

SECTION **MIR**

MIRRORS

CONTENTS

WITH ADP	AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM	16
BASIC INSPECTION	Wiring Diagram - INSIDE MIRROR SYSTEM -	16
DIAGNOSIS AND REPAIR WORKFLOW	MIRROR SYSTEM	19
Work Flow	Wiring Diagram - MIRROR SYSTEM -	19
SYSTEM DESCRIPTION	ECU DIAGNOSIS INFORMATION	28
DOOR MIRROR SYSTEM	DRIVER SEAT CONTROL UNIT	28
System Diagram	Reference Value	28
System Description	Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -	33
Component Parts Location	Fail Safe	44
Component Description	DTC Index	45
INSIDE MIRROR SYSTEM	AUTOMATIC DRIVE POSITIONER CONTROL UNIT	46
System Description	Reference Value	46
Component Description	Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -	50
DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)	SYMPTOM DIAGNOSIS	62
CONSULT Function	DOOR MIRROR DOES NOT OPERATE	62
DTC/CIRCUIT DIAGNOSIS	Diagnosis Procedure	62
DOOR MIRROR REMOTE CONTROL SWITCH	REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE	63
MIRROR SWITCH	Diagnosis Procedure	63
MIRROR SWITCH : Description	SQUEAK AND RATTLE TROUBLE DIAGNOSES	64
MIRROR SWITCH : Component Function Check... ..	Work Flow	64
MIRROR SWITCH : Diagnosis Procedure	Inspection Procedure	66
MIRROR SWITCH : Component Inspection	Diagnostic Worksheet	68
CHANGEOVER SWITCH	PRECAUTION	70
CHANGEOVER SWITCH : Description	PRECAUTIONS	70
CHANGEOVER SWITCH : Component Function Check		
CHANGEOVER SWITCH : Diagnosis Procedure... ..		
CHANGEOVER SWITCH : Component Inspection		

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	70	MIRROR SYSTEM	84
Precaution for Procedure without Cowl Top Cover... ..	70	Wiring Diagram - MIRROR SYSTEM -	84
Precautions for Removing Battery Terminal	71	SYMPTOM DIAGNOSIS	88
PREPARATION	72	SQUEAK AND RATTLE TROUBLE DIAGNOSES	88
PREPARATION	72	Work Flow	88
Commercial Service Tools	72	Inspection Procedure	90
REMOVAL AND INSTALLATION	73	Diagnostic Worksheet	92
INSIDE MIRROR	73	PRECAUTION	94
Exploded View	73	PRECAUTIONS	94
Removal and Installation	74	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	94
DOOR MIRROR	75	Precaution for Procedure without Cowl Top Cover... ..	94
Exploded View	75	Precautions for Removing Battery Terminal	95
DOOR MIRROR ASSEMBLY	75	PREPARATION	96
DOOR MIRROR ASSEMBLY : Removal and Installation	75	PREPARATION	96
DOOR MIRROR ASSEMBLY : Disassembly and Assembly	75	Commercial Service Tools	96
GLASS MIRROR	76	REMOVAL AND INSTALLATION	97
GLASS MIRROR : Removal and Installation	76	INSIDE MIRROR	97
DOOR MIRROR COVER	76	Exploded View	97
DOOR MIRROR COVER : Removal and Installation	76	Removal and Installation	98
DOOR MIRROR REMOTE CONTROL SWITCH	78	DOOR MIRROR	99
Exploded View	78	Exploded View	99
Removal and Installation	78	DOOR MIRROR ASSEMBLY	99
WITHOUT ADP		DOOR MIRROR ASSEMBLY : Removal and Installation	99
SYSTEM DESCRIPTION	79	DOOR MIRROR ASSEMBLY : Disassembly and Assembly	99
DOOR MIRROR SYSTEM	79	GLASS MIRROR	100
Component Description	79	GLASS MIRROR : Removal and Installation	100
INSIDE MIRROR SYSTEM	80	DOOR MIRROR COVER	100
System Description	80	DOOR MIRROR COVER : Removal and Installation	100
Component Description	80	DOOR MIRROR REMOTE CONTROL SWITCH	102
DTC/CIRCUIT DIAGNOSIS	81	Exploded View	102
AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM	81	Removal and Installation	102
Wiring Diagram - INSIDE MIRROR SYSTEM -	81		

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000010577268

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurred) as possible when the customer brings the vehicle in.

>> GO TO 2.

2.CHECK DTC

Perform self-diagnosis for automatic drive positioner (ADP) with CONSULT.

Is any DTC detected?

YES >> Refer to [ADP-142, "DTC Index"](#).

NO >> GO TO 3.

3.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.

Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 5.

5.IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3.

Are all malfunctions corrected?

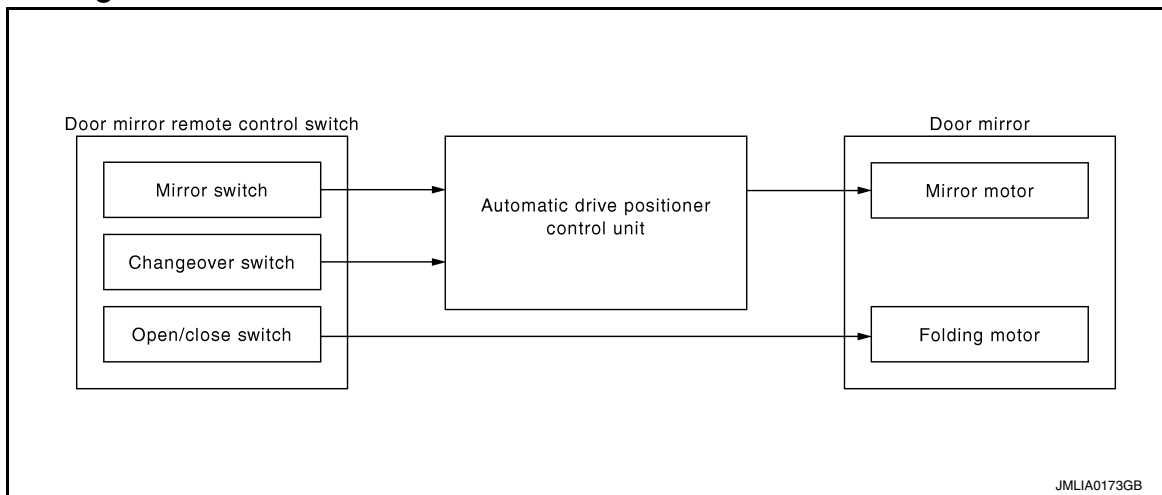
YES >> INSPECTION END

NO >> GO TO 4.

SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

System Diagram



System Description

INFOID:0000000010577270

MANUAL FUNCTION

Description

- Automatic drive positioner control unit controls door mirror.
- Automatic drive positioner control unit inputs changeover switch signal and performs the LH/RH control of door mirror motor supplying electric power when changeover switch is operated.
- Automatic drive positioner control unit inputs mirror switch signal and supplies electric power to door mirror.
- The ignition switch signal (ACC/ON) is transmitted from BCM to the driver seat control unit via CAN communication and from the driver seat control unit to the automatic drive positioner control unit via UART communication.
- Power is supplied to folding motor when operating the open/close switch.

Operation Conditions

If the following conditions are not satisfied, operation is not performed.

- Ignition switch: ON or ACC
- Changeover switch: Select either left or right

REVERSE INTERLOCK DOOR MIRROR SYSTEM

Description

- Select one of the door mirror faces using change over switch, and then set the selected mirror face downward/inward.
- When the ignition switch is in the ON position and A/T shift selector is in the R position, the TCM sends the R signal to the driver seat control unit. The R signal is transmitted to the automatic drive positioner control unit from the driver seat control unit via UART communication. When the R signal is detected, the automatic device positioner control unit activates the mirror motor.

Operation Conditions

If the following conditions are not satisfied, operation is not performed.

- Ignition switch: ON
- Changeover switch: Select either left or right
- A/T shift selector: R position

During the reverse interlock door mirror system, if all of the above conditions are not satisfied, mirror face returns to original angle.

Mirror Angle Memory Function

- During the reverse interlock door mirror operation, the mirror angle can be changed. After adjustment, the mirror face positions can be memorized (2 positions). For memory setting.

DOOR MIRROR SYSTEM

[WITH ADP]

< SYSTEM DESCRIPTION >

- Initial setting is downward 7°, inward 1° (both of left and right).
- When the drivers seat, door mirror and steering column are not in the memorized position, the door mirror moves to the initial tilt-down angle, if the reverse tilt-down position is stored. Linking Intelligent Key to a stored memory position.

Memory Procedure

1. Apply the parking brake.
2. Push the ignition switch to the ON position. (Do not start the engine)
3. Push the memory switch 1 or 2 fully for at least 1 second to operate the automatic drive positioner.
4. Turn the door mirror control switch (changeover switch) to L (left).
5. Depress the brake pedal.
6. Move the A/T shift selector to the R position (reverse).
7. Adjust the mirror to the desired viewing position for backing up by operating the door mirror control switch (mirror switch).
8. Push the SET switch and, within 5 seconds, push fully the memory switch 1 or 2 selected in step 3 for at least 1 second.
The indicator light for the pushed memory switch illuminates, and continue pushing the switch. After the indicator light tams off, the selected mirror position is stored in the selected memory (1 or 2).
9. Turn the door mirror control switch (changeover switch) to R (right).
Repeat the above procedure to adjust the right mirror position and store in the selected memory.

AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

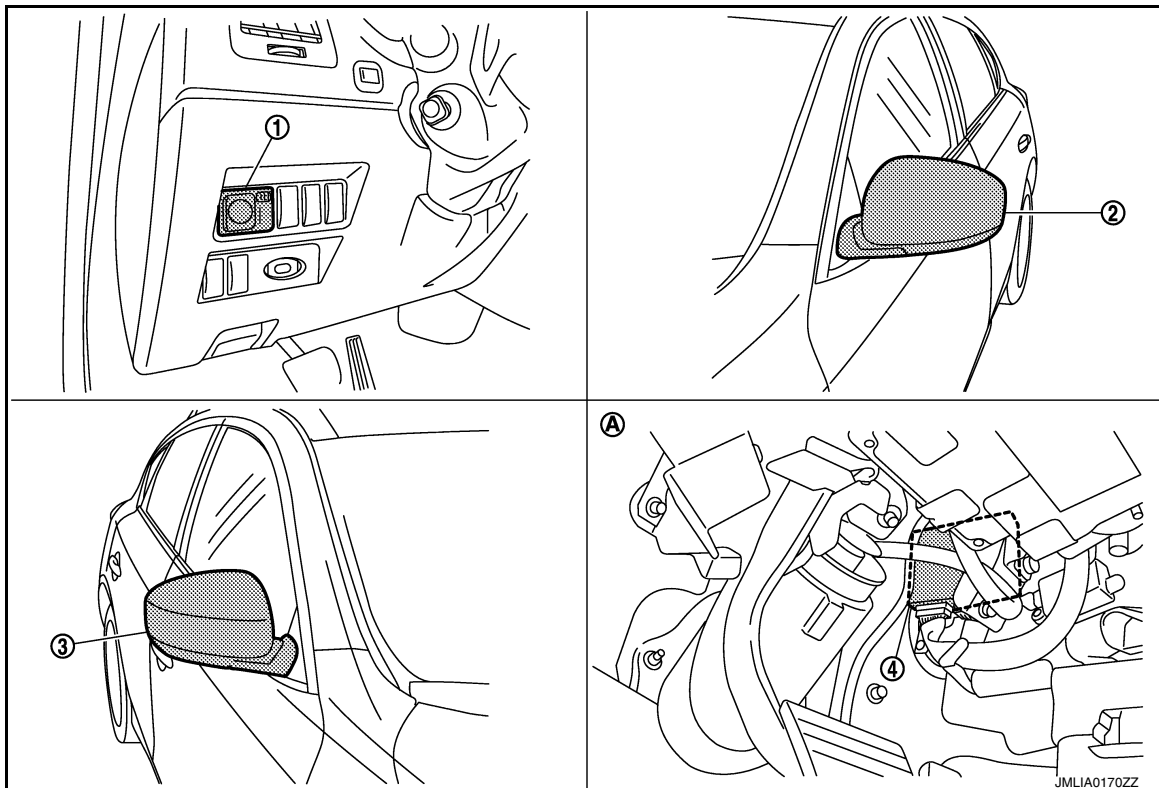
Description

Door mirror control is included in automatic drive positioner system. Refer to automatic drive positioner system for more details.

Refer to [ADP-14, "AUTOMATIC DRIVE POSITIONER SYSTEM : System Description"](#).

Component Parts Location

INFOID:0000000010577271



1. Door mirror remote control switch

2. Door mirror (driver side)

3. Door mirror (passenger side)

DOOR MIRROR SYSTEM

< SYSTEM DESCRIPTION >

[WITH ADP]

- 4. Automatic drive positioner control unit
- A. View with instrument driver lower panel removed

Component Description

INFOID:0000000010577272

Component		Function
Automatic drive positioner control unit		Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGEOVER SWITCH.
Door mirror remote control switch	Mirror switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
	Changeover switch	It transmits the LH/RH control of door mirror that supplies power to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
	Open/close switch	Power is supplied to folding mirror from door remote control switch when operating switch.
Door mirror	Door mirror motor	It makes mirror face operate from side to side and up and down via integrated motor.
	Folding motor	The door mirror operates because power is received from power supply when pressing door mirror remote control switch.

INSIDE MIRROR SYSTEM

< SYSTEM DESCRIPTION >

[WITH ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000010577273

The sensor built in inside mirror detects the brightness of headlight of the vehicle behind and automatically changes the light transmission to decrease the brightness.

Component Description

INFOID:0000000010577274

Component	Function
Auto anti-dazzling inside mirror	It automatically changes the light transmittance according to the brightness of the light from the headlight of the vehicle behind.

A

B

C

D

E

F

G

H

I

J

K

MIR

M

N

O

P

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

CONSULT Function

INFOID:0000000011046191

APPLICATION ITEM

The auto drive positioner system can be checked and diagnosed for component operation with CONSULT.

Diagnostic mode [AUTO DRIVE POS.]	Description
WORK SUPPORT	Changes the setting of each function.
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drive each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit parts.

SELF-DIAGNOSIS RESULTS

Refer to [MIR-45, "DTC Index"](#).

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (up) signal.
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (down) signal.
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (forward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.
DETENT SW	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) / OFF (ACC, OFF) status judged from the ignition switch signal.
SLIDE PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	—	×	Voltage input from door mirror sensor (passenger side) up/down is displayed.
MIR/SEN RH R-L	"V"	—	×	Voltage input from door mirror sensor (passenger side) left/right is displayed.
MIR/SEN LH U-D	"V"	—	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"V"	—	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
TILT SEN	"V"	—	×	Voltage input from tilt sensor is displayed.
TELESCO SEN	"V"	—	×	Voltage input from telescopic sensor is displayed.

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).
TILT MOTOR	Activates/deactivates the tilt motor.
TELESCO MOTOR	Activates/deactivates the telescopic motor.
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.

WORK SUPPORT

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

Work item	Content	Item
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	40 mm
		80 mm
		150 mm
EXIT TILT SETTING	Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated)	ON
		OFF
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	ON
		OFF

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH : Description

INFOID:0000000010577276

It operates angle of the door mirror face.

It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.

MIRROR SWITCH : Component Function Check

INFOID:0000000010577277

1.CHECK MIRROR SWITCH FUNCTION

Check the operation on "MIR CON SW-UP/DN" and "MIR CON SW-RH/LH" in "DATA MONITOR" mode using CONSULT.

Monitor item	Condition
MIR CON SW-UP/DN	When operating the mirror switch toward the up or down side. : ON
	Other than the above. : OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side. : ON
	Other than the above. : OFF

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to [MIR-11. "MIRROR SWITCH : Diagnosis Procedure"](#).

MIRROR SWITCH : Diagnosis Procedure

INFOID:0000000010577278

1.CHECK MIRROR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror remote control switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror remote control switch			
Connector	Terminal		
M26	4	Ground	5
	5		
	6		
	14		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK MIRROR SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror remote control switch harness connector.

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M51	3	M26	6	Existed
	4		5	
	19		14	
	20		4	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M51	3	Ground	Not existed
	4		
	19		
	20		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-217, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror remote control switch harness connector and ground.

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
M26	13	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK MIRROR SWITCH

Check door mirror remote control switch (mirror switch).

Refer to [MIR-12, "MIRROR SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (mirror switch). Refer to [MIR-78, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

MIRROR SWITCH : Component Inspection

INFOID:0000000010577279

1.CHECK MIRROR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check continuity between door mirror remote control switch terminals.

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Door mirror remote control switch			Condition		Continuity
Connector	Terminal				
M26	4	13	Mirror switch	RIGHT	Existed
				Other than the above	Not existed
	5			LEFT	Existed
				Other than the above	Not existed
	6			UP	Existed
				Other than the above	Not existed
	14			DOWN	Existed
				Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to [MIR-78. "Removal and Installation"](#).

CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

INFOID:0000000010577280

Changeover switch is integrated into door mirror remote control switch.

Changeover switch has three positions (L, N and R).

It changes door mirror motor operation by transmitting control signal to automatic drive positioner control unit.

CHANGEOVER SWITCH : Component Function Check

INFOID:0000000010577281

1.CHECK CHANGEOVER SWITCH FUNCTION

Check the operation on "MIR CHNG SW-R" or "MIR CHNG SW-L" in "DATA MONITOR" mode using CONSULT.

Monitor item	Condition	
MIR CHNG SW-R/L	When operating the changeover toward the right or left side.	: ON
	Other than the above.	: OFF

Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to [MIR-13. "CHANGEOVER SWITCH : Diagnosis Procedure"](#).

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:0000000010577282

1.CHECK CHANGEOVER SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror remote control switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror remote control switch			
Connector	Terminal		
M26	2	Ground	5
	3		

Is the inspection result normal?

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

- YES >> GO TO 3.
NO >> GO TO 2.

2.CHECK CHANGEOVER SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror remote control switch harness connector.

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M51	2	M26	3	Existed
	18		2	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M51	2		Not existed
	18		

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-217, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror remote control switch harness connector and ground.

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
M26	13		Existed

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).
Refer to [MIR-14, "CHANGEOVER SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace door mirror remote control switch (changeover switch). Refer to [MIR-78, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

CHANGEOVER SWITCH : Component Inspection

INFOID:000000010577283

1.CHECK CHANGEOVER SWITCH

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check continuity between door mirror remote control switch terminals.

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Door mirror remote control switch			Condition		Continuity
Connector	Terminal				
M26	2	13	Changeover switch	LEFT	Existed
	3			Other than above	Not existed
				RIGHT	Existed
					Other than above

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to [MIR-78. "Removal and Installation"](#).

