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Front door switch LH ground condition
  - Harness for open or short between smart entrance control unit and front door switch LH
- NG >> Replace front door switch LH.



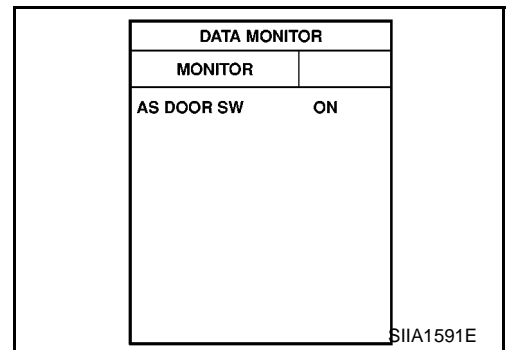
## PASSENGER SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch “AS DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
AS DOOR SW	Front door switch RH	Open: ON
		Close: OFF



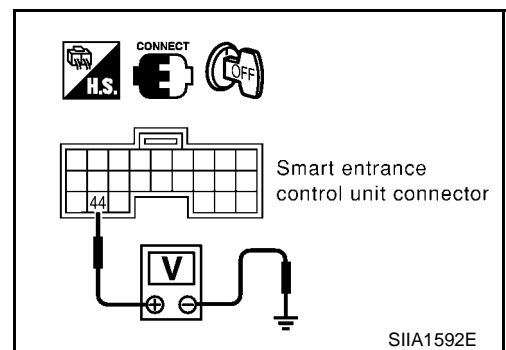
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 44(L/OR) and ground.

Terminal		Front door RH	Voltage
(+)	(-)		
44(L/OR)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2





# THEFT WARNING SYSTEM

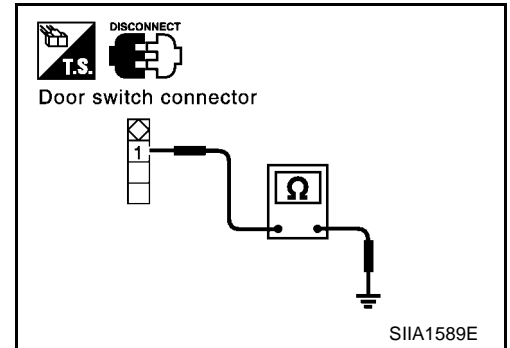
## 2. CHECK DOOR SWITCH

Check continuity between front door switch RH harness connector B118 terminal 1(L/OR) and ground.

Terminal		Front door RH switch	Continuity
(+)	(-)		
1(L/OR)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Front door switch RH ground condition
  - Harness for open or short between smart entrance control unit and front door switch RH
- NG >> Replace front door switch RH.



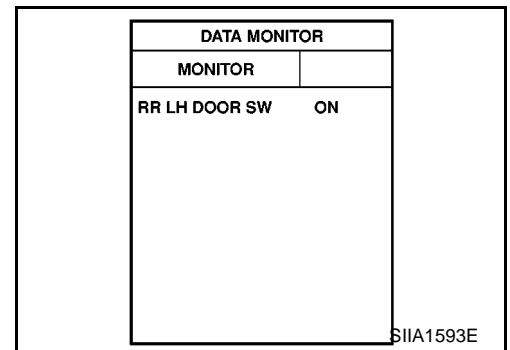
## REAR LH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch “RR LH DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
RR LH DOOR SW	Rear door switch LH	Open: ON
		Close: OFF



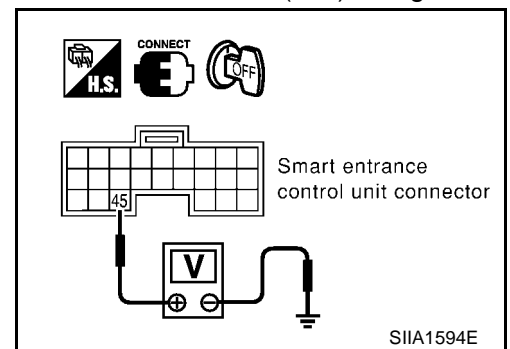
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 45(R/Y) and ground.

Terminal		Rear door LH	Voltage
(+)	(-)		
45(R/Y)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2



# THEFT WARNING SYSTEM

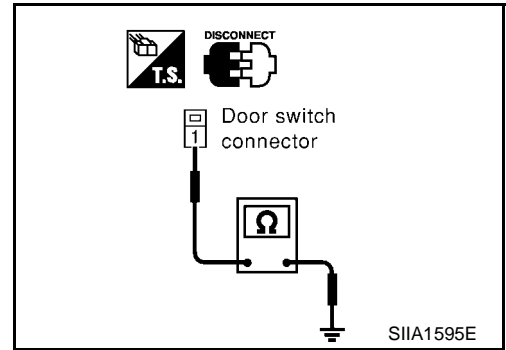
## 2. CHECK DOOR SWITCH

Check continuity between rear door switch LH harness connector B23 terminal 1(R/Y) and ground.

Terminal		Rear door LH switch	Continuity
(+)	(-)		
1(R/Y)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Rear door switch LH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch LH
- NG >> Replace rear door switch LH.



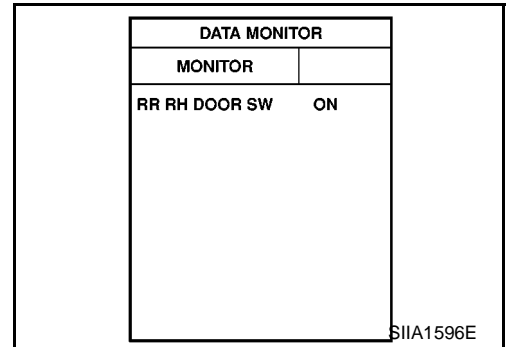
## REAR RH SIDE

### 1. CHECK DOOR SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch “RR RH DOOR SW” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
RR RH DOOR SW	Rear door switch RH	Open: ON
		Close: OFF



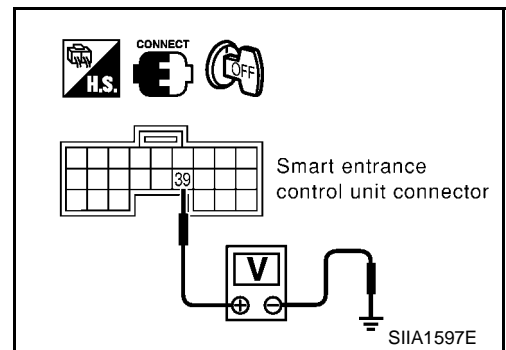
⊗ Without CONSULT- II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector M42 terminal 39(BR/W) and ground.

Terminal		Rear door RH	Voltage
(+)	(-)		
39(BR/W)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Door switch is OK.  
 NG >> GO TO 2



# THEFT WARNING SYSTEM

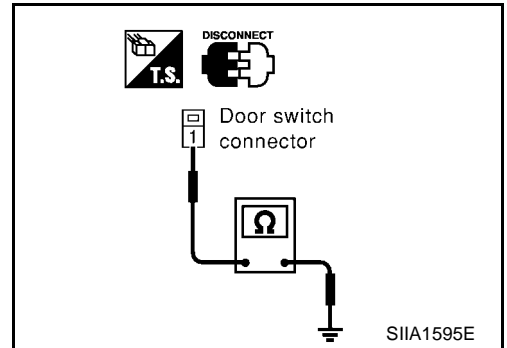
## 2. CHECK DOOR SWITCH

Check continuity between rear door switch RH harness connector B125 terminal 1(BR/W) and ground.

Terminal		Rear door RH switch	Continuity
(+)	(-)		
1(BR/W)	Ground	Pushed	No
		Released	Yes

OK or NG?

- OK >> Check the following.
- Rear door switch RH ground condition
  - Harness for open or short between smart entrance control unit and rear door switch RH
- NG >> Replace rear door switch RH.



## Trunk Room Lamp Switch or Back Door Switch Check TRUNK ROOM LAMP SWITCH

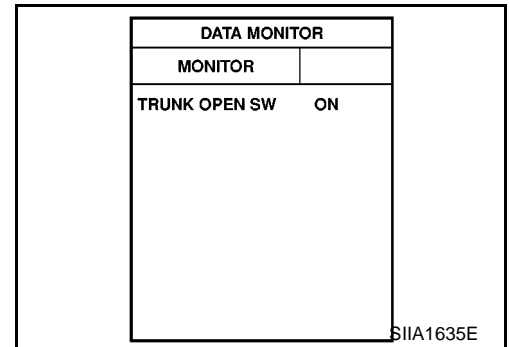
EIS002OZ

### 1. CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

Ⓟ With CONSULT- II

- Check door switch “TRUNK OPEN SWITCH” in “DATA MONITOR” mode with CONSULT- II.

	Monitor item	Condition
TRUNK OPEN SW	Trunk room lamp switch	Open: ON
		Close: OFF



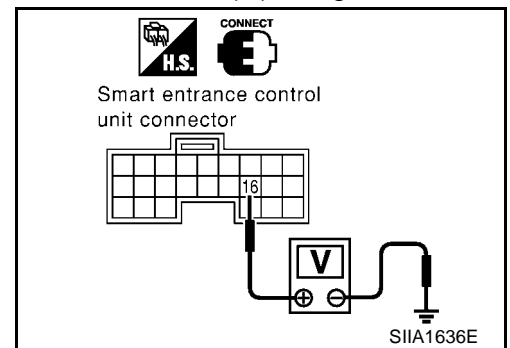
⊗ Without CONSULT- II

Check voltage between smart entrance control unit harness connector M41 terminal 16(G) and ground.

Terminal		Trunk lid	Voltage
(+)	(-)		
16(G)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

- OK >> Trunk room lamp switch is OK.  
 NG >> GO TO 2



# THEFT WARNING SYSTEM

## 2. CHECK TRUNK ROOM LAMP SWITCH

Check continuity between trunk room lamp switch terminals 1 and 2.

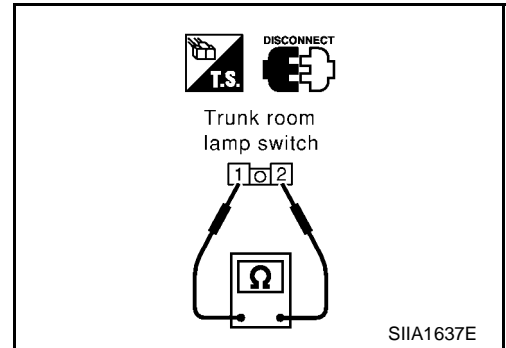
Terminal	Trunk lid condition	Continuity
1 - 2	Opened	Yes
	Closed	No

OK or NG?

OK >> Check the following.

- Trunk room lamp switch ground circuit
- Harness for open or short between smart entrance control unit and trunk room lamp switch

NG >> Replace trunk room lamp switch.



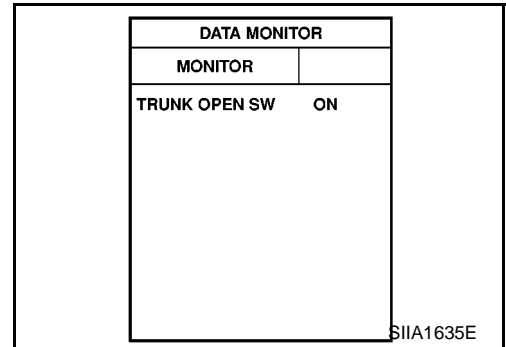
## BACK DOOR SWITCH

### 1. CHECK BACK DOOR SWITCH INPUT SIGNAL

Ⓜ With CONSULT- II

- Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

	Monitor item	Condition
TRUNK OPEN SW	Back door switch	Open: ON
		Close: OFF



⊗ Without CONSULT- II

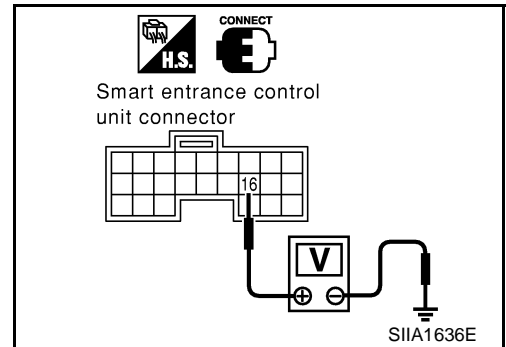
Check voltage between smart entrance control unit harness connector M41 terminal 16(G) and ground.

Terminal		Back door	Voltage
(+)	(-)		
16(G)	Ground	Closed	Approx. 5
		Open	0

OK or NG?

OK >> Back door switch is OK.

NG >> GO TO 2



# THEFT WARNING SYSTEM

## 2. CHECK BACK DOOR SWITCH

Check continuity between back door switch (back door release actuator) terminals 1 and 2.

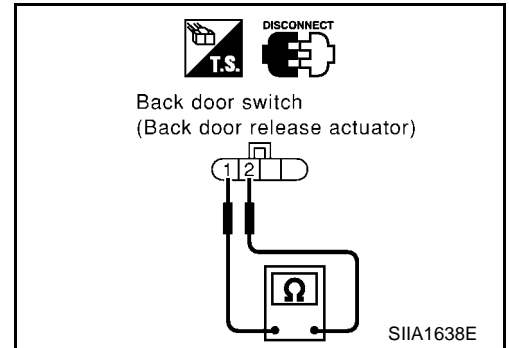
Terminal	Back door condition	Continuity
1 - 2	Opened	Yes
	Closed	No

OK or NG?

OK >> Check the following.

- Back door switch (back door release actuator) ground circuit
- Harness for open or short between smart entrance control unit and back door switch (back door release actuator)

NG >> Replace back door switch (back door release actuator).



## Hood Switch Check

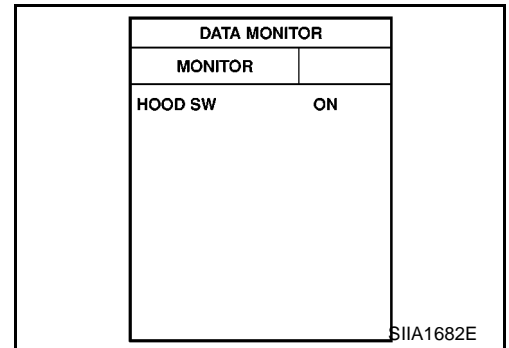
EIS002P0

### 1. CHECK HOOD SWITCH INPUT SIGNAL

① With CONSULT-II

Check "HOOD SWITCH" in "DATA MONITOR" mode with CONSULT-II.

**Engine hood is open : HOOD SW ON**  
**Engine hood is closed : HOOD SW OFF**



② Without CONSULT-II

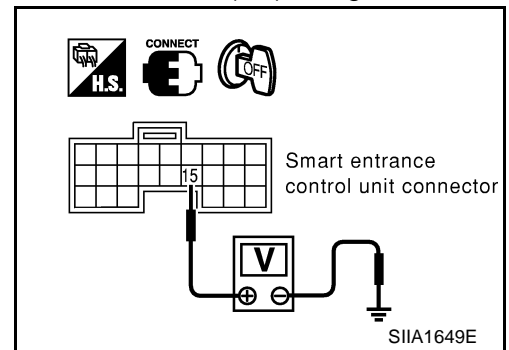
Check voltage between smart entrance control unit harness connector M41 terminal 15(LG) and ground.

**Engine hood is open. : 0V**  
**Engine hood is closed. : Approx. 5V**

OK or NG?

OK >> Hood switch is OK.

NG >> GO TO 2.



## 2. CHECK DOOR SWITCH

Check hood switch and hood fitting condition.

OK or NG?

OK >> GO TO 3.

NG >> Adjust installation of hood switch.

# THEFT WARNING SYSTEM

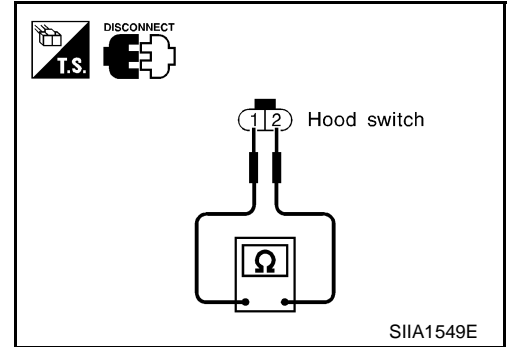
## 3. CHECK HOOR SWITCH

1. Disconnect hood switch connector.
2. Check continuity between hood switch terminals.

Terminals	Condition	Continuity
1- 2	Closed (Pushed)	No
	Open (Released)	Yes

OK or NG?

- OK >> Check the following.
- Hood switch ground circuit
  - Harness for open or short between hood switch and smart entrance control unit
- NG >> Replace hood switch.



# THEFT WARNING SYSTEM

## Key Switch Check

E/S002P1

### 1. CHECK KEY SWITCH INPUT SIGNAL

① With CONSULT-II

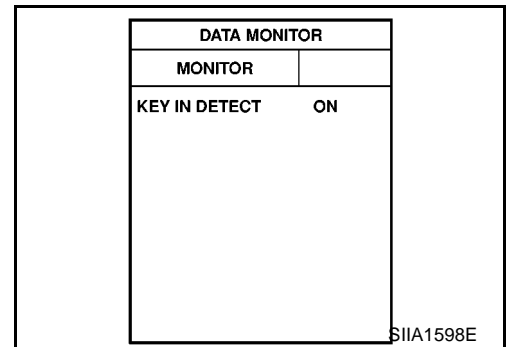
- Check key switch input signal "KEY IN DETECT" in "DATA MONITOR" mode with CONSULT- II.

