# SECTION MIR
## MIRRORS



## CONTENTS

### WITH ADP

# 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?

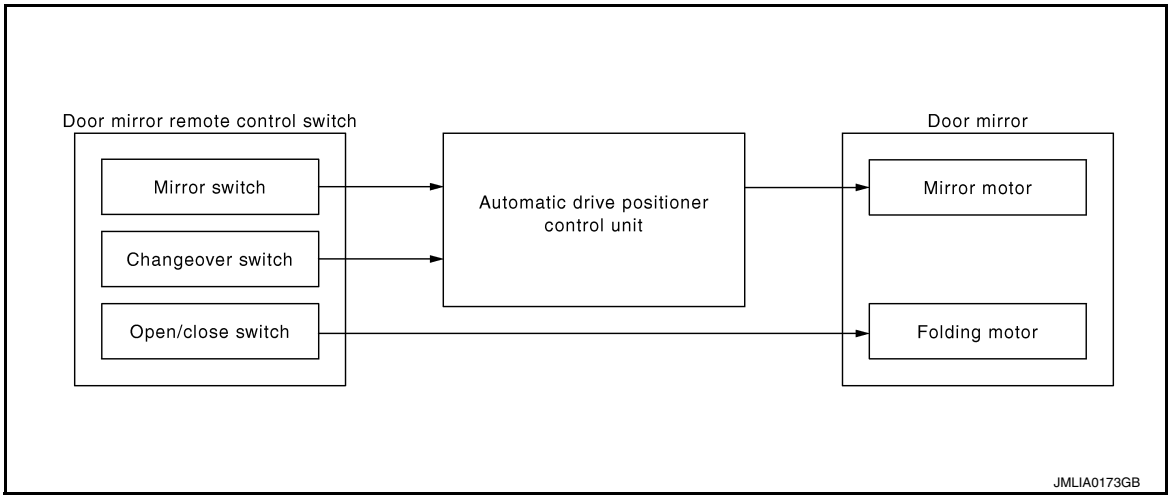
YES >> INSPECTION END
NO >> GO TO 4.

# SYSTEM DESCRIPTION

## DOOR MIRROR SYSTEM

### System Diagram

INFOID:0000000010577269




### 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.

- 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.

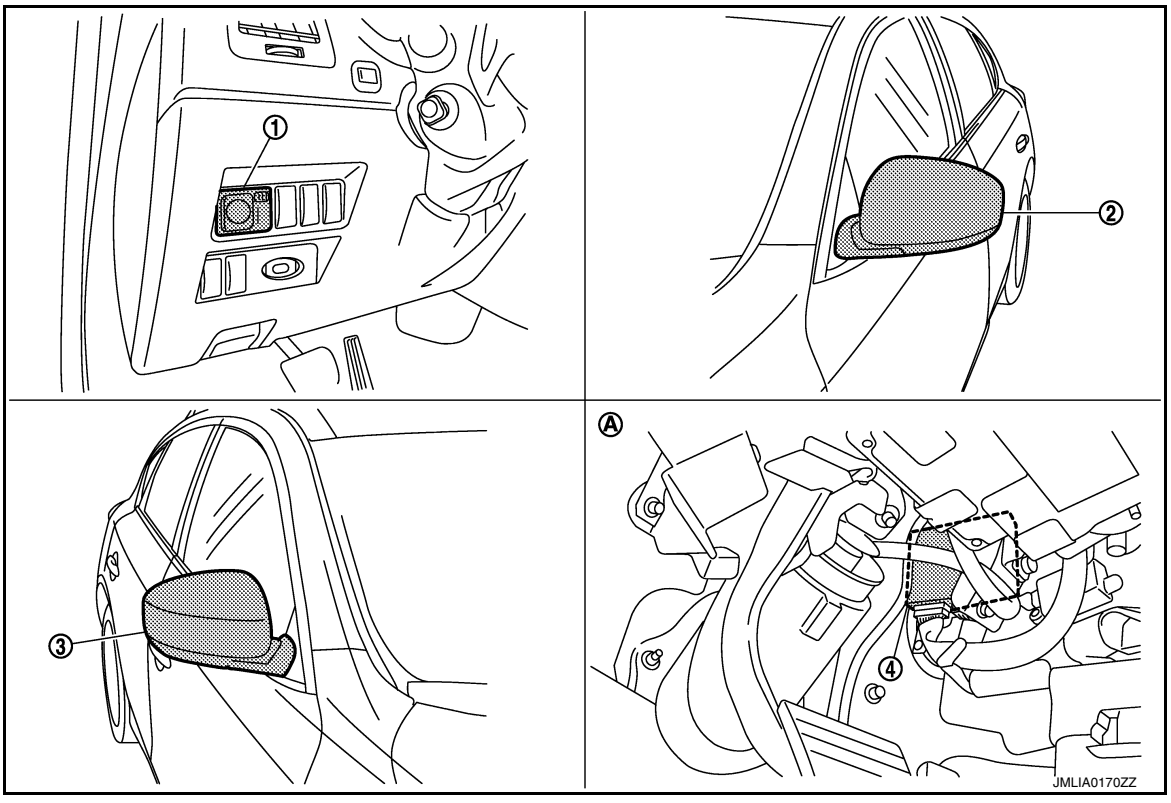
## AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

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)

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

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. |

# 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. |

| 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

| 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:<br>ON (operated) – OFF (not operated) | ON |
| | | OFF |
| EXIT SEAT SLIDE SETTING | Entry/exit assist (seat) can be selected:<br>ON (operated) – OFF (not operated) | ON |
| | | OFF |

# 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.

| 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 | | | 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?

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:0000000010577283

## 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 | | | Condition | | Continuity |
|---|---|---|---|---|---|
| Connector | Terminal | | | | |
| M26 | 2 | 13 | Changeover switch | LEFT | Existed |
| | | | | Other than above | Not existed |
| | 3 | | | RIGHT | Existed |
| | | | | Other than above | Not existed |

Is the inspection result normal?

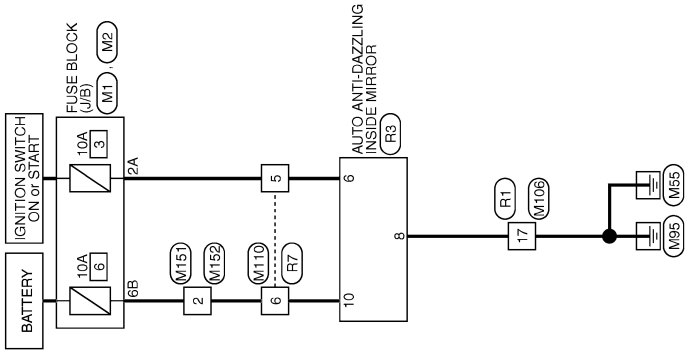
YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-78, "Removal and Installation".

# AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

## Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000010577284




INSIDE MIRROR

2013/02/13

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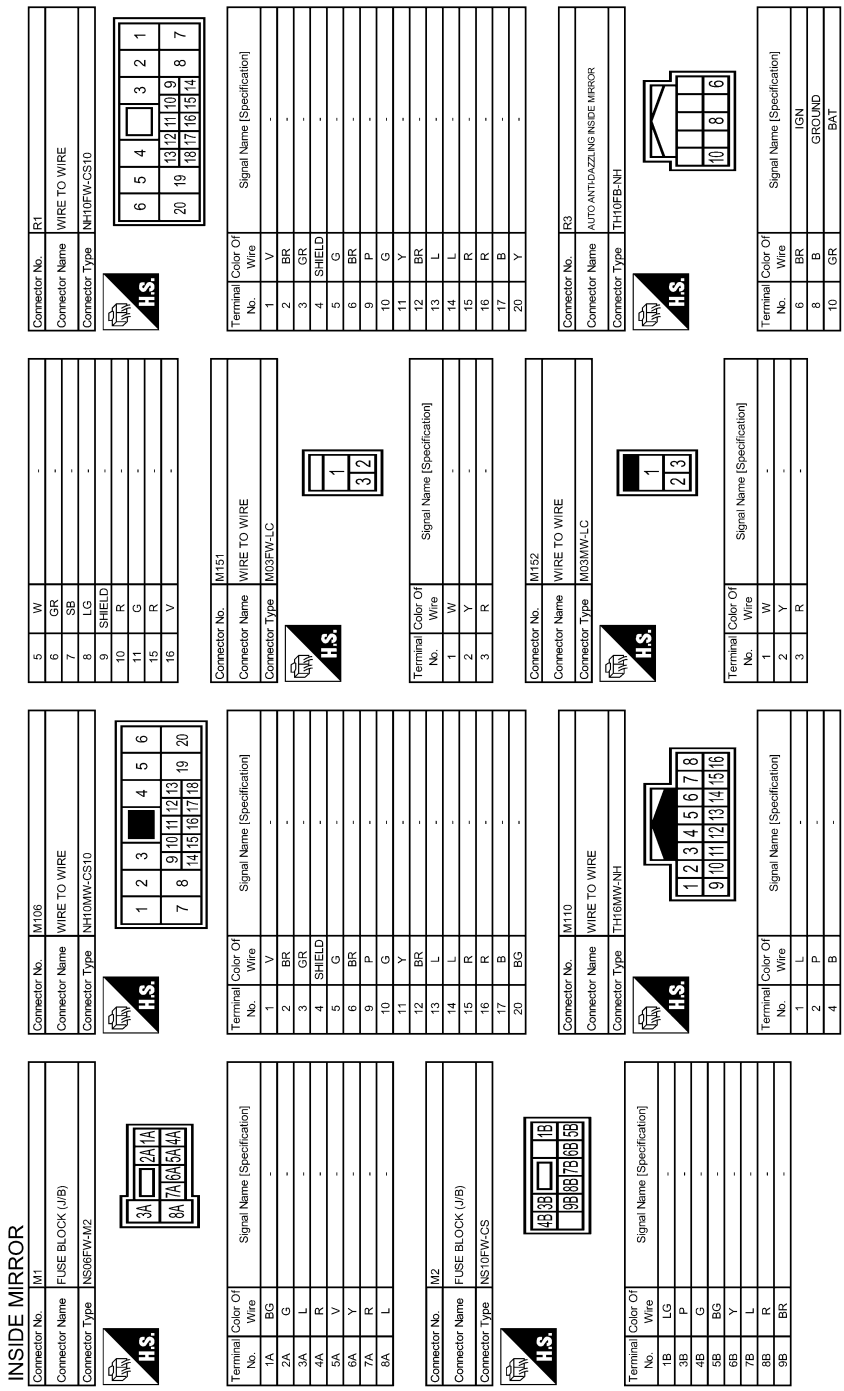


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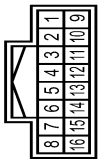
INSIDE MIRROR

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





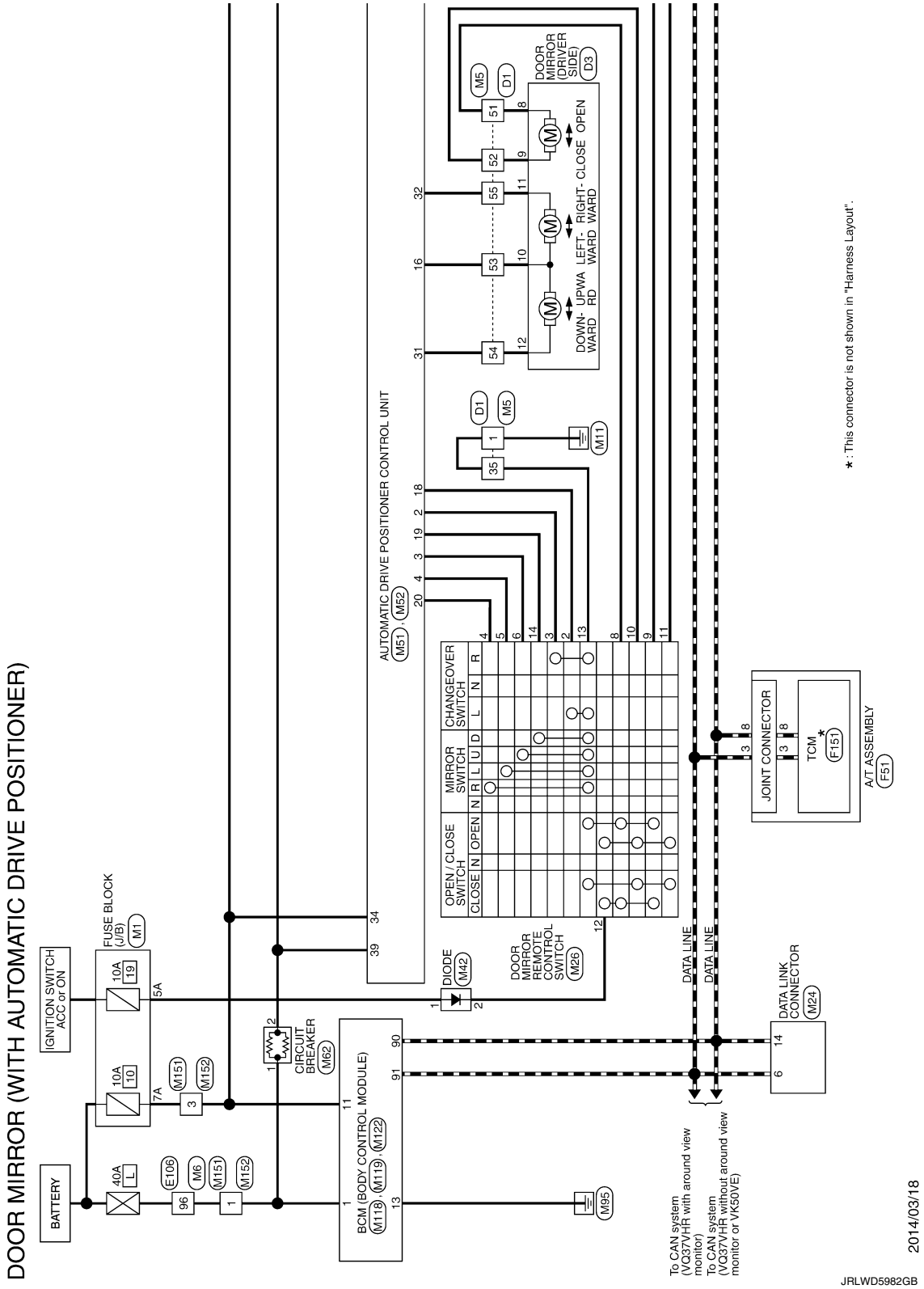

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | L | - |
| 2 | P | - |
| 4 | B | - |
| 5 | BR | - |
| 6 | GR | - |
| 7 | SB | - |
| 8 | Y | - |
| 9 | SHIELD | - |
| 10 | R | - |
| 11 | G | - |
| 15 | R | - |
| 16 | V | - |