MIR

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

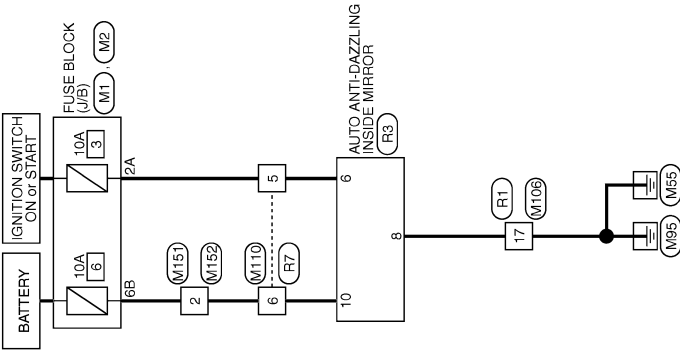
< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000010577284



INSIDE MIRROR

2013/02/13

JRLWC3821GB

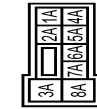
AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

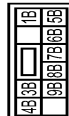
INSIDE MIRROR

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



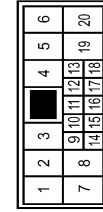
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	GR	-
4	SHIELD	-
5	G	-
6	BR	-
9	P	-
10	G	-
11	Y	-
12	BR	-
13	L	-
14	L	-
15	R	-
16	R	-
17	B	-
20	BG	-

Connector No.	M110
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
4	B	-

5	W	-
6	GR	-
7	SB	-
8	LG	-
9	SHIELD	-
10	R	-
11	G	-
15	R	-
16	V	-

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



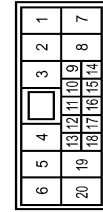
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



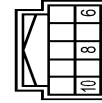
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	GR	-
4	SHIELD	-
5	G	-
6	BR	-
9	P	-
10	G	-
11	Y	-
12	BR	-
13	L	-
14	L	-
15	R	-
16	R	-
17	B	-
20	Y	-

Connector No.	R3
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	BR	IGN
8	B	GROUND
10	GR	BAT

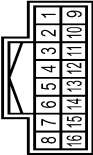
AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

INSIDE MIRROR

Connector No.	R7
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
4	B	-
5	BR	-
6	GR	-
7	SB	-
8	Y	-
9	SHIELD	-
10	R	-
11	G	-
15	R	-
16	V	-

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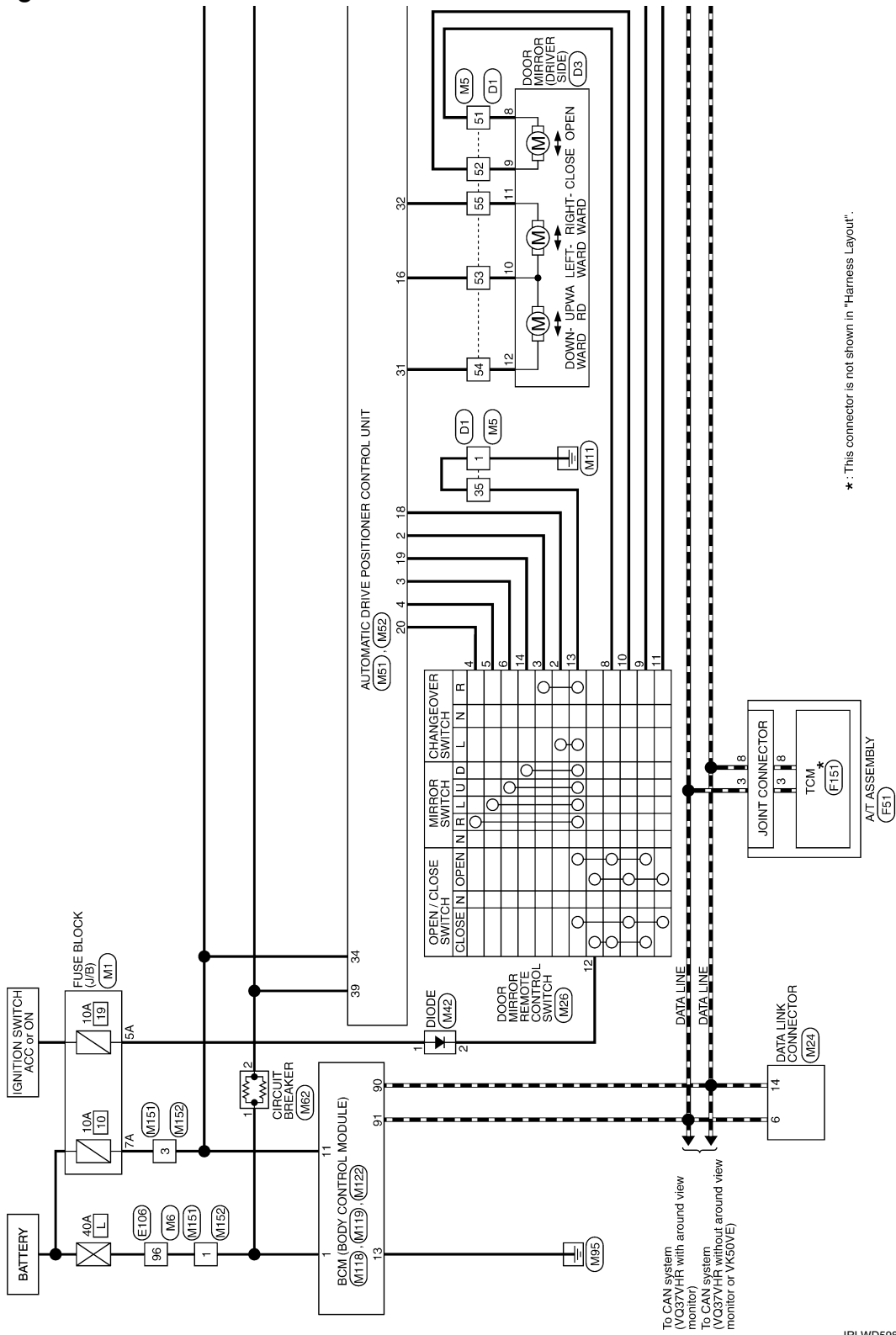
< DTC/CIRCUIT DIAGNOSIS >

MIRROR SYSTEM

Wiring Diagram - MIRROR SYSTEM -

INFOID:0000000010577285

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)



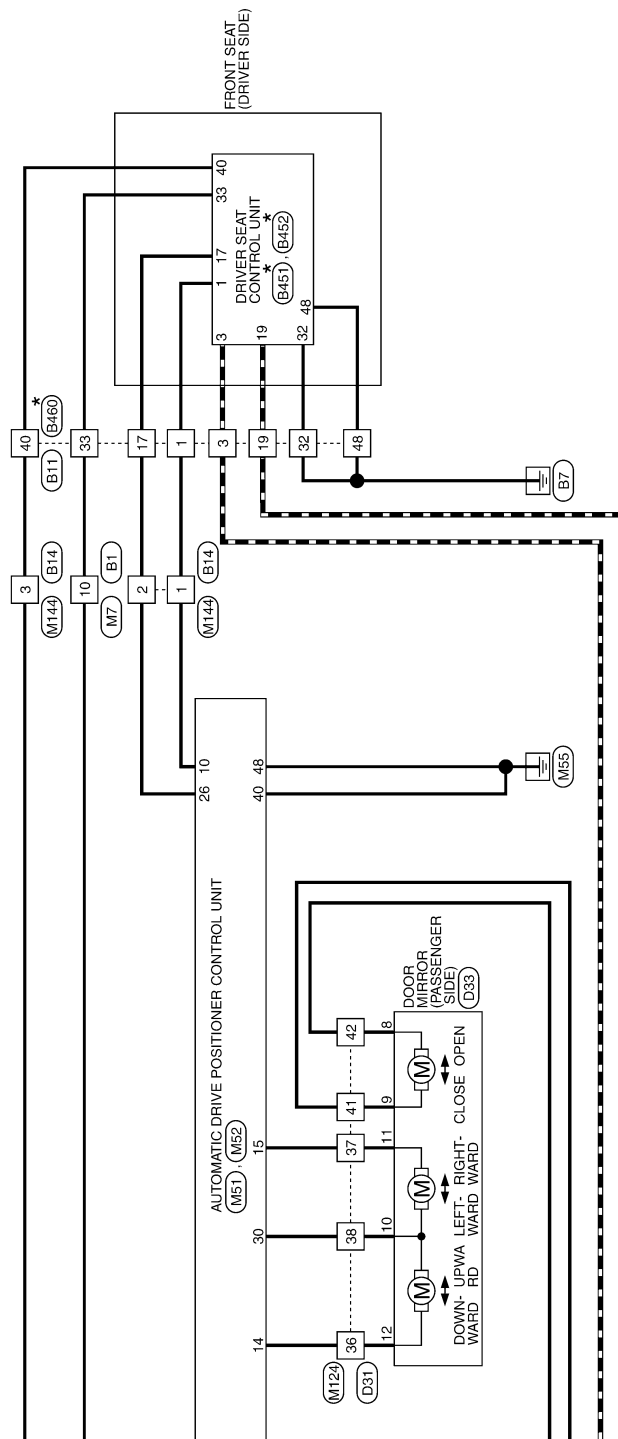
JRLWD5982GB

2014/03/18

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]



★ : This connector is not shown in "Harness Layout".

JRLW5983GB

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

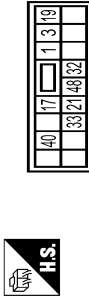
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



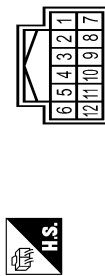
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	BG	-
7	P	-
8	BG	-
9	SB	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



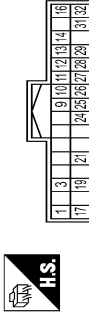
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	L	-
17	LG	-
19	P	-
21	Y	-
32	B	-
33	SB	-
40	R	-
48	B	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	LG	-
3	R	-
5	W	-
6	R	-
7	Y	-
11	SHIELD	-
12	B	- [Without around view monitor]
12	W	- [With around view monitor]

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CANH
8	W/G	PULSE (RECLINING)
10	P/B	PULSE (R/LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX
19	V	CANL
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (R/LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

JRLWDS984GB

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MIR

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS



33	35	36	37	38	39
40	42	44	45	46	48



15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	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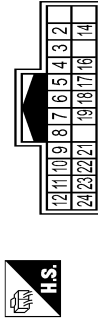
MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

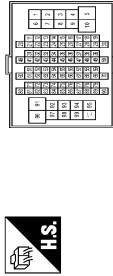
[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-AH



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FM-CS16-TM4



37	Y	-
38	GR	-
39	LG	-
41	LG	-
42	V	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	SB	-
50	BR	-
51	B	-
52	Y	-
53	BG	-
54	R	-
55	SB	-
56	P	-
58	SB	-
60	SB	-
61	V	-
62	P	-
63	LG	-
64	L	-
65	BG	-
69	L	-
70	SHIELD	-
71	G	-
72	G	-
73	R	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-
85	G	-
86	P	-
87	W	-
88	BG	-
89	LG	-
90	BR	-
91	GR	-
92	BR	-
93	SB	-
95	Y	-
96	W	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
5	G	-
6	R	-
7	LG	-
8	O	-
9	L	-
10	G	-
11	GR	-
12	O	-
14	O	-
16	G	-
17	SHIELD	-
18	B	-
19	B	-
21	P	-
22	BR	-
23	W	-
24	V	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
5	G	-
6	W	-
7	G	-
8	V	-
9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	SB	-
17	L	-
18	P	-
19	G	-
20	W	- [With ICC] - [Without ICC]
21	BR	-
22	R	- [With ICC] - [Without ICC]
23	G	-
24	L	- [With ICC] - [Without ICC]
25	L	- [With ICC] - [Without ICC]
26	SHIELD	-
28	G	-
29	LG	-
30	BG	-
32	W	-
33	Y	-
34	BG	-

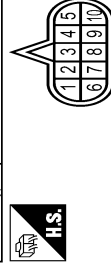
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	F51
Connector Name	AT ASSEMBLY
Connector Type	RK10FG-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	R	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CAN-H
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY (With VO engine)
9	LG	STARTER RELAY (With VK engine)
10	B	GROUND

Connector No.	F151
Connector Name	TCM
Connector Type	SP10FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	CAN-H
4	O	K-LINE

MIRROR SYSTEM

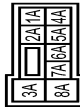
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[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

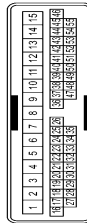
5	G	GROUND
6	GR	IGNITION POWER SUPPLY
7	L	BACK-UP LAMP RELAY
8	BR	CAN-L
9	Y	STARTER RELAY
10	W/B	GROUND

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

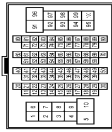
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Wire	Signal Name [Specification]
1	B	-
3	SB	-
6	R	-
7	W	-

8	G	-
9	L	-
10	BG	-
11	G	-
12	V	-
13	Y	-
14	P	-
15	L	-
20	BG	-
21	LG	-
22	V	-
23	Y	-
24	P	-
26	SB	-
27	V	-
28	LG	-
29	R	-
30	P	-
31	BG	-
32	SB	-
33	L	-
34	R	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	G	-
45	Y	-
46	GR	-
47	W	-
48	L	-
49	R	-
50	BG	-
51	SB	-
52	R	-
53	Y	-
54	LG	-
55	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16-TM4



Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
3	SB	- [With Auto aircon seat]
4	LG	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
20	W	- [With ICC]
21	BR	- [Without ICC]
21	L	- [With ICC]
22	L	- [Without ICC]
22	R	- [With ICC]
23	G	-
24	L	- [Without ICC]
24	P	- [With ICC]
25	W	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	GR	-
29	V	-
30	BG	-
32	W	-

33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-

JRLWD5987GB

MIRROR SYSTEM

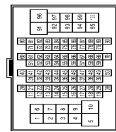
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[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

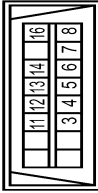
95	G	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



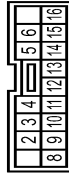
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
1	Y	- [Without Auto aircon seat]
2	B	-
3	W	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	LG	-
4	BR	-
5	V	-
6	G	-
8	SB	-
9	LG	-
10	R	-
11	P	-

12	G	-
13	B	-
14	SB	-
15	BG	-
16	W	-

Connector No.	M42
Connector Name	DIODE
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	TILT SW (UPWARD)
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
7	LG	TILT SENSOR
8	L	ADDRESS1
10	V	TX (UART)
11	SB	TELESCOPIC SW (FRONTWARD)
12	BG	IND1

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	Signal Name [Specification]
M62	CIRCUIT BREAKER
M02FW-PLC	



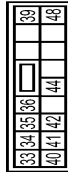
Terminal No.	Wire	Signal Name [Specification]
1	W	-
2	W	-

Connector No.	Signal Name [Specification]
M118	BCM (BODY CONTROL MODULE)
M03FB-LC	



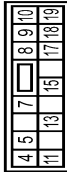
Terminal No.	Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	Signal Name [Specification]
M52	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
NS16FW-CS	



Terminal No.	Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND (SIGNAL)
41	Y	GND (SENSOR)
42	BG	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND (POWER)

Connector No.	Signal Name [Specification]
M119	BCM (BODY CONTROL MODULE)
NS16FW-CS	



Terminal No.	Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAME)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL ID LOCK OUTPUT
9	G	DRIVER DOOR FUEL ID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

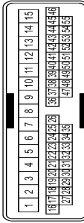
Connector No.	Signal Name [Specification]
M122	BCM (BODY CONTROL MODULE)
TH40FB-NH	



Terminal No.	Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT-
79	BR	ROOM ANT+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP

Terminal No.	Wire	Signal Name [Specification]
82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	Signal Name [Specification]
M124	WIRE TO WIRE
TH40MW-CS15	



Terminal No.	Wire	Signal Name [Specification]
3	Y	-
4	LG	-
5	SB	-
6	BR	-
7	G	-
8	V	-
9	LG	-
13	B	-
14	BG	-
15	W	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



1	3	2
---	---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



1	2	3
---	---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

25	G	-
26	R	-
31	BG	-
32	Y	-
33	LG	-
34	SB	-
35	V	-
36	BG	-
37	GR	-
38	G	- [Without automatic drive positioner]
38	R	- [With automatic drive positioner]
39	B	-
40	R	-
41	P	-
42	LG	-
43	Y	-
44	Y	-
45	R	-
46	W	-
47	Y	-
48	BR	-
49	SHIELD	-

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



1	2	3	4	5	6
7	8	9	10	11	12

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	R	-
5	W	-
6	R	-
7	Y	-
11	SHIELD	-
12	B	- [Without around view monitor]
12	W	- [With around view monitor]

JRLWD5990GB

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000011046193

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Condition		Value/Status
SET SW	Set switch	Push	ON
		Release	OFF
MEMORY SW1	Memory switch 1	Push	ON
		Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
		Release	OFF
SLIDE SW-FR	Sliding switch (front)	Operate	ON
		Release	OFF
SLIDE SW-RR	Sliding switch (rear)	Operate	ON
		Release	OFF
RECLN SW-FR	Reclining switch (front)	Operate	ON
		Release	OFF
RECLN SW-RR	Reclining switch (rear)	Operate	ON
		Release	OFF
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
		Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
		Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
		Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
		Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
		Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
		Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
		Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
		Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
		Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
		Other than above	OFF

DRIVER SEAT CONTROL UNIT

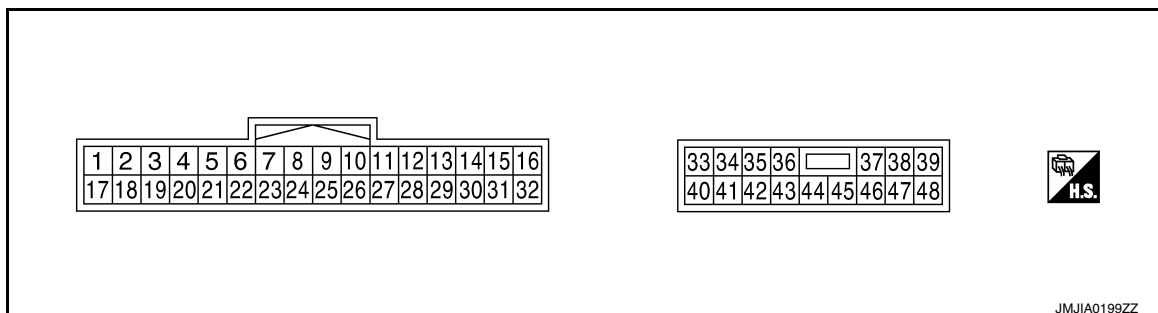
< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Condition		Value/Status
TELESCO SW-FR	Telescopic switch	Forward	ON
		Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
		Other than above	OFF
DETENT SW	AT selector lever	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *1
		Backward	The numeral value increases *1
		Other than above	No change to numeral value *1
RECLN PULSE	Seat reclining	Forward	The numeral value decreases *1
		Backward	The numeral value increases *1
		Other than above	No change to numeral value *1
LIFT FR PULSE	Seat lifter (front)	Up	The numeral value decreases *1
		Down	The numeral value increases *1
		Other than above	No change to numeral value *1
LIFT RR PULSE	Seat lifter (rear)	Up	The numeral value decreases *1
		Down	The numeral value increases *1
		Other than above	No change to numeral value *1
MIR/SEN RH U-D	Door mirror (passenger side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger side)		Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)

*1: The value at the position attained when the battery is connected is regarded as 32768.