**When key is inserted in ignition key cylinder:**

**KEY IN DETECT ⇒ ON**

**When key is removed from ignition key cylinder:**

**KEY IN DETECT ⇒ OFF**



⊗ Without CONSULT- II

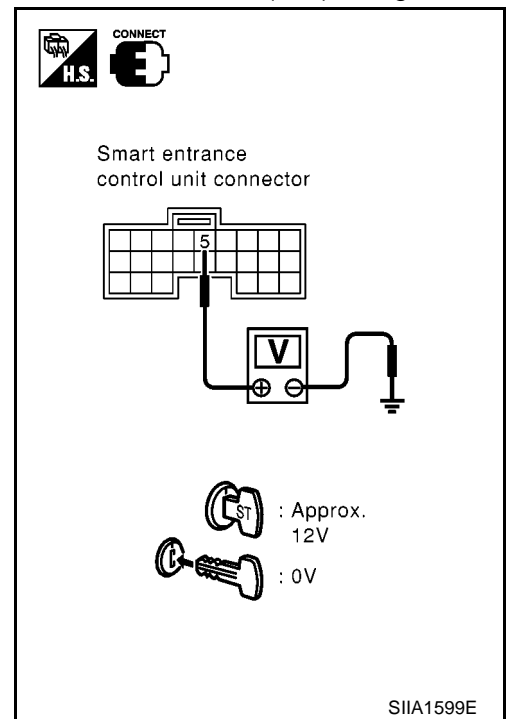
- Check voltage between smart entrance control unit harness connector M41 terminal 5(B/R) and ground.

Terminals		Key switch	Voltage
+	-		
5(B/R)	Ground	Key is inserted	Approx. 12
		Key is removed	0

OK or NG?

OK >> Key switch is OK.

NG >> GO TO 2



# THEFT WARNING SYSTEM

## 2. CHECK KEY SWITCH (INSERT)

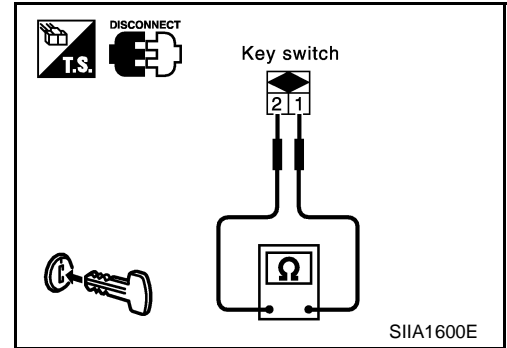
1. Disconnect key switch connector.
2. Check continuity between key switch terminals 1 and 2.

Terminals	Key switch	Continuity
1 - 2	Key is inserted	Yes
	Key is removed	No

OK or NG?

- OK >> Check the following.
- 10A fuse [No. 12, located in fuse block (J/B)]
  - Harness for open or short between key switch and fuse
  - Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



## Vehicle Security Horn Alarm Check

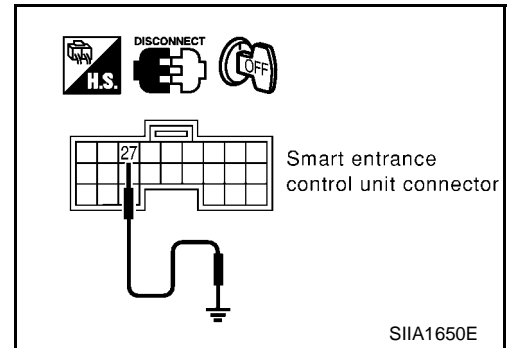
EIS002P2

### 1. CHECK VEHICLE SECURITY HORN OPERATION

1. Disconnect smart entrance control unit harness connector.
2. Apply ground to smart entrance control unit harness connector M42 terminal 27(Y/B).

Does horn operate?

- Yes >> Replace smart entrance control unit.  
 No >> GO TO 2.



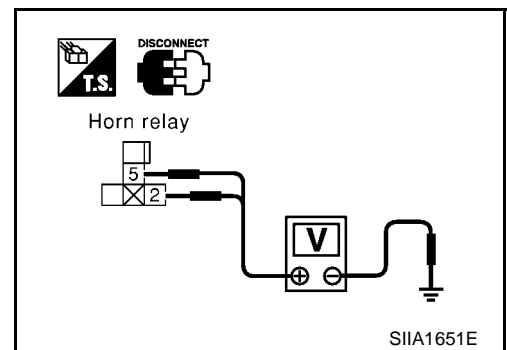
### 2. CHECK VEHICLE SECURITY HORN RELAY POWER SUPPLY

1. Disconnect vehicle security horn relay connector.
2. Check voltage between vehicle security horn relay harness connector B43 terminal 2, 5 and ground.

**: Battery voltage should exist.**

OK or NG?

- OK >> Check the following.
- Harness for open or short between smart entrance control unit and vehicle security horn relay
  - Harness open or short between vehicle security horn relay and ground
- NG >> Check harness open or short between vehicle security horn relay and fuse.





# THEFT WARNING SYSTEM

## Hazard Lamp Alarm Check

EIS002P3

### 1. CHECK HAZARD LAMP ALARM

Check if hazard lamp alarm flashes with hazard switch.

Does hazard warning lamp operate?

- Yes >> GO TO 2
- No >> Check hazard lamp alarm circuit.

### 2. HAZARD LAMP ALARM OPERATION

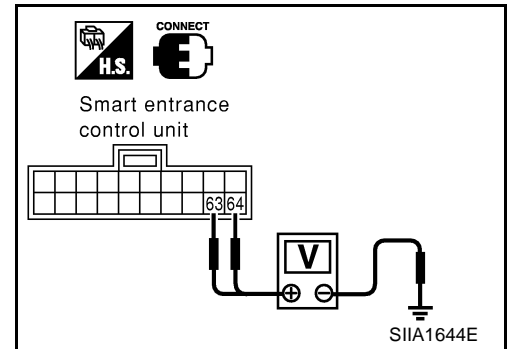
Check the following at when push the remote controller switch.

Check voltage between smart entrance control unit harness connector M43 terminal 63(G/Y), 64(G/B) and ground.

Remote controller	Voltage (Approximate values)
Pushing LOCK button	0V → 12V → 0V
Pushing UNLOCK button	0V → 12V → 0V → 12V → 0V

OK or NG?

- OK >> Check harness for open or short between smart entrance control unit and hazard switch.
- NG >> Replace smart entrance control unit.



## Security Indicator Lamp Check

EIS002P6

### 1. CHECK FUSE

Check 10A fuse [No.12 and No.30, located in the fuse block (J/B)]

10A fuse OK?

- OK >> GO TO 2
- NG >> Replace fuse.

### 2. CHECK SECURITY INDICATOR LAMP

1. Install 10A fuse.
2. Perform initialization with CONSULT-II.  
For initialization, refer to "CONSULT-II Operation Manual NATS".
3. Turn ignition switch OFF.
4. Start engine and turn ignition switch OFF.
5. Check the security indicator lamp lighting.

**: Security indicator lamp should be light up.**

OK or NG?

- OK >> Inspection END.
- NG >> GO TO 3

# THEFT WARNING SYSTEM

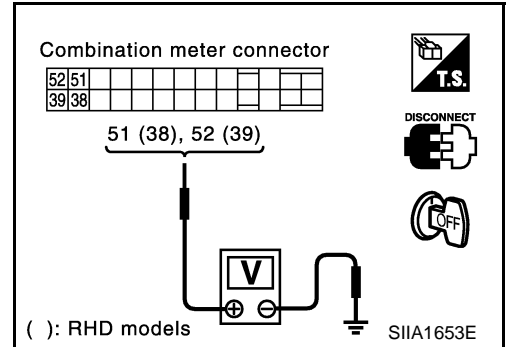
## 3. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M37 terminal 51: Y(38: Y), 52: R/B(39: R/B) and ground.  
( ): RHD models

: Battery voltage should exist.

OK or NG?

- OK >> GO TO 4  
NG >> Check harness for open or short between fuse and security indicator lamp.



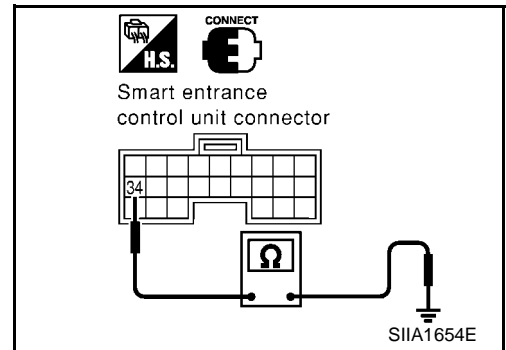
## 4. CHECK SMART ENTRANCE CONTROL UNIT FUNCTION

1. Disconnect combination meter connector.
2. Connect smart entrance control unit connector.
3. Check continuity between smart entrance control unit harness connector M42 terminal 34(L/Y) and ground.

: Continuity should exist intermittently.

OK or NG?

- OK >> Check harness for open or short between smart entrance control unit and combination meter.  
NG >> Smart entrance control unit is malfunctioning.
- Replace smart entrance control unit  
**Ref. part No. A**
  - Perform initialization with CONSULT-II
  - For initialization, refer to "CONSULT-II operation manual NATS"



## Smash Sensor Check

EIS002LW

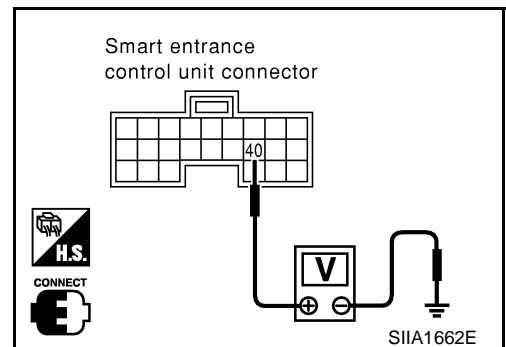
### 1. CHECK SMASH SENSOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between smart entrance control unit harness connector M42 terminal 40 (L/W) and ground.

: Continuity should exist.

OK or NG?

- OK >> Smash sensor is OK.  
NG >> GO TO 2.



# THEFT WARNING SYSTEM

## 2. CHECK SMASH SENSOR

1. Disconnect smash sensor LH and RH connector.
2. Check continuity between smash sensor terminal 1 and 2.

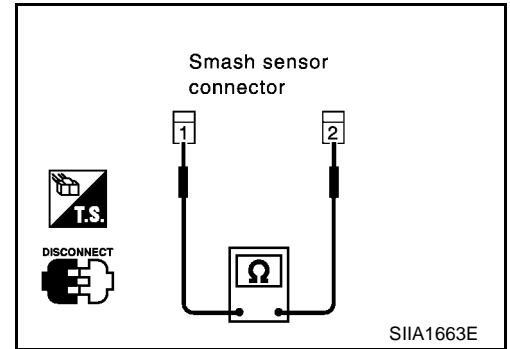
**: Continuity should exist.**

OK or NG?

OK >> Check the following.

- Harness for open or short between smart entrance control unit and smash sensor
- Harness for open or short between smash sensor LH and RH
- Rear window defogger system, refer to???

NG >> Replace smash sensor.



A  
B  
C  
D  
E  
F  
G  
H  
BL  
J  
K  
L  
M

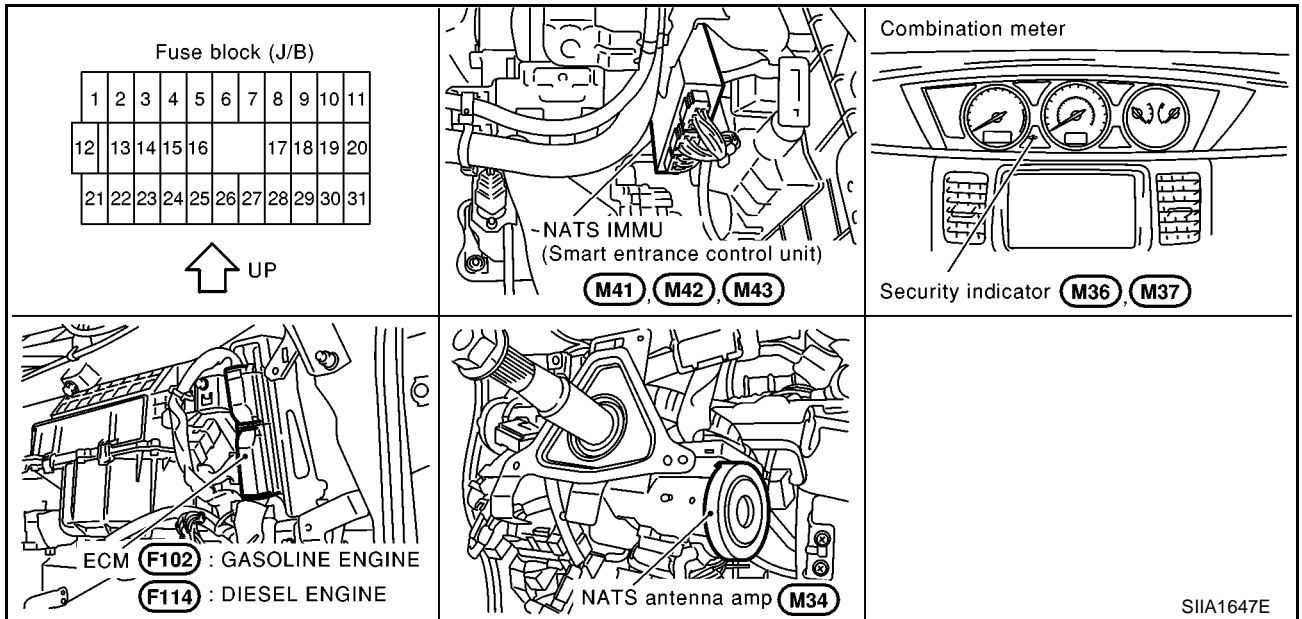
# NATS (NISSAN ANTI-THEFT SYSTEM)

PF25386

## NATS (NISSAN ANTI-THEFT SYSTEM)

### Component Parts and Harness Connector Location

EIS002LZ



## System Description

EIS002M0

NATS (Nissan Anti-Theft System) has the following immobilizer functions:

- Since only NATS ignition keys, whose ID nos. have been registered into the ECM and IMMU (Smart entrance control unit) of NATS, allow the engine to run, operation of a stolen vehicle without a NATS registered key is prevented by NATS. That is to say, NATS will immobilize the engine if someone tries to start it without the registered key of NATS.
- This version of NATS has dogle unit to improve its anti-theft performance (RHD models). Dogle unit has its own ID which is registered into NATS IMMU (Smart entrance control unit). So if dogle unit is replaced, initialization must be carried out.
- When dogle unit has a malfunction of dogle unit is detected:  
The security indicator lamp illuminates for about 15 minutes after ignition switch is turned to ON.  
When dogle unit has a malfunction and the indicator lamp is illuminated, engine can not be started. However engine can be started only one time when security indicator lamp turns off in about 15 minutes after ignition switch is turned to ON.
- All of the originally supplied ignition key IDs have been NATS registered.  
If requested by the vehicle owner, a maximum of five key IDs can be registered into the NATS components.
- The security indicator blinks when the ignition switch is in "OFF" or "ACC" position. Therefore, NATS warns outsiders that the vehicle is equipped with the anti-theft system.
- When NATS detects trouble, the security indicator lamp lights up as follows.

Condition IGN ON and	Security indicator	
	With dogle	With out dogle
NATS malfunction (except dogle unit) is detected	1. 6 time blinking 2. Staying ON after ignition switch is turned ON	Staying ON
Only malfunction of dogle unit is detected.	Stay ON for about 15 minutes after ignition switch is turned ON	—
Malfunction of NATS and engine related parts are detected	1. 6 time blinking 2. Staying ON after ignition switch is turned ON	Staying ON

## NATS (NISSAN ANTI-THEFT SYSTEM)

Condition IGN ON and	Security indicator	
	With dongle	With out dongle
Only engine related part malfunction is detected.	—	—
Just after initialization of NATS	6 time blinking	—

- NATS trouble diagnoses, system initialization and additional registration of other NATS ignition key IDs must be carried out using CONSULT-II hardware and CONSULT-II NATS software. Regarding the procedures of NATS initialization and NATS ignition key ID registration, refer to CONSULT-II operation manual, NATS.
- **When servicing a malfunction of the NATS (indicated by lighting up of Security Indicator Lamp) or registering another NATS ignition key ID no., it may be necessary to re-register original key identification. Therefore, be sure to receive ALL KEYS from vehicle owner.**

### CAN COMMUNICATION

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.

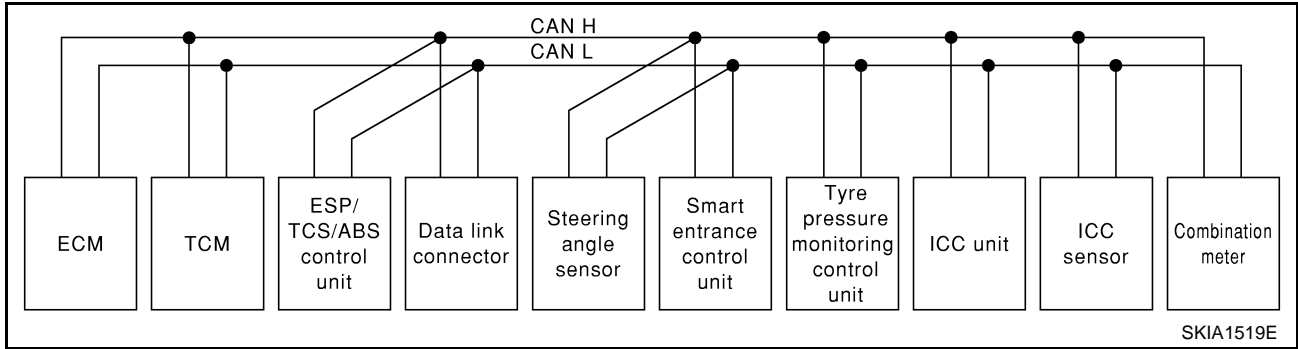
### CAN COMMUNICATION UNIT FOR LHD MODELS WITH TYRE PRESSURE MONITORING SYSTEM

Go to CAN system, when selecting your car model from the following table.