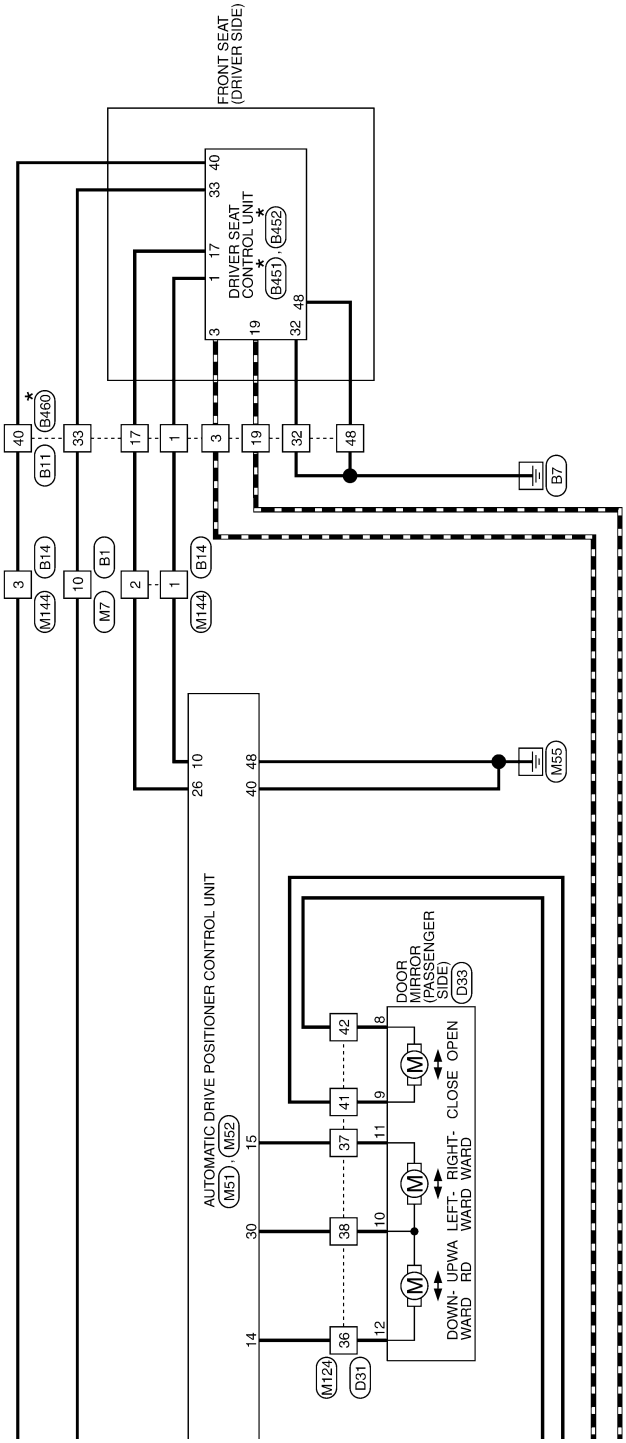
JRLWD5995GB

# MIRROR SYSTEM

## Wiring Diagram - MIRROR SYSTEM -

INFOID:0000000010577285






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

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

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

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | L | - |
| 3 | W | - |
| 6 | G | - |
| 7 | P | - |
| 8 | BG | - |
| 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 | - |
| 57 | P | - |
| 58 | L | - |
| 59 | SHIELD | - |
| 60 | L | - |
| 61 | P | - |
| 62 | GR | - |
| 63 | G | - |
| 64 | BG | - |
| 65 | W | - |
| 66 | V | - |
| 67 | LG | - |
| 68 | Y | - |
| 69 | G | - |
| 70 | GR | - |
| 71 | G | - |
| 72 | B | - |
| 73 | W | - |
| 74 | V | - |
| 75 | BG | - |
| 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 | - |
| 91 | R | - |
| 92 | BG | - |
| 93 | BR | - |
| 94 | V | - |
| 96 | BG | - |
| 97 | W | - |
| 98 | GR | - |
| 99 | W | - |

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

H.S.



| 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-NH |

H.S.



| 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 |

H.S.



| 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 | L/Y | P RANGE SW |
| 24 | R | PULSE (SLIDING) |
| 25 | Y/B | PULSE (FR 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) |

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

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

H.S.

| 33 | 35 | 36 | | 37 | 38 | 39 |
|---|---|---|---|---|---|---|
| 40 | 42 | | 44 | 45 | | 48 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 33 | R | BAT (CB) |
| 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. | B460 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-LC |

H.S.

| 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. | D1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15 |

H.S.

| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | | | | |
| 55 | 54 | 53 | 52 | 51 | 50 | 49 | | | | | | | | |

| 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 |

H.S.

| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | | 3 | 2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 23 | 22 | 21 | | 19 | 18 | 17 | | | | 14 |

| 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 |

H.S.

| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | | | | |
| 55 | 54 | 53 | 52 | 51 | 50 | 49 | | | | | | | | |

| 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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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

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

H.S.

12 11 10 9 8 7 6 5 4 3 2
24 23 22 21 19 18 17 16 14

| 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 | - |

| Connector No. | E106 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.

| Terminal No. | Color Of 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 | - |
| 20 | W | - [With ICC] |
| 20 | Y | - [Without ICC] |
| 21 | BR | - |
| 22 | R | - [With ICC] |
| 22 | V | - [Without ICC] |
| 23 | G | - |
| 24 | L | - [With ICC] |
| 24 | P | - [Without ICC] |
| 25 | L | - [Without ICC] |
| 25 | Y | - [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 | - |
| 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. | F51 |
|---|---|
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY |

H.S.

5 4 3 2 1
10 9 8 7 6

| 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] |
| 9 | LG | STARTER RELAY [With VK engine] |
| 10 | B | GROUND |

| Connector No. | F151 |
|---|---|
| Connector Name | TCM |
| Connector Type | SP10FG |

H.S.

1 2 3 4 5
6 7 8 9 10

| 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 |

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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 | NS06FW-M2 |

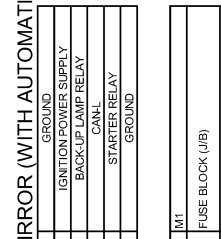
H.S.




| 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 |

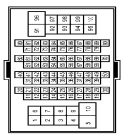
H.S.




| 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 | TH80MW-CS16-TM4 |

H.S.




| 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 | - |
| 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 | - |

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

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

| | | |
|---|---|---|
| 45 | B | - |
| 51 | V | - |
| 52 | LG | - |
| 53 | SHIELD | - |
| 54 | BR | - |
| 55 | Y | - |
| 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. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

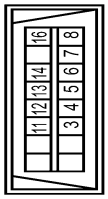
H.S.



| 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 |

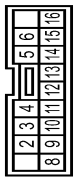
H.S.



| 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 |

H.S.



| 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 | - |

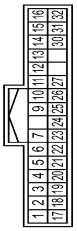
| | |
|---|---|
| Connector No. | M42 |
| Connector Name | DIODE |
| Connector Type | ET02-2W |

H.S.

| 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 |

H.S.



| 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 |

JRLWD5988GB

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

| | | |
|---|---|---|
| 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) |

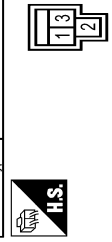
| | |
|---|---|
| Connector No. | M52 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Type | NS16FW-CS |

| 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-P-LC |

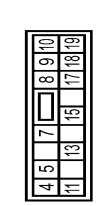
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | - |
| 2 | W | - |

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



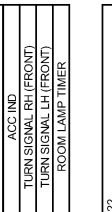
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | BAT (F/L) |
| 2 | Y | POWER WINDOW POWER SUPPLY (BAT) |
| 3 | BG | POWER WINDOW POWER SUPPLY (RAP) |

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



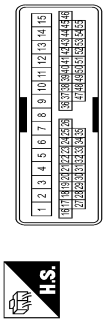
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 4 | P | INT ROOM LAMP PWR SUPPLY (BAT SAVE) |
| 5 | V | PASSENGER DOOR UNLOCK OUTPUT |
| 7 | Y | STEP LAMP OUTPUT |
| 8 | V | ALL DOOR, FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR, FUEL LID, UNLOCK OUTPUT |
| 10 | BR | REAR 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 |



| 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 | A/T 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. | 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 | - |

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

| | |
|---|---|
| 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. | M151 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M03FW-LC |

H.S.


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

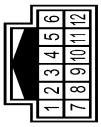
| | |
|---|---|
| Connector No. | M152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M03MW-LC |

H.S.


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

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

H.S.




| 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

# ECU DIAGNOSIS INFORMATION

## DRIVER SEAT CONTROL UNIT

### Reference Value

INFOID:0000000011046193

#### VALUES ON THE DIAGNOSIS TOOL

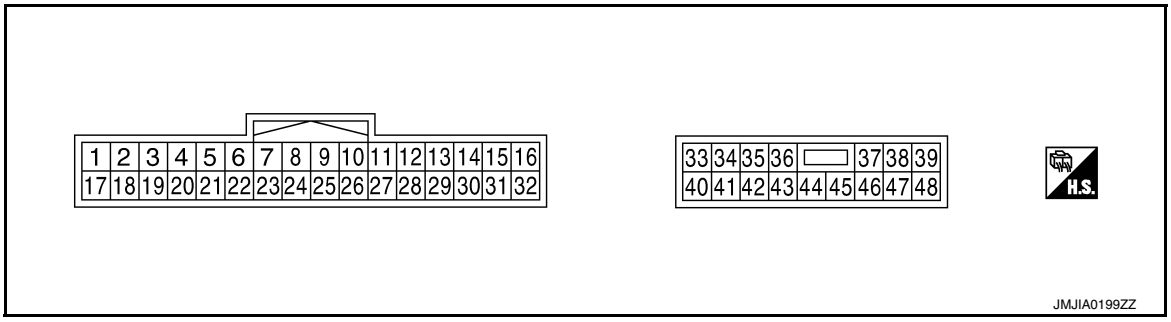
CONSULT MONITOR ITEM

| 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 |

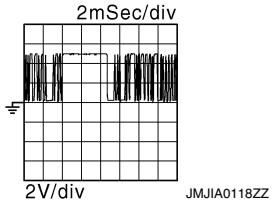
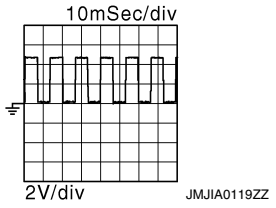
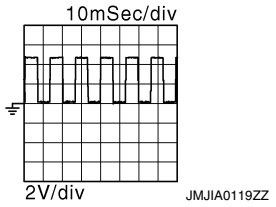
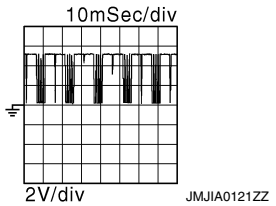
| Monitor Item | Condition | | Value/Status |
|---|---|---|---|
| TELESCO SW-FR | Telescopic switch | Forward | ON |
| | | Other than above | OFF |
| TELESCO SW-RR | Tilt switch | Backward | ON |
| | | Other than above | OFF |
| DETENT SW | AT selector lever | P position | OFF |
| | | Other than above | 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)<br>0.6 (close to valley) |
| MIR/SEN RH R–L | Door mirror (passenger side) | | Change between 3.4 (close to left edge)<br>0.6 (close to right edge) |
| MIR/SEN LH U–D | Door mirror (driver side) | | Change between 3.4 (close to peak)<br>0.6 (close to valley) |
| MIR/SEN LH R–L | Door mirror (driver side) | | Change between 0.6 (close to left edge)<br>3.4 (close to right edge) |
| TILT SEN | Tilt position | | Change between 1.2 (close to top)<br>3.4 (close to bottom) |
| TELESCO SEN | Telescopic position | | Change between 3.4 (close to top)<br>0.8 (close to bottom) |

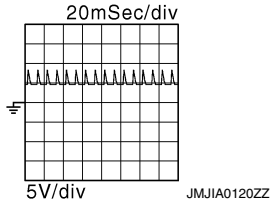
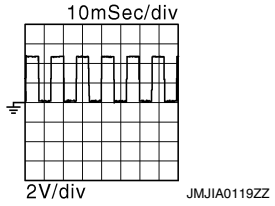
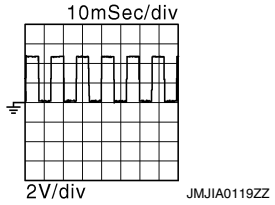
*1: The value at the position attained when the battery is connected is regarded as 32768.

## TERMINAL LAYOUT




## PHYSICAL VALUES

| 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 | |  |

| 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 |

| 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 backward 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 |

## Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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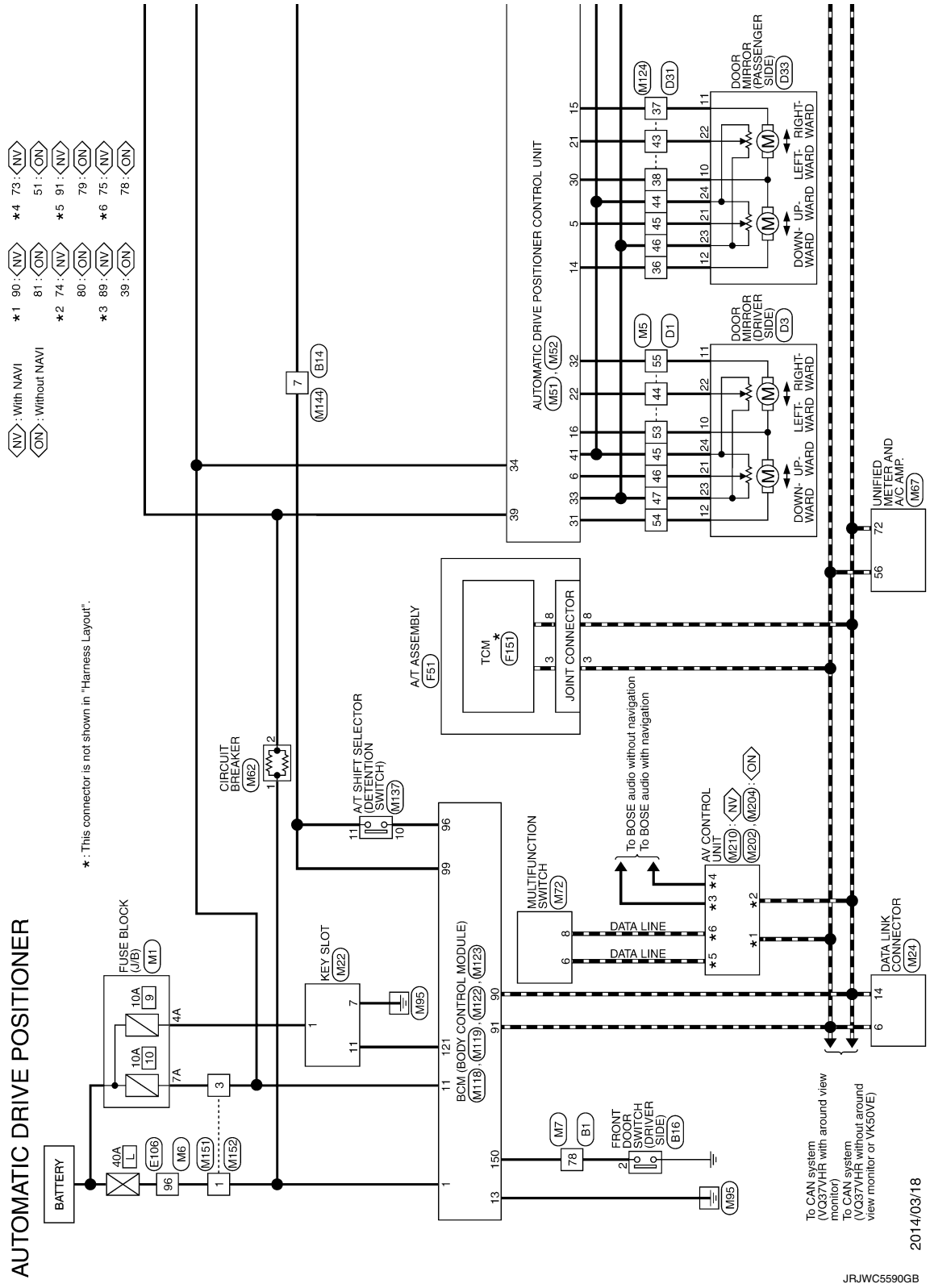
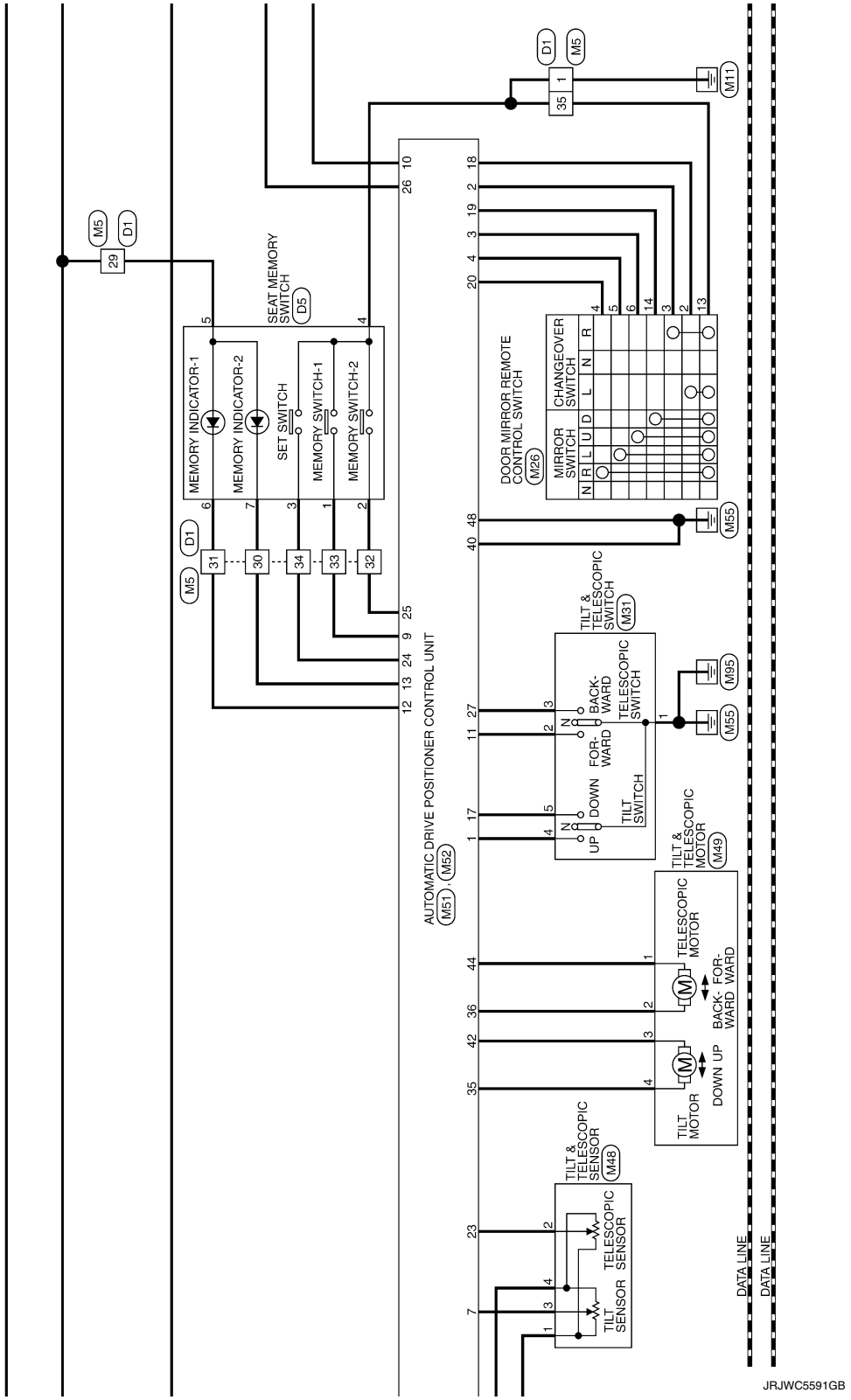
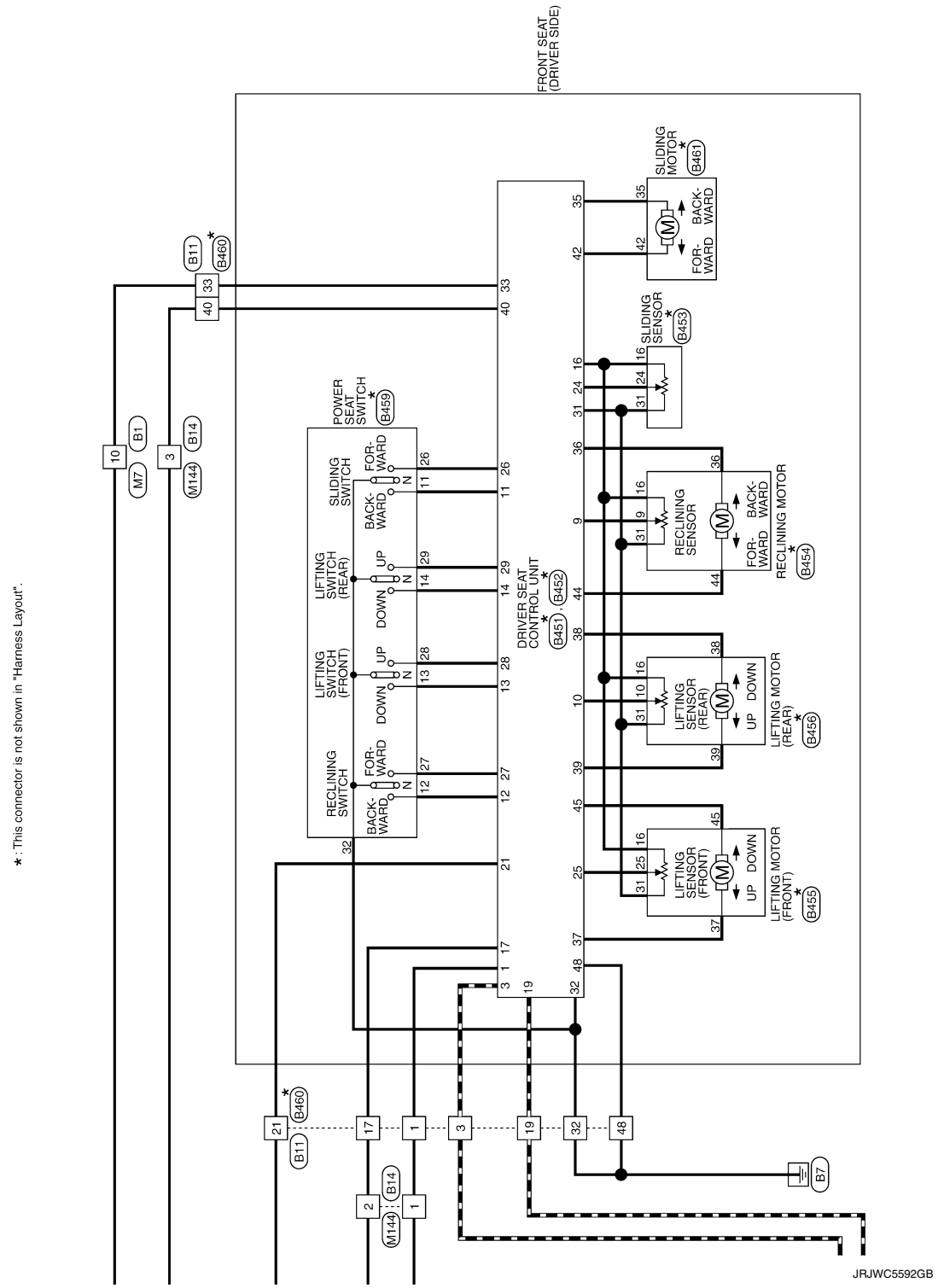



AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M51, M52
SEAT MEMORY SWITCH
D5
MEMORY INDICATOR-1
MEMORY INDICATOR-2
SET SWITCH
MEMORY SWITCH-1
MEMORY SWITCH-2
DOOR MIRROR REMOTE CONTROL SWITCH
M26
MIRROR SWITCH
CHANGEOVER SWITCH
TILT & TELESCOPIC SWITCH
M31
TELESCOPIC SWITCH
TILT SWITCH
TILT & TELESCOPIC MOTOR
M49
TELESCOPIC MOTOR
TILT MOTOR
TILT & TELESCOPIC SENSOR
M48
TELESCOPIC SENSOR
TILT SENSOR
DATA LINE
DATA LINE
M11
M55
M95
JRJWC5591GB




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

AUTOMATIC DRIVE POSITIONER

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

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | L | - |
| 3 | W | - |
| 6 | G | - |
| 7 | P | - |
| 8 | BG | - |
| 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 | - |
| 57 | P | - |
| 58 | L | - |
| 59 | SHIELD | - |
| 60 | L | - |
| 61 | P | - |
| 62 | GR | - |
| 63 | G | - |
| 64 | BG | - |
| 65 | W | - |
| 66 | V | - |
| 67 | LG | - |
| 68 | Y | - |
| 69 | G | - |
| 70 | GR | - |
| 71 | G | - |
| 72 | B | - |
| 73 | W | - |
| 74 | V | - |
| 75 | BG | - |
| 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 | - |
| 91 | R | - |
| 92 | BG | - |
| 93 | BR | - |
| 94 | V | - |
| 96 | BG | - |
| 97 | W | - |
| 98 | GR | - |
| 99 | W | - |

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

H.S.



| 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-NH |

H.S.



| 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 |

H.S.



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

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

H.S.



| 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 | L/Y | P RANGE SW |
| 24 | R | PULSE (SLIDING) |
| 25 | Y/B | PULSE (FR 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) |

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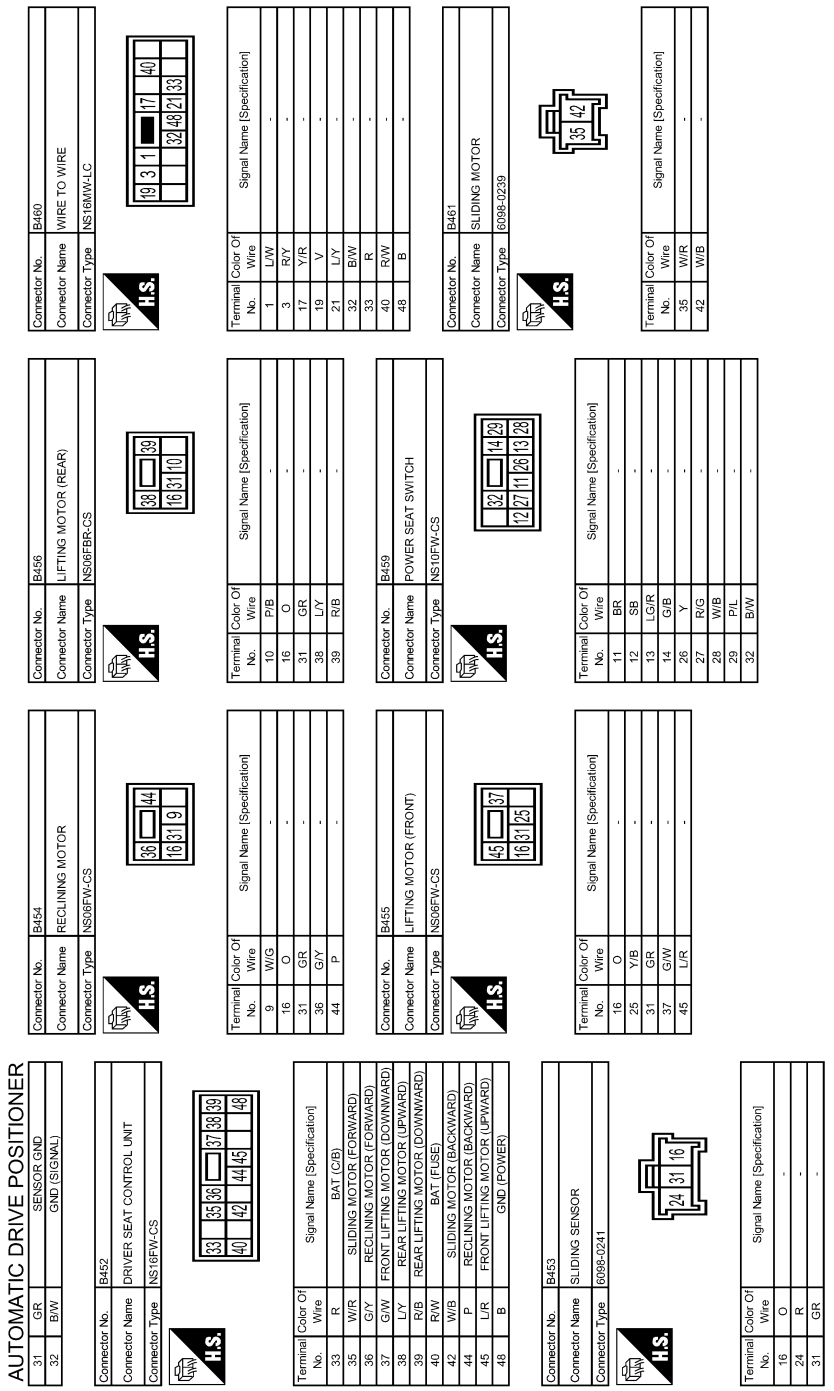


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AUTOMATIC DRIVE POSITIONER

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

H.S.



| 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 |

H.S.

| 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 | - |

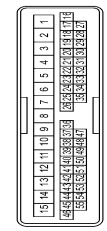
| Connector No. | D5 |
|---|---|
| Connector Name | SEAT MEMORY SWITCH |
| Connector Type | A08FW |

H.S.

| 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 |

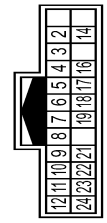
H.S.



| 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 |

H.S.