TERMINAL LAYOUT

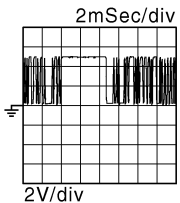
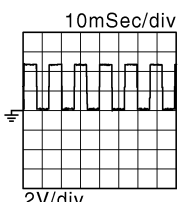
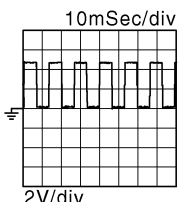
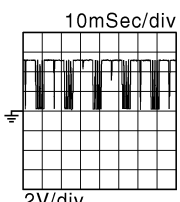


PHYSICAL VALUES

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

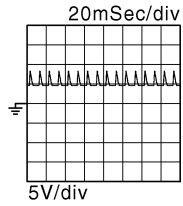
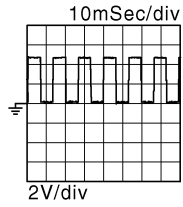
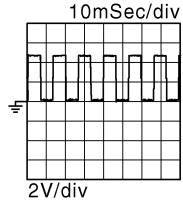
[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx)
+	-	Signal name	Input/ Output			
1 (L/W)	Ground	UART communication (RX)	Input	Ignition switch ON		
3 (R/Y)	—	CAN-H	—	—		—
9 (W/G)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	
					Stop	0 or 5
10 (P/B)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	
					Stop	0 or 5
11 (B/R)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
					Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
					Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
					Release	Battery voltage
16 (O)	Ground	Sensor power supply	Output	—		5
17 (Y/R)	Ground	UART communication (TX)	Output	Ignition switch ON		

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx)
+	-	Signal name	Input/ Output			
19 (V)	—	CAN-L	—	—	—	—
21 (L/Y)	Ground	Detention switch	Input	A/T selector lever	P position	0
					Except P position	
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	
					Stop	0 or 5
25 (Y/B)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	
					Stop	0 or 5
26 (Y)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
					Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
					Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
					Release	Battery voltage
31 (GR)	Ground	Sensor ground	—	—	—	0
32 (B/W)	Ground	Ground (signal)	—	—	—	0
33 (R)	Ground	Power source (C/B)	Input	—	—	Battery voltage
35 (W/R)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
					Release	0

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx)
+	-	Signal name	Input/ Output			
36 (G/Y)	Ground	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
					Release	0
37 (G/W)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
					Stop	0
38 (L/Y)	Ground	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
					Stop	0
39 (R/B)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
					Stop	0
40 (R/W)	Ground	Power source (Fuse)	Input	—		Battery voltage
42 (W/B)	Ground	Sliding motor backward output signal	Output	Seat sliding	Operate (backward)	Battery voltage
					Stop	0
44 (P)	Ground	Reclining motor back- ward output signal	Output	Seat reclining	Operate (backward)	Battery voltage
					Stop	0
45 (L/R)	Ground	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
					Stop	0
48 (B)	Ground	Ground (power)	—	—		0

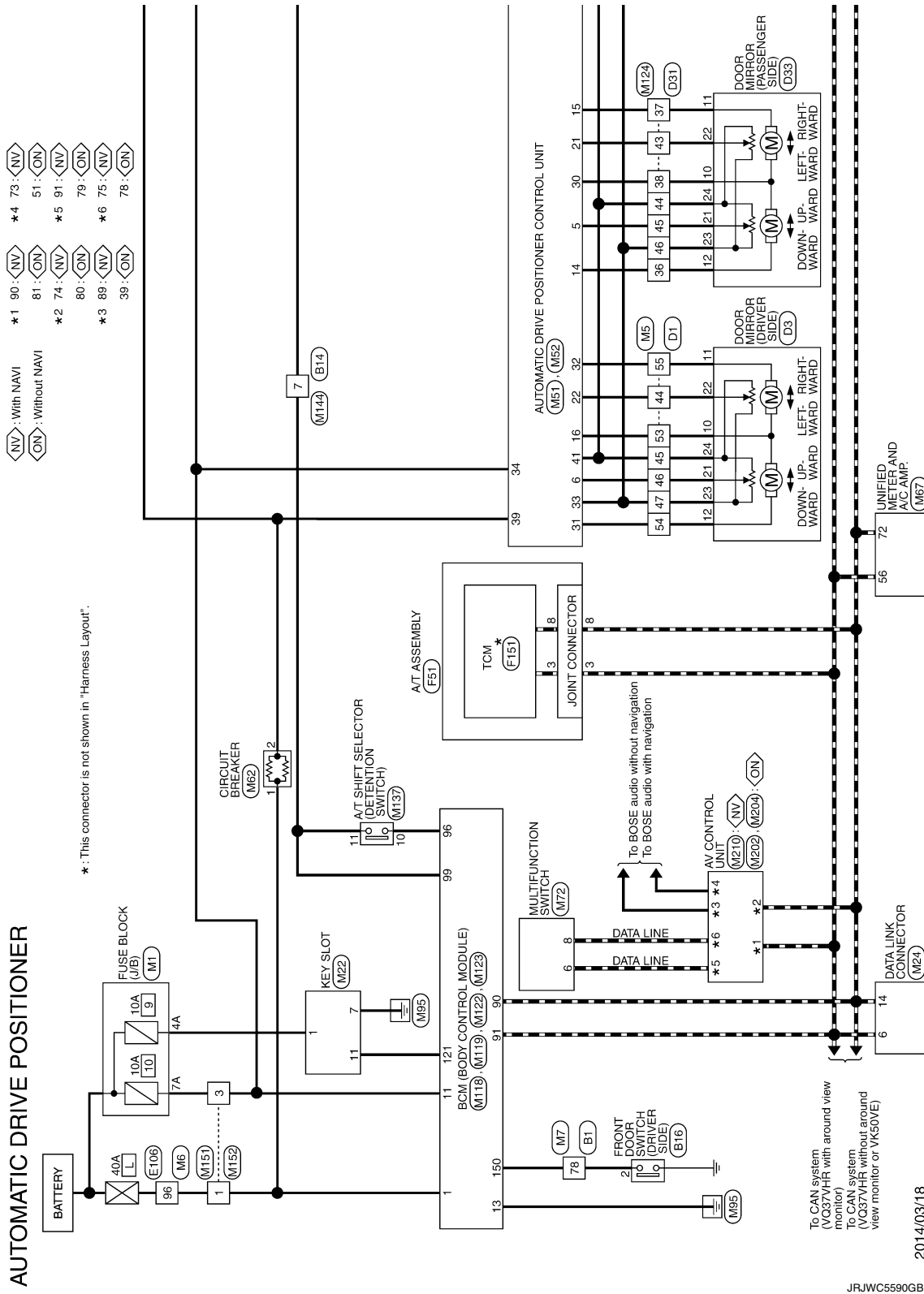
DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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[WITH ADP]

Wiring Diagram: Automatic Drive Positioner Control Unit (M51)

The diagram illustrates the electrical connections for the Automatic Drive Positioner Control Unit (M51). The unit is connected to a Data Line and a Power Line. The internal components and their connections are as follows:

- Inputs/Outputs:**
 - Pin 1: Tilt & Telescopic Sensor (M43)
 - Pin 2: Tilt & Telescopic Sensor (M43)
 - Pin 3: Tilt & Telescopic Motor (M49)
 - Pin 4: Tilt & Telescopic Motor (M49)
 - Pin 5: Tilt & Telescopic Switch (M31)
 - Pin 6: Tilt & Telescopic Switch (M31)
 - Pin 7: Tilt & Telescopic Switch (M31)
 - Pin 8: Tilt & Telescopic Switch (M31)
 - Pin 9: Tilt & Telescopic Switch (M31)
 - Pin 10: Tilt & Telescopic Switch (M31)
 - Pin 11: Tilt & Telescopic Switch (M31)
 - Pin 12: Tilt & Telescopic Switch (M31)
 - Pin 13: Tilt & Telescopic Switch (M31)
 - Pin 14: Tilt & Telescopic Switch (M31)
 - Pin 15: Tilt & Telescopic Switch (M31)
 - Pin 16: Tilt & Telescopic Switch (M31)
 - Pin 17: Tilt & Telescopic Switch (M31)
 - Pin 18: Tilt & Telescopic Switch (M31)
 - Pin 19: Tilt & Telescopic Switch (M31)
 - Pin 20: Tilt & Telescopic Switch (M31)
 - Pin 21: Tilt & Telescopic Switch (M31)
 - Pin 22: Tilt & Telescopic Switch (M31)
 - Pin 23: Tilt & Telescopic Switch (M31)
 - Pin 24: Tilt & Telescopic Switch (M31)
 - Pin 25: Tilt & Telescopic Switch (M31)
 - Pin 26: Tilt & Telescopic Switch (M31)
 - Pin 27: Tilt & Telescopic Switch (M31)
 - Pin 28: Tilt & Telescopic Switch (M31)
 - Pin 29: Tilt & Telescopic Switch (M31)
 - Pin 30: Tilt & Telescopic Switch (M31)
 - Pin 31: Tilt & Telescopic Switch (M31)
 - Pin 32: Tilt & Telescopic Switch (M31)
 - Pin 33: Tilt & Telescopic Switch (M31)
 - Pin 34: Tilt & Telescopic Switch (M31)
 - Pin 35: Tilt & Telescopic Switch (M31)
 - Pin 36: Tilt & Telescopic Switch (M31)
 - Pin 37: Tilt & Telescopic Switch (M31)
 - Pin 38: Tilt & Telescopic Switch (M31)
 - Pin 39: Tilt & Telescopic Switch (M31)
 - Pin 40: Tilt & Telescopic Switch (M31)
 - Pin 41: Tilt & Telescopic Switch (M31)
 - Pin 42: Tilt & Telescopic Switch (M31)
 - Pin 43: Tilt & Telescopic Switch (M31)
 - Pin 44: Tilt & Telescopic Switch (M31)
 - Pin 45: Tilt & Telescopic Switch (M31)
 - Pin 46: Tilt & Telescopic Switch (M31)
 - Pin 47: Tilt & Telescopic Switch (M31)
 - Pin 48: Tilt & Telescopic Switch (M31)
 - Pin 49: Tilt & Telescopic Switch (M31)
 - Pin 50: Tilt & Telescopic Switch (M31)
- Internal Components:**
 - Memory Indicator-1** and **Memory Indicator-2**: Indicators for memory settings.
 - Set Switch**: A switch for setting memory.
 - Memory Switch-1** and **Memory Switch-2**: Switches for memory selection.
 - Seat Memory Switch (D5)**: A switch for seat memory.
 - Door Mirror Remote Control Switch (M26)**: A switch for door mirror remote control.
 - Tilt & Telescopic Switch (M31)**: A switch for tilt and telescopic functions.
 - Tilt & Telescopic Motor (M49)**: A motor for tilt and telescopic functions.
 - Tilt & Telescopic Sensor (M43)**: A sensor for tilt and telescopic functions.

The diagram is labeled "AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M51)" and includes a "DATA LINE" and "POWER LINE" label.

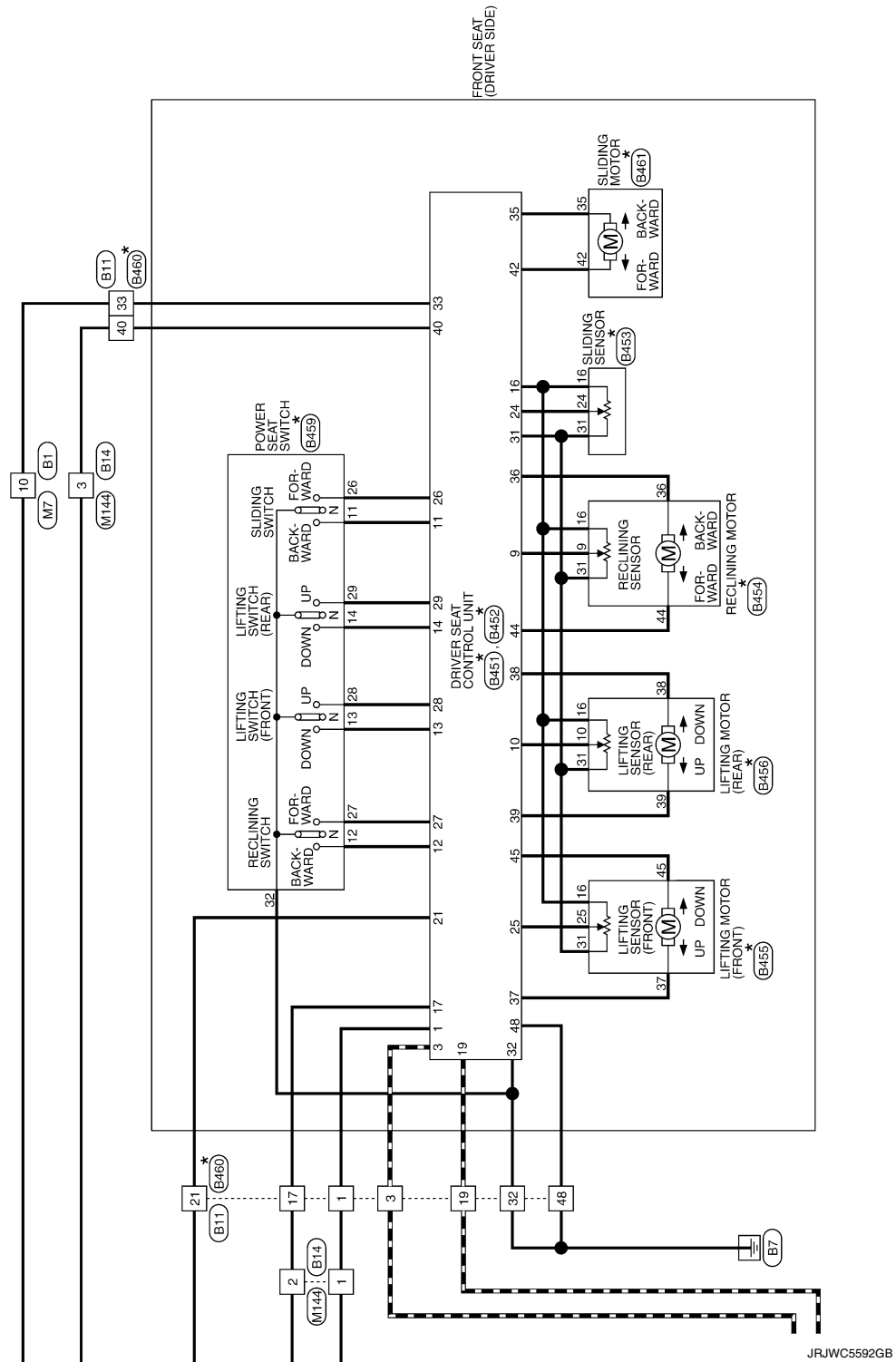
JRJWC5591GB

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

★: This connector is not shown in "Harness Layout".



DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

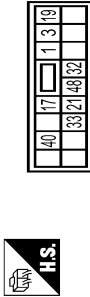
AUTOMATIC DRIVE POSITIONER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8/FW-CS16-TM4



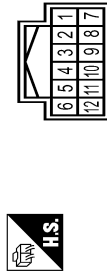
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	B	-
7	P	-
8	B	-
9	SB	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	B	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	L	-
17	LG	-
19	P	-
29	Y	-
32	B	-
33	SB	-
40	R	-
48	B	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH2FW-NH



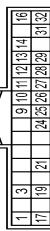
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	LG	-
3	R	-
5	W	-
6	R	-
7	Y	-
11	SHIELD	-
12	B	- [Without around view monitor]
12	W	- [With around view monitor]

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH2FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CAN-H
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX
19	V	CAN-L
21	LY	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (RR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS



33	35	36	37	38	39
40	42	44	45	46	48

Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	BAT (G/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	G/Y	RECLINING MOTOR (FORWARD)
37	G/W	FRONT LIFTING MOTOR (DOWNWARD)
38	L/Y	REAR LIFTING MOTOR (UPWARD)
39	R/B	REAR LIFTING MOTOR (DOWNWARD)
40	R/W	BAT (FUSE)
42	W/B	SLIDING MOTOR (BACKWARD)
44	P	RECLINING MOTOR (BACKWARD)
45	L/R	FRONT LIFTING MOTOR (UPWARD)
48	B	GND (POWER)

Connector No.	B453
Connector Name	SLIDING SENSOR
Connector Type	6098-0241



24	31	16
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Terminal No.	Color Of Wire	Signal Name [Specification]
16	O	-
24	R	-
31	GR	-

Connector No.	B454
Connector Name	RECLINING MOTOR
Connector Type	NS06FW-CS



36	38	44
16	31	9

Terminal No.	Color Of Wire	Signal Name [Specification]
9	W/G	-
16	O	-
31	GR	-
36	G/Y	-
44	P	-

Connector No.	B455
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS06FW-CS



45		37
16	31	25

Terminal No.	Color Of Wire	Signal Name [Specification]
16	O	-
25	Y/B	-
31	GR	-
37	G/W	-
45	L/R	-

Connector No.	B456
Connector Name	LIFTING MOTOR (REAR)
Connector Type	NS06FBR-CS



33	38	39
16	31	10

Terminal No.	Color Of Wire	Signal Name [Specification]
10	P/B	-
16	O	-
31	GR	-
38	L/Y	-
39	R/B	-

Connector No.	B459
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS



	32		14	29	
12	27	11	26	13	28

Terminal No.	Color Of Wire	Signal Name [Specification]
11	BR	-
12	SB	-
13	L/G/R	-
14	G/B	-
26	Y	-
27	R/G	-
28	W/B	-
29	P/L	-
32	B/W	-

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC



19	3	1		17	40
				32	48
				21	33

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
3	R/Y	-
17	Y/R	-
19	V	-
21	L/Y	-
32	B/W	-
33	R	-
40	R/W	-
48	B	-

Connector No.	B461
Connector Name	SLIDING MOTOR
Connector Type	6098-0239



35	42
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Terminal No.	Color Of Wire	Signal Name [Specification]
35	W/R	-
42	W/B	-

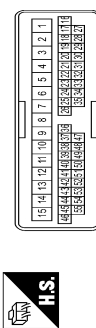
DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

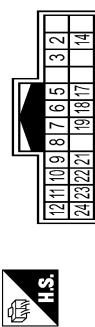
Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	G	-
6	GR	-
7	W	-
8	SB	-
9	BR	-
10	O	-
11	R	-
12	LG	-
13	Y	-
14	P	-
15	L	-
20	V	-
21	Y	-
22	GR	-
23	SB	-
24	LG	-
26	G	-
27	V	-
28	P	-
29	Y	-
30	LG	-
31	O	-
32	BR	-
33	L	-
34	GR	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	BR	-

45	V	-
46	P	-
47	W	-
48	GR	-
49	R	-
50	B	-
51	SB	-
52	L	-
53	G	-
54	O	-
55	GR	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



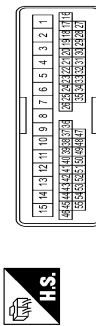
Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	W	-
5	G	-
6	R	-
7	GR	-
8	SB	-
9	L	-
10	G	-
11	GR	-
12	O	-
14	B	-
17	SHIELD	-
18	B	-
19	B	-
21	P	-
22	BR	-
23	W	-
24	V	-

Connector No.	D5
Connector Name	SEAT MEMORY SWITCH
Connector Type	JA08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	BR	-
3	GR	-
4	B	-
5	Y	-
6	O	-
7	LG	-

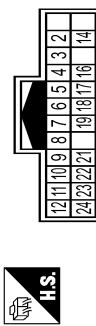
Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
4	L	-
5	W	-
6	P	-
7	G	-
8	R	-
9	LG	-
13	B	-
14	V	-
15	Y	-
19	G	-
20	LG	-
22	W	-