Body type	Sedan/Wagon									
Axle	2WD									
Engine	QR20DE		QG18DE	QR20DE	QG16DE	QG18DE	QR20DE	YD22DD Ti		
Transmission	CVT		A/T	6M/T	5M/T		6M/T			
Brake control	ESP		ABS		ESP	ABS				
ICC system	Applicable	Not applicable								
CAN communication unit										
ECM	×	×	×	×	×	×	×	×	×	
TCM	×	×	×	×						
ESP/TCS/ABS control unit	×	×			×					
ABS actuator and electric unit (control unit)			×	×		×	×	×	×	
Data link connector	×	×	×	×	×	×	×	×	×	
Steering angle sensor	×	×			×					
Smart entrance control unit	×	×	×	×	×	×	×	×	×	
Tyre pressure monitoring control unit	×	×	×	×	×	×	×	×	×	
ICC unit	×									
ICC sensor	×									
Combination meter	×	×	×	×	×	×	×	×	×	
CAN communication type	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6				

# NATS (NISSAN ANTI-THEFT SYSTEM)

## Type 1



### Input/output signal chart

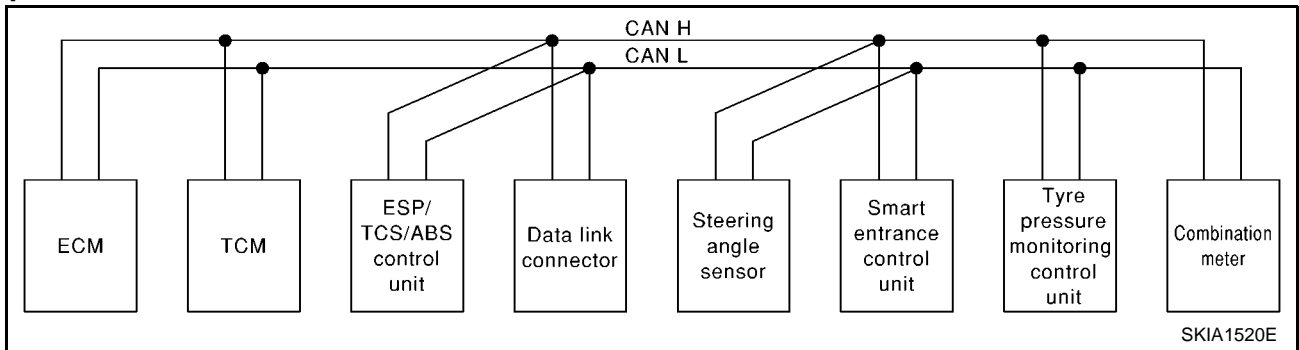
T: Transmit R: Receive

Signals	ECM	TCM	ESP/ TCS/ ABS control unit	Steer- ing angle sensor	Smart entranc e control unit	Tyre pres- sure monit- oring control unit	ICC unit	ICC sensor	Combi- nation meter
Engine speed signal	T	R	R				R		R
Accelerator pedal position signal	T	R	R				R		
Closed throttle position signal	T						R		
ICC steering switch signal	T						R		
Shift pattern signal		T					R		
Parking brake switch signal			T				R		
ICC system display signal							T		R
ICC sensor signal							R	T	
ESP operation signal	R		T				R		
TCS operation signal	R		T				R		
ABS operation signal	R	R	T				R		
Stop lamp switch signal		R	T						
Steering wheel angle sensor signal			R	T					
Wheel speed sensor signal			T				R		
Rear window defogger signal	R				T				
Heater fan switch signal	R								T
Air conditioner switch signal	R								T
Primary pulley revolution signal	R	T					R		
Secondary pulley revolution signal	R	T					R		
ICC operation signal	R						T		
Brake switch signal	R						T		
MI signal	T								R
Current gear position signal		T							R
Engine coolant temperature signal	T						R		R
Fuel consumption signal	T								R
Vehicle speed signal			T						R
	R								T
Seat belt reminder signal					R				T
Headlamp switch signal					T				R

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ESP/TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Tyre pressure monitoring control unit	ICC unit	ICC sensor	Combination meter
Flashing indicator signal					T				R
Engine cooling fan speed signal	T				R				
Child lock indicator signal					T				R
Door switches state signal					T				R
Key ID signal	R				T				
	T				R				
A/C compressor signal	T				R				
Tire pressure signal						T			R

## Type 2



## Input/output signal chart

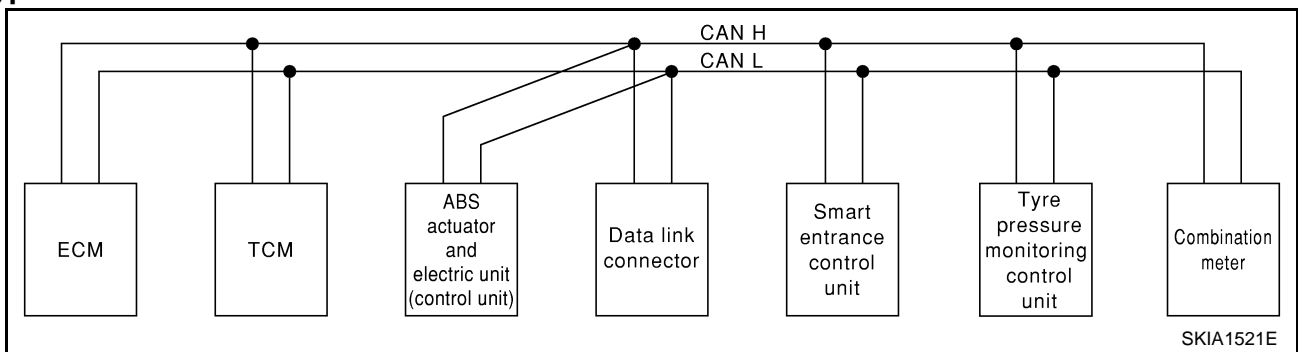
T: Transmit R: Receive

Signals	ECM	TCM	ESP/TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Engine speed signal	T	R	R				R
Accelerator pedal position signal	T	R	R				
ESP operation signal	R		T				
TCS operation signal	R		T				
ABS operation signal	R	R	T				
Stop lamp switch signal		R	T				
Steering wheel angle sensor signal			R	T			
Rear window defogger signal	R				T		
Heater fan switch signal	R						T
Air conditioner switch signal	R						T
Primary pulley revolution signal	R	T					
Secondary pulley revolution signal	R	T					
MI signal	T						R
Current gear position signal		T					R
Engine coolant temperature signal	T						R
Fuel consumption signal	T						R

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ESP/TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Vehicle speed signal			T				R
	R						T
Seat belt reminder signal					R		T
Headlamp switch signal					T		R
Flashing indicator signal					T		R
Engine cooling fan speed signal	T				R		
Child lock indicator signal					T		R
Door switches state signal					T		R
Key ID signal	R				T		
	T				R		
A/C compressor signal	T				R		
Tire pressure signal						T	R

## Type 3



## Input/output signal chart

T: Transmit R: Receive

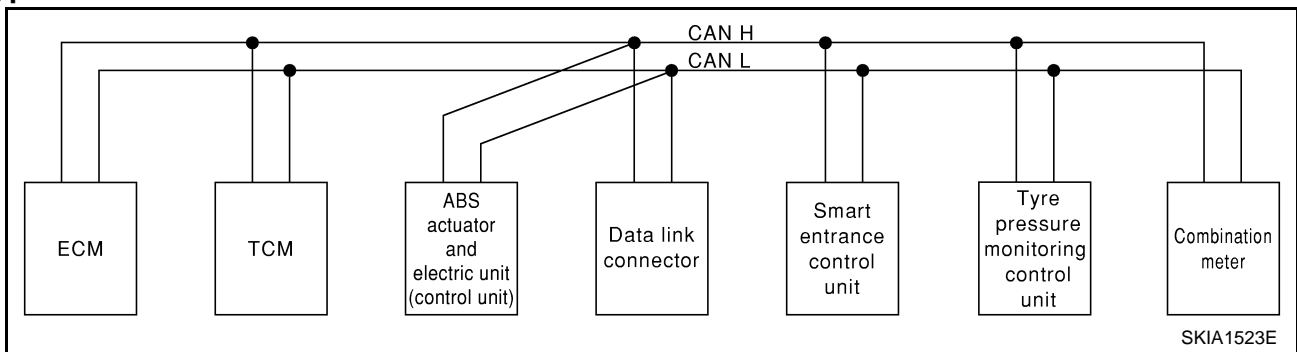
Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Engine speed signal	T	R				R
Stop lamp switch signal		R	T			
Rear window defogger signal	R			T		
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
Primary pulley revolution signal	R	T				
Secondary pulley revolution signal	R	T				
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal				R		T



# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Headlamp switch signal				T		R
Flashing indicator signal				T		R
Engine cooling fan speed signal	T			R		
Child lock indicator signal				T		R
Door switches state signal				T		R
Key ID signal	R			T		
	T			R		
A/C compressor signal	T			R		
Tyre pressure signal					T	R

## Type 4



## Input/output signal chart

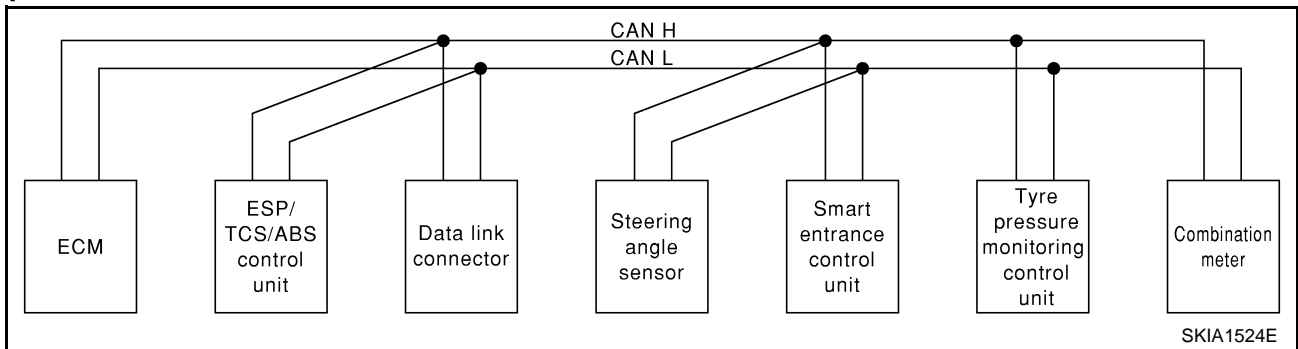
T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Engine speed signal	T	R				R
Stop lamp switch signal		R	T			
Rear window defogger signal	R			T		
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal				R		T
Headlamp switch signal				T		R
Flashing indicator signal				T		R
Engine cooling fan speed signal	T			R		
Child lock indicator signal				T		R
Door switches state signal				T		R

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Key ID signal	R			T		
	T			R		
A/C compressor signal	T			R		
Tyre pressure signal					T	R

## Type 5



## Input/output signal chart

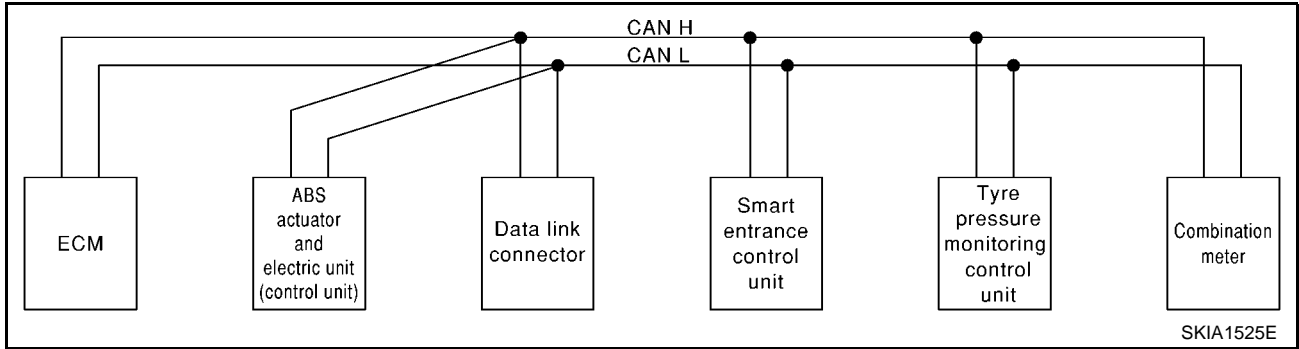
T: Transmit R: Receive

Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Tyre pressure monitoring control unit	Combination meter
Engine speed signal	T	R				R
Accelerator pedal position signal	T	R				
ESP operation signal	R	T				
TCS operation signal	R	T				
ABS operation signal	R	T				
Steering wheel angle sensor signal		R	T			
Rear window defogger signal	R			T		
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
MI signal	T					R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal		T				R
	R					T
Seat belt reminder signal				R		T
Headlamp switch signal				T		R
Flashing indicator signal				T		R
Engine cooling fan speed signal	T			R		
Child lock indicator signal				T		R
Door switches state signal				T		R
Key ID signal	R			T		
	T			R		

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sen- sor	Smart entrance control unit	Tyre pres- sure moni- toring control unit	Combina- tion meter
A/C compressor signal	T			R		
Tire pressure signal					T	R

## Type 6



## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Tyre pres- sure moni- toring control unit	Combination meter
Engine speed signal	T				R
Rear window defogger signal	R <sup>*1</sup>		T		
Heater fan switch signal	R <sup>*1</sup>				T
Air conditioner switch signal	R				T
MI signal	T				R
Glow lamp signal <sup>*2</sup>	T				R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal		T			R
	R				T
Seat belt reminder signal			R		T
Headlamp switch signal			T		R
Flashing indicator signal			T		R
Engine cooling fan speed signal	T		R		
Child lock indicator signal			T		R
Door switches state signal			T		R
Key ID signal	R		T		
	T		R		
A/C compressor signal	T		R		
Tire pressure signal				T	R

\*1: Except YD22DDTi engine model

\*2: YD22DDTi engine model only

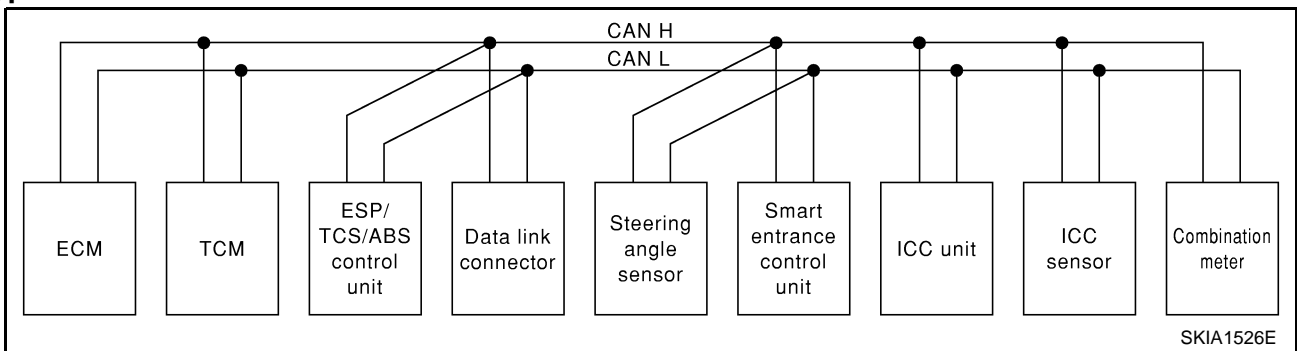
## CAN COMMUNICATION UNIT FOR LHD MODELS WITHOUT TYRE PRESSURE MONITORING SYSTEM

Go to CAN system, when selecting your car model from the following table.