| 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 | - |

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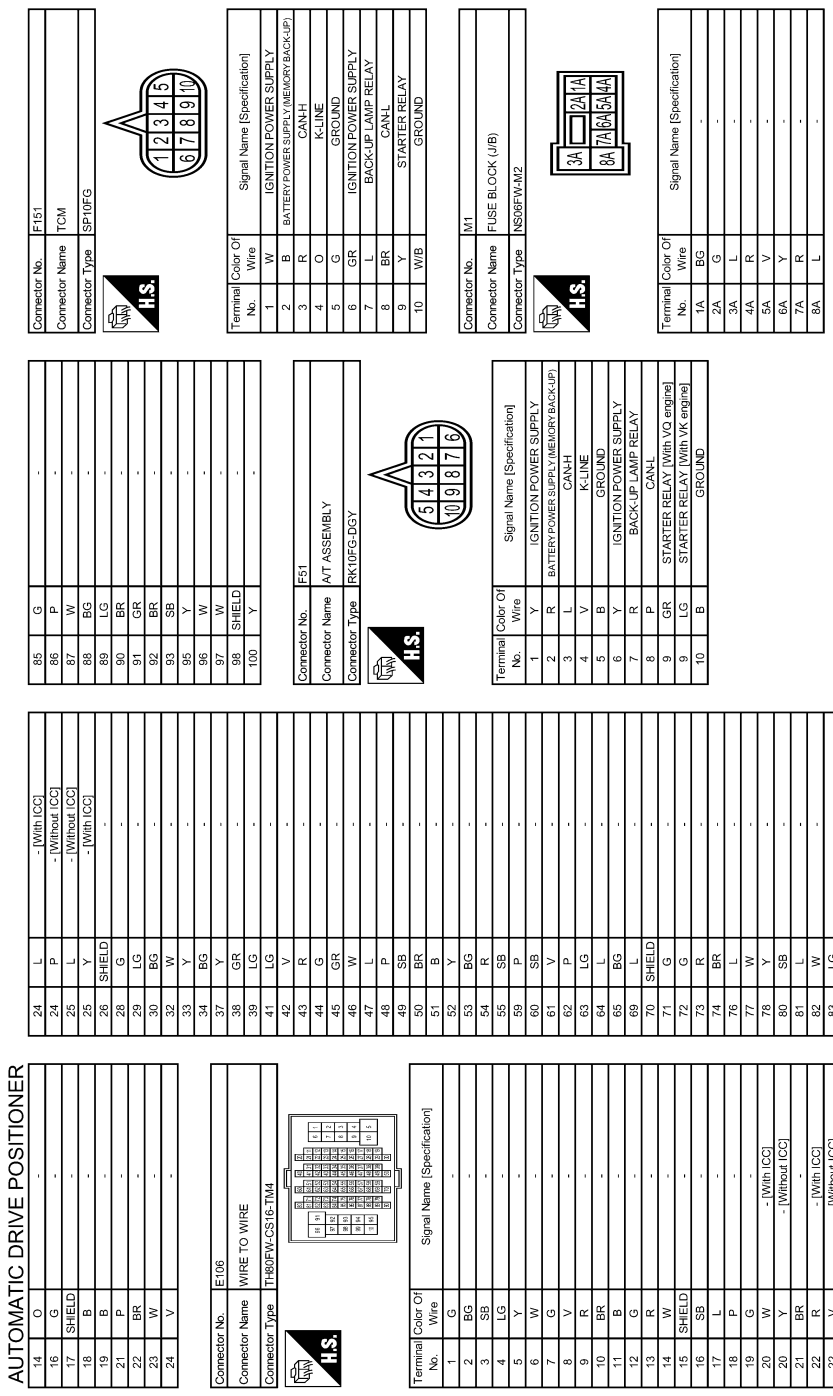



JRJWC5596GB

AUTOMATIC DRIVE POSITIONER

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

H.S.



| 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 | TH80MW-CS16-TM4 |

H.S.



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

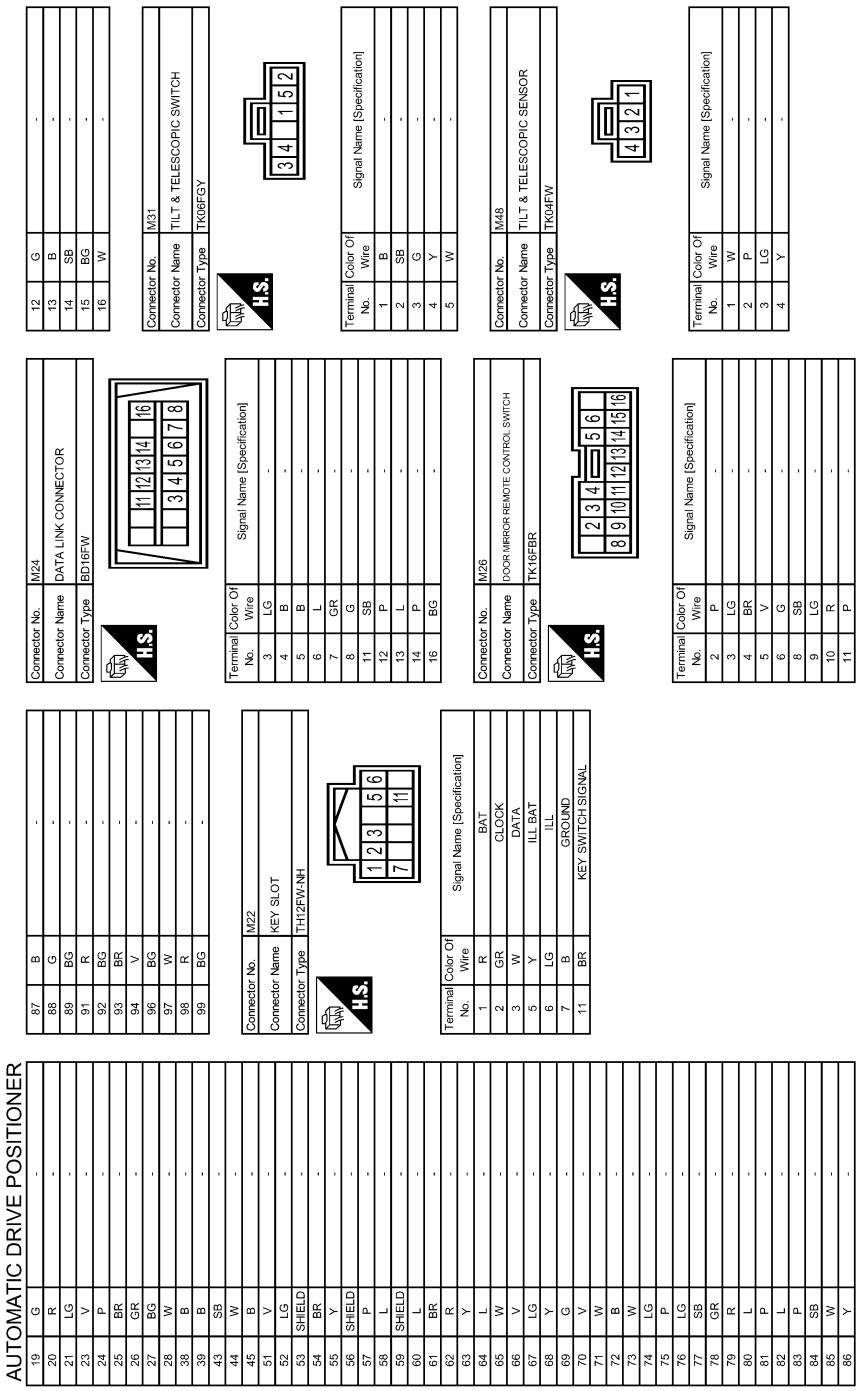
| Connector No. | M7 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.

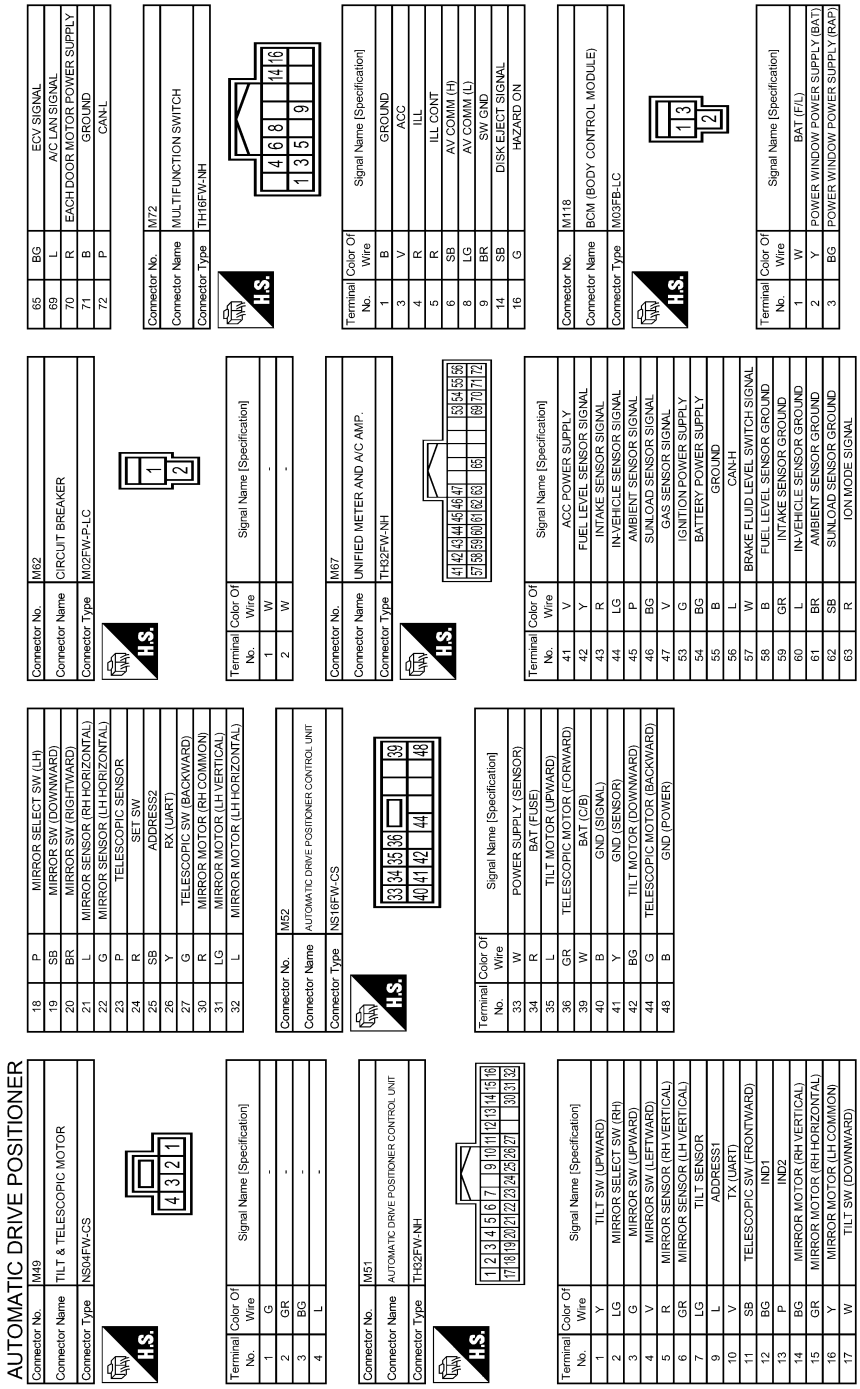


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - [With Auto aircon seat] |
| 1 | Y | - [Without Auto aircon seat] |
| 2 | B | - |
| 3 | W | - |
| 6 | P | - |
| 7 | V | - |
| 8 | BG | - |
| 10 | W | - |
| 11 | BG | - |
| 12 | B | - |
| 13 | G | - |
| 14 | R | -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