23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	LG	-
32	R	-
33	SB	-
34	Y	-
35	GR	-
36	O	-
37	GR	-
38	G	-
39	O	-
40	Y	-
41	L	-
42	O	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	R	-
48	G	-
49	SHIELD	-

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	-
3	W	-
4	LG	-
5	G	-
6	R	-
7	LG	-
8	O	-
9	L	-
10	G	-
11	GR	-
12	O	-

DRIVER SEAT CONTROL UNIT

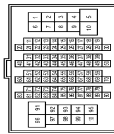
< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

Terminal No.	Color	Wire	Signal Name [Specification]
14	O	-	- [With ICC]
16	G	-	- [Without ICC]
17	SHIELD	-	- [Without ICC]
18	B	-	- [With ICC]
19	B	-	-
21	P	-	-
22	BR	-	-
23	W	-	-
24	V	-	-

Connector No.	Wire	Signal Name [Specification]
E106	-	-
WIRE TO WIRE	-	-
TH80FM-CS16-TM4	-	-



Terminal No.	Color	Wire	Signal Name [Specification]
1	G	-	-
2	BG	-	-
3	SB	-	-
4	LG	-	-
5	Y	-	-
6	W	-	-
7	G	-	-
8	V	-	-
9	R	-	-
10	BR	-	-
11	B	-	-
12	G	-	-
13	R	-	-
14	W	-	-
15	SHIELD	-	-
16	SB	-	-
17	L	-	-
18	P	-	-
19	G	-	- [With ICC]
20	W	-	- [Without ICC]
21	BR	-	- [With ICC]
22	R	-	- [Without ICC]
23	G	-	-

Terminal No.	Color	Wire	Signal Name [Specification]
24	L	-	- [With ICC]
24	P	-	- [Without ICC]
25	L	-	- [With ICC]
26	SHIELD	-	-
28	G	-	-
29	LG	-	-
30	BG	-	-
32	W	-	-
33	Y	-	-
34	BG	-	-
37	Y	-	-
38	GR	-	-
39	LG	-	-
41	LG	-	-
42	V	-	-
43	R	-	-
44	G	-	-
45	GR	-	-
46	W	-	-
47	L	-	-
48	P	-	-
49	SB	-	-
50	BR	-	-
51	B	-	-
52	Y	-	-
53	BG	-	-
54	R	-	-
55	SB	-	-
59	P	-	-
60	SB	-	-
61	V	-	-
62	P	-	-
63	LG	-	-
64	L	-	-
65	BG	-	-
69	L	-	-
70	SHIELD	-	-
71	G	-	-
72	G	-	-
73	R	-	-
74	BR	-	-
76	L	-	-
77	W	-	-
78	Y	-	-
80	SB	-	-
81	L	-	-
82	W	-	-
83	LG	-	-
84	GR	-	-

Terminal No.	Color	Wire	Signal Name [Specification]
85	G	-	-
86	P	-	-
87	W	-	-
88	BG	-	-
89	LG	-	-
90	BR	-	-
91	GR	-	-
92	BR	-	-
93	SB	-	-
95	Y	-	-
96	W	-	-
97	W	-	-
98	SHIELD	-	-
100	Y	-	-

Connector No.	Wire	Signal Name [Specification]
F51	-	-
A/T ASSEMBLY	-	-
RK10FG-DGY	-	-



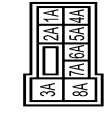
Terminal No.	Color	Wire	Signal Name [Specification]
1	Y	-	-
2	R	-	-
3	L	-	-
4	V	-	-
5	B	-	-
6	Y	-	-
7	R	-	-
8	P	-	-
9	GR	-	-
9	LG	-	-
10	B	-	-

Connector No.	Wire	Signal Name [Specification]
F151	-	-
TCM	-	-
SP10FG	-	-



Terminal No.	Color	Wire	Signal Name [Specification]
1	W	-	-
2	B	-	-
3	R	-	-
4	O	-	-
5	G	-	-
6	GR	-	-
7	L	-	-
8	BR	-	-
9	Y	-	-
10	W/B	-	-

Connector No.	Wire	Signal Name [Specification]
M1	-	-
FUSE BLOCK (J/B)	-	-
NS08FM-M2	-	-



Terminal No.	Color	Wire	Signal Name [Specification]
1A	BG	-	-
2A	G	-	-
3A	L	-	-
4A	R	-	-
5A	V	-	-
6A	Y	-	-
7A	R	-	-
8A	L	-	-

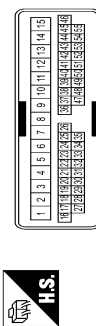
DRIVER SEAT CONTROL UNIT

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[WITH ADP]

AUTOMATIC DRIVE POSITIONER

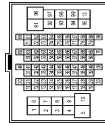
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	SB	-
6	R	-
7	W	-
8	G	-
9	L	-
10	BG	-
11	G	-
12	V	-
13	Y	-
14	P	-
15	L	-
20	BG	-
21	LG	-
22	V	-
23	Y	-
24	P	-
26	SB	-
27	V	-
28	LG	-
29	R	-
30	P	-
31	BG	-
32	SB	-
33	L	-
34	R	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	G	-

45	Y	-
46	GR	-
47	W	-
48	L	-
49	R	-
50	BG	-
51	SB	-
52	R	-
53	Y	-
54	LG	-
55	L	-

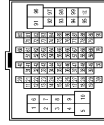
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
3	SB	- [With Auto aircon seat]
4	LG	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
20	W	- [With ICC]
21	BR	- [With ICC]

21	R	- [Without ICC]
22	L	- [Without ICC]
22	R	- [With ICC]
23	G	-
24	L	- [With ICC]
24	P	- [Without ICC]
25	W	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	GR	-
29	V	-
30	BG	-
32	W	-
33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
65	V	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
1	Y	- [Without Auto aircon seat]
2	B	-
3	W	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-

DRIVER SEAT CONTROL UNIT

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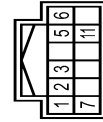
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AUTOMATIC DRIVE POSITIONER

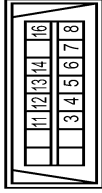
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-
45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	V	-
56	SHIELD	-
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-

87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	THK2FM-HH



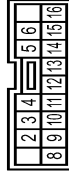
Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GROUND
11	BR	KEY SWITCH SIGNAL

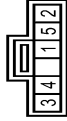
Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	LG	-
4	BR	-
5	V	-
6	G	-
8	SB	-
9	LG	-
10	R	-
11	P	-

12	G	-
13	B	-
14	SB	-
15	BG	-
16	W	-

Connector No.	M31
Connector Name	TILT & TELESCOPIC SWITCH
Connector Type	TK08FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	G	-
4	Y	-
5	W	-

Connector No.	M48
Connector Name	TILT & TELESCOPIC SENSOR
Connector Type	TK04FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	LG	-
4	Y	-

JRJWC5598GB

A
B
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MIR

DRIVER SEAT CONTROL UNIT

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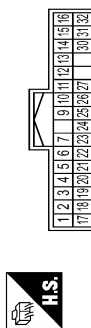
AUTOMATIC DRIVE POSITIONER

Connector No.	M49
Connector Name	TIPT & TELESCOPIC MOTOR
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	GR	-
3	BG	-
4	L	-

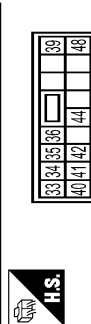
Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH02FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	TIPT SW (UPWARD)
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
7	LG	TIPT SENSOR ADDRESS1
9	L	TX (UART)
10	V	TELESCOPIC SW (FRONTWARD)
11	SB	IND1
12	BG	IND2
13	P	MIRROR MOTOR (RH VERTICAL)
14	BG	MIRROR MOTOR (RH HORIZONTAL)
15	GR	MIRROR MOTOR (LH COMMON)
16	Y	MIRROR MOTOR (LH COMMON)
17	W	TIPT SW (DOWNWARD)

18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)
20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
23	P	TELESCOPIC SENSOR SET SW
24	R	ADDRESS2
25	SB	RX (UART)
26	Y	TELESCOPIC SW (BACKWARD)
27	G	MIRROR MOTOR (RH COMMON)
30	R	MIRROR MOTOR (LH VERTICAL)
31	LG	MIRROR MOTOR (LH HORIZONTAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TIPT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND (SIGNAL)
41	Y	GND (SENSOR)
42	BG	TIPT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND (POWER)

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-PLC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-

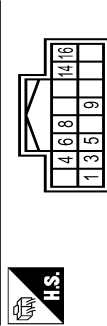
Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH02FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL

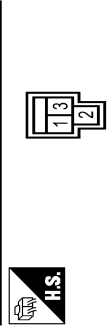
65	BG	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	R	ILL
5	R	ILL CONT
6	SB	AY COMM (H)
8	LG	AY COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
16	G	HAZARD ON

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (PAD)

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



4	5	7	8	9	10
11	13	15	17	18	19

Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAME)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	V	STEER LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

Connector No.	M122
---------------	------

Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



11	12	13	14	15	16
17	18	19	20	21	22

Terminal No.	Color Of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT-
79	BR	ROOM ANT+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP

82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
---------------	------

Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



11	12	13	14	15	16
17	18	19	20	21	22

Terminal No.	Color Of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	P	OPTICAL SENSOR
116	BR	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	BG	POWER WINDOW SW COMM
134	GR	LOCK IND
137	B	RECEIVER SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT MP
141	G	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5

143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFROSTER RELAY CONT

Connector No.	M124
---------------	------

Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	LG	-
5	SB	-
6	BR	-
7	G	-
8	V	-
9	LG	-
13	B	-
14	BG	-
15	W	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	BG	-
32	Y	-
33	LG	-
34	SB	-
35	V	-
36	BG	-
37	GR	-
38	G	- [Without automatic drive positioner]
38	R	- [With automatic drive positioner]
39	B	-
40	R	-

41	P	-
42	LG	-
43	L	-
44	Y	-
45	R	-
46	W	-
47	Y	-
48	BR	-
49	SHIELD	-

Connector No.	M137
---------------	------

Connector Name	AT SHIFT SELECTOR
Connector Type	TH12FW-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	BG	-
8	SB	-
9	B	-
10	GR	-
11	R	-

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	R	-
5	W	-
6	R	-
7	Y	-
11	SHIELD	-
12	B	- [Without around view monitor]
	W	- [With around view monitor]

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



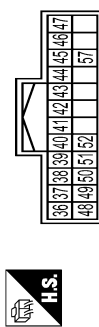
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

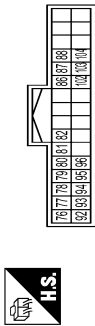
Connector No.	M202
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	LG	SIGNAL GND
38	R	HP
39	BR	COMM (DISP->CONT)
40	B	RGB AREA (YS) SIGNAL
41	SHIELD	SHIELD
42	G	RGB SYNC
43	B	RGB (R-RED) SIGNAL
44	W	RGB (G-GREEN) SIGNAL
45	R	RGB (B-BLUE) SIGNAL
46	BG	COMPOSITE IMAGE SIGNAL GND
47	SB	COMPOSITE IMAGE SIGNAL
48	Y	INVERTER VCC
49	BR	INVERTER GND
50	W	V+
51	Y	COMM (CONT->DISP)
52	SB	SHIELD

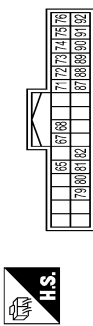
57	SHIELD	SHIELD
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Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH22FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CAN-L
81	L	CAN-H
82	BR	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-)
92	R	VEHICLE SPEED SIGNAL (8-PULSE)
93	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	SB	DISK EJECT SIGNAL
102	B	AUX GND
103	W	AUX AUDIO LH+
104	R	AUX AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH22FW-AH



DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	ADP-45
	Tilt sensor	B2118	ADP-50
	Telescopic sensor	B2119	ADP-53
	Detent switch	B2126	ADP-56
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-58
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-46
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-48

DTC Index

INFOID:000000011046196

CONSULT display	Timing*1		Item	Reference page
	Current mal-function	Previous mal-function		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-45
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-46
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-48
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-50
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-53
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-56
UART COMM [B2128]	0	1-39	UART communication	ADP-58

*1.

- 0: Current malfunction is present
- 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected again, the normal operation is resumed and the ignition switch is turned from OFF to ON.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

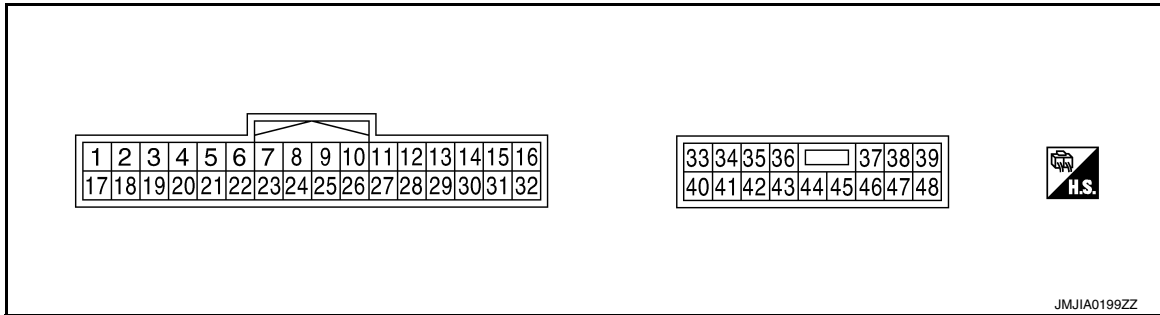
[WITH ADP]

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:0000000011046197

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output			
1 (Y)	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
					Other than above	5
2 (LG)	Ground	Changeover switch RH signal	Input	Changeover switch position	RH	0
					Neutral or LH	5
3 (G)	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
					Other than above	5
4 (V)	Ground	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
					Other than above	5
5 (R)	Ground	Door mirror sensor (RH) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)
6 (GR)	Ground	Door mirror sensor (LH) up/down signal	Input	Door mirror LH position		Change between 3.4 (close to peak) 0.6 (close to valley)
7 (LG)	Ground	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
9 (L)	Ground	Memory switch 1 signal	Input	Memory switch 1	Push	0
					Other than above	5
10 (V)	Ground	UART communication (TX)	Output	Ignition switch ON		2mSec/div 2V/div JMJIA0118ZZ

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output			
11 (SB)	Ground	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
					Other than above	5
12 (BG)	Ground	Memory inductor 1 signal	Output	Memory inductor 1	Illuminate	0
					Other than above	Battery voltage
13 (P)	Ground	Memory inductor 2 signal	Output	Memory inductor 2	Illuminate	0
					Other than above	Battery voltage
14 (BG)	Ground	Door mirror motor (RH) up output signal	Output	Door mirror RH	Operate (up)	Battery voltage
					Other than above	0
15 (GR)	Ground	Door mirror motor (RH) left output signal	Output	Door mirror RH	Operate (left)	Battery voltage
					Other than above	0
16 (Y)	Ground	Door mirror motor (LH) down output signal	Output	Door mirror (LH)	Operate (down)	Battery voltage
					Other than above	0
		Door mirror motor (LH) right output signal			Operate (right)	Battery voltage
					Other than above	0
17 (W)	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
					Other than above	5
18 (P)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH	0
					Neutral or RH	5
19 (SB)	Ground	Mirror switch down signal	Input	Mirror switch	Operate (down)	0
					Other than above	5
20 (BR)	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
					Other than above	5
21 (L)	Ground	Door mirror sensor (RH) left/right signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)
22 (G)	Ground	Door mirror sensor (LH) left/right signal	Input	Door mirror LH position		Change between 0.6 (close to left edge) 3.4 (close to right edge)
23 (P)	Ground	Telescopic sensor signal	Input	Telescopic position		Change between 0.8 (close to top) 3.4 (close to bottom)

A

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D

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G

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I

J

K

MIR

M

N

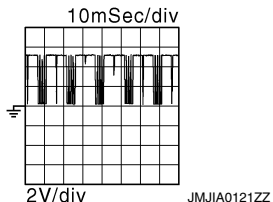
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P

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output			
24 (R)	Ground	Set switch signal	Input	Set switch	Push	0
					Other than above	5
25 (SB)	Ground	Memory switch 2 signal	Input	Memory switch 2	Push	0
					Other than above	5
26 (Y)	Ground	UART communication (RX)	Input	Ignition switch ON		
27 (G)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (backward)	0
					Other than above	5
30 (R)	Ground	Door mirror motor (RH) down output signal	Output	Door mirror (RH)	Operate (down)	Battery voltage
					Other than above	0
		Door mirror motor (RH) right output signal			Operate (right)	Battery voltage
					Other than above	0
31 (LG)	Ground	Door mirror motor (LH) up output signal	Output	Door mirror (LH)	Operate (up)	Battery voltage
					Other than above	0
32 (L)	Ground	Door mirror motor (LH) left output signal	Output	Door mirror (LH)	Operate (left)	Battery voltage
					Other than above	0
33 (W)	Ground	Sensor power supply	Input	—		5
34 (R)	Ground	Power source (Fuse)	Input	—		Battery voltage
35 (L)	Ground	Tilt motor up output signal	Output	Steering tilt	Operate (up)	Battery voltage
					Other than above	0
36 (GR)	Ground	Telescopic motor forward output signal	Output	Steering telescopic	Operate (forward)	Battery voltage
					Other than above	0
39 (W)	Ground	Power source (C/B)		—		Battery voltage
40 (B)	Ground	Ground	—	—		0

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output			
41 (Y)	Ground	Sensor ground	—	—		0
42 (BG)	Ground	Tilt motor down output signal	Output	Steering tilt	Operate (down)	Battery voltage
					Other than above	0
44 (G)	Ground	Telescopic motor backward output signal	Output	Steering telescopic	Operate (backward)	Battery voltage
					Other than above	0
48 (B)	Ground	Ground	—	—		0