# NATS (NISSAN ANTI-THEFT SYSTEM)

Body type	Sedan/Wagon									
Axle	2WD									
Engine	QR20DE			QG18DE	QR20DE	QG16DE	QG18DE	QR20DE	YD22DD Ti	
Transmission	CVT			A/T	6M/T	5M/T		6M/T		
Brake control	ESP		ABS		ESP	ABS				
ICC system	Applica- ble	Not applicable								
CAN communication unit										
ECM	×	×	×	×	×	×	×	×	×	×
TCM	×	×	×	×						
ESP/TCS/ABS control unit	×	×			×					
ABS actuator and electric unit (control unit)			×	×		×	×	×	×	×
Data link connector	×	×	×	×	×	×	×	×	×	×
Steering angle sensor	×	×			×					
Smart entrance control unit	×	×	×	×	×	×	×	×	×	×
ICC unit	×									
ICC sensor	×									
Combination meter	×	×	×	×	×	×	×	×	×	×
Can communication type	Type 7	Type 8	Type 9	Type 10	Type 11	Type 12				

## Type 7



## Input/output signal chart

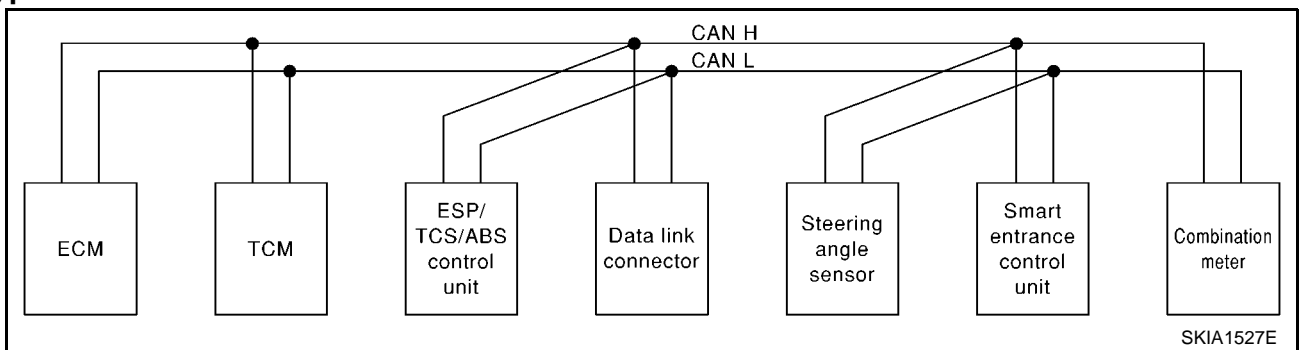
T: Transmit R: Receive

Signals	ECM	TCM	ESP/ TCS / ABS con- trol unit	Steering angle sensor	Smart entrance control unit	ICC unit	ICC sen- sor	Combina- tion meter
Engine speed signal	T	R	R			R		R
Accelerator pedal position signal	T	R	R			R		
Closed throttle position signal	T					R		
ICC steering switch signal	T					R		
Shift pattern signal		T				R		
Parking brake switch signal			T			R		
ICC system display signal						T		R
ICC sensor signal						R	T	
ESP operation signal	R		T			R		
TCS operation signal	R		T			R		

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ESP/ TCS / ABS con- trol unit	Steering angle sensor	Smart entrance control unit	ICC unit	ICC sen- sor	Combina- tion meter
ABS operation signal	R	R	T			R		
Stop lamp switch signal		R	T					
Steering wheel angle sensor signal			R	T				
Wheel speed sensor signal			T			R		
Rear window defogger signal	R				T			
Heater fan switch signal	R							T
Air conditioner switch signal	R							T
Primary pulley revolution signal	R	T				R		
Secondary pulley revolution signal	R	T				R		
ICC operation signal	R					T		
Brake switch signal	R					T		
MI signal	T							R
Current gear position signal		T						R
Engine coolant temperature signal	T					R		R
Fuel consumption signal	T							R
Vehicle speed signal			T					R
	R							T
Seat belt reminder signal					R			T
Headlamp switch signal					T			R
Flashing indicator signal					T			R
Engine cooling fan speed signal	T				R			
Child lock indicator signal					T			R
Door switches state signal					T			R
Key ID signal	R				T			
	T				R			
A/C compressor signal	T				R			

## Type 8



## Input/output signal chart

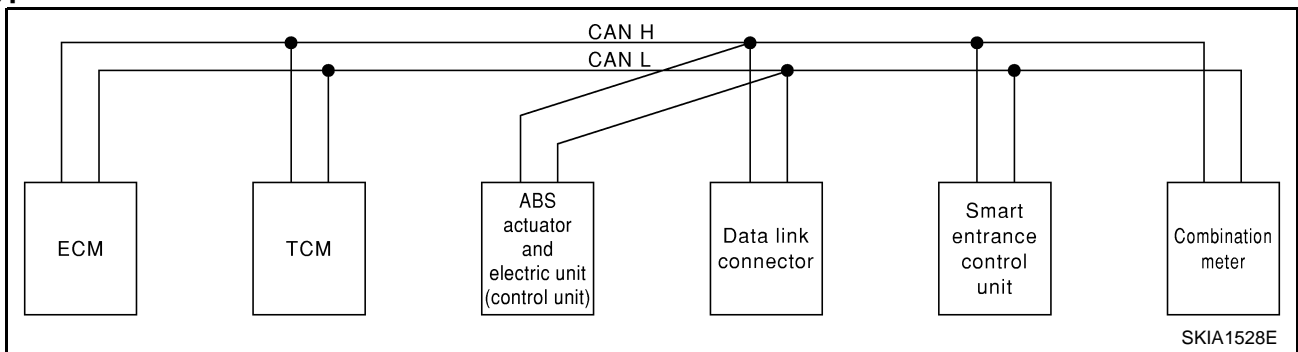
T: Transmit R: Receive

Signals	ECM	TCM	ESP/TCS/ ABS control unit	Steering angle sensor	Smart entrance control unit	Combina- tion meter
Engine speed signal	T	R	R			R
Accelerator pedal position signal	T	R	R			

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combina- tion meter
ESP operation signal	R		T			
TCS operation signal	R		T			
ABS operation signal	R	R	T			
Stop lamp switch signal		R	T			
Steering wheel angle sensor signal			R	T		
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
Primary pulley revolution signal	R	T				
Secondary pulley revolution signal	R	T				
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal					R	T
Headlamp switch signal					T	R
Flashing indicator signal					T	R
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
Key ID signal	R				T	
	T				R	
A/C compressor signal	T				R	

## Type 9



## Input/output signal chart

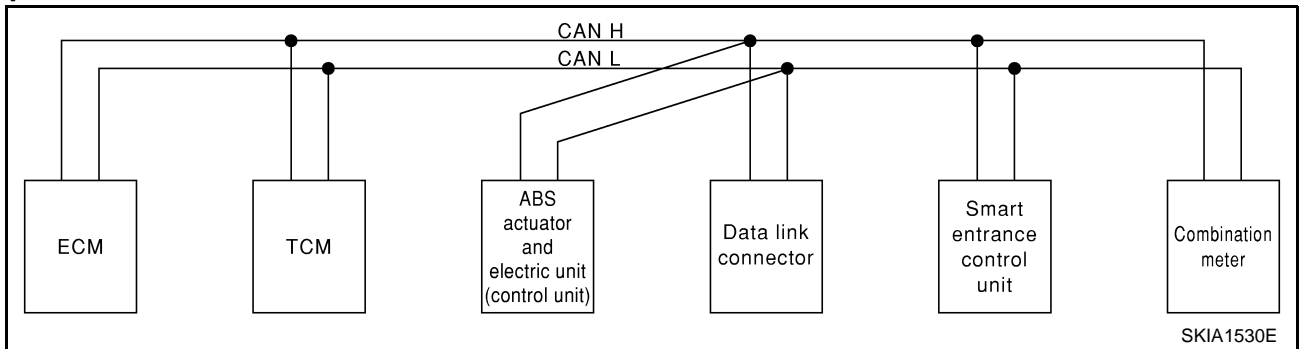
T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance con- trol unit	Combination meter
Engine speed signal	T	R			R
Stop lamp switch signal		R	T		
Rear window defogger signal	R			T	

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
Primary pulley revolution signal	R	T			
Secondary pulley revolution signal	R	T			
MI signal	T				R
Current gear position signal		T			R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal			T		R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	

## Type 10



## Input/output signal chart

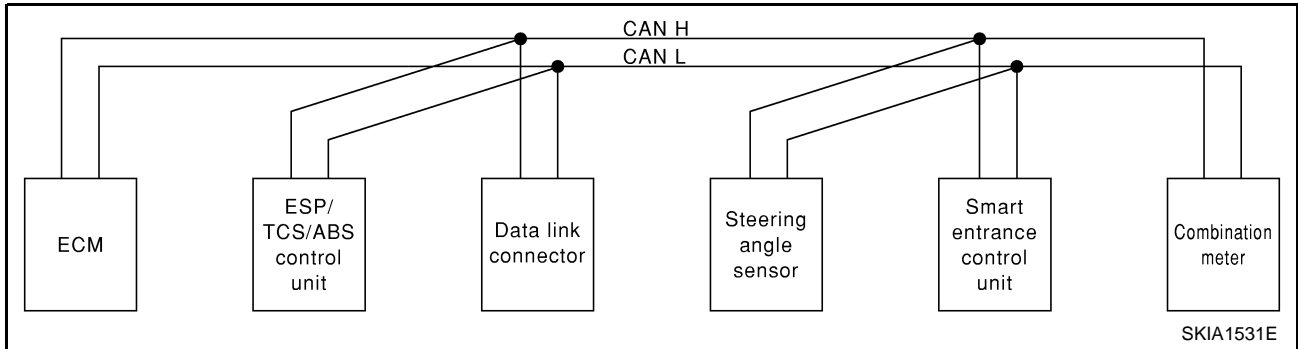
T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Engine speed signal	T	R			R
Stop lamp switch signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
MI signal	T				R
Current gear position signal		T			R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R

## NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Vehicle speed signal			T		R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	

### Type 11



### Input/output signal chart

T: Transmit R: Receive

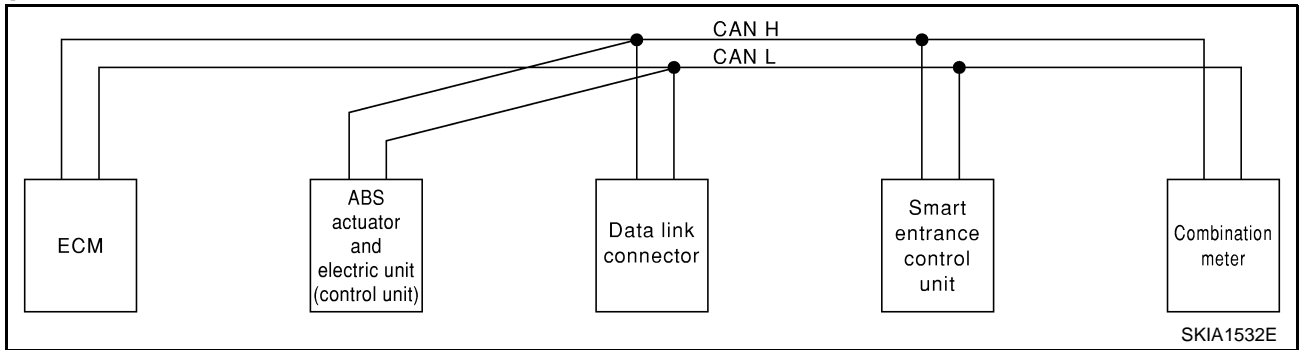
Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Engine speed signal	T	R			R
Accelerator pedal position signal	T	R			
ESP operation signal	R	T			
TCS operation signal	R	T			
ABS operation signal	R	T			
Steering wheel angle sensor signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
MI signal	T				R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal		T			R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	



# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Child lock indicator signal				T	R
Door switches state signal				T	R
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	

## Type 12



## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ABS actuator and electric unit (con- trol unit)	Smart entrance control unit	Combination meter
Engine speed signal	T			R
Rear window defogger signal	R <sup>*1</sup>		T	
Heater fan switch signal	R <sup>*1</sup>			T
Air conditioner switch signal	R			T
MI signal	T			R
Glow lamp signal <sup>*2</sup>	T			R
Engine coolant temperature signal	T			R
Fuel consumption signal	T			R
Vehicle speed signal		T		R
	R			T
Seat belt reminder signal			R	T
Headlamp switch signal			T	R
Flashing indicator signal			T	R
Engine cooling fan speed signal	T		R	
Child lock indicator signal			T	R
Door switches state signal			T	R
Key ID signal	R		T	
	T		R	
A/C compressor signal	T		R	

\*1: Except YD22DDTi engine model

\*2: YD22DDTi engine model only

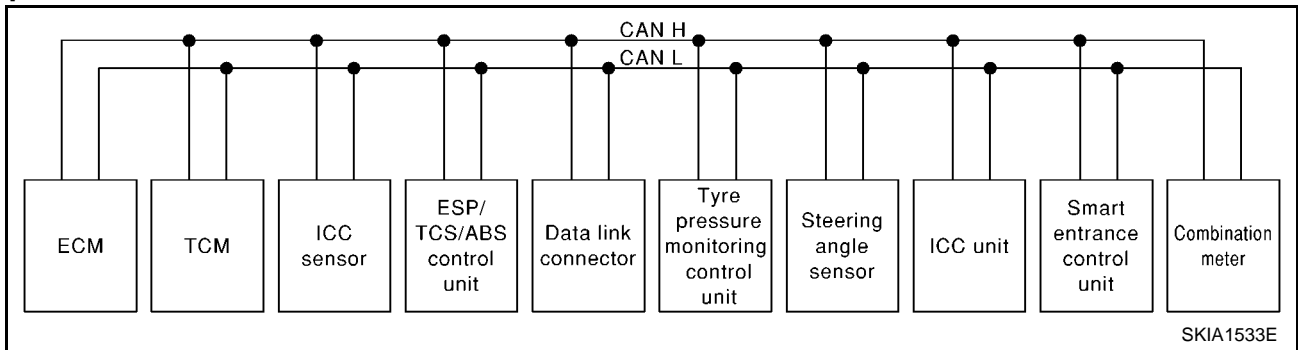
## CAN COMMUNICATION UNIT FOR RHD MODELS WITH TYRE PRESSURE MONITORING SYSTEM

Go to CAN system, when selecting your car model from the following table.

# NATS (NISSAN ANTI-THEFT SYSTEM)

Body type	Sedan/Wagon									
Axle	2WD									
Engine	QR20DE			QG18DE	QR20DE	QG16DE	QG18DE	QR20DE	YD22DD Ti	
Transmission	CVT			A/T	6M/T	5M/T		6M/T		
Brake control	ESP		ABS		ESP	ABS				
ICC system	Applica- ble	Not applicable								
CAN communication unit										
ECM	×	×	×	×	×	×	×	×	×	×
TCM	×	×	×	×						
ICC sensor	×									
ESP/TCS/ABS control unit	×	×			×					
ABS actuator and electric unit (control unit)			×	×		×	×	×	×	×
Data link connector	×	×	×	×	×	×	×	×	×	×
Tyre pressure monitoring control unit	×	×	×	×	×	×	×	×	×	×
Steering angle sensor	×	×			×					
ICC unit	×									
Smart entrance control unit	×	×	×	×	×	×	×	×	×	×
Combination meter	×	×	×	×	×	×	×	×	×	×
CAN communication type	Type 13	Type 14	Type 15	Type 16	Type 17	Type 18				

## Type 13



### Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ICC sensor	ESP/ TCS/ ABS control unit	Tyre pressure monitoring control unit	Steering angle sensor	ICC unit	Smart entrance control unit	Combination meter
Engine speed signal	T	R		R			R		R
Accelerator pedal position signal	T	R		R			R		
Closed throttle position signal	T						R		
ICC steering switch signal	T						R		
Shift pattern signal		T					R		
Parking brake switch signal				T			R		
ICC system display signal							T		

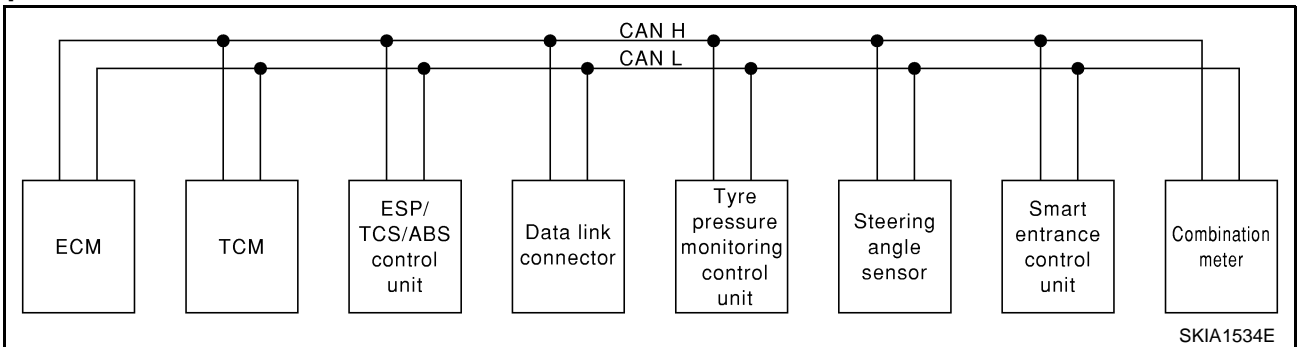
# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ICC sensor	ESP/TCS / ABS control unit	Tyre pressure monitoring control unit	Steering angle sensor	ICC unit	Smart entrance control unit	Combination meter
ICC sensor signal			T				R		
ESP operation signal	R			T			R		
TCS operation signal	R			T			R		
ABS operation signal	R	R		T			R		
Stop lamp switch signal		R		T					
Steering wheel angle sensor signal				R		T			
Wheel speed sensor signal				T			R		
Rear window defogger signal	R							T	
Heater fan switch signal	R								T
Air conditioner switch signal	R								T
Primary pulley revolution signal	R	T					R		
Secondary pulley revolution signal	R	T					R		
ICC operation signal	R						T		
Brake switch signal	R						T		
MI signal	T								R
Current gear position signal		T							R
Engine coolant temperature signal	T						R		R
Fuel consumption signal	T								R
Vehicle speed signal				T					R
	R								T
Seat belt reminder signal							R		T
Headlamp switch signal							T		R
Flashing indicator signal							T		R
Engine cooling fan speed signal	T						R		
Child lock indicator signal							T		R
Door switches state signal							T		R
Key ID signal	R						T		
	T						R		
A/C compressor signal	T						R		
Tire pressure signal					T				R

A  
B  
C  
D  
E  
F  
G  
H  
J  
K  
L  
M

BL

## Type 14



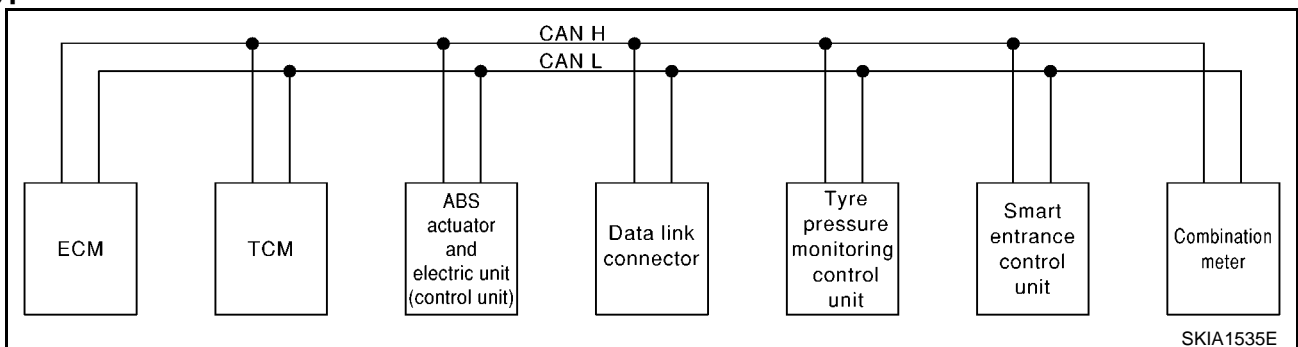
# NATS (NISSAN ANTI-THEFT SYSTEM)

## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ESP/ TCS / ABS control unit	Tyre pressure monitor- ing control unit	Steering angle sensor	Smart entrance control unit	Combi- nation meter
Engine speed signal	T	R	R				R
Accelerator pedal position signal	T	R	R				
ESP operation signal	R		T				
TCS operation signal	R		T				
ABS operation signal	R	R	T				
Stop lamp switch signal		R	T				
Steering wheel angle sensor signal			R		T		
Rear window defogger signal	R					T	
Heater fan switch signal	R						T
Air conditioner switch signal	R						T
Primary pulley revolution signal	R	T					
Secondary pulley revolution signal	R	T					
MI signal	T						R
Current gear position signal		T					R
Engine coolant temperature	T						R
Fuel consumption signal	T						R
Vehicle speed signal			T				R
	R						T
Seat belt reminder signal						R	T
Headlamp switch signal						T	R
Flashing indicator signal						T	R
Engine cooling fan speed signal	T					R	
Child lock indicator signal						T	R
Door switches state signal						T	R
Key ID signal	R					T	
	T					R	
A/C compressor signal	T					R	
Tire pressure signal				T			R

### Type 15



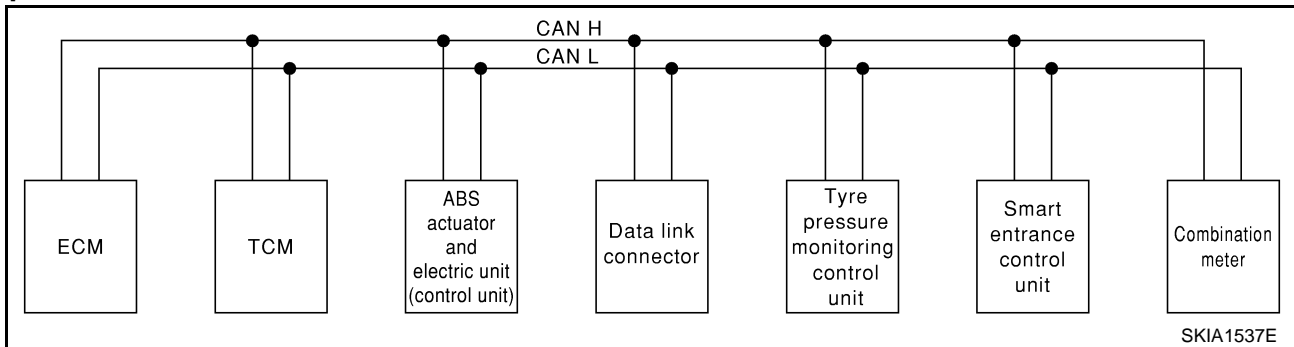
# NATS (NISSAN ANTI-THEFT SYSTEM)

## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Tyre pressure monitoring control unit	Smart entrance control unit	Combination meter
Engine speed signal	T	R				R
Stop lamp switch signal		R	T			
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
Primary pulley revolution signal	R	T				
Secondary pulley revolution signal	R	T				
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal					R	T
Headlamp switch signal					T	R
Flashing indicator signal					T	R
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
Key ID signal	R				T	
	T				R	
A/C compressor signal	T				R	
Tire pressure signal				T		R

## Type 16



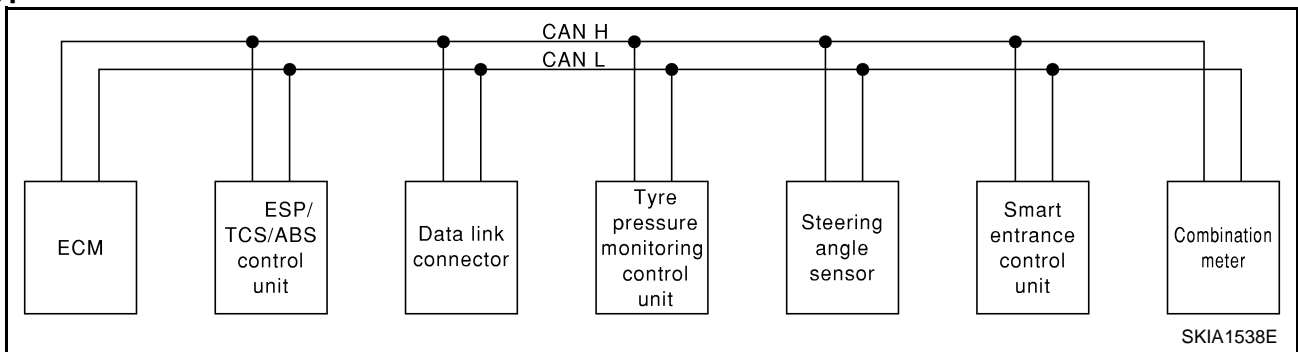
# NATS (NISSAN ANTI-THEFT SYSTEM)

## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Tyre pressure monitoring control unit	Smart entrance control unit	Combination meter
Engine speed signal	T	R				R
Stop lamp switch signal		R	T			
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal					R	T
Headlamp switch signal					T	R
Flashing indicator signal					T	R
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
Key ID signal	R				T	
	T				R	
A/C compressor signal	T				R	
Tire pressure signal				T		R

## Type 17



## Input/output signal chart

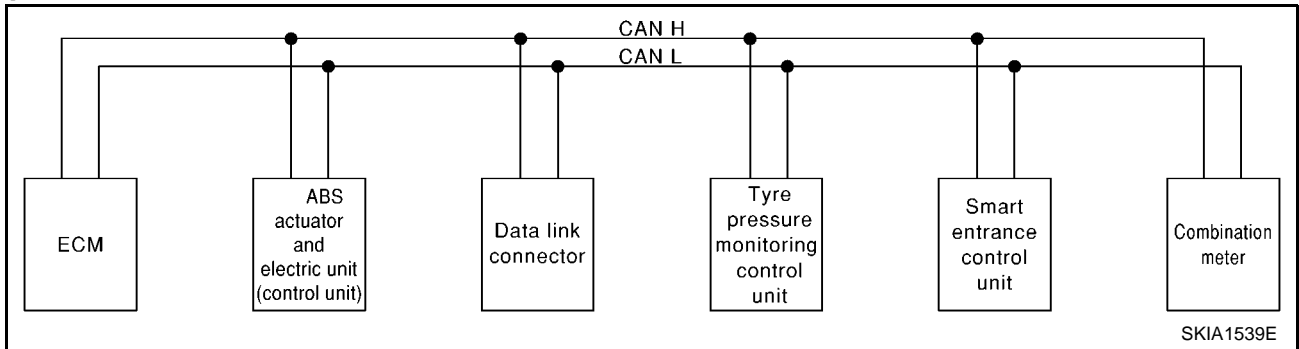
T: Transmit R: Receive

Signals	ECM	ESP/TCS / ABS control unit	Tyre pressure monitoring control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Engine speed signal	T	R				R
Accelerator pedal position signal	T	R				
ESP operation signal	R	T				
TCS operation signal	R	T				

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	ESP/ TCS / ABS control unit	Tyre pressure monitoring control unit	Steering angle sensor	Smart entrance control unit	Combination meter
ABS operation signal	R	T				
Steering wheel angle sensor signal		R		T		
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
MI signal	T					R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal		T				R
	R					T
Seat belt reminder signal					R	T
Headlamp switch signal					T	R
Flashing indicator signal					T	R
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
Key ID signal	R				T	
	T				R	
A/C compressor signal	T				R	
Tire pressure signal			T			R

## Type 18



## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ABS actuator and electric unit (control unit)	Tyre pressure monitoring control unit	Smart entrance control unit	Combination meter
Engine speed signal	T				R
Rear window defogger signal	R <sup>*1</sup>			T	
Heater fan switch signal	R <sup>*1</sup>				T
Air conditioner switch signal	R				T
MI signal	T				R
Glow lamp signal <sup>*2</sup>	T				R
Engine coolant temperature signal	T				R

## NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	ABS actuator and electric unit (control unit)	Tyre pressure monitoring control unit	Smart entrance control unit	Combination meter
Fuel consumption signal	T				R
Vehicle speed signal		T			R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	
Tire pressure signal			T		R

\*1: Except YD22DDTi engine model

\*2: YD22DDTi engine model only

### CAN COMMUNICATION UNIT FOR RHD MODELS WITHOUT TYRE PRESSURE MONITORING SYSTEM

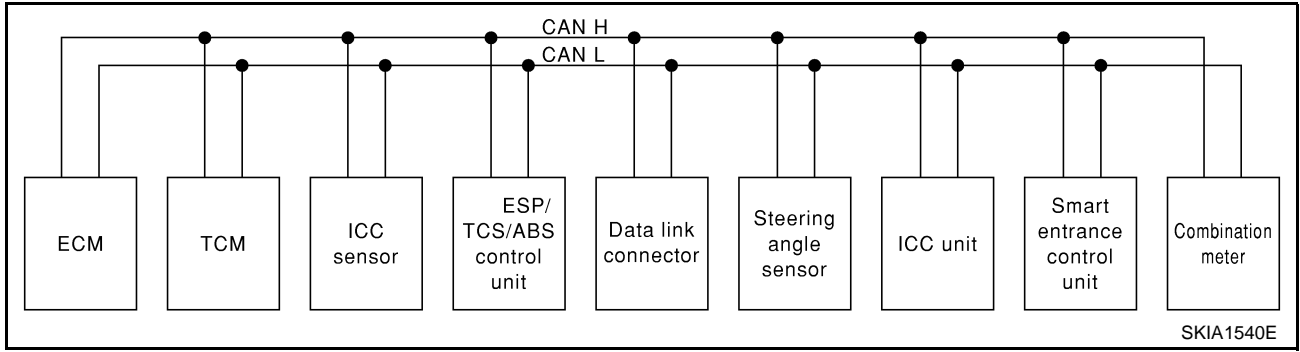
Go to CAN system, when selecting your car model from the following table.

Body type	Sedan/Wagon								
Axle	2WD								
Engine	QR20DE			QG18DE	QR20DE	QG16DE	QG18DE	QR20DE	YD22DDTi
Transmission	CVT			A/T	6M/T	5M/T		6M/T	
Brake control	ESP		ABS		ESP	ABS			
ICC system	Applicable	Not applicable							
CAN communication unit									
ECM	×	×	×	×	×	×	×	×	×
TCM	×	×	×	×					
ICC sensor	×								
ESP/TCS/ABS control unit	×	×			×				
ABS actuator and electric unit (control unit)			×	×		×	×	×	×
Data link connector	×	×	×	×	×	×	×	×	×
Steering angle sensor	×	×			×				
ICC unit	×								
Smart entrance control unit	×	×	×	×	×	×	×	×	×
Combination meter	×	×	×	×	×	×	×	×	×
Can communication type	Type 19	Type 20	Type 21	Type 22	type 23	Type 24			



# NATS (NISSAN ANTI-THEFT SYSTEM)

## Type 19



### Input/output signal chart

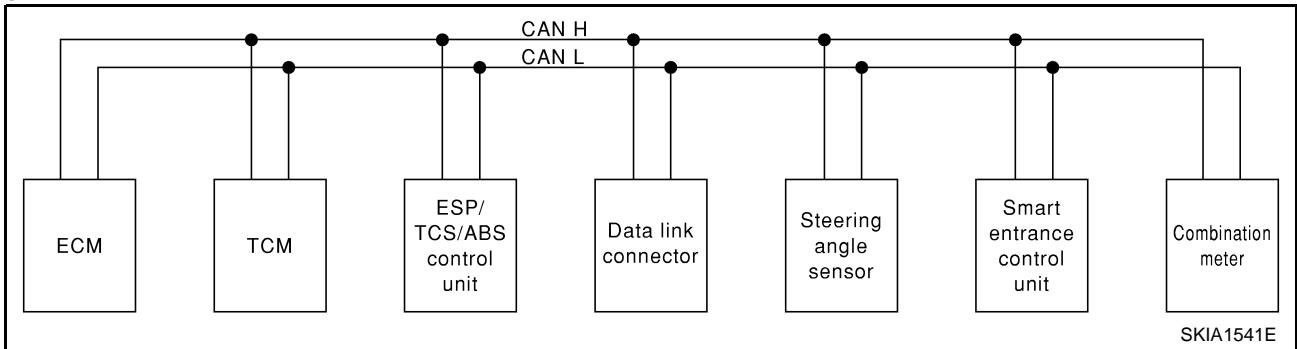
T: Transmit R: Receive

Signals	ECM	TCM	ICC sensor	ESP/TCS / ABS control unit	Steering angle sensor	ICC unit	Smart entrance control unit	Combination meter
Engine speed signal	T	R		R		R		R
Accelerator pedal position signal	T	R		R		R		
Closed throttle position signal	T					R		
ICC steering switch signal	T					R		
Shift pattern signal		T				R		
Parking brake switch signal				T		R		
ICC system display signal						T		R
ICC sensor signal			T			R		
ESP operation signal	R			T		R		
TCS operation signal	R			T		R		
ABS operation signal	R	R		T		R		
Stop lamp switch signal		R		T				
Steering wheel angle sensor signal				R	T			
Wheel speed sensor signal				T		R		
Rear window defogger signal	R						T	
Heater fan switch signal	R							T
Air conditioner switch signal	R							T
Primary pulley revolution signal	R	T				R		
Secondary pulley revolution signal	R	T				R		
ICC operation signal	R					T		
Brake switch signal	R					T		
MI signal	T							R
Current gear position signal		T						R
Engine coolant temperature signal	T					R		R
Fuel consumption signal	T							R
Vehicle speed signal				T				R
	R							T
Seat belt reminder signal							R	T
Headlamp switch signal							T	R
Flashing indicator signal							T	R

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ICC sensor	ESP/TCS/ABS control unit	Steering angle sensor	ICC unit	Smart entrance control unit	Combination meter
Engine cooling fan speed signal	T						R	
Child lock indicator signal							T	R
Door switches state signal							T	R
Key ID signal	R						T	
	T						R	
A/C compressor signal	T						R	

## Type 20



## Input/output signal chart

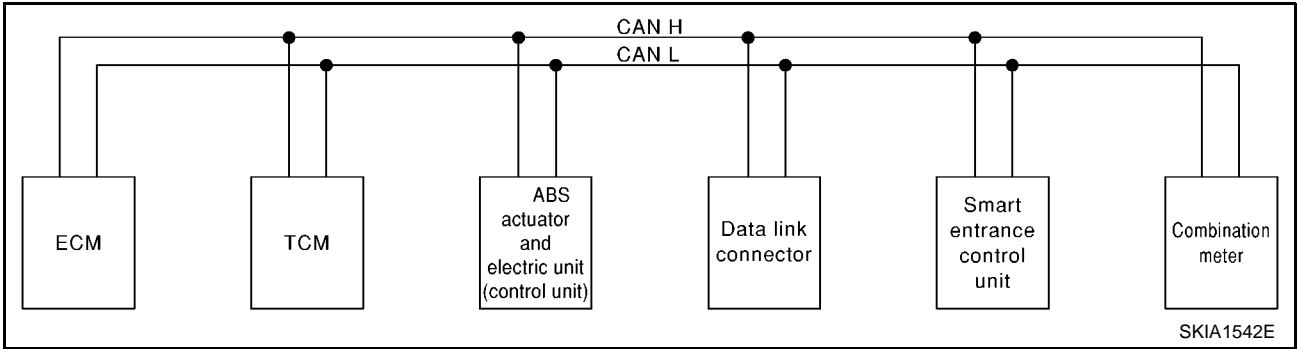
T: Transmit R: Receive

Signals	ECM	TCM	ESP/TCS/ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Engine speed signal	T	R	R			R
Accelerator pedal position signal	T	R	R			
ESP operation signal	R		T			
TCS operation signal	R		T			
ABS operation signal	R	R	T			
Stop lamp switch signal		R	T			
Steering wheel angle sensor signal			R	T		
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
Primary pulley revolution signal	R	T				
Secondary pulley revolution signal	R	T				
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal					R	T
Headlamp switch signal					T	R
Flashing indicator signal					T	R

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ESP/TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
Key ID signal	R				T	
	T				R	
A/C compressor signal	T				R	

## Type 21



## Input/output signal chart

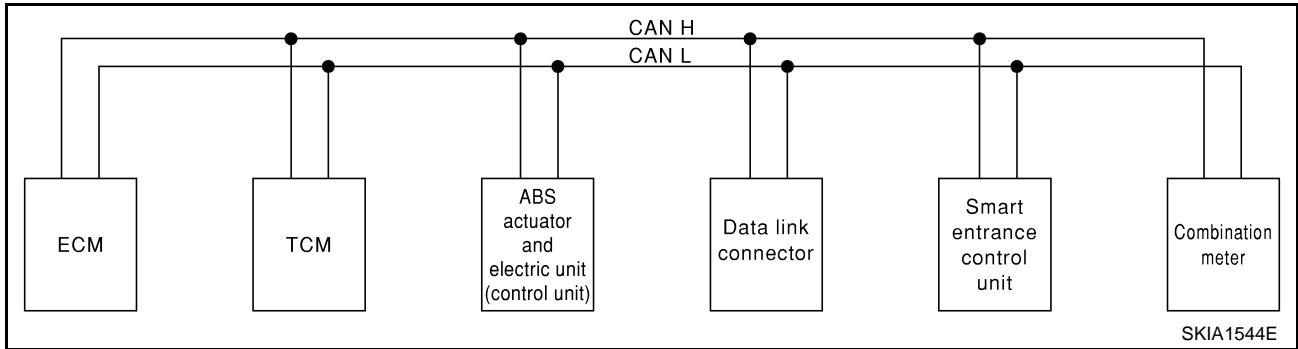
T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Engine speed signal	T	R			R
Stop lamp switch signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
Primary pulley revolution signal	R	T			
Secondary pulley revolution signal	R	T			
MI signal	T				R
Current gear position signal		T			R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal			T		R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R