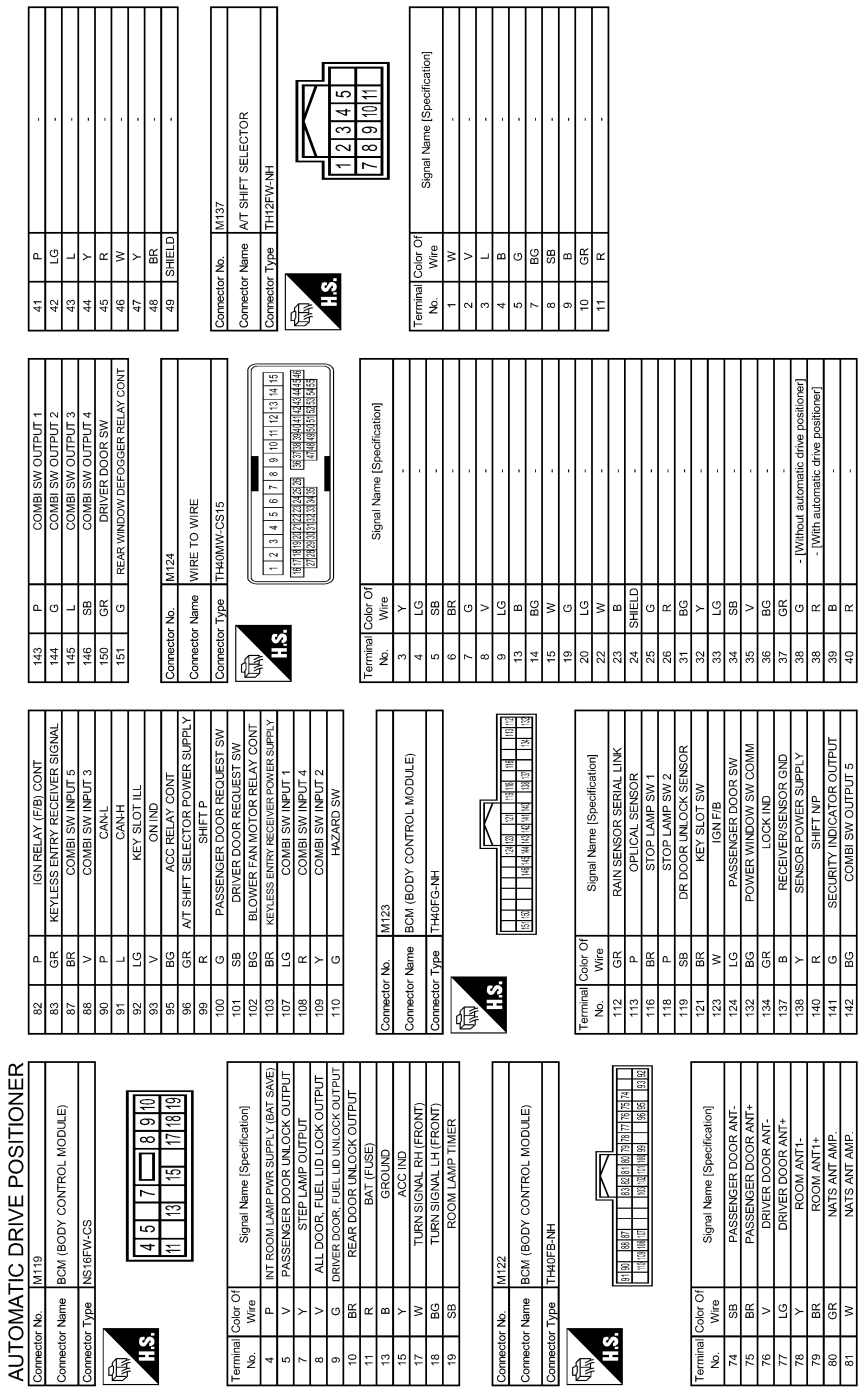
JRJWC5597GB



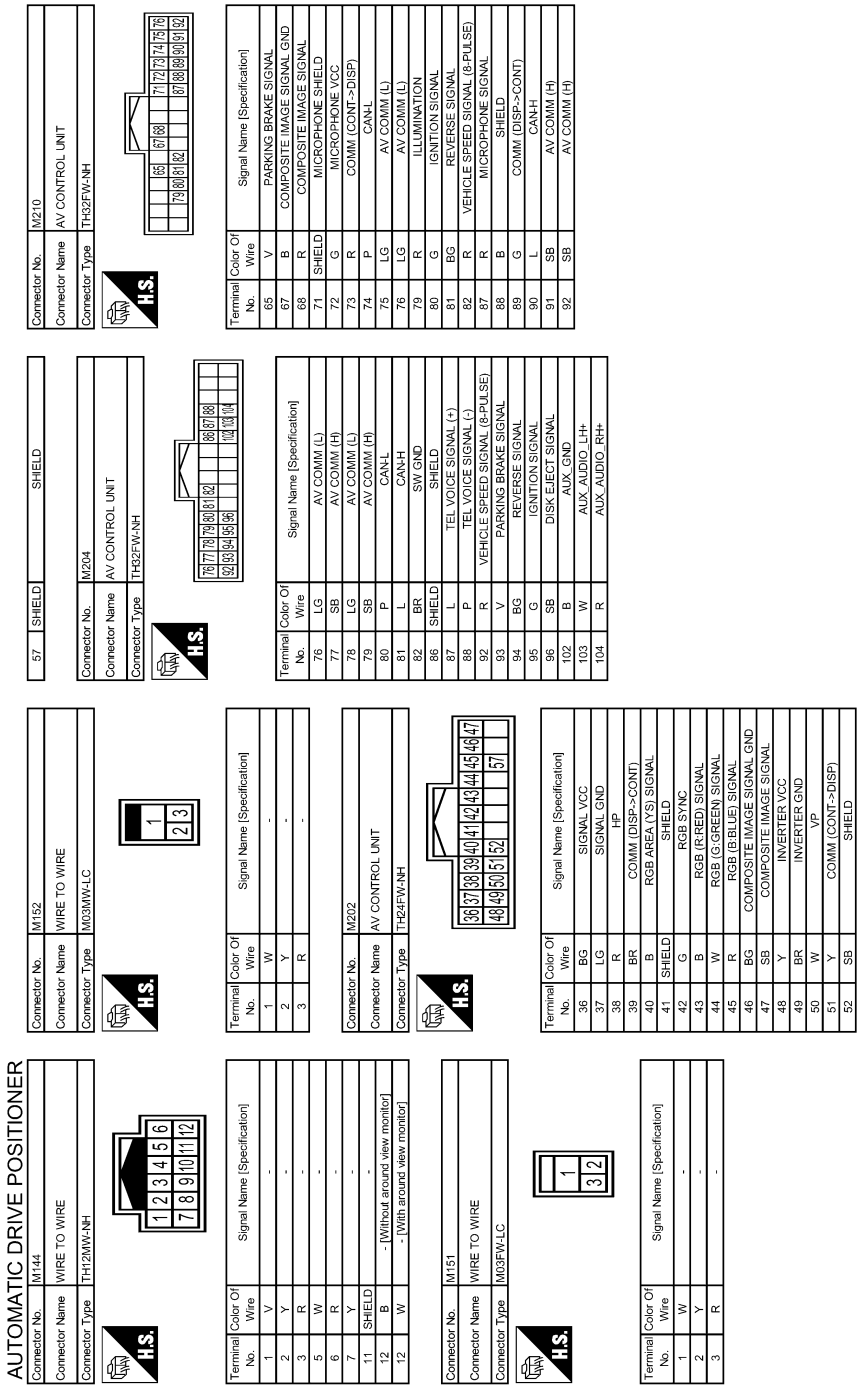

JRJWC5598GB




JRJWC5599GB




JRJWC5600GB




JRJWC5601GB

## Fail Safe

*INFOID:0000000011046195*

The fail-safe mode may be activated if the following symptoms are observed.

| 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:0000000011046196

| CONSULT display | Timing*1 | | Item | Reference page |
|---|---|---|---|---|
| | Current malfunction | Previous malfunction | | |
| 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:

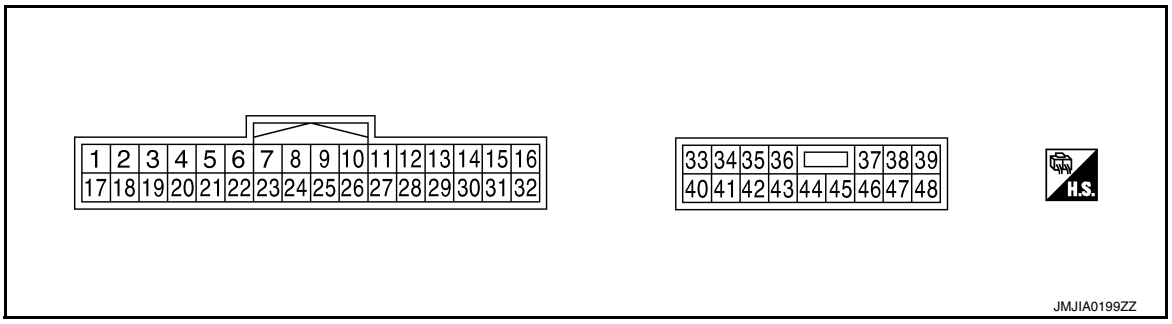
- 0: Current malfunction is present
- 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset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

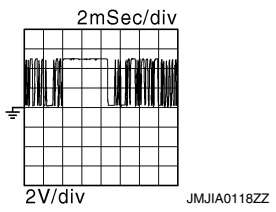
## Reference Value

INFOID:0000000011046197

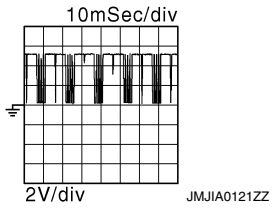
### TERMINAL LAYOUT




### 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 | |   |

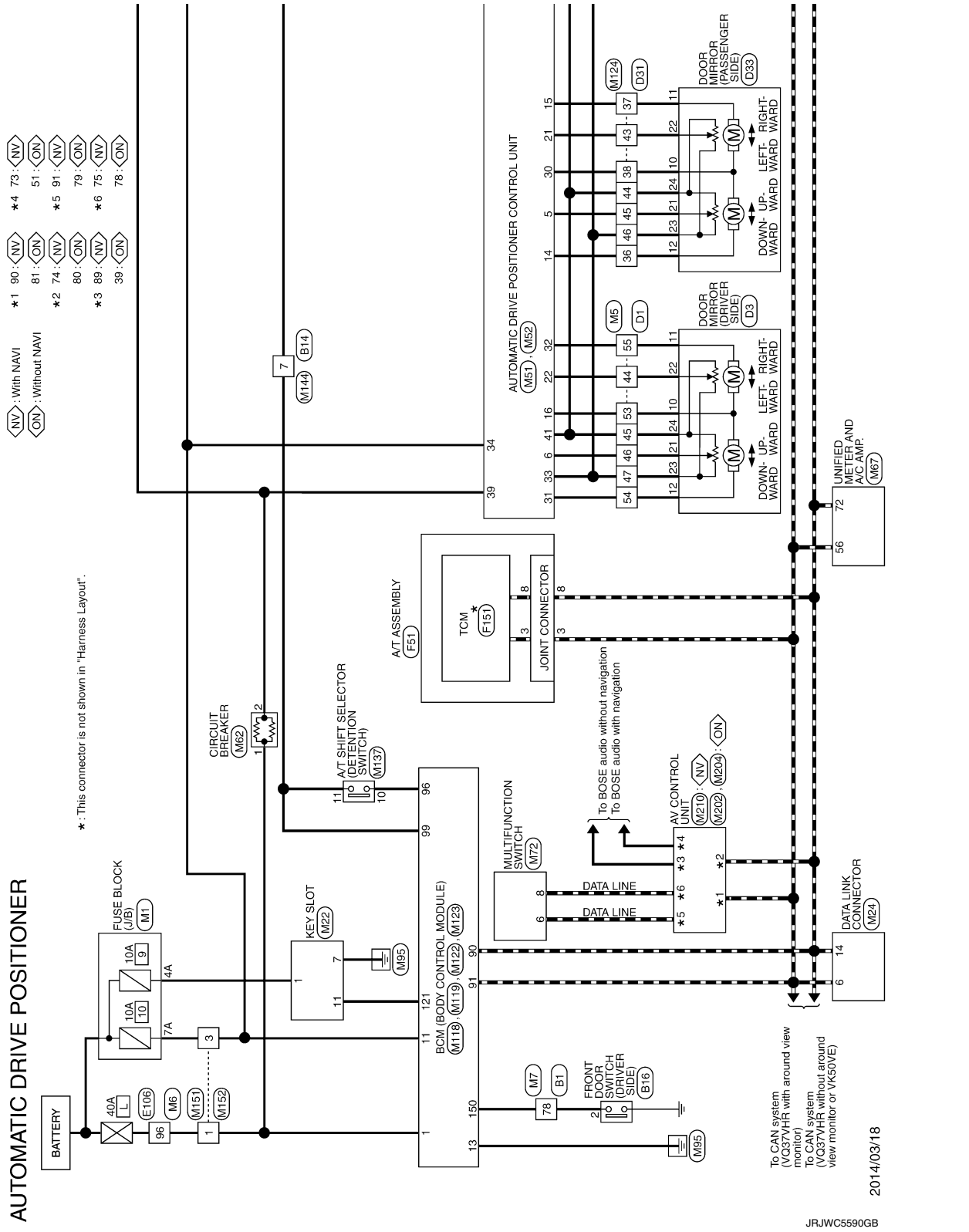
| Terminal No. (Wire color) | | Description | | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 11 (SB) | Ground | Telescopic switch forward signal | Input | Telescopic switch | Operate (forward) | 0 |
| | | | | | Other than above | 5 |
| 12 (BG) | Ground | Memory indictor 1 signal | Output | Memory indictor 1 | Illuminate | 0 |
| | | | | | Other than above | Battery voltage |
| 13 (P) | Ground | Memory indictor 2 signal | Output | Memory indictor 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) |

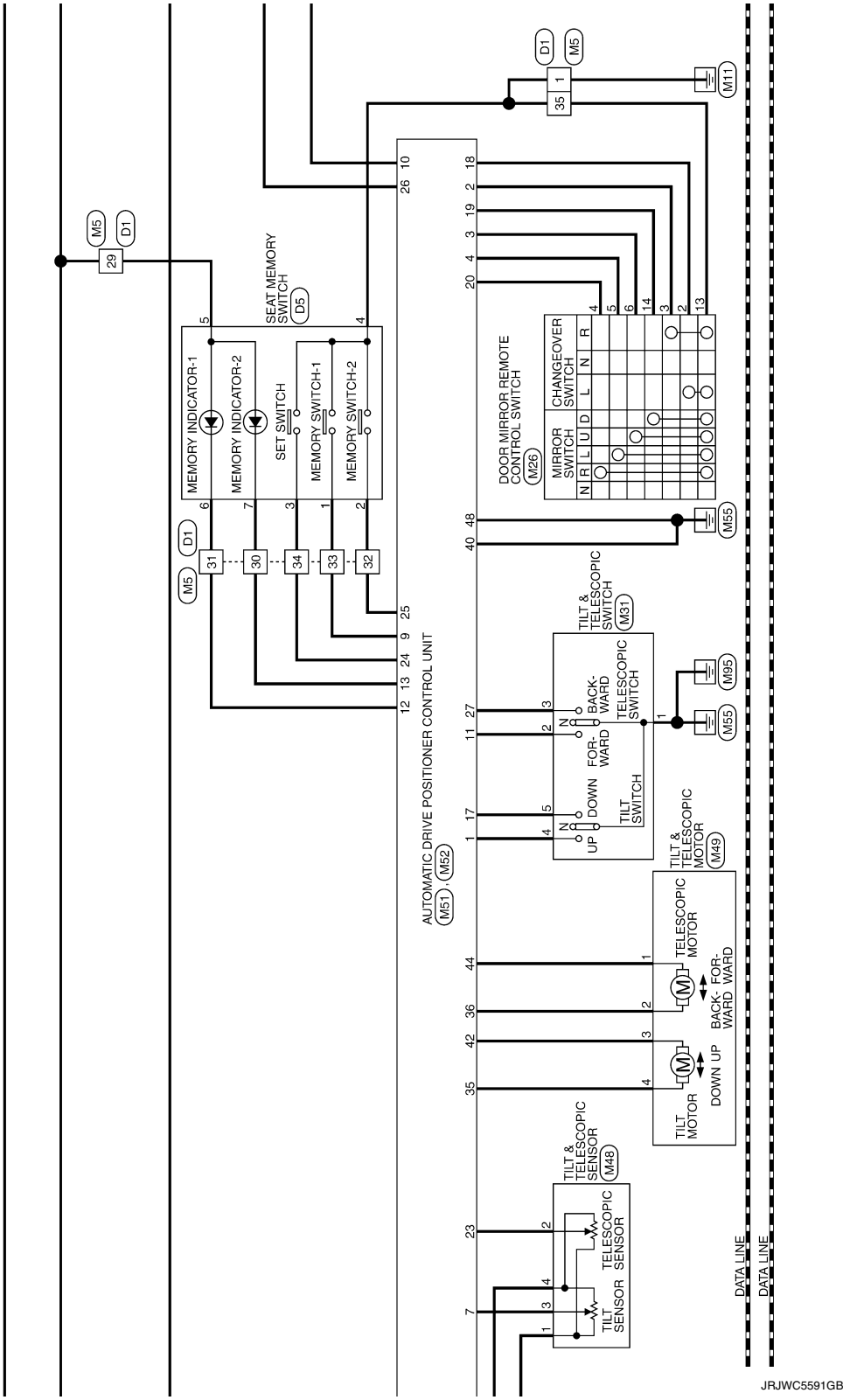
| Terminal No. (Wire color) | | Description | | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 24 (R) | Ground | Set switch signal | Input | Set switch | Push | 0 |
| | | | | | Other than above | 5 |
| 25 (SB) | Ground | Memory 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 backward 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 |