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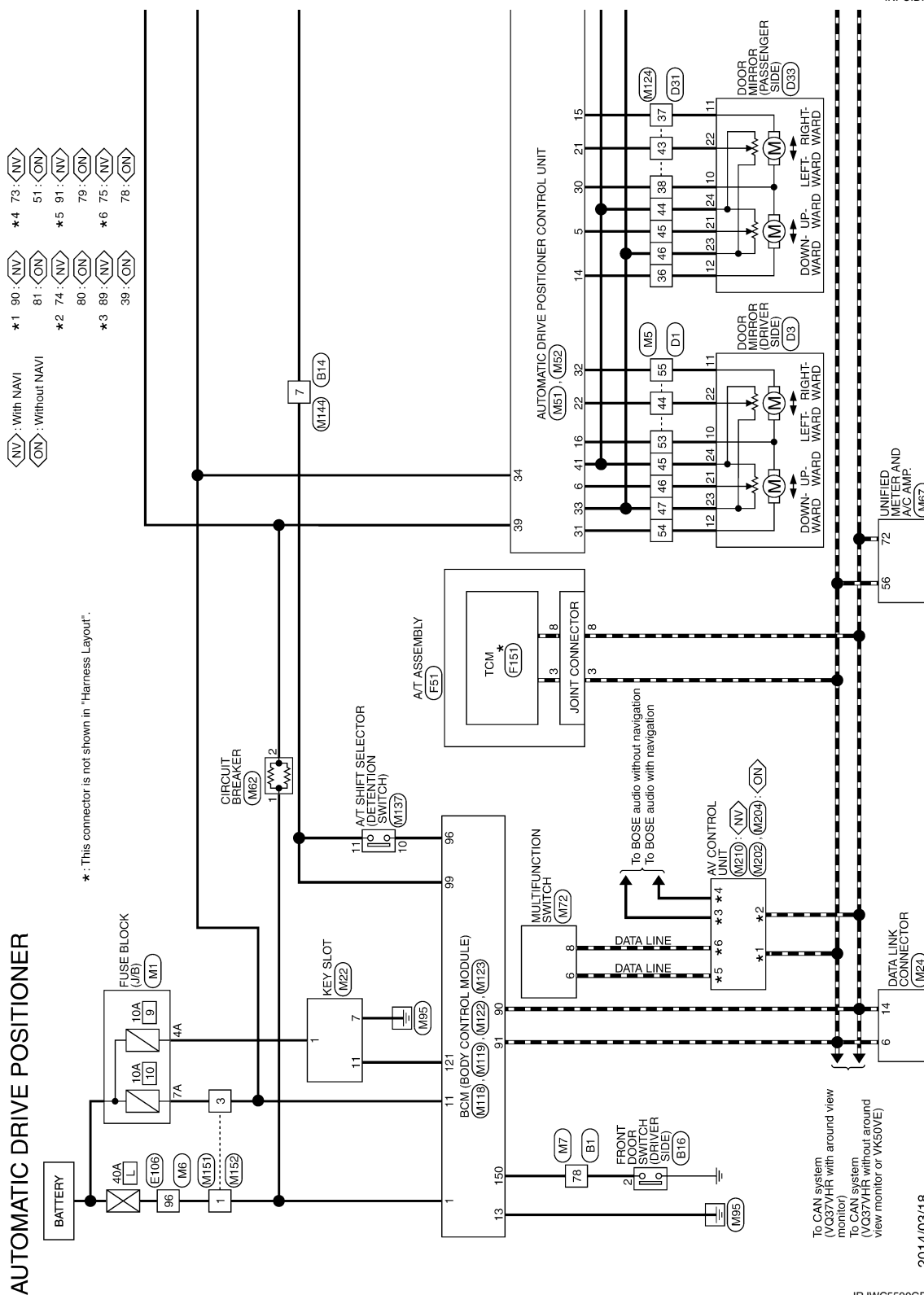
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[WITH ADP]

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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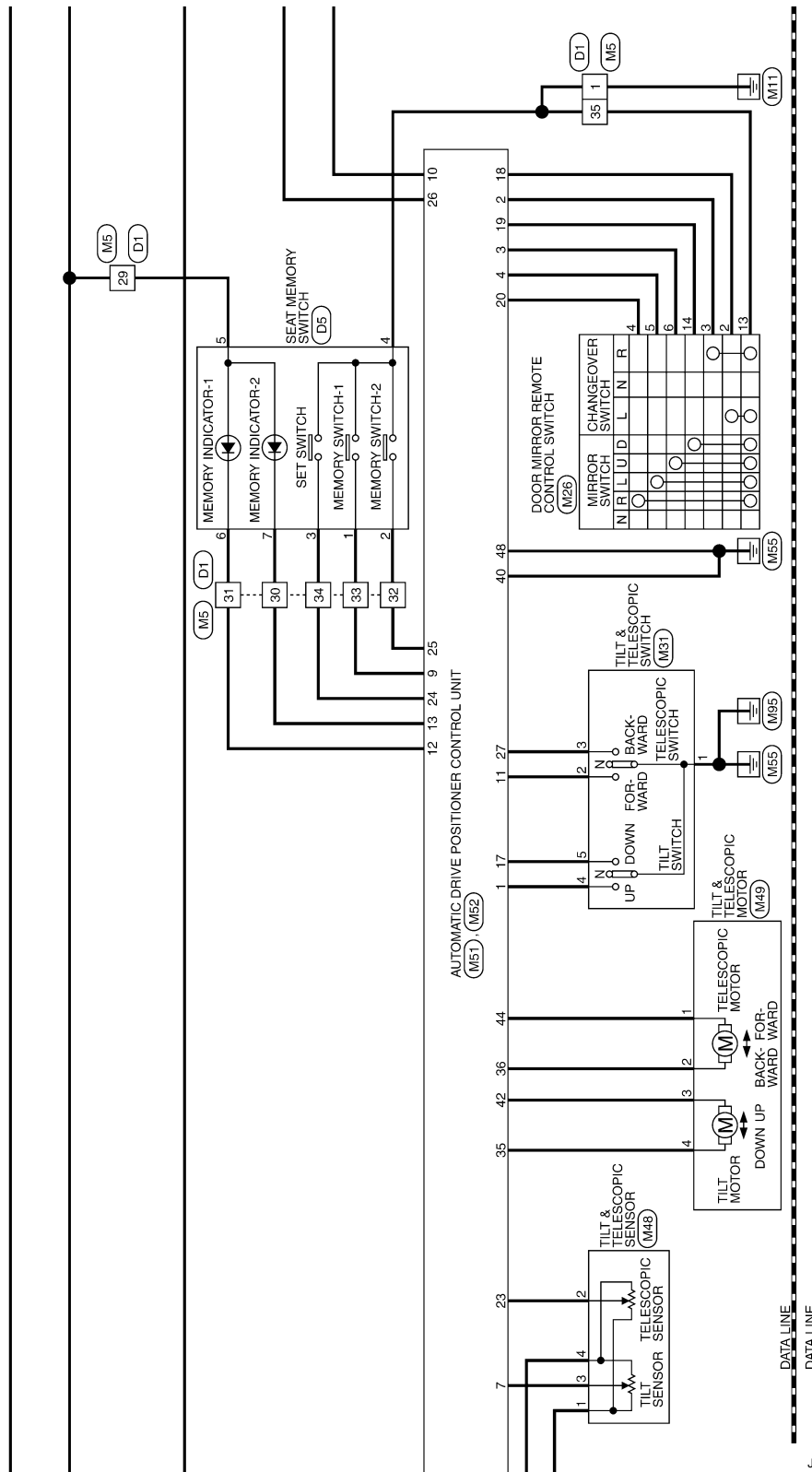
JRJWC5590GB

2014/03/18

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]



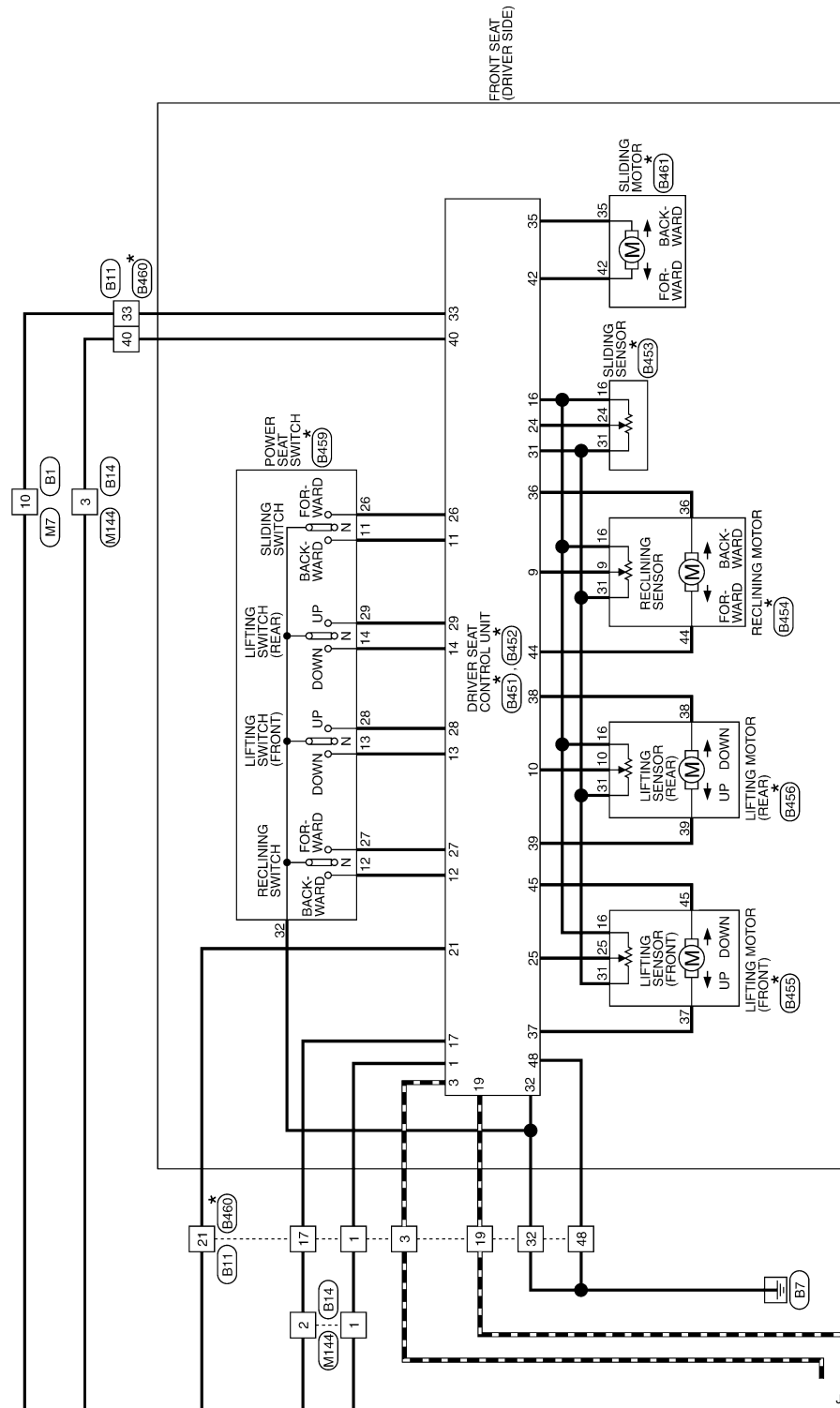
JRJC5591GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

*: This connector is not shown in "Harness Layout".



JRJC5592GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

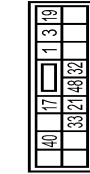
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	B	-
7	SB	-
8	GR	-
9	W	-
10	B	-
11	G	-
12	R	-
13	L	-
14	P	-
15	SHIELD	-
16	L	-
17	P	-
18	G	-
19	Y	-
20	W	-
21	V	-
22	P	-
23	BR	-
24	GR	-
25	B	-
26	W	-
27	GR	-
28	W	-
29	B	-
30	SB	-
31	V	-
32	GR	-
33	W	-
34	Y	-
35	SHIELD	-
36	SHIELD	-

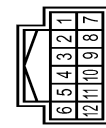
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	B	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	B	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
90	R	-
91	B	-
92	GR	-
93	BR	-
94	V	-
95	B	-
96	GR	-
97	W	-
98	GR	-
99	W	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	B	-
7	SB	-
8	GR	-
9	W	-
10	B	-
11	G	-
12	R	-
13	L	-
14	P	-
15	SHIELD	-
16	L	-
17	P	-
18	G	-
19	Y	-
20	W	-
21	V	-
22	P	-
23	BR	-
24	GR	-
25	B	-
26	W	-
27	GR	-
28	W	-
29	B	-
30	SB	-
31	V	-
32	GR	-
33	W	-
34	Y	-
35	SHIELD	-
36	SHIELD	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



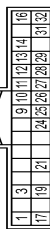
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	LG	-
3	R	-
4	W	-
5	Y	-
6	V	-
7	SHIELD	-
8	B	-
9	W	-
10	GR	-
11	SHIELD	-
12	W	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	GR	-

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	RX
2	R/Y	CAN-H
3	W/G	PULSE (RECLINING)
4	P/B	PULSE (RR LIFTING)
5	BR	SLIDING SW (BACKWARD)
6	SB	RECLINING SW (BACKWARD)
7	LG/R	FRONT LIFTING SW (DOWNWARD)
8	G/B	REAR LIFTING SW (DOWNWARD)
9	O	VCC
10	Y/R	TX
11	V	CAN-L
12	LY	P RANGE SW
13	R	PULSE (SLIDING)
14	Y/B	PULSE (RR LIFTING)
15	V	SLIDING SW (FORWARD)
16	R/G	RECLINING SW (FORWARD)
17	W/B	FRONT LIFTING SW (UPWARD)
18	P/L	REAR LIFTING SW (UPWARD)

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS



33	35	36	37	38	39
40	42	44	45	46	48

Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	BAT (G/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	G/Y	RECLINING MOTOR (FORWARD)
37	G/W	FRONT LIFTING MOTOR (DOWNWARD)
38	L/Y	REAR LIFTING MOTOR (UPWARD)
39	R/B	REAR LIFTING MOTOR (DOWNWARD)
40	R/W	BAT (FUSE)
42	W/B	SLIDING MOTOR (BACKWARD)
44	P	RECLINING MOTOR (BACKWARD)
45	L/R	FRONT LIFTING MOTOR (UPWARD)
48	B	GND (POWER)

Connector No.	B453
Connector Name	SLIDING SENSOR
Connector Type	6098-0241



24	31	16
----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
16	O	-
24	R	-
31	GR	-

Connector No.	B454
Connector Name	RECLINING MOTOR
Connector Type	NS08FW-CS



36	38	44
16	31	9

Terminal No.	Color Of Wire	Signal Name [Specification]
9	W/G	-
16	O	-
31	GR	-
36	G/Y	-
44	P	-

Connector No.	B455
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS08FW-CS



45	37
16	31

Terminal No.	Color Of Wire	Signal Name [Specification]
16	O	-
25	Y/B	-
31	GR	-
37	G/W	-
45	L/R	-

Connector No.	B456
Connector Name	LIFTING MOTOR (REAR)
Connector Type	NS08FRC-CS



38	39
16	31

Terminal No.	Color Of Wire	Signal Name [Specification]
10	P/B	-
16	O	-
31	GR	-
38	L/Y	-
39	R/B	-

Connector No.	B459
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS



32	14	29
12	27	11

Terminal No.	Color Of Wire	Signal Name [Specification]
11	BR	-
12	SB	-
13	LG/R	-
14	G/B	-
26	Y	-
27	R/G	-
28	W/B	-
29	P/L	-
32	B/W	-

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC



19	3	1
32	48	21

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
3	R/Y	-
17	Y/R	-
19	V	-
24	L/Y	-
32	B/W	-
33	R	-
40	R/W	-
48	B	-

Connector No.	B461
Connector Name	SLIDING MOTOR
Connector Type	6098-0239



35	42
----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
35	W/R	-
42	W/B	-

[WITH ADP]

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	W	-
4	LG	-
5	G	-
6	R	-
7	LG	-
8	O	-
9	L	-
10	G	-
11	GR	-
12	Y	-

2015 QX70

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

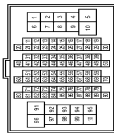
< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

14	O	-
16	G	-
17	SHIELD	-
18	B	-
19	B	-
21	P	-
22	BR	-
23	W	-
24	V	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-GS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	SB	-
4	LG	-
5	Y	-
6	W	-
7	G	-
8	V	-
9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	SB	-
17	L	-
18	P	-
19	G	-
20	W	- [With ICC]
21	Y	- [Without ICC]
22	BR	-
23	R	- [With ICC]
24	V	- [Without ICC]

24	L	- [With ICC]
24	P	- [Without ICC]
25	L	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	G	-
29	LG	-
30	BR	-
32	W	-
33	Y	-
34	B	-
37	Y	-
38	GR	-
39	LG	-
41	LG	-
42	V	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	SB	-
50	BR	-
51	B	-
52	Y	-
53	B	-
54	R	-
55	SB	-
59	P	-
60	SB	-
61	V	-
62	P	-
63	LG	-
64	L	-
65	B	-
69	L	-
70	SHIELD	-
71	G	-
72	G	-
73	R	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-

85	G	-
86	P	-
87	W	-
88	B	-
89	LG	-
90	BR	-
91	GR	-
92	BR	-
93	SB	-
95	Y	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



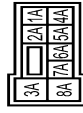
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	R	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CAN-H
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY [With VQ engine]
10	B	STARTER RELAY [With VK engine]
		GROUND

Connector No.	F151
Connector Name	TCM
Connector Type	SP10FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	CAN-H
4	O	K-LINE
5	G	GROUND
6	GR	IGNITION POWER SUPPLY
7	L	BACK-UP LAMP RELAY
8	BR	CAN-L
9	Y	STARTER RELAY
10	WB	GROUND

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	B	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

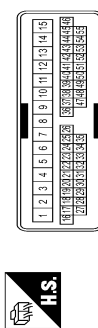
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

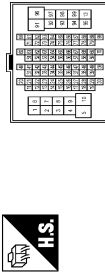
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	R	-
4	W	-
5	G	-
6	L	-
7	BG	-
8	W	-
9	G	-
10	SB	-
11	V	-
12	Y	-
13	P	-
14	L	-
15	B	-
16	SB	-
17	R	-
18	W	-
19	G	-
20	L	-
21	BG	-
22	W	-
23	G	-
24	SB	-
25	R	-
26	W	-
27	G	-
28	SB	-
29	R	-
30	P	-
31	BG	-
32	SB	-
33	L	-
34	R	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	G	-

45	Y	-
46	GR	-
47	W	-
48	L	-
49	R	-
50	BG	-
51	SB	-
52	R	-
53	Y	-
54	LG	-
55	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4

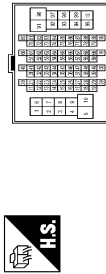


Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	-
4	SB	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	-
21	BR	-

21	R	-
22	L	-
23	G	-
24	P	-
25	W	-
26	SHIELD	-
27	Y	-
28	GR	-
29	V	-
30	BG	-
31	W	-
32	Y	-
33	L	-
34	G	-
35	R	-
36	SB	-
37	G	-
38	R	-
39	G	-
40	L	-
41	W	-
42	R	-
43	LG	-
44	GR	-
45	W	-
46	L	-
47	P	-
48	BG	-
49	SB	-
50	SB	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
56	SB	-
57	SB	-
58	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
66	V	-
67	W	-
68	SHIELD	-
69	W	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
75	V	-
76	W	-
77	Y	-
78	L	-
79	W	-
80	BG	-

81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-
94	G	-
95	W	-
96	W	-
97	W	-
98	SHIELD	-
99	Y	-
100	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	B	-
4	W	-
5	P	-
6	P	-
7	V	-
8	BG	-
9	W	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	R	-
16	SHIELD	-
17	L	-
18	P	-

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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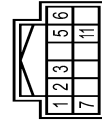
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AUTOMATIC DRIVE POSITIONER

19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-
45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	V	-
56	SHIELD	-
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-

87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FH-NH



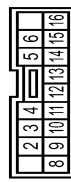
Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GROUND
11	BR	KEY SWITCH SIGNAL

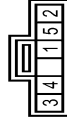
Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	LG	-
4	BR	-
5	V	-
6	G	-
8	SB	-
9	LG	-
10	R	-
11	P	-

12	G	-
13	B	-
14	SB	-
15	BG	-
16	W	-

Connector No.	M31
Connector Name	TILT & TELESCOPIC SWITCH
Connector Type	TK06FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	G	-
4	Y	-
5	W	-

Connector No.	M48
Connector Name	TILT & TELESCOPIC SENSOR
Connector Type	TK04FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	LG	-
4	Y	-