# NATS (NISSAN ANTI-THEFT SYSTEM)

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	

## Type 22



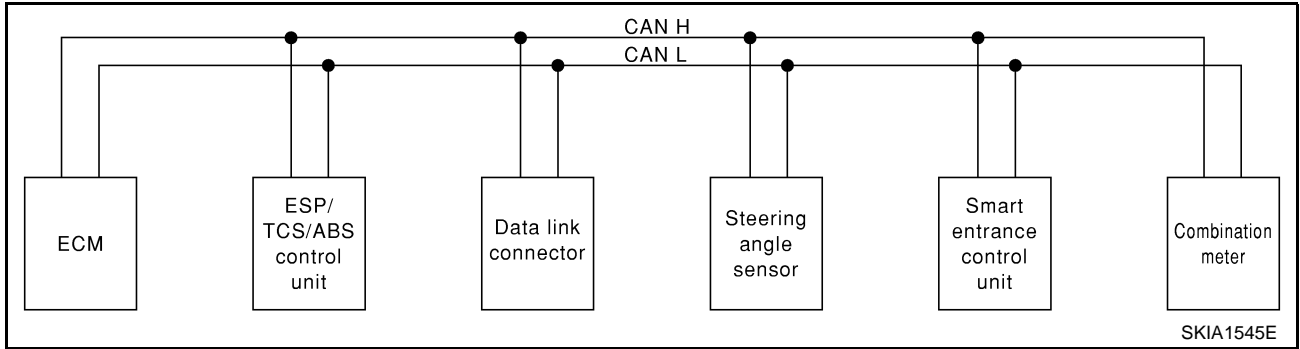
## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Engine speed signal	T	R			R
Stop lamp switch signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
MI signal	T				R
Current gear position signal		T			R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal			T		R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	

# NATS (NISSAN ANTI-THEFT SYSTEM)

## Type 23



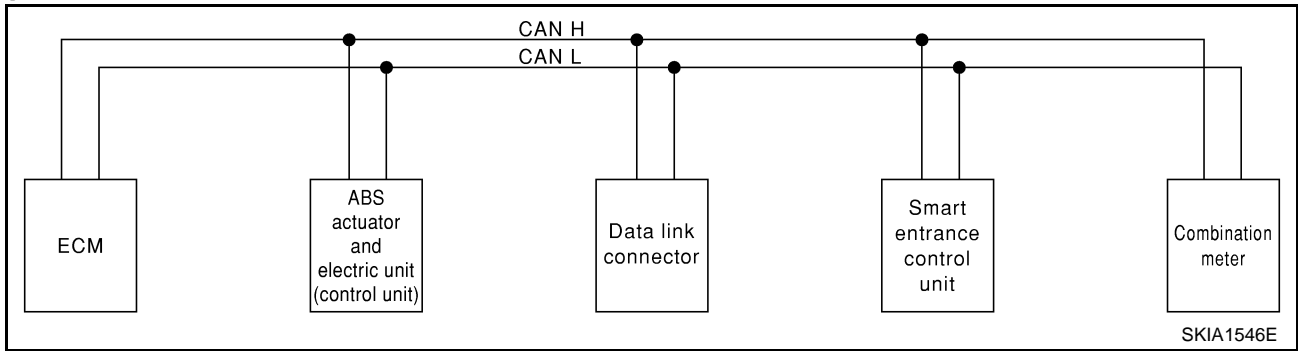
### Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combina- tion meter
Engine speed signal	T	R			R
Accelerator pedal position signal	T	R			
ESP operation signal	R	T			
TCS operation signal	R	T			
ABS operation signal	R	T			
Steering wheel angle sensor signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
MI signal	T				R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal		T			R
	R				T
Seat belt reminder signal				R	T
Headlamp switch signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
Key ID signal	R			T	
	T			R	
A/C compressor signal	T			R	

# NATS (NISSAN ANTI-THEFT SYSTEM)

## Type 24



### Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Engine speed signal	T			R
Rear window defogger signal	R <sup>*1</sup>		T	
Heater fan switch signal	R <sup>*1</sup>			T
Air conditioner switch signal	R			T
MI signal	T			R
Glow lamp signal <sup>*2</sup>	T			R
Engine coolant temperature signal	T			R
Fuel consumption signal	T			R
Vehicle speed signal		T		R
	R			T
Seat belt reminder signal			R	T
Headlamp switch signal			T	R
Flashing indicator signal			T	R
Engine cooling fan speed signal	T		R	
Child lock indicator signal			T	R
Door switches state signal			T	R
Key ID signal	R		T	
	T		R	
A/C compressor signal	T		R	

\*1: Except YD22DDTi engine model

\*2: YD22DDTi engine model only

### System Composition

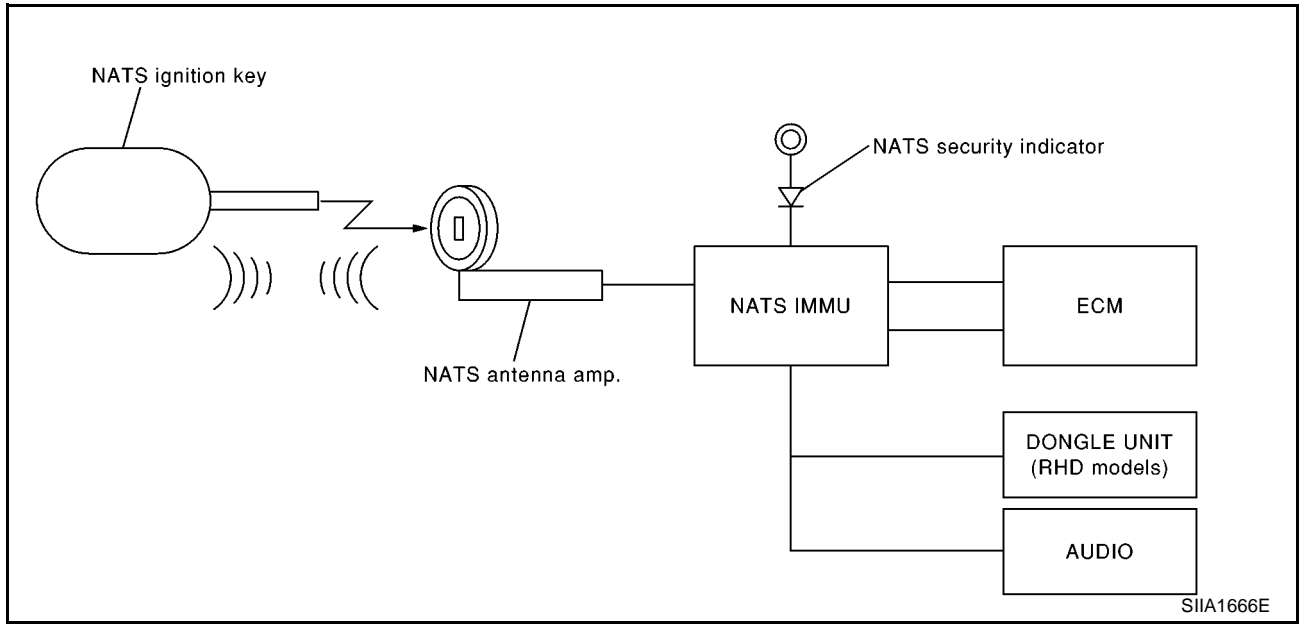
EIS002M1

The immobilizer function of the NATS consists of the following:

- NATS ignition key
- NATS antenna amp located in the ignition key cylinder
- NATS IMMU (Smart entrance control unit)
- Engine control module (ECM)
- Dongle unit (RHD models)

# NATS (NISSAN ANTI-THEFT SYSTEM)

- Security indicator located in the combination meter



A  
B  
C  
D  
E  
F  
G  
H  
J  
K  
L  
M

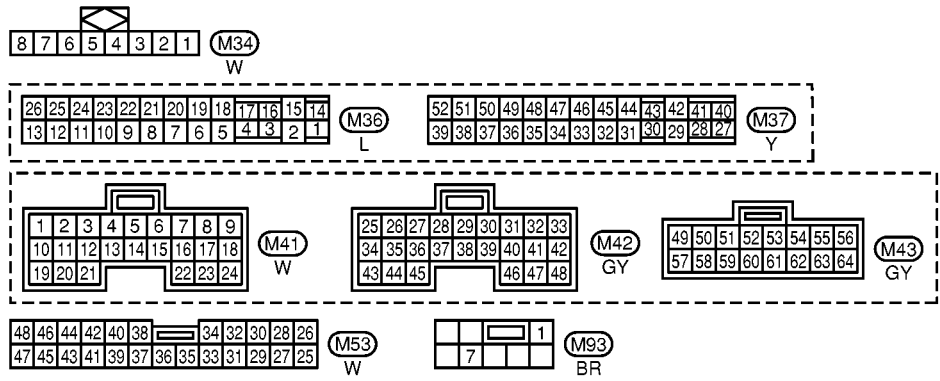
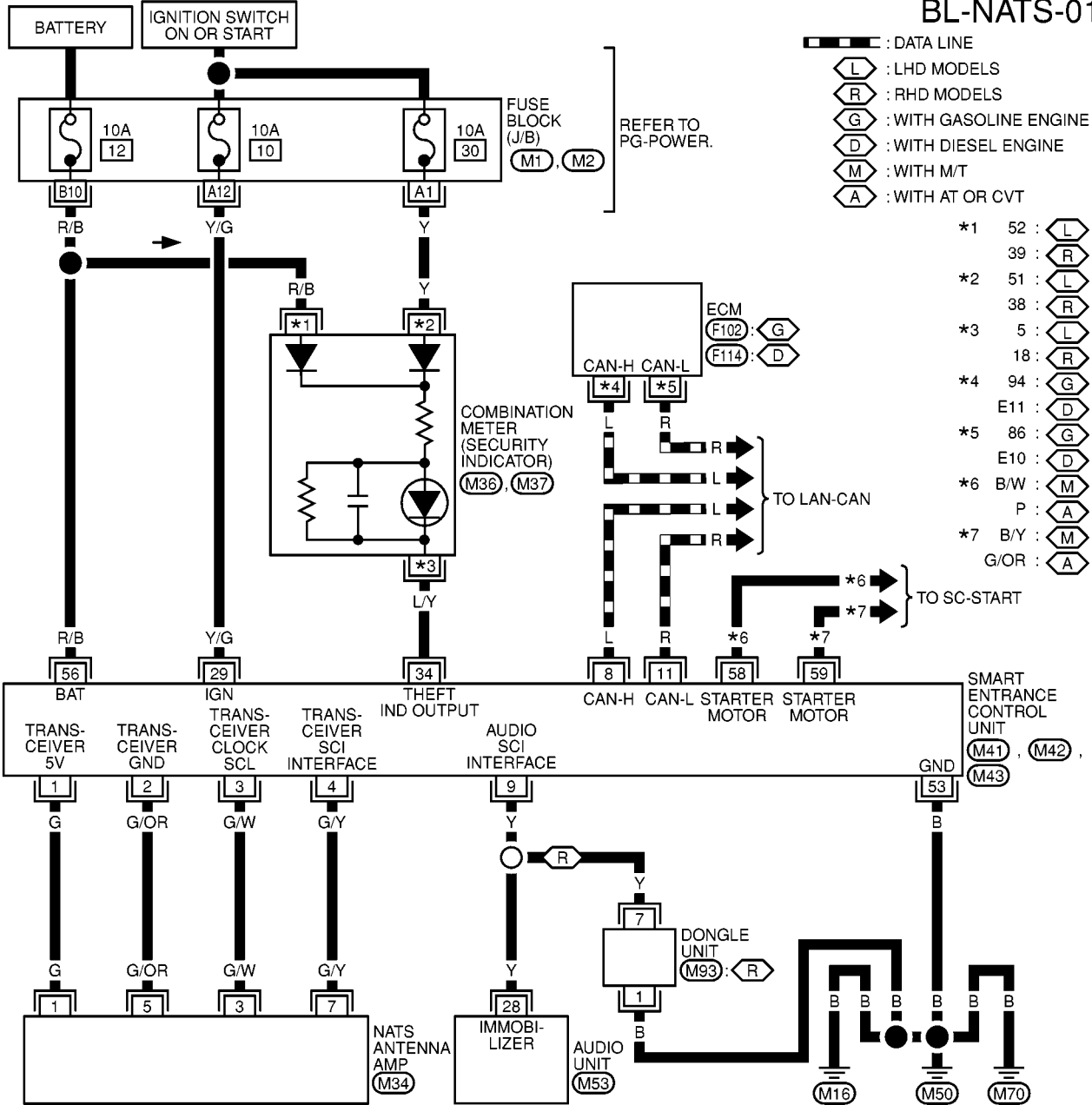
BL

# NATS (NISSAN ANTI-THEFT SYSTEM)

EIS002M2

## Wiring Diagram — NATS —

### BL-NATS-01



REFER TO THE FOLLOWING.

- (M1), (M2) - FUSE BLOCK-JUNCTION BOX (J/B)
- (F102), (F114) - ELECTRICAL UNITS



# NATS (NISSAN ANTI-THEFT SYSTEM)

EIS002M4

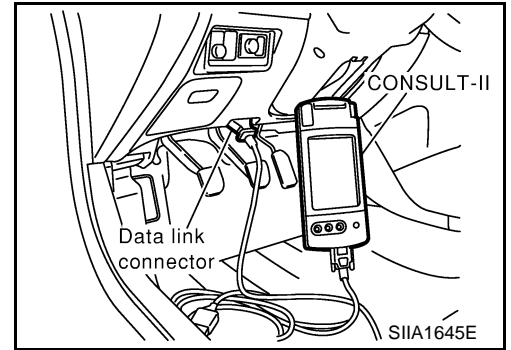
## CONSULT-II

### CONSULT-II INSPECTION PROCEDURE

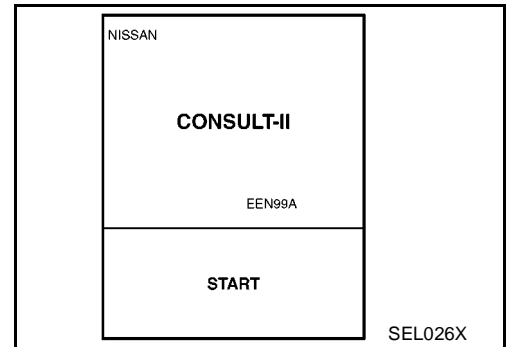
1. Turn ignition switch OFF.
2. Insert NATS program card into CONSULT-II.

**Program card : NATS (AEN00B)**

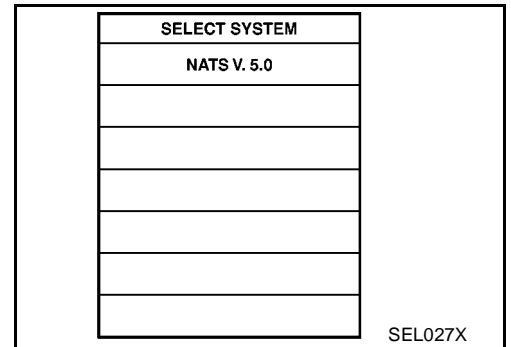
3. Connect CONSULT-II to data link connector.