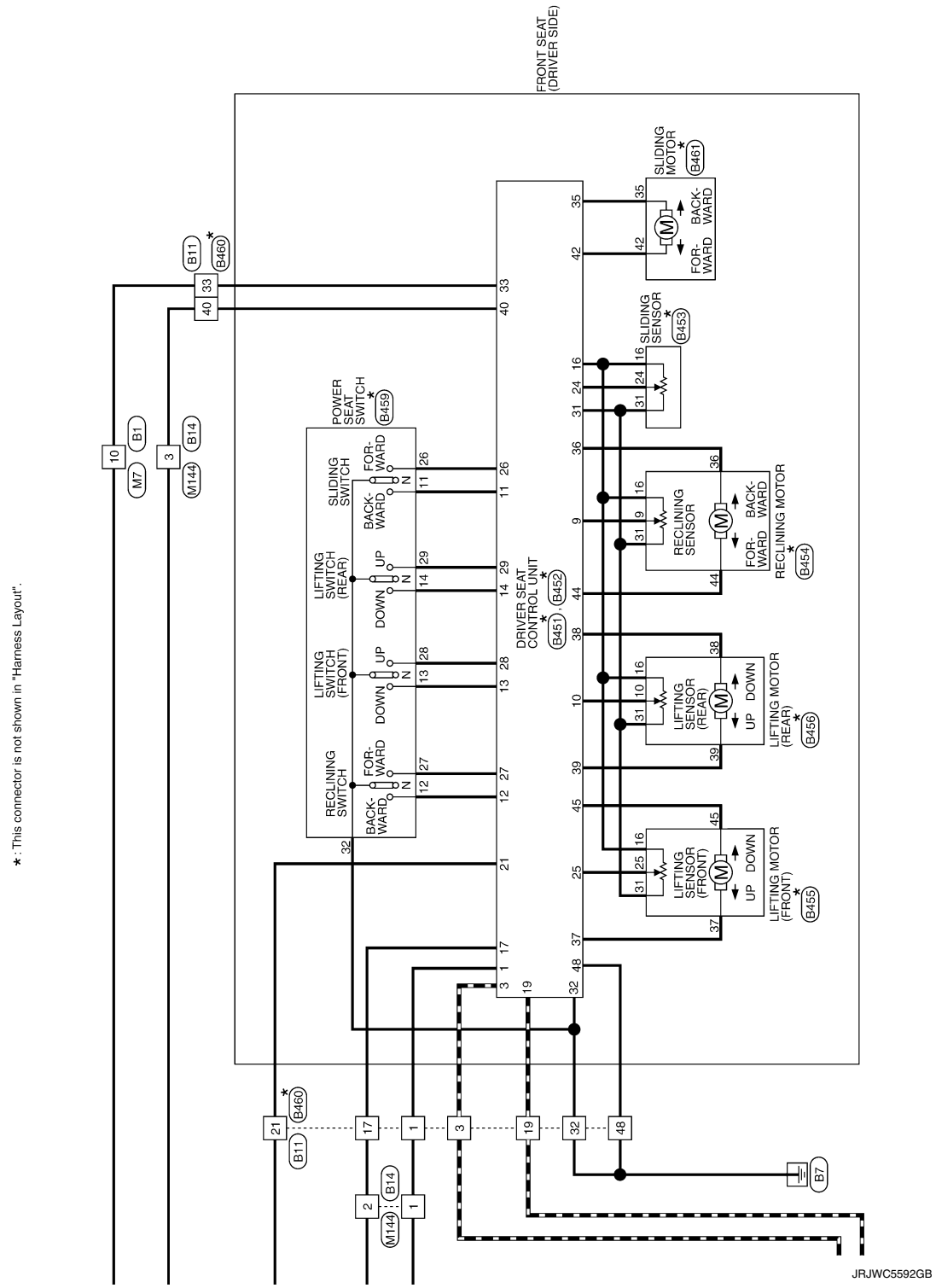
| Terminal No. (Wire color) | | Description | | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 41 (Y) | Ground | Sensor ground | — | — | | 0 |
| 42 (BG) | Ground | Tilt motor down output signal | Output | Steering tilt | Operate (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 |

## Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

INFOID:0000000011046198




AUTOMATIC DRIVE POSITIONER CONTROL UNIT
(M51), (M52)
SEAT MEMORY SWITCH
(D5)
MEMORY INDICATOR-1
MEMORY INDICATOR-2
SET SWITCH
MEMORY SWITCH-1
MEMORY SWITCH-2
DOOR MIRROR REMOTE CONTROL SWITCH
(M26)
MIRROR SWITCH
CHANGEOVER SWITCH
TILT & TELESCOPIC SWITCH
(M31)
TELESCOPIC SWITCH
TILT SWITCH
TILT & TELESCOPIC MOTOR
(M49)
TELESCOPIC MOTOR
TILT MOTOR
TILT & TELESCOPIC SENSOR
(M48)
TELESCOPIC SENSOR
TILT SENSOR
DATA LINE
DATA LINE
JRJWC5591GB

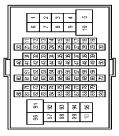



*: This connector is not shown in "Harness Layout".

AUTOMATIC DRIVE POSITIONER

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

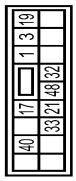
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | L | - |
| 3 | W | - |
| 6 | G | - |
| 7 | P | - |
| 8 | BG | - |
| 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 | - |
| 57 | P | - |
| 58 | L | - |
| 59 | SHIELD | - |
| 60 | L | - |
| 61 | P | - |
| 62 | GR | - |
| 63 | G | - |
| 64 | BG | - |
| 65 | W | - |
| 66 | V | - |
| 67 | LG | - |
| 68 | Y | - |
| 69 | G | - |
| 70 | GR | - |
| 71 | G | - |
| 72 | B | - |
| 73 | W | - |
| 74 | V | - |
| 75 | BG | - |
| 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 | - |
| 91 | R | - |
| 92 | BG | - |
| 93 | BR | - |
| 94 | V | - |
| 96 | BG | - |
| 97 | W | - |
| 98 | GR | - |
| 99 | W | - |

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

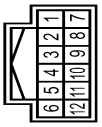
H.S.



| 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-NH |

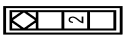
H.S.



| 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 |

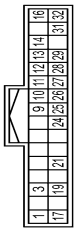
H.S.



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

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

H.S.



| 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 | L/Y | P RANGE SW |
| 24 | R | PULSE (SLIDING) |
| 25 | Y/B | PULSE (FR 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) |

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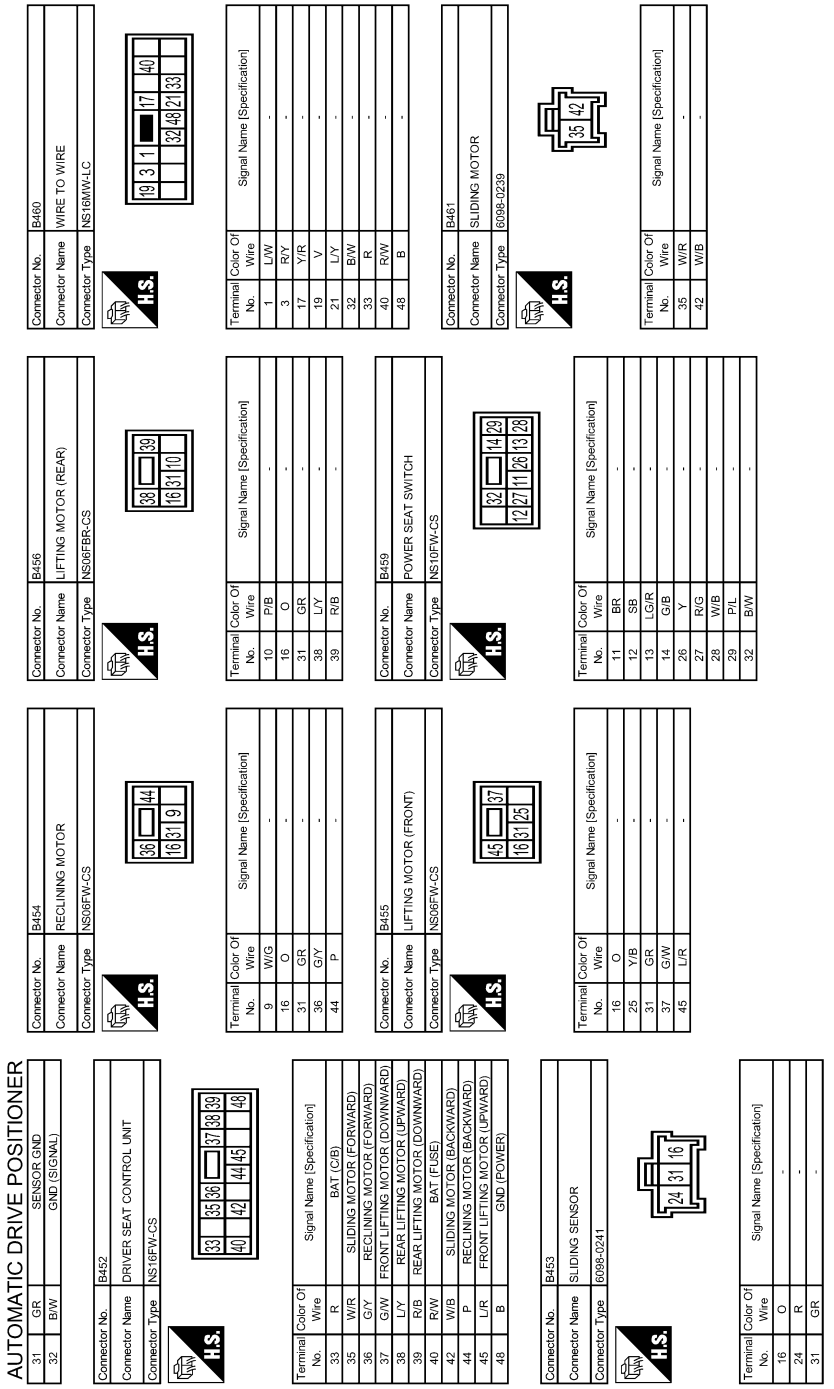


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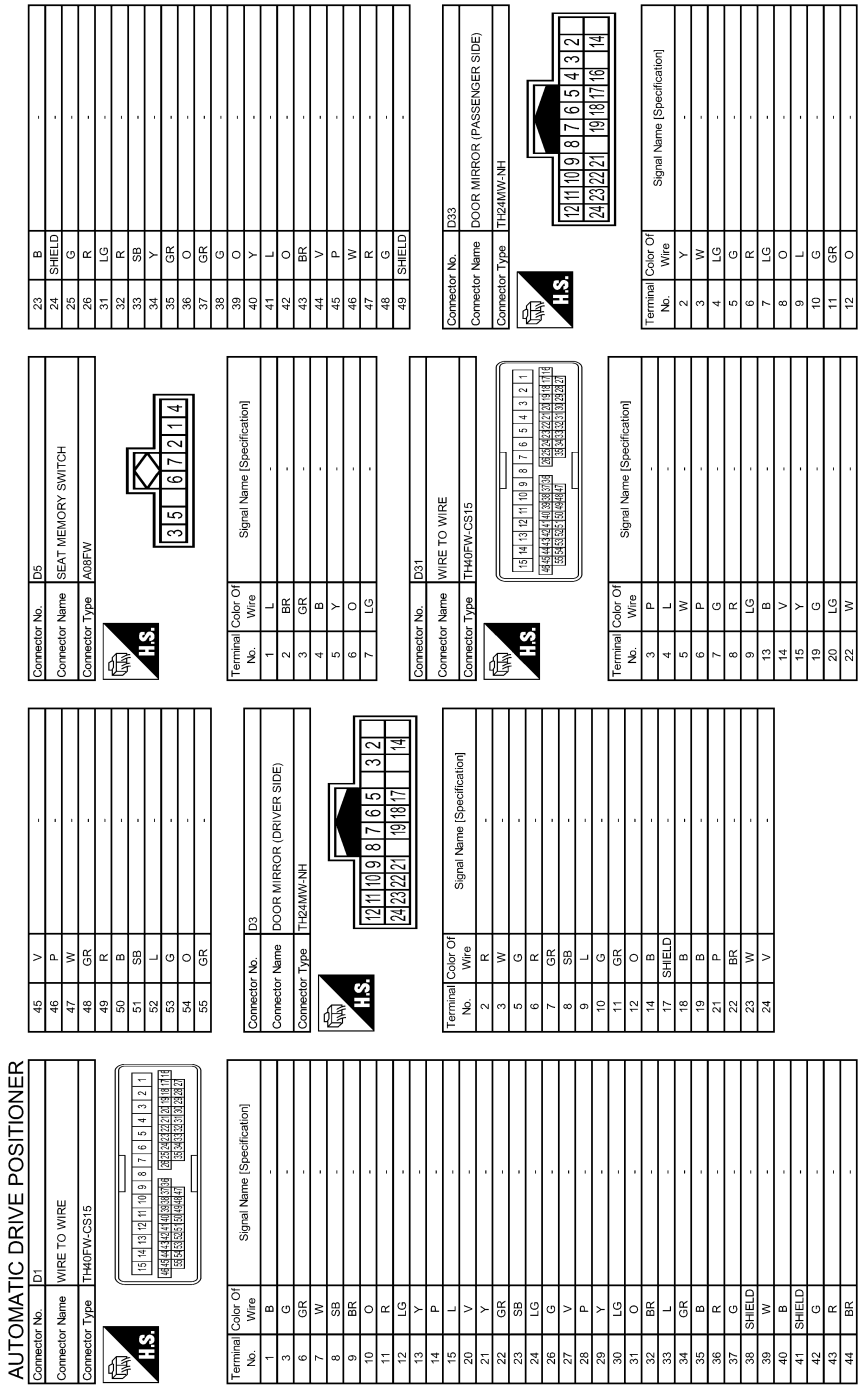


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AUTOMATIC DRIVE POSITIONER

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

| | | |
|---|---|---|
| 24 | L | - [With ICC] |
| 24 | P | - [Without ICC] |
| 25 | L | - [Without ICC] |
| 25 | Y | - [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 | - |

| | | |
|---|---|---|
| 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. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.

| Terminal No. | Color Of 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 | - |
| 20 | W | - [With ICC] |
| 20 | Y | - [Without ICC] |
| 21 | BR | - |
| 22 | R | - [With ICC] |
| 22 | V | - [Without ICC] |
| 23 | G | - |

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

H.S.

| 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] |
| 9 | LG | STARTER RELAY [With VK engine] |
| 10 | B | GROUND |

| | |
|---|---|
| Connector No. | F151 |
| Connector Name | TCM |
| Connector Type | SP10FG |

H.S.

| 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 | W/B | GROUND |

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

H.S.