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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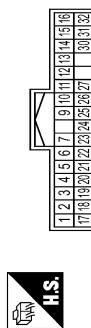
AUTOMATIC DRIVE POSITIONER

Connector No.	M49
Connector Name	TILT & TELESCOPIC MOTOR
Connector Type	NSM4FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	GR	-
3	BG	-
4	L	-

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH22FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	TILT SW (UPWARD)
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
7	LG	TILT SENSOR
9	L	ADDRESS1
10	V	TX (UART)
11	SB	TELESCOPIC SW (FRONTWARD)
12	BG	IND1
13	P	IND2
14	BG	MIRROR MOTOR (RH VERTICAL)
15	GR	MIRROR MOTOR (RH HORIZONTAL)
16	Y	MIRROR MOTOR (LH COMMON)
17	W	TILT SW (DOWNWARD)

18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)
20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
23	P	TELESCOPIC SENSOR
24	R	SET SW
25	SB	ADDRESS2
26	Y	RX (UART)
27	G	TELESCOPIC SW (BACKWARD)
30	R	MIRROR MOTOR (RH COMMON)
31	LG	MIRROR MOTOR (LH VERTICAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND (SIGNAL)
41	Y	GND (SENSOR)
42	BG	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND (POWER)

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-PLC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-

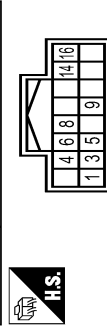
Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH22FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CANH
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL

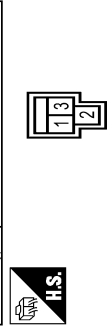
65	BG	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	R	ILL
5	R	ILL CONT
6	SB	AY COMM (H)
8	LG	AY COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
16	G	HAZARD ON

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (PAD)

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



4	5	7	8	9	10
11	13	15	17	18	19

Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



11	12	13	14	15	16
17	18	19	20	21	22

Terminal No.	Color Of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP

82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



11	12	13	14	15	16
17	18	19	20	21	22

Terminal No.	Color Of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	P	OPTICAL SENSOR
116	BR	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	BG	POWER WINDOW SW COMM
134	GR	LOCK IND
137	B	RECEIVER SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT UP
141	G	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5

143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	GR	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	LG	-
5	SB	-
6	BR	-
7	G	-
8	V	-
9	LG	-
13	B	-
14	BG	-
15	W	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	BG	-
32	Y	-
33	LG	-
34	SB	-
35	V	-
36	BG	-
37	GR	-
38	G	- [Without automatic drive positioner]
39	R	- [With automatic drive positioner]
40	R	-

41	P	-
42	LG	-
43	L	-
44	Y	-
45	R	-
46	W	-
47	Y	-
48	BR	-
49	SHIELD	-

Connector No.	M137
Connector Name	AT SHIFT SELECTOR
Connector Type	TH12FW-NH



1	2	3	4	5
7	8	9	10	11

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	BG	-
8	SB	-
9	B	-
10	GR	-
11	R	-

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

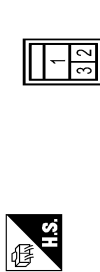
AUTOMATIC DRIVE POSITIONER

Connector No.	M144
Connector Name	WIPE TO WIRE
Connector Type	TH12MW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	R	-
4	W	-
5	W	-
6	R	-
7	Y	-
11	SHIELD	-
12	B	- [Without around view monitor]
12	W	- [With around view monitor]

Connector No.	M151
Connector Name	WIPE TO WIRE
Connector Type	M03FW-LC



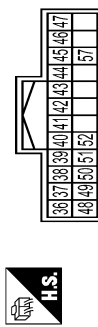
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIPE TO WIRE
Connector Type	M03MM-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

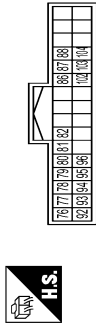
Connector No.	M202
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	LG	SIGNAL GND
38	R	HP
39	BR	COMM (DISP->CONT)
40	B	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	G	RGB SYNC
43	B	RGB (RRED) SIGNAL
44	W	RGB (G.GREEN) SIGNAL
45	R	RGB (B.BLUE) SIGNAL
46	BG	COMPOSITE IMAGE SIGNAL GND
47	SB	COMPOSITE IMAGE SIGNAL
48	Y	INVERTER VCC
49	BR	INVERTER GND
50	W	V+
51	Y	COMM (CONT->DISP)
52	SB	SHIELD

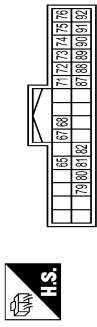
57	SHIELD	SHIELD
----	--------	--------

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CANL
81	L	CANH
82	BR	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-)
92	R	VEHICLE SPEED SIGNAL (8-PULSE)
93	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	SB	DISK EJECT SIGNAL
102	B	AUX GND
103	W	AUX AUDIO LH+
104	R	AUX AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	B	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	G	MICROPHONE VCC
73	R	COMM (CONT->DISP)
74	P	CANL
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
87	R	MICROPHONE SIGNAL
88	B	SHIELD
89	G	COMM (DISP->CONT)
90	L	CANH
91	SB	AV COMM (H)
92	SB	AV COMM (H)

DOOR MIRROR DOES NOT OPERATE

[WITH ADP]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010577292

1.CHECK AUTOMATIC DRIVE POSITIONER SYSTEM

Check door mirror operation with automatic drive positioner system.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check automatic drive positioner system operation. Refer to [ADP-13. "AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram"](#).

2.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH)

Check mirror switch.

Refer to [MIR-11. "MIRROR SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH)

Check changeover switch.

Refer to [MIR-13. "CHANGEOVER SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

NO >> GO TO 1.

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH ADP]

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010577293

1.CHECK DOOR MIRROR (MANUAL FUNCTION)

Check door mirror function with door mirror remote control switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DTC

Check DTC for TCM.

Refer to [TM-64. "CONSULT Function \(TRANSMISSION\)".](#)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident".](#)

NO >> GO TO 1.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

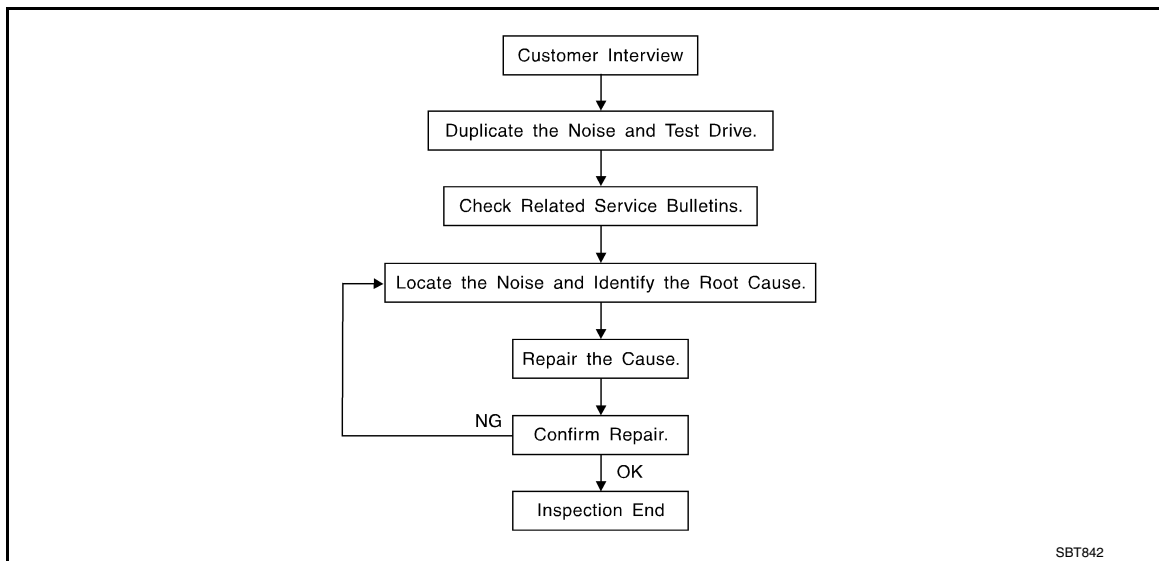
< SYMPTOM DIAGNOSIS >

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000010577294



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to [MIR-68, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH ADP]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - Removing the components in the area that is are suspected to be the cause of the noise.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
 - Placing a piece of paper between components that are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [MIR-66, "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - Separate components by repositioning or loosening and retightening the component, if possible.
 - Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed..

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH ADP]

< SYMPTOM DIAGNOSIS >

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:000000010577295

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.

In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH ADP]

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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Diagnostic Worksheet

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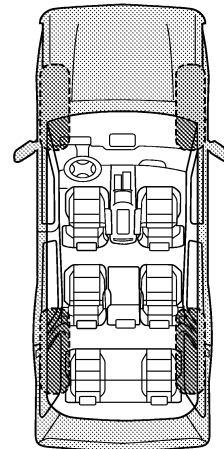
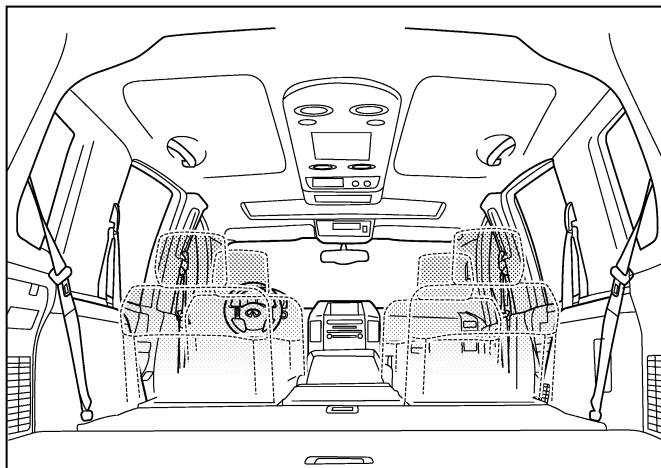
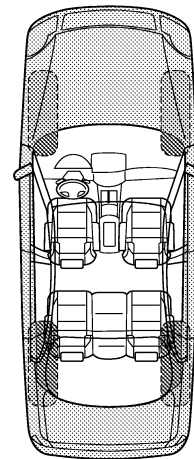
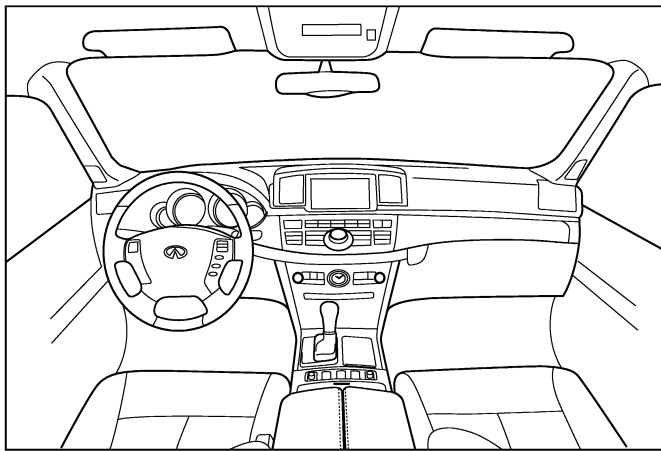
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH ADP]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| ☐ anytime | ☐ after sitting out in the rain |
| ☐ 1st time in the morning | ☐ when it is raining or wet |
| ☐ only when it is cold outside | ☐ dry or dusty conditions |
| ☐ only when it is hot outside | ☐ other: |

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000010577297

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

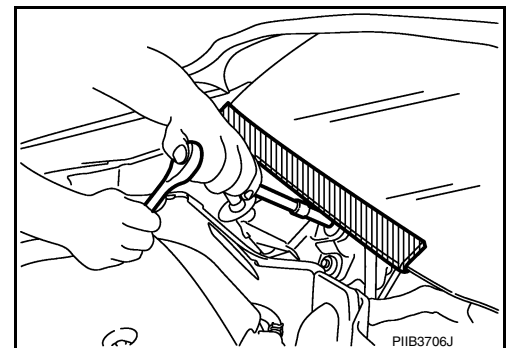
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

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When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



PRECAUTIONS

< PRECAUTION >

[WITH ADP]

Precautions for Removing Battery Terminal

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- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

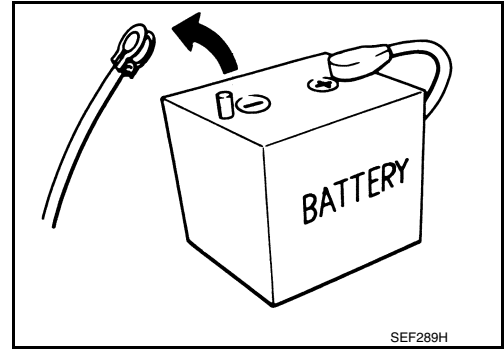
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



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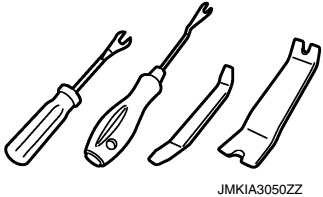
MIR

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000010577299

Tool name	Description
Remover tool  JMK1A3050ZZ	Removes clips, pawls and metal clips

INSIDE MIRROR

< REMOVAL AND INSTALLATION >

[WITH ADP]

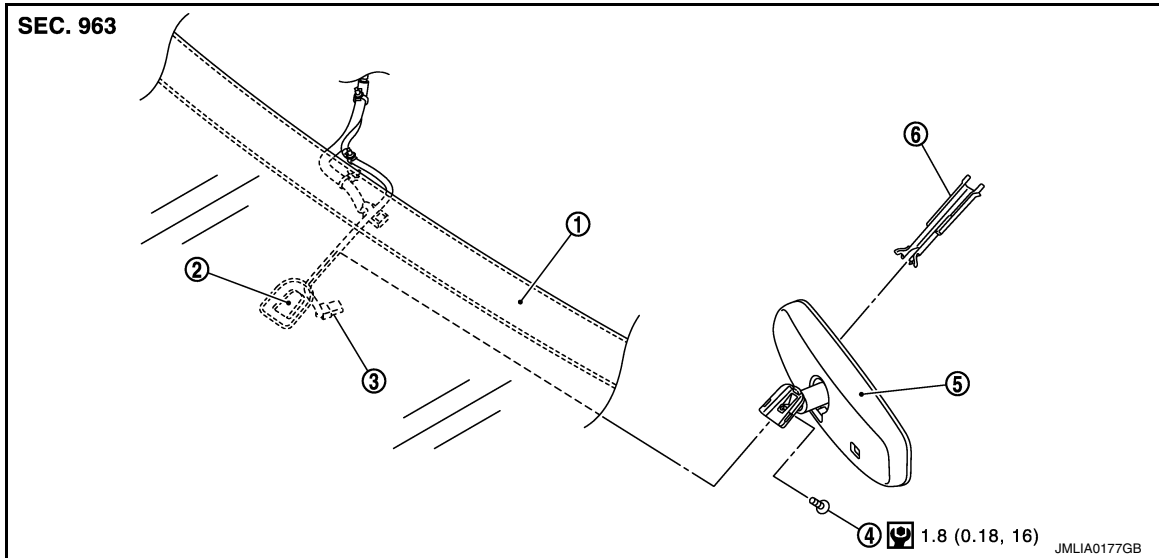
REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

Base model

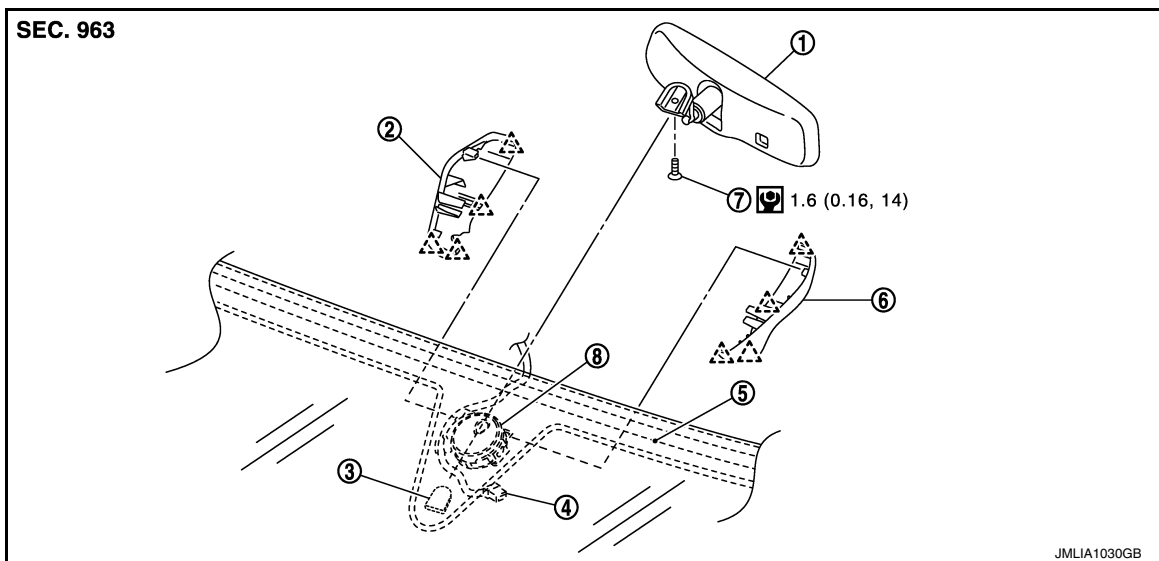
INFOID:000000010577300



- | | | |
|---------------------|---------------------------|------------------------|
| 1. Windshield glass | 2. Inside mirror base | 3. Harness connector |
| 4. TORX bolt | 5. Inside mirror assembly | 6. Inside mirror cover |

: N·m (kg·m, in-lb)

Option model



- | | | |
|---------------------------|-------------------------|-------------------------|
| 1. Inside mirror assembly | 2. Rain sensor cover RH | 3. Inside mirror base |
| 4. Harness connector | 5. Windshield glass | 6. Rain sensor cover LH |
| 7. TORX bolt | 8. Rain sensor | |

: Pawl

: N·m (kg·m, in-lb)

Removal and Installation

INFOID:0000000010577301

REMOVAL

Base model

1. Remove the inside mirror cover.
2. Remove TORX bolt.
3. Disconnect harness connector from inside mirror.
4. Slide the inside mirror upward to remove.

Option model

1. Remove the rain sensor cover (LH and RH).
2. Disconnect harness connector from inside mirror.
3. Remove TORX bolt and slide inside mirror upward to remove.

INSTALLATION

Install in the reverse order of removal.