4. Turn ignition switch ON.
5. Touch "START".

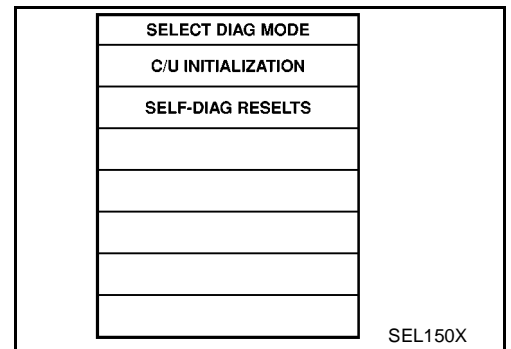


6. Select "NATS V.5.0".



7. Perform each diagnostic test mode according to each service procedure.

**For further information, see the CONSULT-II Operation Manual, NATS.**



### CONSULT-II DIAGNOSTIC TEST MODE FUNCTION

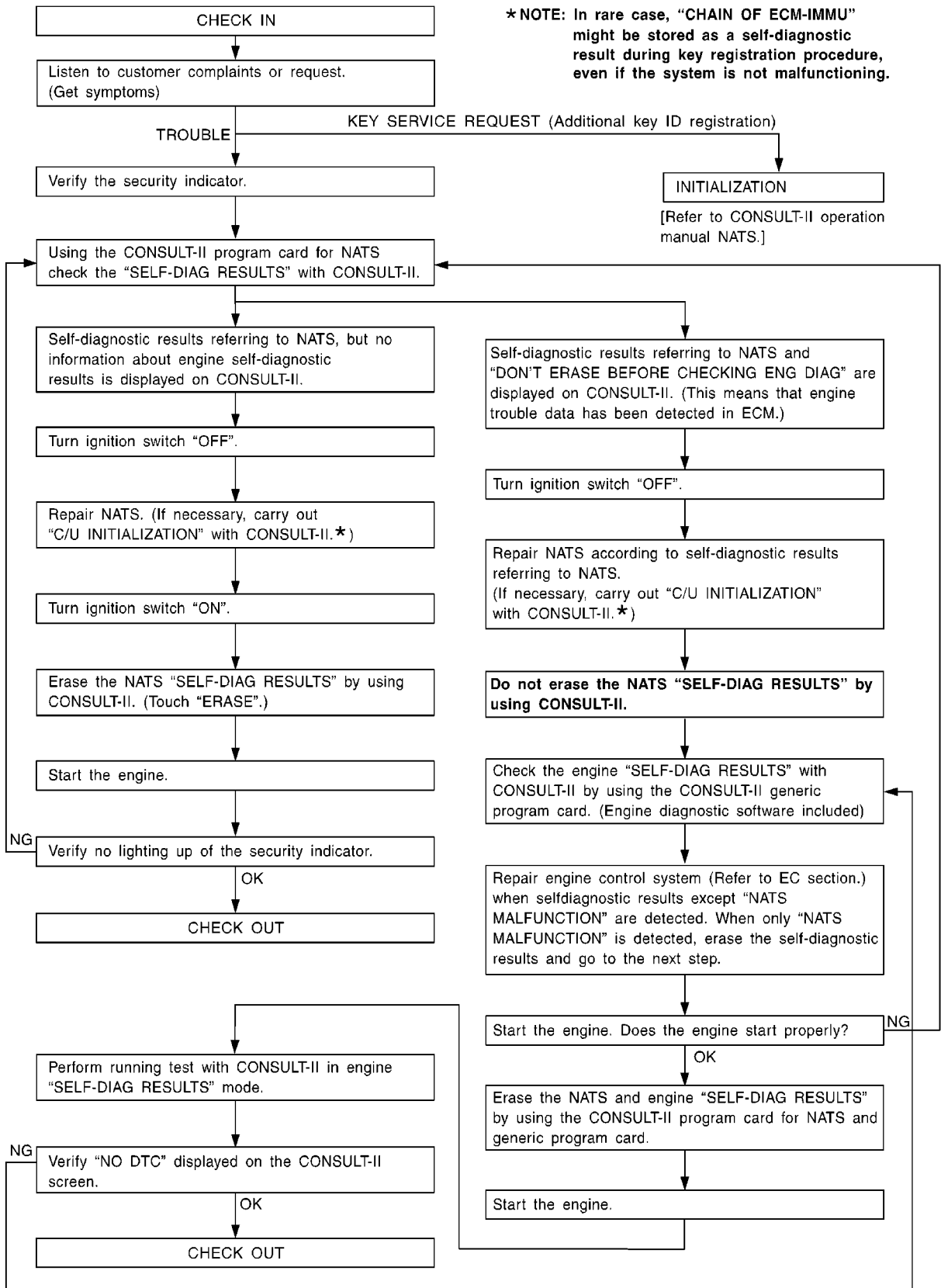
CONSULT-II DIAGNOSTIC TEST MODE	Description
C/U INITIALIZATION	When replacing any of the following components, C/U initialization and re-registration of all NATS ignition keys are necessary. [NATS ignition key/ IMMU(Smart entrance control unit)/ ECM]
SELF-DIAG RESULTS	Detected items (screen terms) are as shown in the chart. <a href="#">BL-186. "NATS SELF-DIAGNOSTIC RESULTS ITEM CHART"</a>



# NATS (NISSAN ANTI-THEFT SYSTEM)

## Work Flow

EIS002M5



SEL729WE

# NATS (NISSAN ANTI-THEFT SYSTEM)

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## Trouble Diagnoses

EIS002M6

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-33, "CONSULT-II INSPECTION PROCEDURE"](#)

# NATS (NISSAN ANTI-THEFT SYSTEM)

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## SYMPTOM MATRIX CHART 1

A

B

C

D

E

F

G

H

**BL**

J

K

L

M

## NATS (NISSAN ANTI-THEFT SYSTEM)

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Self-diagnosis related item

## NATS (NISSAN ANTI-THEFT SYSTEM)

SYMPTOM	Displayed "SELF-DIAG RESULTS" on CONSULT-II screen.	DIAGNOSTIC PROCEDURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO. OF ILLUSTRATION ON SYSTEM DIAGRAM	A	
<ul style="list-style-type: none"> <li>● Security indicator lighting up*</li> <li>● Engine cannot be started</li> </ul>	ECM INT CIRC-IMMU	PROCEDURE 1 (BL-193)	ECM	B	B	
	CHAIN OF ECM-IMMU	PROCEDURE 2 (BL-193)	In rare case, "CHAIN OF ECM-IMMU" might be stored during key registration procedure, even if the system is not malfunctioning.	—	—	C
			Open circuit in battery voltage line of IMMU circuit	C1	D	
			Open circuit in ignition line of IMMU circuit	C2	E	
			Open circuit in ground line of IMMU circuit	C3	F	
			Open circuit in communication line between IMMU and ECM	C4	G	
			Short circuit between IMMU and ECM communication line and battery voltage line	C4	H	
			Short circuit between IMMU and ECM communication line and ground line	C4	BL	
			ECM	B	J	
			IMMU	A	J	
			DIFFERENCE OF KEY	PROCEDURE 3 (BL-194)	Unregistered key	D
	CHAIN OF IMMU-KEY	PROCEDURE 4 (BL-195)	IMMU	A	K	
			Malfunction of key ID chip	E5	L	
			Communication line between ANT/ AMP and IMMU: Open circuit or short circuit of battery voltage line or ground line	E2	M	
			Open circuit in power source line of ANT/ AMP circuit	E3		
			Open circuit in ground line of ANT/ AMP circuit	E4		
			Antenna amp.	E6		
			Dongle unit	G		
			IMMU	A		
	ID DISCORD, IMM-ECM	PROCEDURE 5 (BL-197)	System initialization has not yet been completed.	F		
		ECM	B			
LOCK MODE	PROCEDURE 7 (BL-199)	LOCK MODE	D			





# NATS (NISSAN ANTI-THEFT SYSTEM)

## Diagnostic Procedure 1

EIS002M7

### Self-diagnostic results:

#### “ECM INT CIRC-IMMU” displayed on CONSULT-II screen

1. Confirm SELF-DIAGNOSTIC RESULTS “ECM INT CIRC-IMMU” displayed on CONSULT-II screen.
2. Replace ECM.  
**Ref. part No. B**
3. Perform initialization with CONSULT-II.  
For initialization, refer to “CONSULT-II operation manual NATS”.

SELF-DIAG RESULTS	
DTC RESULTS	TIME
ECM INT CIRC-IMMU	0

SEL152X

## Diagnostic Procedure 2

EIS002M8

### Self-diagnostic results:

#### “CHAIN OF ECM-IMMU” displayed on CONSULT-II screen

### 1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS “CHAIN OF ECM-IMMU” displayed on CONSULT-II screen.

#### NOTE:

In rare case, “CHAIN OF ECM-IMMU” might be stored during key registration procedure, even if the system is not malfunctioning.

Is CONSULT-II screen displayed as above?

- Yes >> GO TO 2  
No >> GO TO [BL-189, "SYMPTOM MATRIX CHART 1"](#) .

SELF DIAGNOSIS	
DTC RESULTS	TIME
CHAIN OF ECM-IMMU	0

SEL292W

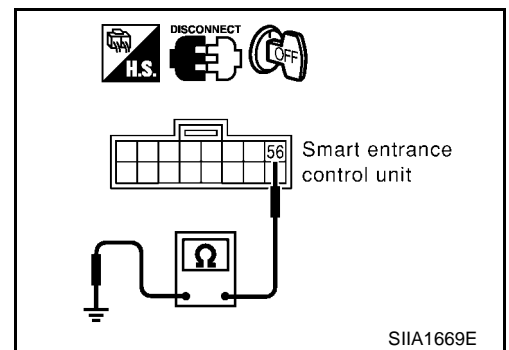
### 2. CHECK POWER SUPPLY CIRCUIT FOR IMMU

1. Disconnect IMMU connector.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M43 terminal 56(R/B) and ground CONSULT-II or tester.

**: Battery voltage should exist.**

OK or NG?

- OK >> GO TO 3  
NG >> Check the following
- 10A fuse [No. 12, located in the fuse block (J/B)]
  - Harness for open or short between fuse and IMMU connector  
**Ref. Part No. C1**



# NATS (NISSAN ANTI-THEFT SYSTEM)

## 3. CHECK IGN SW. ON SIGNAL

1. Turn ignition switch ON.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M42 terminal 29(Y/G) and ground with CONSULT-II or tester.

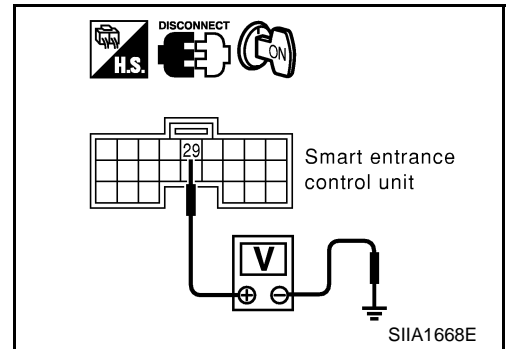
: Battery voltage should exist.

OK or NG?

OK >> GO TO 4

NG >> Check the following

- 10A fuse [No. 10, located in the fuse block (J/B)]
- Harness for open or short between fuse and IMMU connector  
**Ref. part No. C2**



## 4. CHECK GROUND CIRCUIT FOR IMMU

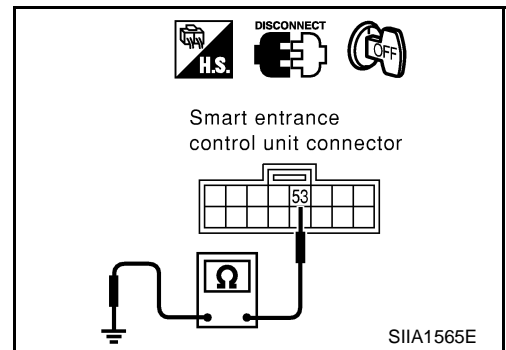
1. Turn ignition OFF.
2. Check continuity between IMMU (Smart entrance control unit) harness connector M43 terminal 53(B) and ground.

: Continuity should exist.

OK or NG?

OK >> GO TO 5

NG >> Repair harness. **Ref. part No. C3**



## 5. REPLACE IMMU (SMART ENTRANCE CONTROL UNIT)

1. Replace IMMU (Smart entrance control unit) **Ref. part No. A**
2. Perform initialization with CONSULT-II.  
For initialization, refer to "CONSULT-II operation manual NATS".

Does the engine start?

Yes >> IMMU (Smart entrance control unit) is malfunctioning.

No >> ● ECM is malfunctioning.

- Replace ECM. **Ref. part No. B**
- Perform initialization with CONSULT-II
- For initialization, refer to "CONSULT-II operation manual NATS"

## Diagnostic Procedure 3

Self-diagnostic results:

"DIFFERENCE OF KEY" displayed on CONSULT-II screen

EIS002M9

# NATS (NISSAN ANTI-THEFT SYSTEM)

## 1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "DIFFERENCE OF KEY" displayed on CONSULT-II screen.

Is CONSULT-II screen displayed as above?

- Yes >> GO TO 2  
No >> GO TO [BL-189, "SYMPTOM MATRIX CHART 1"](#).

SELF DIAG RESULTS	
DTC RESULTS	TIME
DIFFERENCE OF KEY	0

SEL367X

## 2. PERFORM INITIALIZATION WITH CONSULT-II

Perform initialization with CONSULT-II. Re-register all NATS ignition key IDs.

For initialization and registration of NATS ignition key IDs, refer to "CONSULT-II operation manual NATS".

### NOTE:

If the initialization is not completed or fails, CONSULT-II shows above message on the screen.

Can the system be initialized and can the engine be started with re-registered NATS ignition key?

- Yes >> ● Ignition key ID was unregistered. **Ref. part No. D**  
No >> ● IMMU (Smart entrance control unit) is malfunctioning.  
● Replace IMMU (Smart entrance control unit). **Ref. part No. A**  
● Perform initialization with CONSULT-II.  
● For initialization, refer to "CONSULT-II operation manual NATS".

IMMU INITIALIZATION
INITIALIZATION FAIL
THEN IGN KEY SW 'OFF' AND 'ON', AFTER CONFIRMING SELF-DIAG AND PASSWORD, PERFORM C/U INITIALIZATION AGAIN.

SEL297W

## Diagnostic Procedure 4

EIS002MA

Self-diagnostic results:

"CHAIN OF IMMU-KEY" displayed on CONSULT-II screen

## 1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "CHAIN OF IMMU-KEY" displayed on CONSULT-II screen.

Is CONSULT-II screen displayed as above?

- Yes >> GO TO 2  
No >> GO TO [BL-189, "SYMPTOM MATRIX CHART 1"](#).

SELF-DIAG RESULTS	
DTC RESULTS	TIME
CHAIN OF IMMU-KEY	0

SEL957W

## 2. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to [BL-203, "How to Replace NATS Antenna Amp"](#).

OK or NG?

- OK >> GO TO 3  
NG >> Reinstall NATS antenna amp. correctly.

# NATS (NISSAN ANTI-THEFT SYSTEM)

## 3. CHECK NATS IGNITION KEY ID CHIP

Start engine with another registered NATS ignition key.

Does the engine start?

- Yes >> ● Ignition key ID chip is malfunctioning.
- Replace the ignition key.
  - **Ref. part No. E5**
  - Perform initialization with CONSULT-II.
  - For initialization, refer to “CONSULT-II Operation Manual NATS”.
- No >> GO TO 4.

## 4. CHECK POWER SUPPLY FOR NATS ANTENNA AMP.

Check voltage between NATS antenna amp. harness connector M34 terminal 1(G) and ground with analogue tester.

**Before turning ignition switch “ON”**

**Voltage: 0V**

**Just after turning ignition switch “ON”**

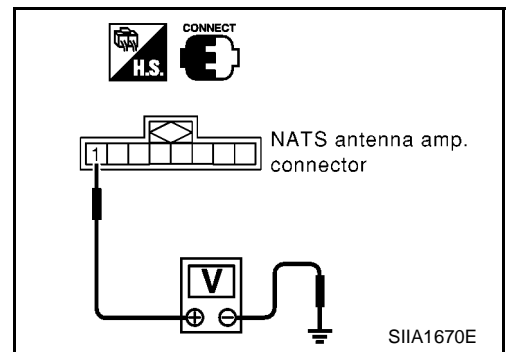
**: Pointer of tester should move.**

OK or NG?

- OK >> GO TO 5
- NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

**NOTE:**

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to “CONSULT-II operation manual NATS”.



## 5. CHECK NATS ANTENNA AMP. SIGNAL LINE- 1

Check voltage between NATS antenna amp. harness connector M34 terminal 3(G/W) and ground with analogue tester.

**Before turning ignition switch “ON”**

**Voltage: 0V**

**Just after turning ignition switch “ON”**

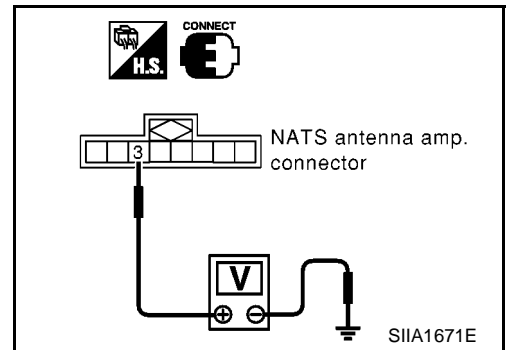
**: Pointer of tester should move.**

OK or NG?

- OK >> GO TO 6
- NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

**NOTE:**

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to “CONSULT-II operation manual NATS”.



# NATS (NISSAN ANTI-THEFT SYSTEM)

## 6. CHECK NATS ANTENNA AMP. SIGNAL LINE- 2

Check voltage between NATS antenna amp. harness connector M34 terminal 7(Y/G) and ground with analogue tester.

**Before turning ignition switch "ON"**

**Voltage: 0V**

**Just after turning ignition switch "ON"**

**: Pointer of tester should move.**

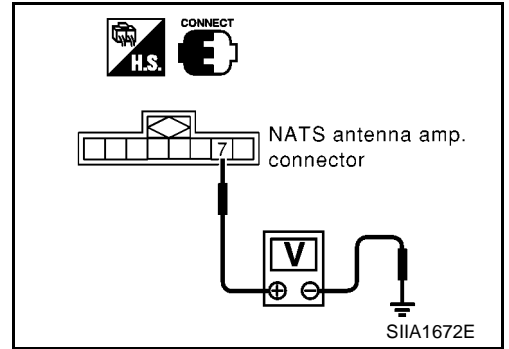
OK or NG?

OK >> GO TO 7

NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

**NOTE:**

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to "CONSULT-II operation manual NATS".



## 7. CHECK NATS ANTENNA AMP. GROUND LINE CIRCUIT

1. Turn ignition switch "OFF"
2. Disconnect NATS antenna amp connector.
3. Check continuity between NATS antenna amp. harness connector M34 terminal 5(G/OR) and ground.

**: Continuity should exist.**

OK or NG?

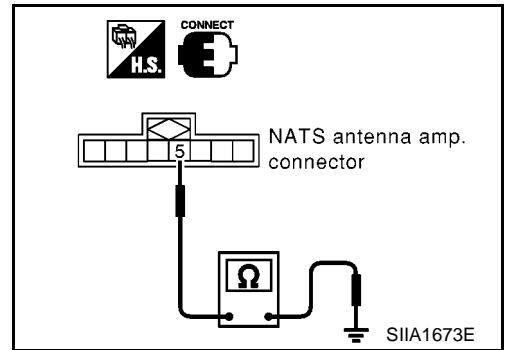
OK >> ● NATS antenna amp. malfunctioning.

**Ref. part No. E6**

NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

**NOTE:**

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to "CONSULT-II operation manual NATS".



## Diagnostic Procedure 5

EIS002MB

**Self-diagnostic results:**

"ID DISCORD, IMM-ECM" displayed on CONSULT-II screen

### 1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "ID DISCORD, IMM-ECM" displayed on CONSULT-II screen.

**NOTE:**

"ID DISCORD IMM-ECM":

Registered ID of IMMU is in discord with that of ECM.