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

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AUTOMATIC DRIVE POSITIONER

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

H.S.

| 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 | TH80MW-CS16-TM4 |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | BG | - |
| 3 | LG | - [Without Auto aircon seat] |
| 4 | SB | - [With Auto aircon seat] |
| 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 | - |
| 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 | - |
| 95 | G | - |
| 96 | W | - |
| 97 | W | - |
| 98 | SHIELD | - |
| 100 | Y | - |

| Connector No. | M7 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.

| 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 | - |

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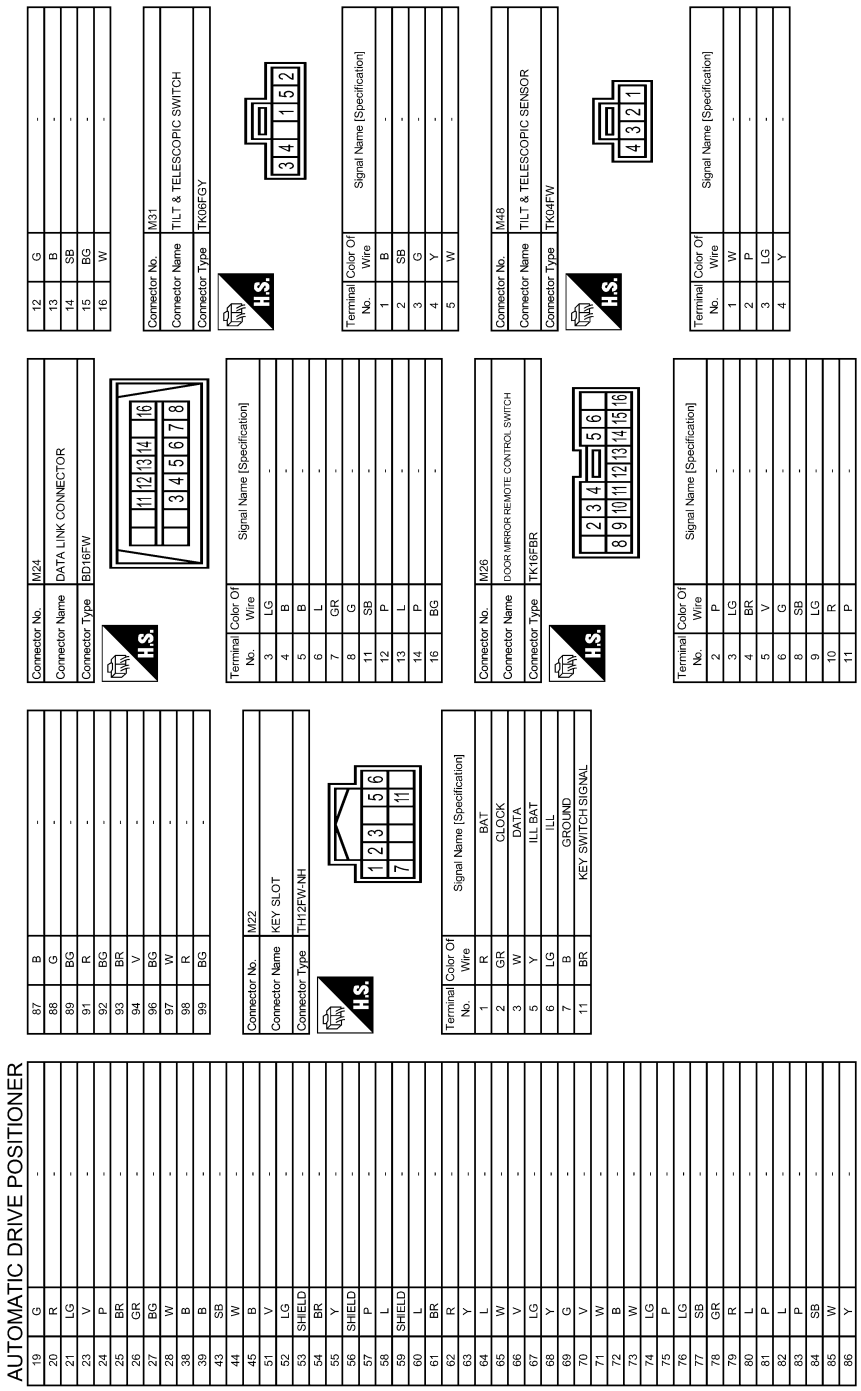


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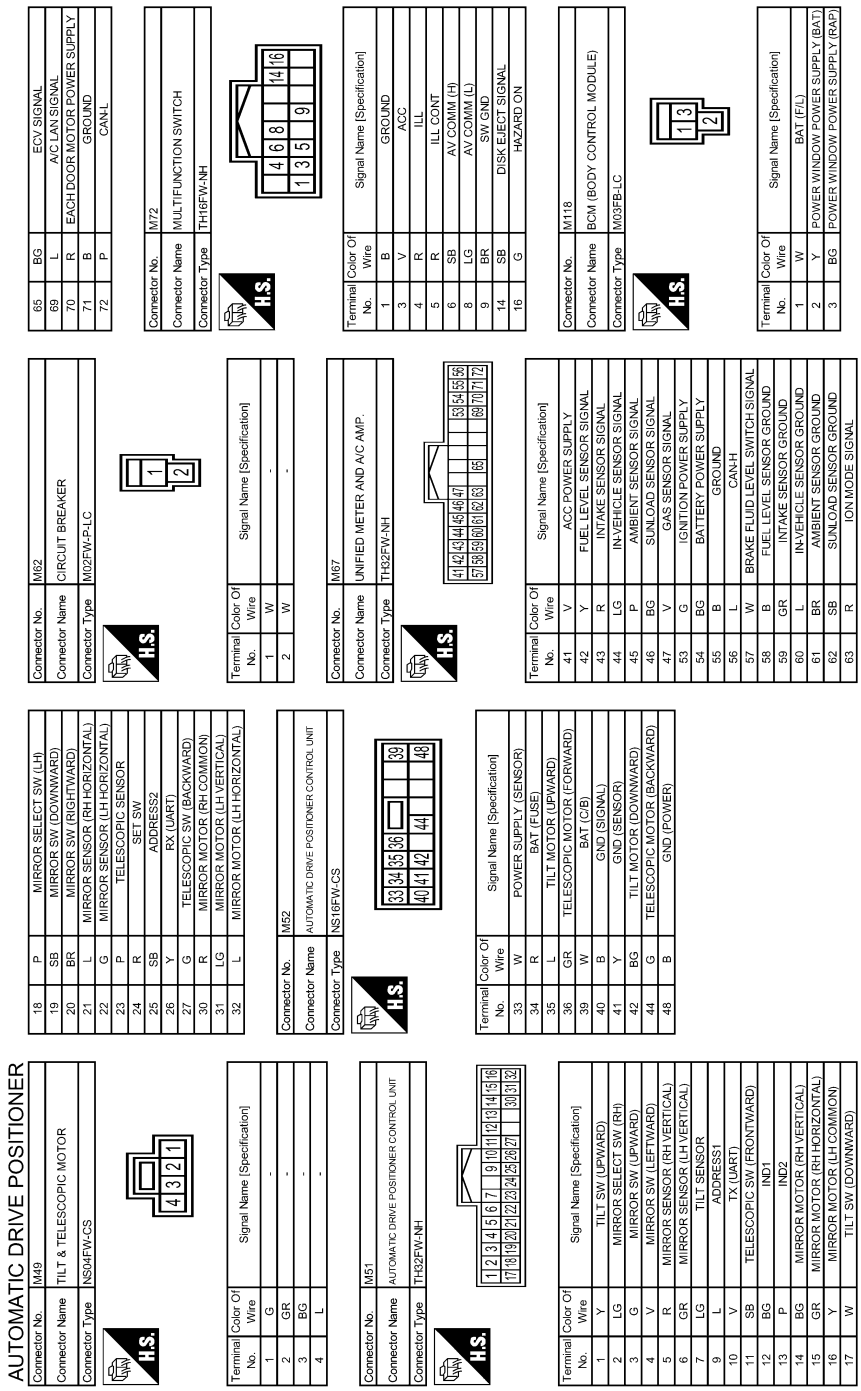


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AUTOMATIC DRIVE POSITIONER

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

H.S.




| 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 |

H.S.


| 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 | A/T 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 |

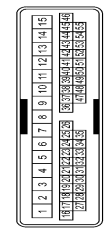
H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 112 | GR | RAIN SENSOR SERIAL LINK |
| 113 | P | OPLICAL 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 N/P |
| 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 DEFOGGER RELAY CONT |

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

H.S.

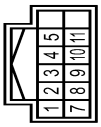



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | Y | - |
| 4 | LG | - |
| 5 | SB | - |
| 6 | BR | - |
| 7 | G | - |
| 8 | V | - |
| 9 | LG | - |
| 13 | B | - |
| 14 | BG | - |
| 15 | W | - |
| 19 | G | - |
| 20 | LG | - |
| 22 | W | - |
| 23 | B | - |
| 24 | SHIELD |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

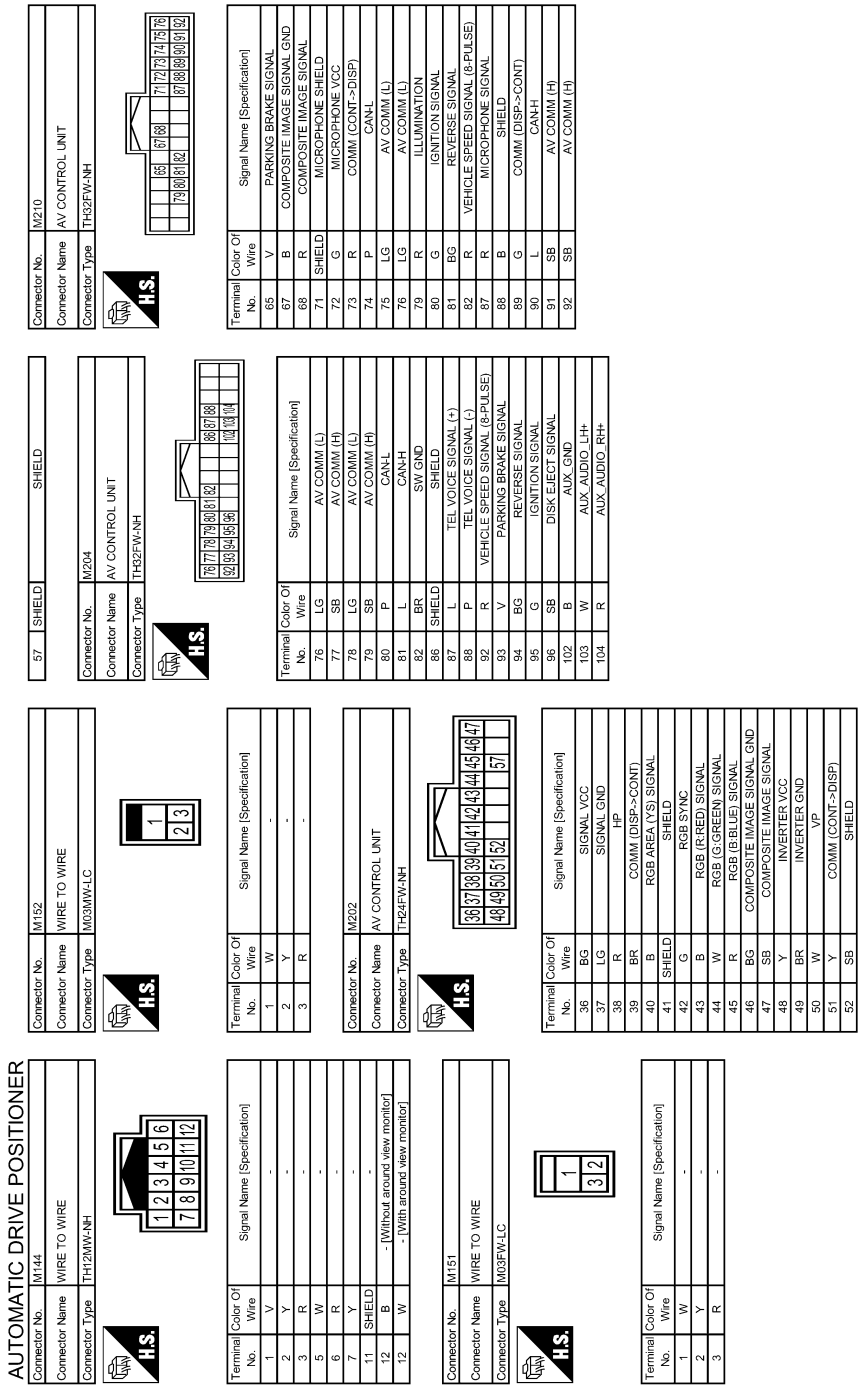
| Connector No. | M137 |
|---|---|
| Connector Name | A/T SHIFT SELECTOR |
| Connector Type | TH12FW-NH |

H.S.




| 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 | - |

JRJWC5600GB




JRJWC5601GB

# 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

## 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.

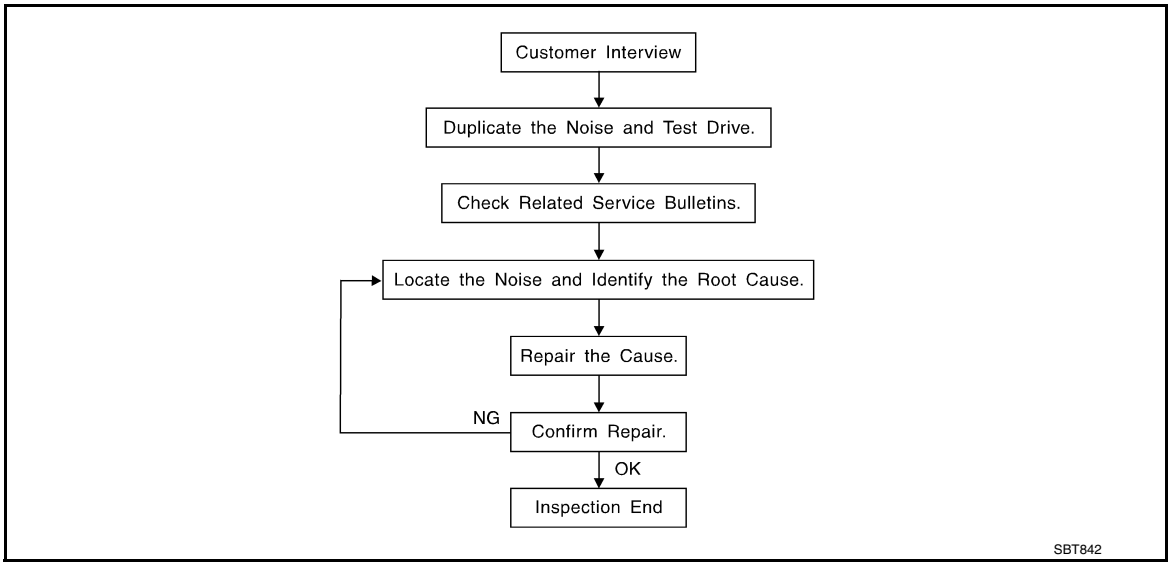
Is the result normal?

YES >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".
NO >> GO TO 1.

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

## Work Flow

INFOID:0000000010577294




### 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.

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

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:0000000010577295

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

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.

# Diagnostic Worksheet

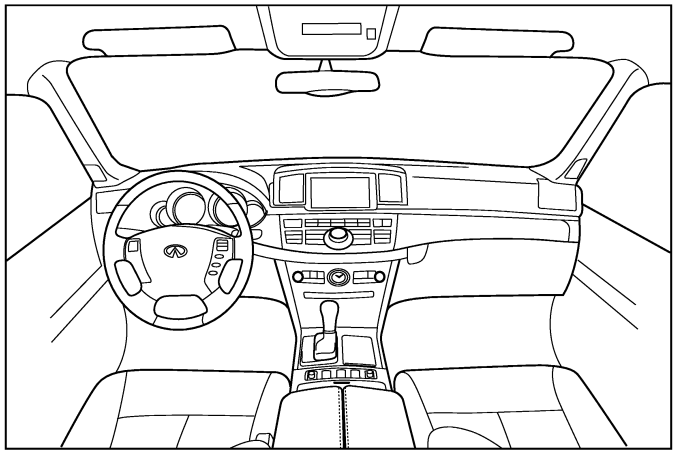
INFOID:0000000010577296

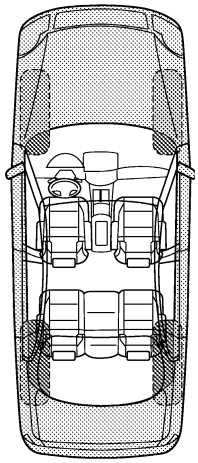
INFINITI.