DOOR MIRROR

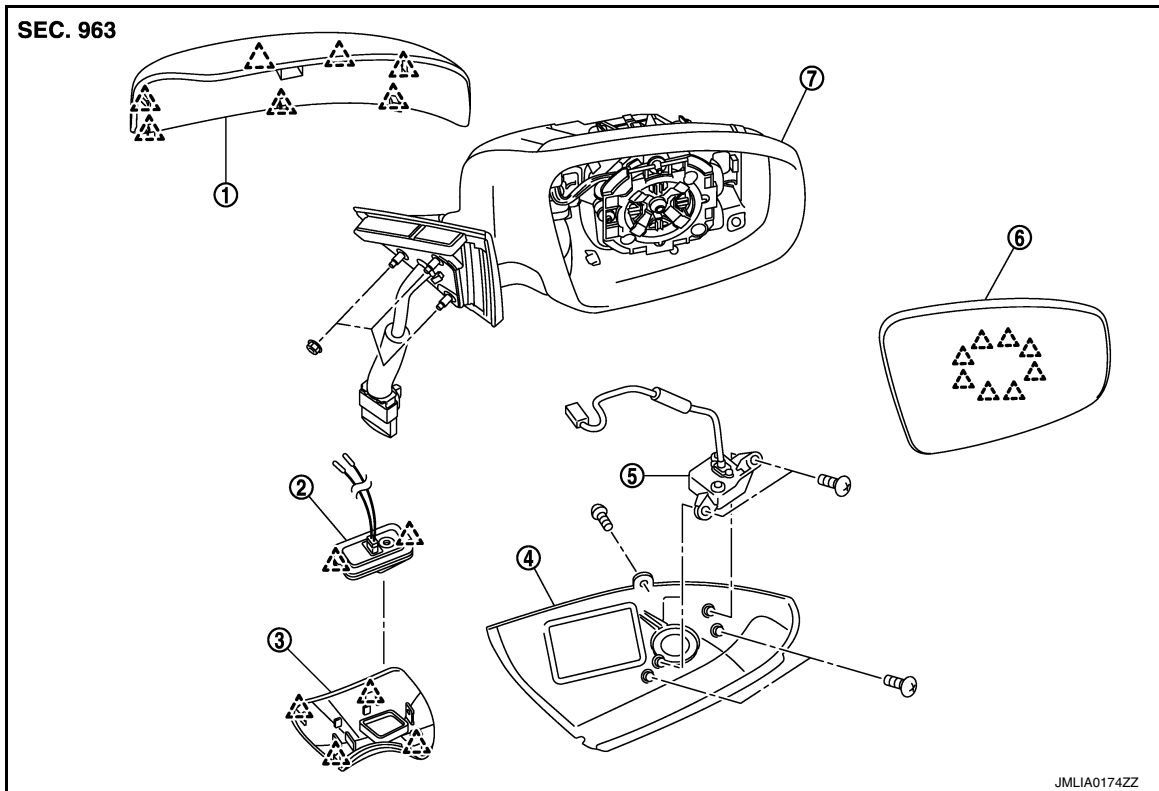
< REMOVAL AND INSTALLATION >

[WITH ADP]

DOOR MIRROR

Exploded View

INFOID:000000010577302



- | | | |
|---|--|-----------------|
| 1. Door mirror cover | 2. Puddle lamp | 3. Base cover |
| 4. Side camera finisher assembly (with side camera model) | 5. Side camera assembly (with side camera model) | 6. Glass mirror |
| 7. Mirror assembly | | |

△ : Pawl

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:000000010577303

REMOVAL

1. Remove front door finisher. Refer to [INT-12, "Removal and Installation"](#).
2. Remove front door sash inner cover. Refer to [GW-19, "Exploded View"](#).
3. Disconnect door mirror harness connector.
4. Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to [AV-247, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Description"](#).

DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:000000010577304

DISASSEMBLY

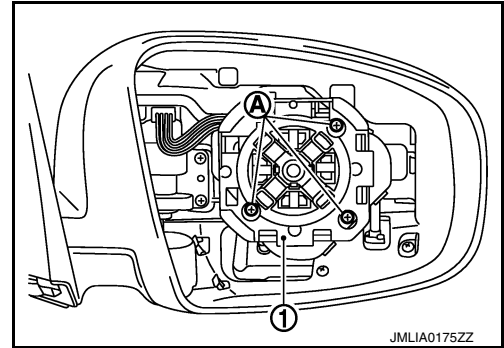
1. Remove door mirror assembly. Refer to [MIR-75, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).

DOOR MIRROR

[WITH ADP]

< REMOVAL AND INSTALLATION >

2. Remove glass mirror. Refer to [MIR-76, "GLASS MIRROR : Removal and Installation"](#).
3. Remove door mirror cover. Refer to [MIR-76, "DOOR MIRROR COVER : Removal and Installation"](#).
4. Remove screws (A) and connector, and then remove actuator (1).



5. Remove side camera.
 - Side camera LH: Refer to [AV-370, "Removal and Installation"](#).
 - Side camera RH: Refer to [AV-372, "Removal and Installation"](#).
6. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassembly.

GLASS MIRROR

GLASS MIRROR : Removal and Installation

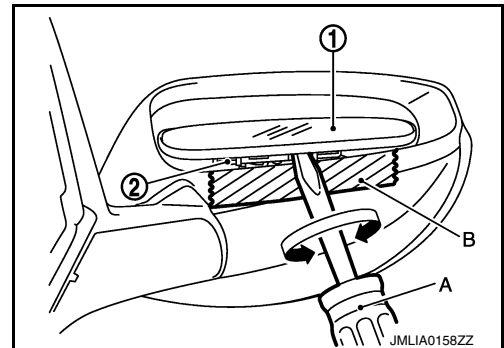
INFOID:0000000010577305

DISASSEMBLY

1. Place the glass mirror upward.
2. Put a strip of protective tape (B) on housing assembly.
3. As shown in the figure, insert a remover tool (A) between glass mirror (1) and actuator (2). Push up both pawls simultaneously to remove glass mirror lower half side.

NOTE:

Insert a remover tool into recesses, and push up while rotating (twisting) to make work easier.



4. Remove two terminals of mirror heater attachment.
5. Lightly lift up lower side of glass mirror, and detach both pawls of upper side as if pulling it out to disassemble glass mirror from actuator.

NOTE:

Be careful not to allow grease on sealing agent in center of mirror or back side of glass mirror.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER : Removal and Installation

INFOID:0000000010577306

CAUTION:

Never damage the mirror bodies.

DISASSEMBLY

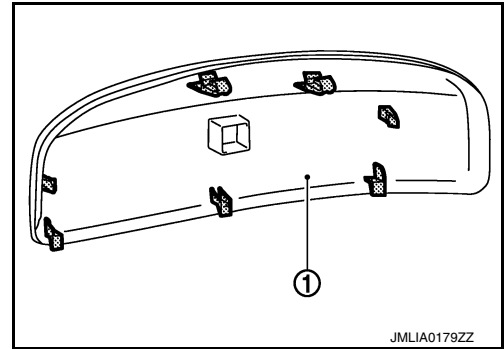
1. Remove the glass mirror. Refer to [MIR-76, "GLASS MIRROR : Removal and Installation"](#).

DOOR MIRROR

< REMOVAL AND INSTALLATION >

[WITH ADP]

2. Remove the pawls, and disassemble the door mirror cover (1) from the mirror assembly.



ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

After installation, visually check that pawls are securely engaged.

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DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITH ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

INFOID:0000000010577307

Refer to [INT-15, "Exploded View"](#).

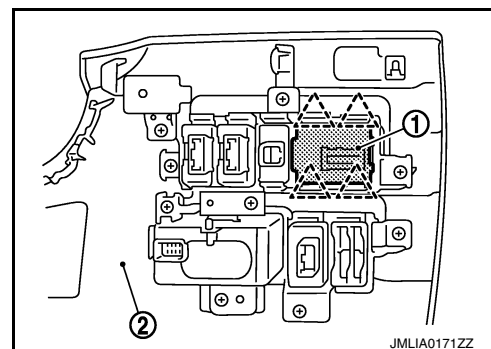
Removal and Installation

INFOID:0000000010577308

REMOVAL

1. Remove the instrument lower panel LH. Refer to [INT-12, "Exploded View"](#).
2. Remove door mirror remote control switch (1) from instrument lower panel LH (2) a using remover tool.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000010577309

Component		Function
Door mirror remote control switch	Mirror switch	It supplies power to mirror motor through mirror switch and changeover switch.
	Changeover switch	It transmits the LH/RH control of door mirror that supplies power.
	Open/close switch	Power is supplied to folding mirror from door remote control switch when operating switch.
Door mirror	Door mirror motor	It makes mirror face operate from side to side and up and down via integrated motor.
	Folding motor	The door mirror operates because power is received from power supply when pressing door mirror remote control switch.

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INSIDE MIRROR SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000010577310

The sensor built in inside mirror detects the brightness of headlight of the vehicle behind and automatically changes the light transmission to decrease the brightness.

Component Description

INFOID:0000000010577311

Component	Function
Auto anti-dazzling inside mirror	It automatically changes the light transmittance according to the brightness of the light from the headlight of the vehicle behind.

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

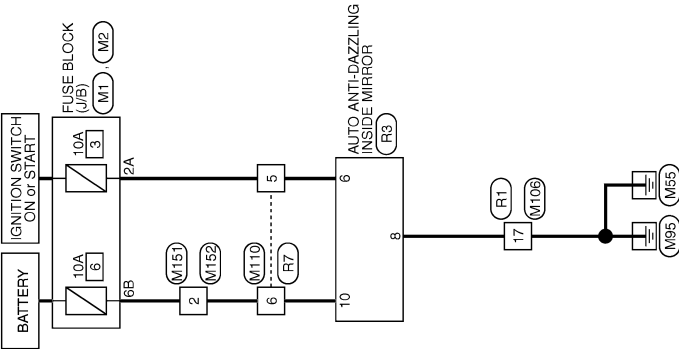
[WITHOUT ADP]

DTC/CIRCUIT DIAGNOSIS

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000010577312



INSIDE MIRROR

2013/02/13

JRLWC3821GB

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT ADP]

INSIDE MIRROR

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	GR	-
4	SHIELD	-
5	G	-
6	BR	-
8	P	-
9	G	-
10	Y	-
11	Y	-
12	BR	-
13	L	-
14	L	-
15	R	-
16	R	-
17	B	-
20	BG	-

Connector No.	M110
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
4	B	-

5	W	-
6	GR	-
7	SB	-
8	LG	-
9	SHIELD	-
10	R	-
11	G	-
15	R	-
16	V	-

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



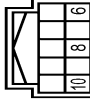
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	GR	-
4	SHIELD	-
5	G	-
6	BR	-
8	P	-
9	G	-
10	Y	-
11	Y	-
12	BR	-
13	L	-
14	L	-
15	R	-
16	R	-
17	B	-
20	Y	-

Connector No.	R3
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	BR	IGN
8	B	GROUND
10	GR	BAT

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

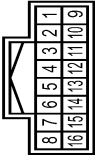
< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT ADP]

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INSIDE MIRROR

Connector No.	R7
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
4	B	-
5	BR	-
6	GR	-
7	SB	-
8	Y	-
9	SHIELD	-
10	R	-
11	G	-
15	R	-
16	V	-

MIR

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

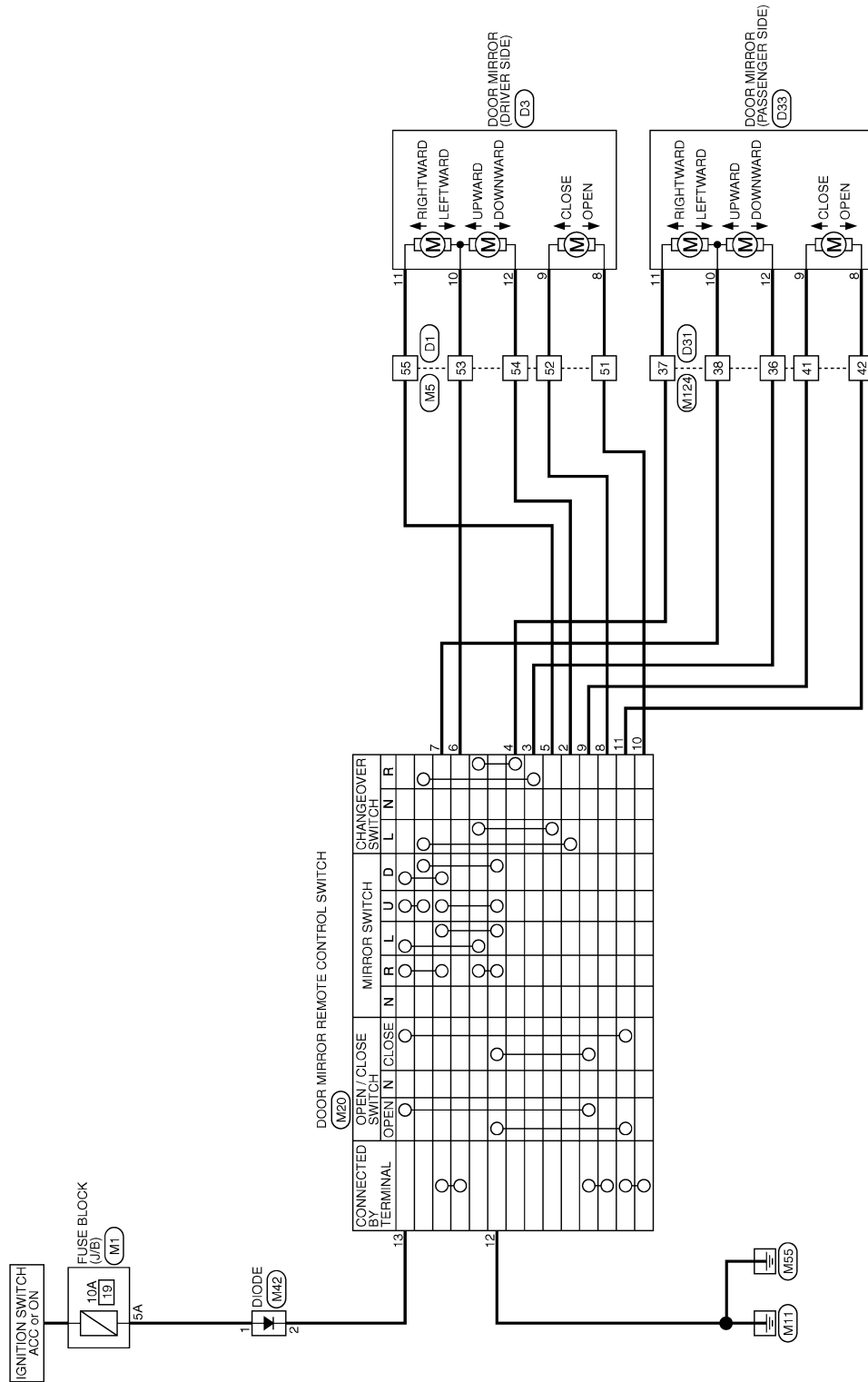
[WITHOUT ADP]

MIRROR SYSTEM

Wiring Diagram - MIRROR SYSTEM -

INFOID:000000010577313

DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)



2009/07/29

JCLWA3789GB

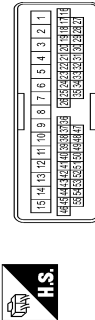
MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT ADP]

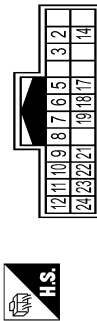
DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



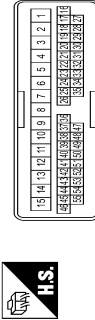
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	G	-
6	GR	-
7	W	-
8	SB	-
9	BR	-
10	O	-
11	R	-
12	LG	-
13	Y	-
14	P	-
15	L	-
20	V	-
21	Y	-
22	GR	-
23	SB	-
24	LG	-
26	G	-
27	V	-
28	P	-
29	Y	-
30	LG	-
31	O	-
32	BR	-
33	L	-
34	GR	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	P	-
42	BR	-
43	W	-
44	B	-
41	SHIELD	-
42	G	-
43	R	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	W	-
5	G	-
6	R	-
7	GR	-
8	SB	-
9	L	-
10	G	-
11	GR	-
12	O	-
14	B	-
17	SHIELD	-
18	B	-
19	B	-
21	P	-
22	BR	-
23	W	-
24	V	-

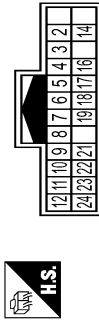
Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
4	L	-
5	W	-
6	P	-
7	G	-
8	R	-
9	LG	-
13	B	-
14	V	-
15	Y	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	LG	-
32	R	-
33	SB	-
34	Y	-
35	GR	-
36	O	-
37	GR	-
38	G	-
39	O	-
40	Y	-
41	L	-
42	O	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	R	-
48	G	-

49	SHIELD	-
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Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	-
3	W	-
4	LG	-
5	G	-
6	R	-
7	LG	-
8	O	-
9	L	-
10	G	-
11	GR	-
12	O	-
14	O	-
16	G	-
17	SHIELD	-
18	B	-
19	B	-
21	P	-
22	BR	-
23	W	-
24	V	-

MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT ADP]

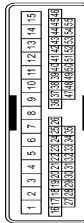
DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	SB	-
6	R	-
7	W	-
8	G	-
9	L	-
10	BG	-
11	G	-
12	V	-
13	Y	-
14	P	-
15	L	-

Connector No.	M20
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW



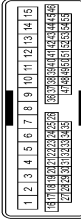
Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	BG	-
4	GR	-
5	L	-
6	Y	-
7	G	-
8	R	-
9	P	-
10	SB	-
11	LG	-
12	B	-
13	G	-
15	BG	-
16	W	-

Connector No.	M42
Connector Name	DIODE
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	LG	-
5	SB	-
6	BR	-
7	G	-
8	V	-
9	LG	-
13	B	-
14	BG	-
15	W	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	BG	-
32	Y	-
33	LG	-
34	SB	-
35	V	-
36	BG	-
37	GR	-
38	G	-
39	R	-
40	B	-
41	P	-
42	LG	-
43	L	-
44	Y	-
45	R	-
46	W	-
47	Y	-
48	BR	-

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DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

49	SHIELD
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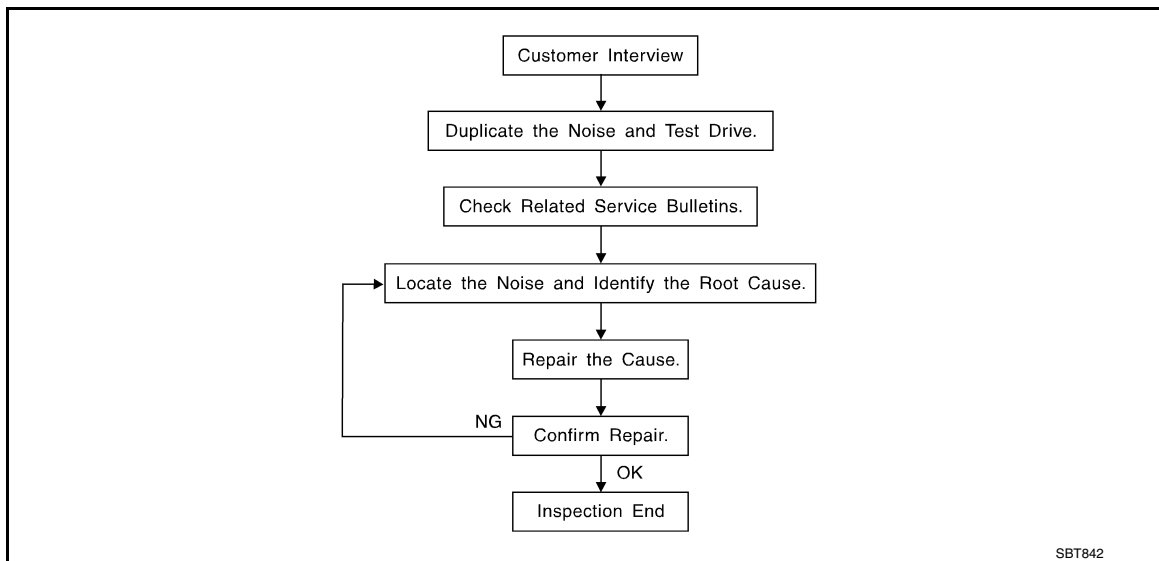
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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000010577314



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to [MIR-92. "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - Removing the components in the area that is are suspected to be the cause of the noise.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
 - Placing a piece of paper between components that are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
- Refer to [MIR-90. "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - Separate components by repositioning or loosening and retightening the component, if possible.
 - Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97 in)

FELT CLOTH TAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000010577315

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.