Is CONSULT-II screen displayed as above?

Yes >> GO TO 2

No >> GO TO [BL-189, "SYMPTOM MATRIX CHART 1"](#).

SELF-DIAG RESULTS	
DTC RESULTS	TIME
ID DISCORD, IMM-ECM	0

SEL958W

# NATS (NISSAN ANTI-THEFT SYSTEM)

## 2. PERFORM INITIALIZATION WITH CONSULT-II

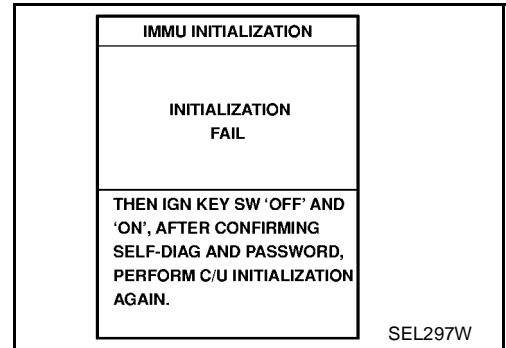
Perform initialization with CONSULT-II. Re-register all NATS ignition key IDs.  
For initialization, refer to "CONSULT-II operation manual NATS".

### NOTE:

If the initialization is not completed or fails, CONSULT-II shows above message on the screen.

Can the system be initialized?

- Yes >> ● Start engine. (END)
- (System initialization had not been completed. **Ref. part No. B**)
- No >> ● ECM is malfunctioning.
- Replace ECM. **Ref. part No. B**
  - Perform initialization with CONSULT-II.
  - For initialization, refer to "CONSULT-II operation manual NATS".



## Diagnostic Procedure 6

EIS002P8

"SECURITY INDICATOR LAMP DOES NOT LIGHT UP"

### 1. CHECK FUSE

Check 10A fuse [No.12 and No.30, located in the fuse block (J/B)]

10A fuse OK?

- OK >> GO TO 2  
NG >> Replace fuse.

### 2. CHECK SECURITY INDICATOR LAMP

1. Install 10A fuse.
2. Perform initialization with CONSULT-II.  
For initialization, refer to "CONSULT-II Operation Manual NATS".
3. Turn ignition switch OFF.
4. Start engine and turn ignition switch OFF.
5. Check the security indicator lamp lighting.

**: Security indicator lamp should be light up.**

OK or NG?

- OK >> Inspection END.  
NG >> GO TO 3

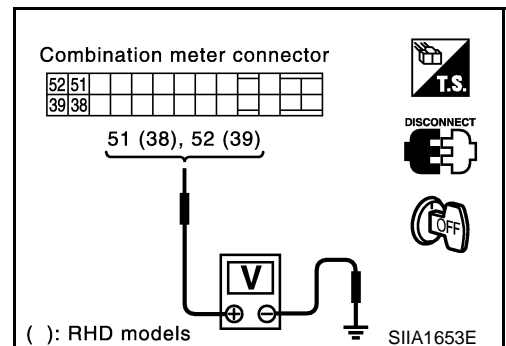
### 3. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M37 terminal 51(38), 52(39) and ground.  
( ): RHD models

**: Battery voltage should exist.**

OK or NG?

- OK >> GO TO 4  
NG >> Check harness for open or short between fuse and security indicator lamp.



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## 4. CHECK SMART ENTRANCE CONTROL UNIT FUNCTION

1. Disconnect combination meter connector.
2. Connect smart entrance control unit connector.
3. Check continuity between smart entrance control unit harness connector M42 terminal 34(L/Y) and ground.

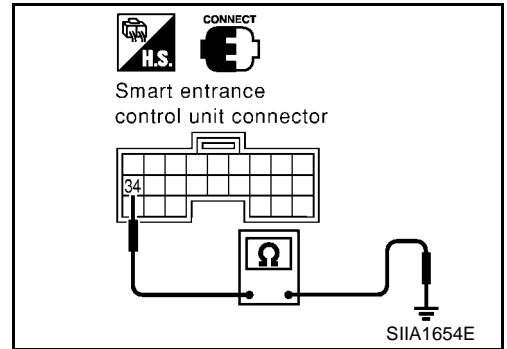
: **Continuity should exist intermittently.**

OK or NG?

OK >> Check harness for open or short between smart entrance control unit and combination meter.

NG >> IMMU (Smart entrance control unit) is malfunctioning.

- Replace smart entrance control unit  
**Ref. part No. A**
- Perform initialization with CONSULT-II
- For initialization, refer to "CONSULT-II operation manual NATS"



## Diagnostic Procedure 7

EIS002MD

**Self-diagnostic results:**

**"LOCK MODE" displayed on CONSULT-II screen**

### 1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "LOCK MODE" is displayed on CONSULT-II screen.

Is CONSULT-II screen displayed as above?

Yes >> GO TO 2

No >> GO TO [BL-189, "SYMPTOM MATRIX CHART 1"](#).

SELF-DIAG RESULTS	
DTC RESULTS	TIME
LOCK MODE	0

SEL960W

### 2. ESCAPE FROM LOCK MODE

1. Turn ignition switch OFF.
2. Turn ignition switch ON with registered key. (Do not start engine.) Wait 5 seconds.
3. Return the key to OFF position.
4. Repeat steps 2 and 3 twice (total of three cycles).
5. Start the engine.

Does engine start?

Yes >> ● System is OK.

- (Now system is escaped from "LOCK MODE".)

No >> GO TO 3

# NATS (NISSAN ANTI-THEFT SYSTEM)

## 3. PERFORM INITIALIZATION WITH CONSULT-II

Perform initialization with CONSULT-II.

For initialization, refer to "CONSULT-II operation manual NATS".

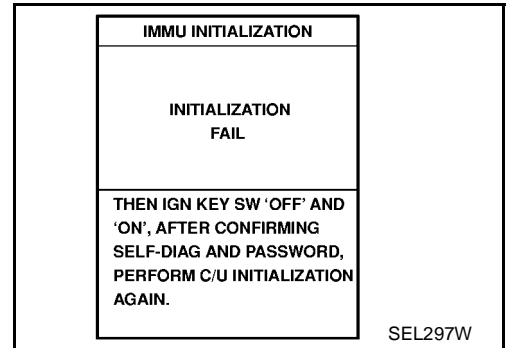
### NOTE:

If the initialization is not completed or fails, CONSULT-II shows the above message on the screen.

Can the system be initialized?

Yes >> System is OK.

No >> GO TO 4



## 4. PERFORM INITIALIZATION WITH CONSULT-II AGAIN

1. Replace IMMU (Smart entrance control unit).

2. Perform initialization with CONSULT-II.

For initialization, refer to "CONSULT-II operation manual NATS".

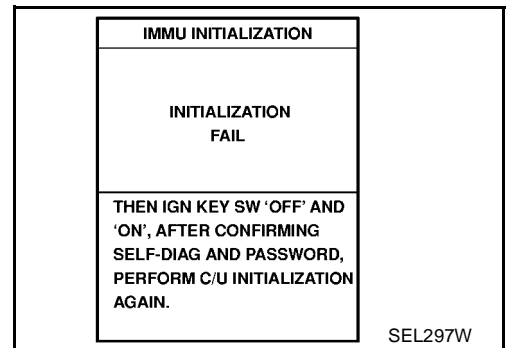
### NOTE:

If the initialization is not completed or fails, CONSULT-II shows the above message on the screen.

Can the system be initialized?

Yes >> System is OK. (IMMU is malfunctioning. **Ref. part No. A**)

No >> • ECM is malfunctioning.  
Replace ECM. **Ref. part No. B**  
Perform initialization with CONSULT-II.  
For initialization, refer to "CONSULT-II operation manual NATS".



## Diagnostic Procedure 8

EIS002P9

### 1. CHECK HARNESS CONNECTOR CONNECTION

Perform initialization with CONSULT-II

Check harness connector connection between Dongle unit harness connector M93 and IMMU (Smart entrance control unit) harness connector M41.

Then initialize NATS. For the initialization operation, refer to "CONSULT-II operation manual NATS"

Does the security indicator blink just after initialization?

Yes >> System is OK. (The malfunction is caused by improper connector connection.)

No >> GO TO 2

### 2. CHECK GROUND CIRCUIT FOR DONGLE UNIT

1. Disconnect dongle unit harness connector.

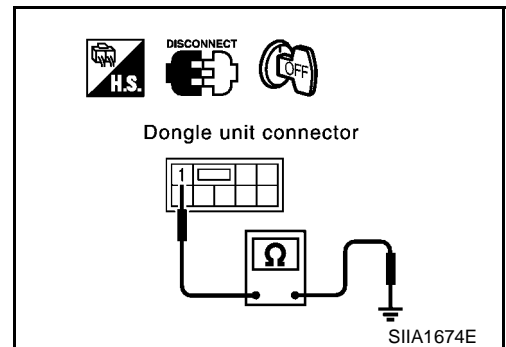
2. Check continuity between dongle unit harness connector M93 terminal 1(B) and ground.

**: Continuity should exist.**

OK or NG?

OK >> GO TO 3

NG >> Repair harness.





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## 3. CHECK INTERFACE CIRCUIT

1. Disconnect dongle unit and IMMU (Smart entrance control unit) harness connector.
2. Check continuity between IMMU (Smart entrance control unit) harness connector M41 terminal 9(Y) and dongle unit harness connector M93 terminal 7(Y).

: **Continuity should exist.**

3. Check continuity between (Smart entrance control unit) harness connector M41 terminal 9(Y) and ground.

: **Continuity should not exist.**

OK or NG?

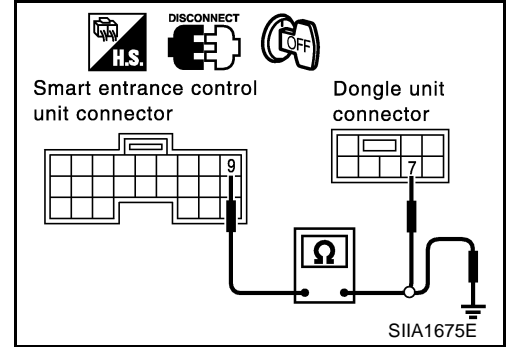
OK >> Dongle unit is malfunctioning.

1. Replace dongle unit.

2. Perform initialization with CONSULT-II.

For initialization procedure, refer to "CONSULT-II Operation Manual NATS".

NG >> Repair harness.



## Diagnostic Procedure 9

EIS002Y0

M/T MODELS

### 1. CHECK POWER SUPPLY CIRCUIT FOR IMMU

1. Disconnect IMMU (Smart entrance control unit) connector.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M43 terminal 58(B/W) and ground with CONSULT-II or tester.

**Ignition switch START position** : **Battery voltage should exist.**

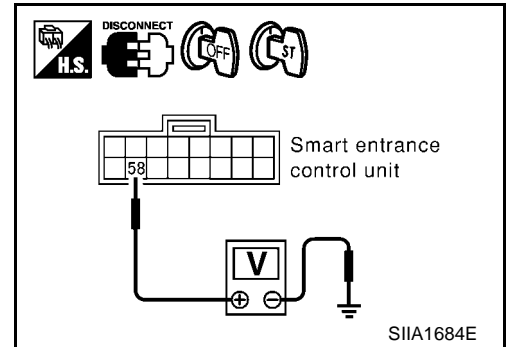
**Ignition switch OFF position** : **0V**

OK or NG?

OK >> GO TO 2

NG >> Check the following

- Ignition switch
- Harness for open or short between ignition switch and IMMU (Smart entrance control unit)



### 2. CHECK START SIGNAL

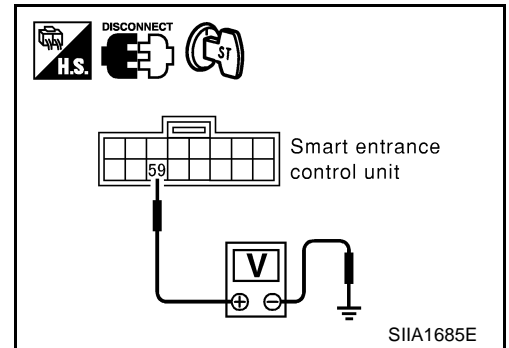
1. Turn ignition switch START.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M43 terminal 59(B/Y) and ground with CONSULT-II or tester.

: **Battery voltage should exist.**

OK or NG?

OK >> GO TO 3

NG >> Replace IMMU (Smart entrance control unit).



# NATS (NISSAN ANTI-THEFT SYSTEM)

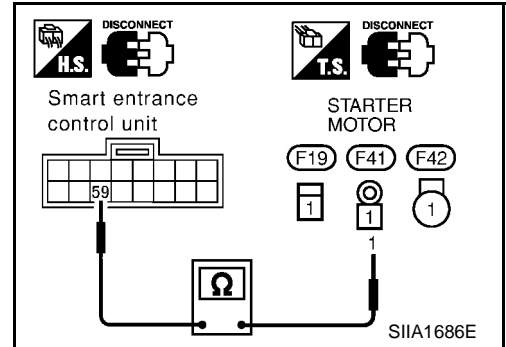
## 3. CHECK STARTER CIRCUIT FOR IMMU

1. Turn ignition OFF.
2. Disconnect IMMU (Smart entrance control unit) harness connector and starter motor harness connector.
3. Check continuity between IMMU (Smart entrance control unit) harness connector M43 terminal 59(B/Y) and starter motor harness connector F19(TD), F41(QG) or F42(GC) terminal 1(B/Y).

: Continuity should exist.

OK or NG?

- OK >> Check starter motor. Refer to [SC-22, "STARTING SYSTEM"](#)
- NG >> Harness for open or short between IMMU (Smart entrance control unit) and starter motor.



A/T, CVT MODELS

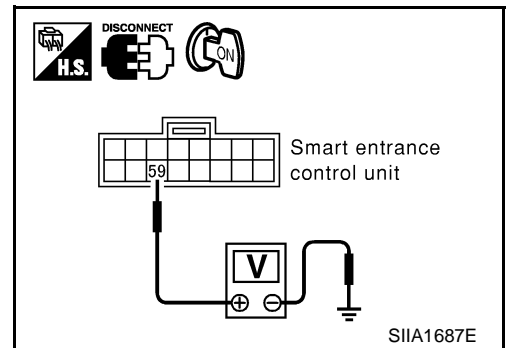
## 1. CHECK POWER SUPPLY CIRCUIT FOR IMMU

1. Disconnect IMMU (Smart entrance control unit) connector.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M43 terminal 59(B/W) and ground with CONSULT-II or tester.

: Battery voltage should exist.

OK or NG?

- OK >> GO TO 2
- NG >> Check the following
- Park/neutral position relay
  - Harness for open or short between park/neutral position relay and IMMU



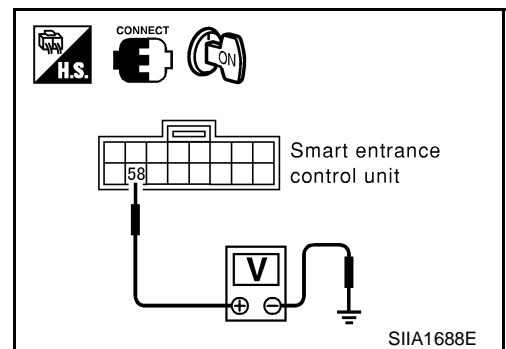
## 2. CHECK START SIGNAL

1. Connect IMMU (Smart entrance control unit) connector.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M43 terminal 58(P) and ground with CONSULT-II or tester.

: Battery voltage should exist.

OK or NG?

- OK >> GO TO 3
- NG >> Replace IMMU (Smart entrance control unit).



# NATS (NISSAN ANTI-THEFT SYSTEM)

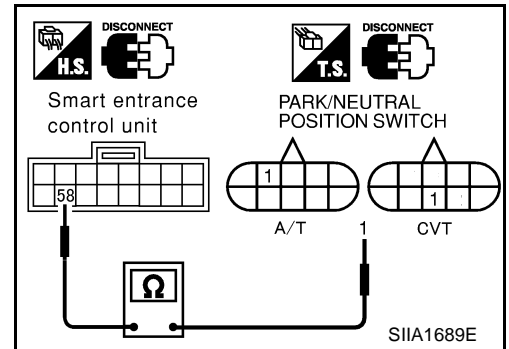
## 3. CHECK STARTER CIRCUIT FOR IMMU

1. Disconnect IMMU (Smart entrance control unit) connector and park/neutral position switch connector.
2. Check continuity between IMMU (Smart entrance control unit) harness connector M43 terminal 58(P) and park/neutral position switch harness connector F17 terminal 1(P).

: Continuity should exist.

OK or NG?

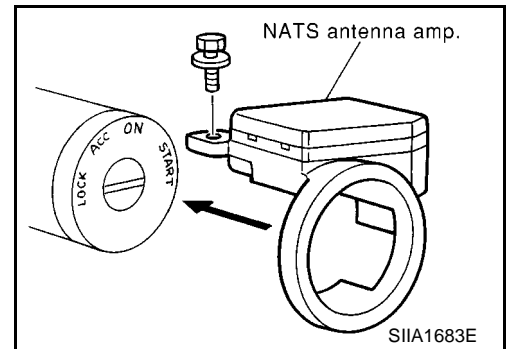
- OK >> Check starter motor. Refer to [SC-22, "STARTING SYSTEM"](#)
- NG >> Harness for open or short between IMMU (Smart entrance control unit) and park/neutral position switch.



## How to Replace NATS Antenna Amp

NOTE:

- If NATS antenna amp. is not installed correctly, NATS system will not operate properly and SELF-DIAG RESULTS on CONSULT-II screen will show "LOCK MODE" or "CHAIN OF IMMU- KEY".
- Initialization is not necessary only when NATS antenna amp. is replaced with a new one.



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