In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

3. The trunk lid torsion bars knocking together

4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise

2. Sunvisor shaft shaking in the holder

3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder

2. A squeak between the seat pad cushion and frame

3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall

2. Components that pass through the engine wall

3. Engine wall mounts and connectors

4. Loose radiator mounting pins

5. Hood bumpers out of adjustment

6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

Diagnostic Worksheet

INFOID:0000000010577316



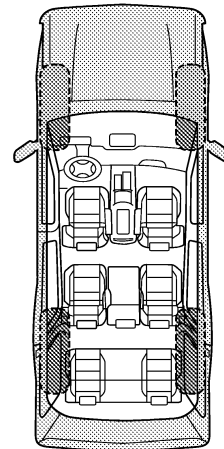
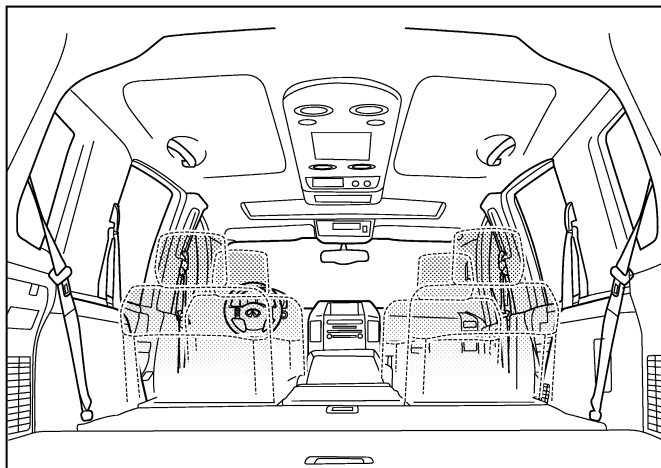
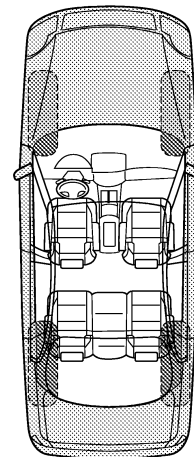
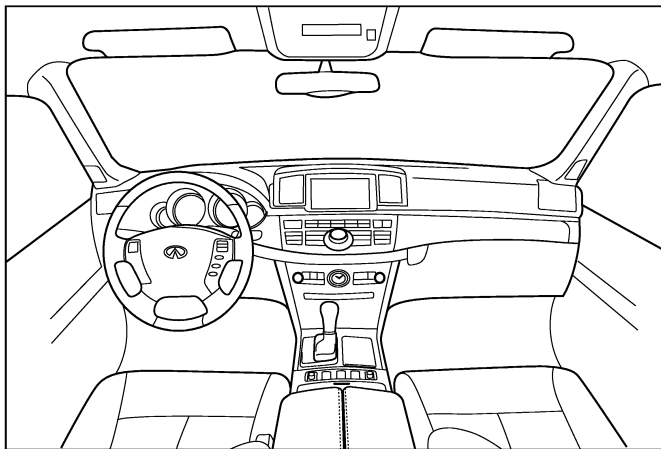
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| ☐ anytime | ☐ after sitting out in the rain |
| ☐ 1st time in the morning | ☐ when it is raining or wet |
| ☐ only when it is cold outside | ☐ dry or dusty conditions |
| ☐ only when it is hot outside | ☐ other: |

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000010577317

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

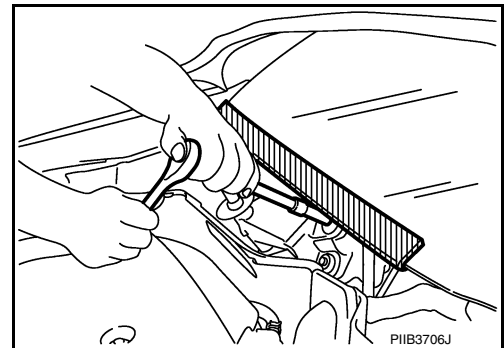
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

INFOID:000000010784284

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



PRECAUTIONS

< PRECAUTION >

[WITHOUT ADP]

Precautions for Removing Battery Terminal

INFOID:0000000010784287

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

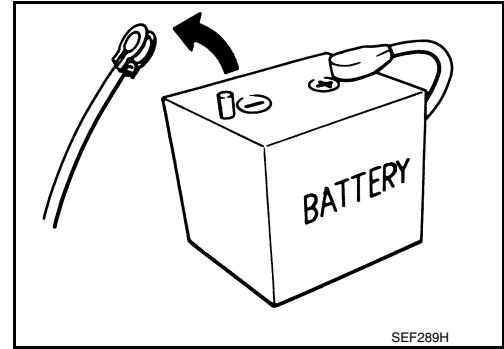
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



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PREPARATION

< PREPARATION >

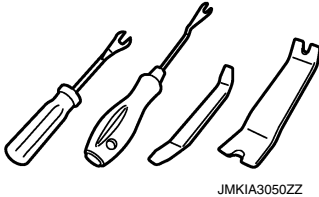
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PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000010577319

Tool name	Description
Remover tool  JMKIA3050ZZ	Removes clips, pawls and metal clips

INSIDE MIRROR

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

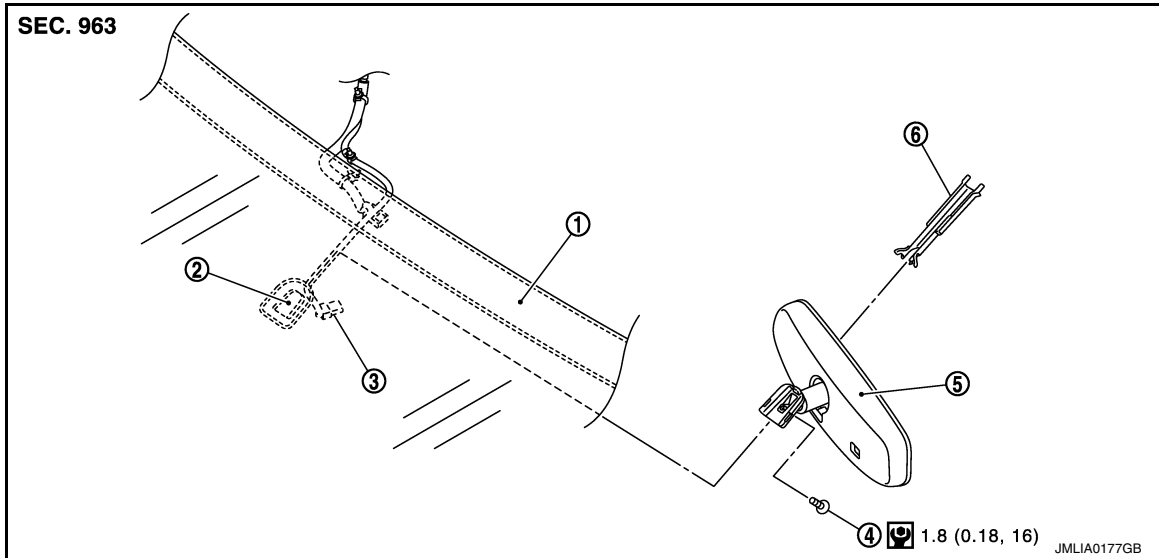
REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

INFOID:000000010577320

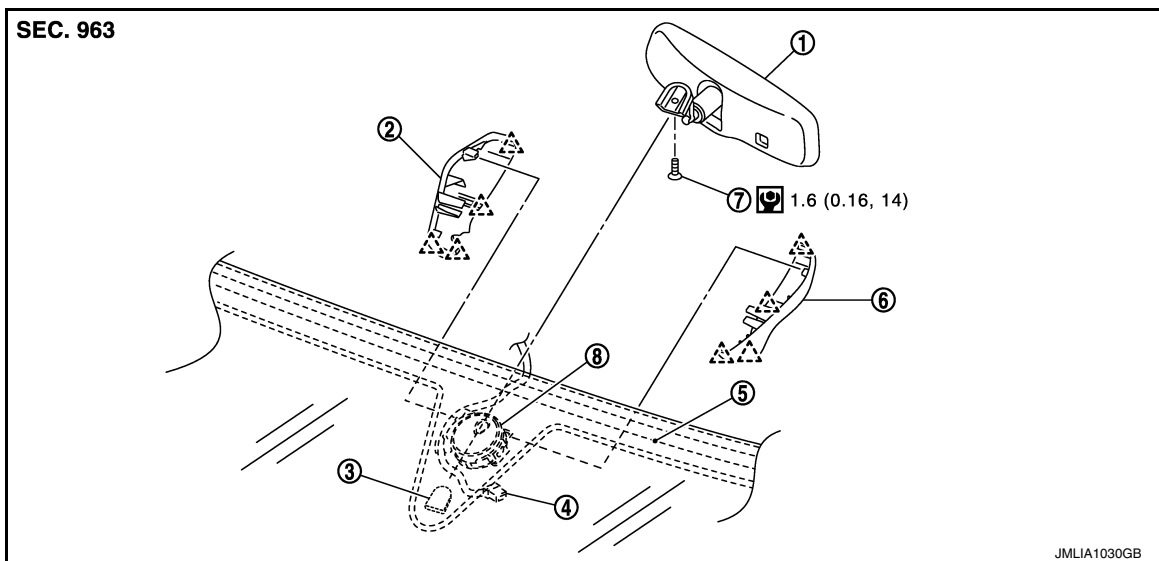
Base model



- | | | |
|---------------------|---------------------------|------------------------|
| 1. Windshield glass | 2. Inside mirror base | 3. Harness connector |
| 4. TORX bolt | 5. Inside mirror assembly | 6. Inside mirror cover |

 : N·m (kg·m, in·lb)

Option model



- | | | |
|---------------------------|-------------------------|-------------------------|
| 1. Inside mirror assembly | 2. Rain sensor cover RH | 3. Inside mirror base |
| 4. Harness connector | 5. Windshield glass | 6. Rain sensor cover LH |
| 7. TORX bolt | 8. Rain sensor | |

 : Pawl

 : N·m (kg·m, in·lb)

Removal and Installation

INFOID:0000000010577321

REMOVAL

Base model

1. Remove the inside mirror cover.
2. Remove TORX bolt.
3. Disconnect harness connector from inside mirror.
4. Slide the inside mirror upward to remove.

Option model

1. Remove the rain sensor cover (LH and RH).
2. Disconnect harness connector from inside mirror.
3. Remove TORX bolt and slide inside mirror upward to remove.

INSTALLATION

Install in the reverse order of removal.

DOOR MIRROR

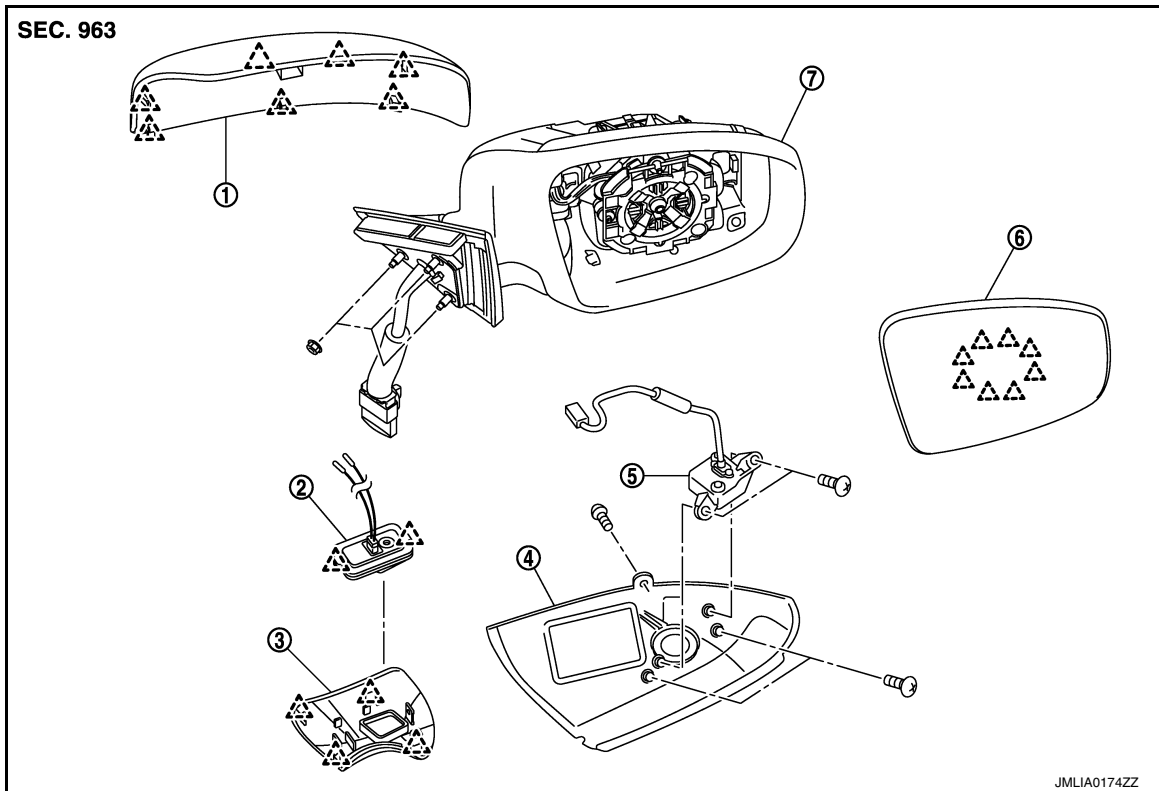
< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

DOOR MIRROR

Exploded View

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- | | | |
|---|--|-----------------|
| 1. Door mirror cover | 2. Puddle lamp | 3. Base cover |
| 4. Side camera finisher assembly (with side camera model) | 5. Side camera assembly (with side camera model) | 6. Glass mirror |
| 7. Mirror assembly | | |

△ : Pawl

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:0000000010577323

REMOVAL

1. Remove front door finisher. Refer to [INT-12, "Removal and Installation"](#).
2. Remove front door sash inner cover. Refer to [GW-19, "Exploded View"](#).
3. Disconnect door mirror harness connector.
4. Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to [AV-247, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Description"](#).

DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000010577324

DISASSEMBLY

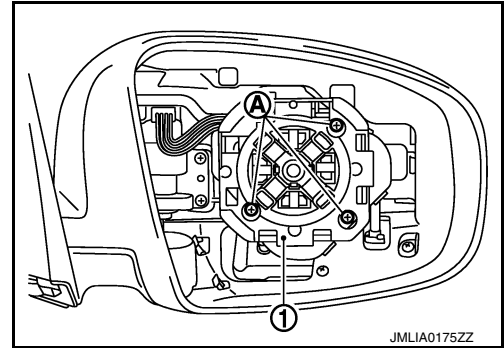
1. Remove door mirror assembly. Refer to [MIR-99, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).

DOOR MIRROR

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

2. Remove glass mirror. Refer to [MIR-100, "GLASS MIRROR : Removal and Installation"](#).
3. Remove door mirror cover. Refer to [MIR-100, "DOOR MIRROR COVER : Removal and Installation"](#).
4. Remove screws (A) and connector, and then remove actuator (1).



5. Remove side camera.
 - Side camera LH: Refer to [AV-370, "Removal and Installation"](#).
 - Side camera RH: Refer to [AV-372, "Removal and Installation"](#).
6. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassembly.

GLASS MIRROR

GLASS MIRROR : Removal and Installation

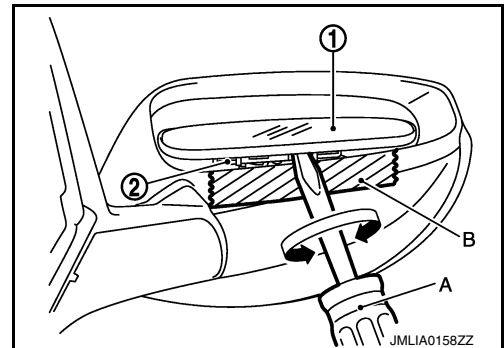
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DISASSEMBLY

1. Place the glass mirror upward.
2. Put a strip of protective tape (B) on housing assembly.
3. As shown in the figure, insert a remover tool (A) between glass mirror (1) and actuator (2). Push up both pawls simultaneously to remove glass mirror lower half side.

NOTE:

Insert a remover tool into recesses, and push up while rotating (twisting) to make work easier.



4. Remove two terminals of mirror heater attachment.
5. Lightly lift up lower side of glass mirror, and detach both pawls of upper side as if pulling it out to disassemble glass mirror from actuator.

NOTE:

Be careful not to allow grease on sealing agent in center of mirror or back side of glass mirror.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER : Removal and Installation

INFOID:0000000010577326

CAUTION:

Never damage the mirror bodies.

DISASSEMBLY

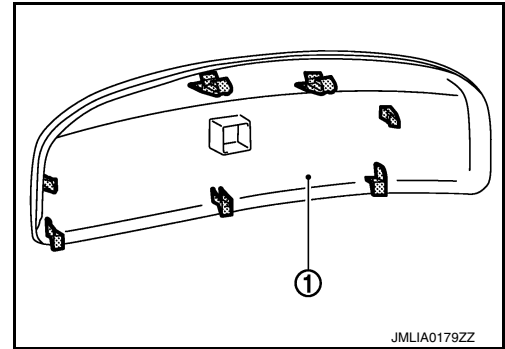
1. Remove the glass mirror. Refer to [MIR-100, "GLASS MIRROR : Removal and Installation"](#).

DOOR MIRROR

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

2. Remove the pawls, and disassemble the door mirror cover (1) from the mirror assembly.



ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

After installation, visually check that pawls are securely engaged.

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DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

INFOID:0000000010577327

Refer to [INT-15, "Exploded View"](#).

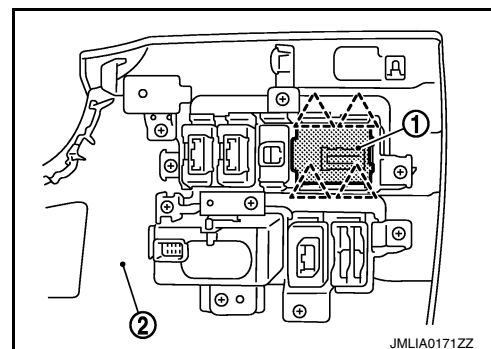
Removal and Installation

INFOID:0000000010577328

REMOVAL

1. Remove the instrument lower panel LH. Refer to [INT-12, "Exploded View"](#).
2. Remove door mirror remote control switch (1) from instrument lower panel LH (2) a using remover tool.

 : Pawl



INSTALLATION

Install in the reverse order of removal.