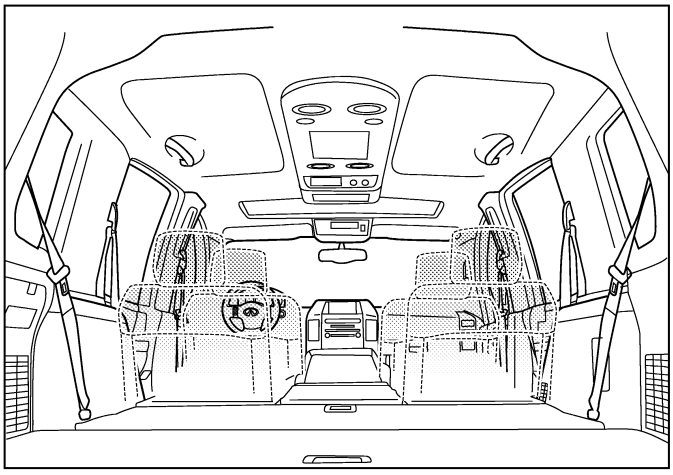
**SQUEAK & RATTLE DIAGNOSTIC WORKSHEET**

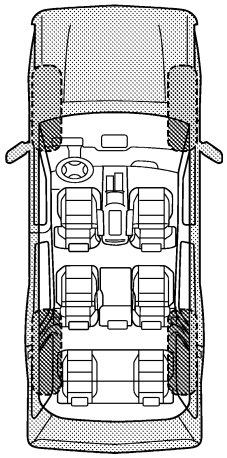
Dear Infiniti Customer:
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under 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.**

PIIB8741E

**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
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ 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:0000000010577297

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:**

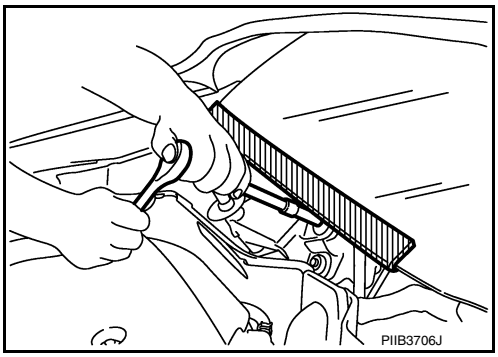
**Always observe the following items for preventing accidental activation.**

- **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

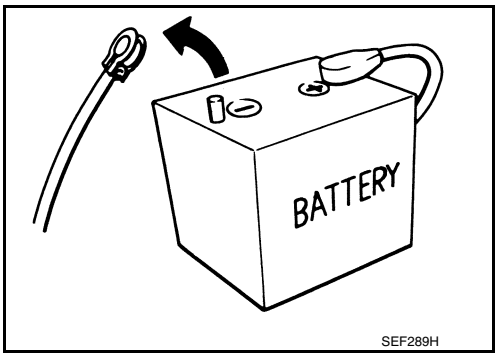
INFOID:0000000010783838

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



## Precautions for Removing Battery Terminal

INFOID:0000000010784285



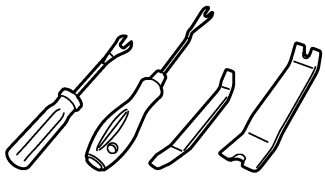

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  **NOTE:**
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption 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.

# PREPARATION

## PREPARATION

### Commercial Service Tools

INFOID:0000000010577299

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

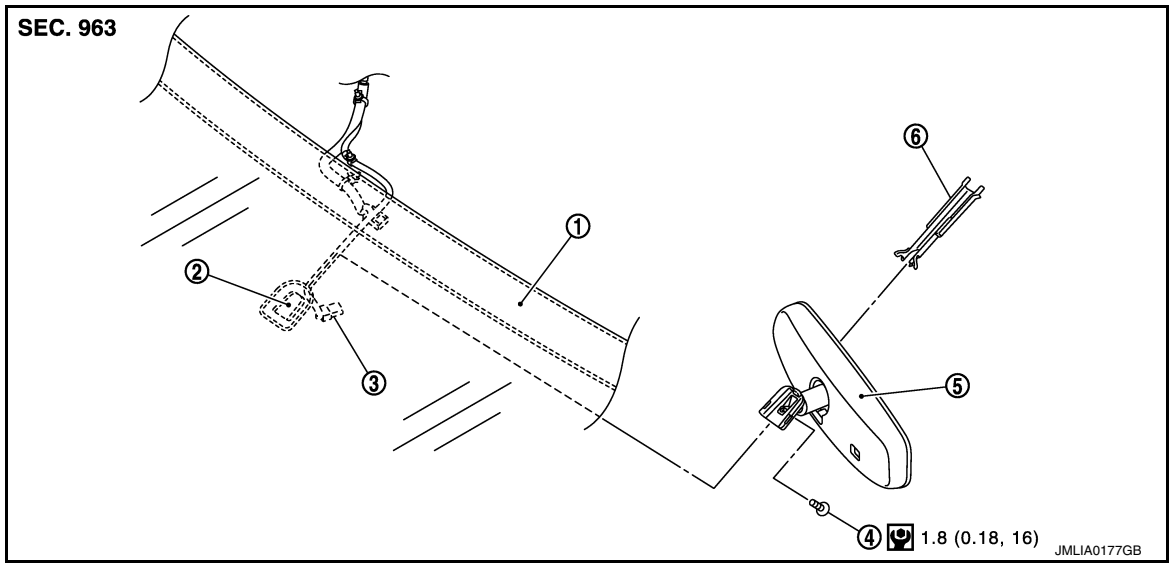
# REMOVAL AND INSTALLATION

## INSIDE MIRROR

### Exploded View

INFOID:0000000010577300

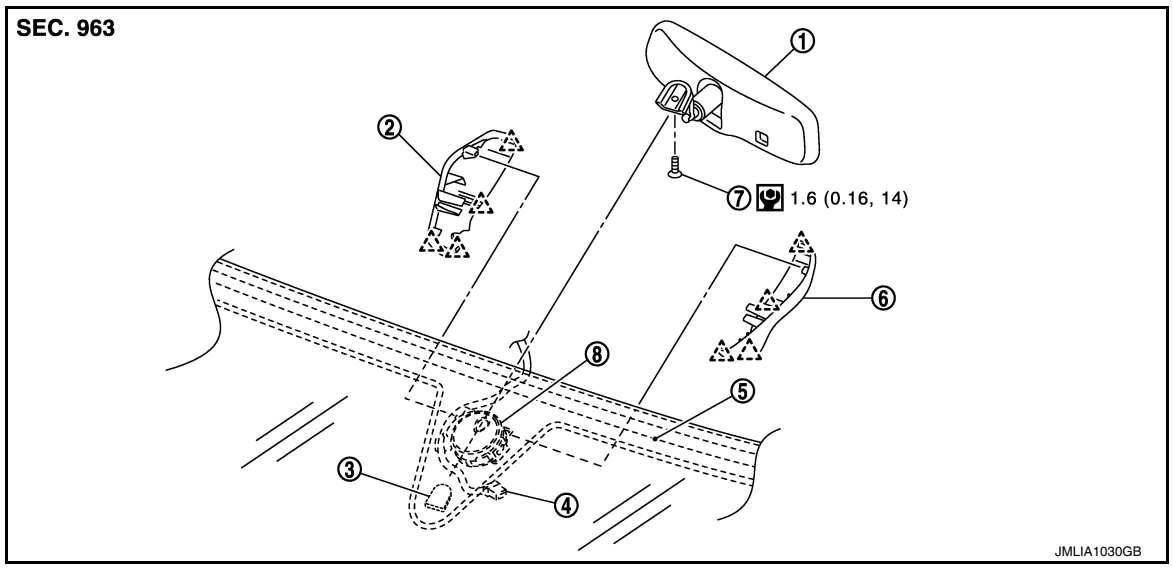
Base model




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: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.

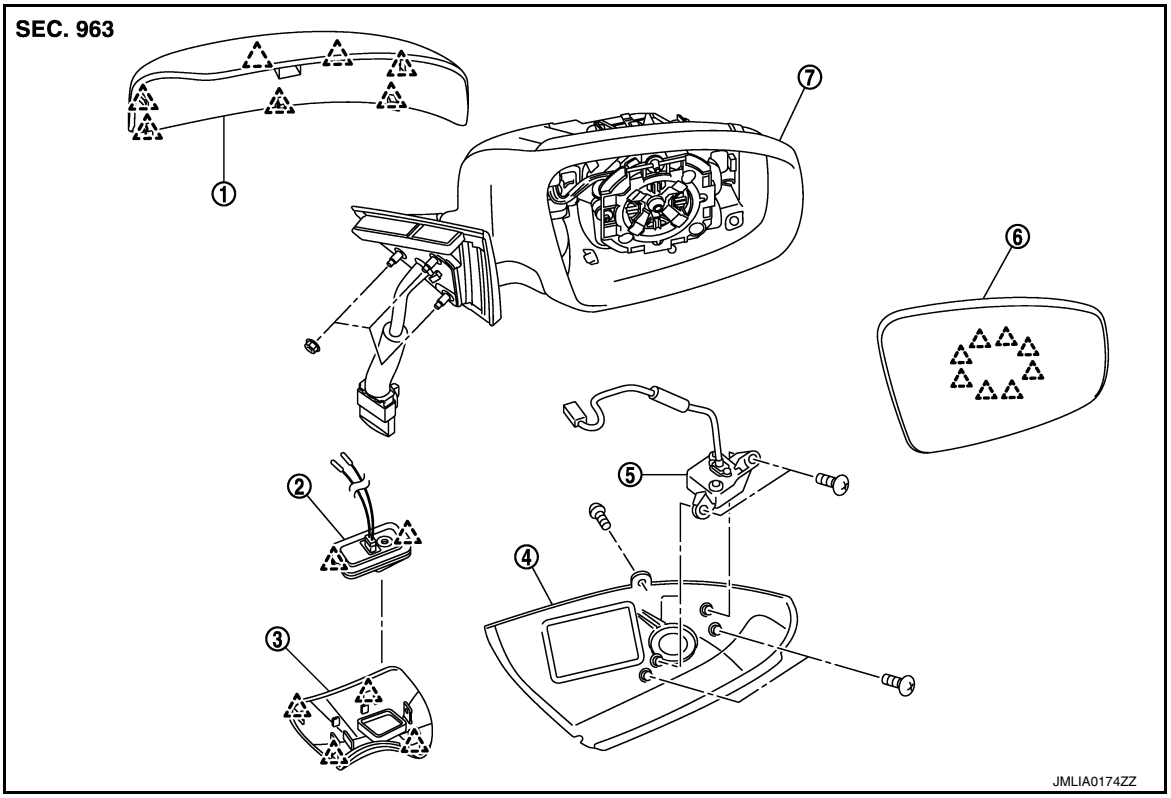
### INSTALLATION

Install in the reverse order of removal.

# DOOR MIRROR

## Exploded View

INFOID:0000000010577302




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:0000000010577303

#### 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".**

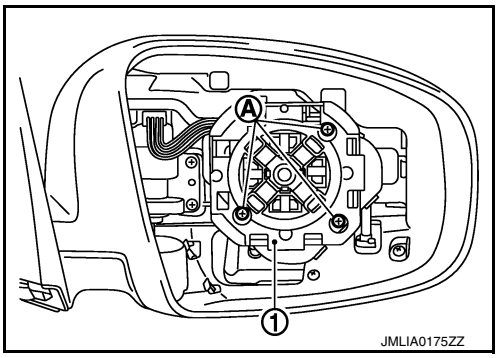
### DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000010577304

#### DISASSEMBLY

1. Remove door mirror assembly. Refer to MIR-75, "DOOR MIRROR ASSEMBLY : 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.

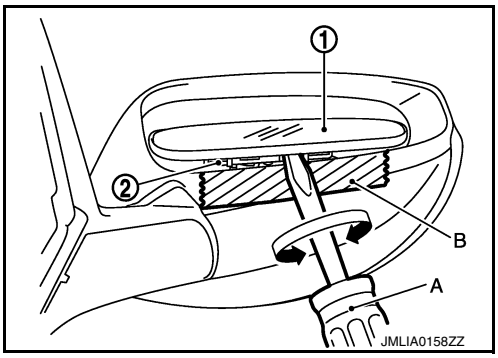
## GLASS MIRROR

### 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

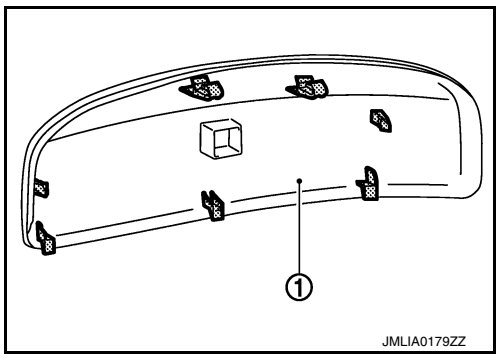
**CAUTION:**

**Never damage the mirror bodies.**

DISASSEMBLY

1. Remove the glass mirror. Refer to MIR-76, "GLASS MIRROR : Removal and Installation".

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.**

# DOOR MIRROR REMOTE CONTROL SWITCH

## Exploded View

INFOID:0000000010577307

Refer to INT-15, "Exploded View".

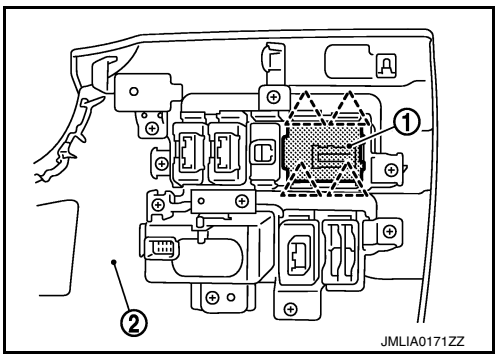
## Removal and Installation

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. |

# 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

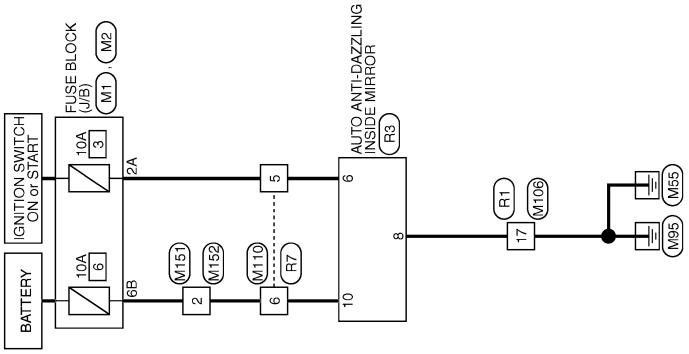
| Component | Function |
|---|---|
| Auto anti-dazzling inside mirror | It automatically changes the light transmittance according to the brightness of the light from the headlight of the vehicle behind. |

# DTC/CIRCUIT DIAGNOSIS

## AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

### Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000010577312




INSIDE MIRROR

2013/02/13

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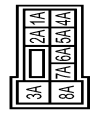
INSIDE MIRROR

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

H.S.




| 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 |

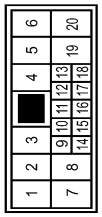
H.S.




| 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 |

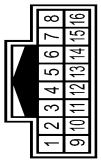
H.S.




| 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 |

H.S.




| 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 |

H.S.


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

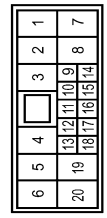
| Connector No. | M152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | M03MW-LC |

H.S.


| 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 |

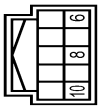
H.S.




| 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 |

H.S.




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

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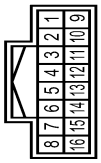
INSIDE MIRROR

| | |
|---|---|
| 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 | - |

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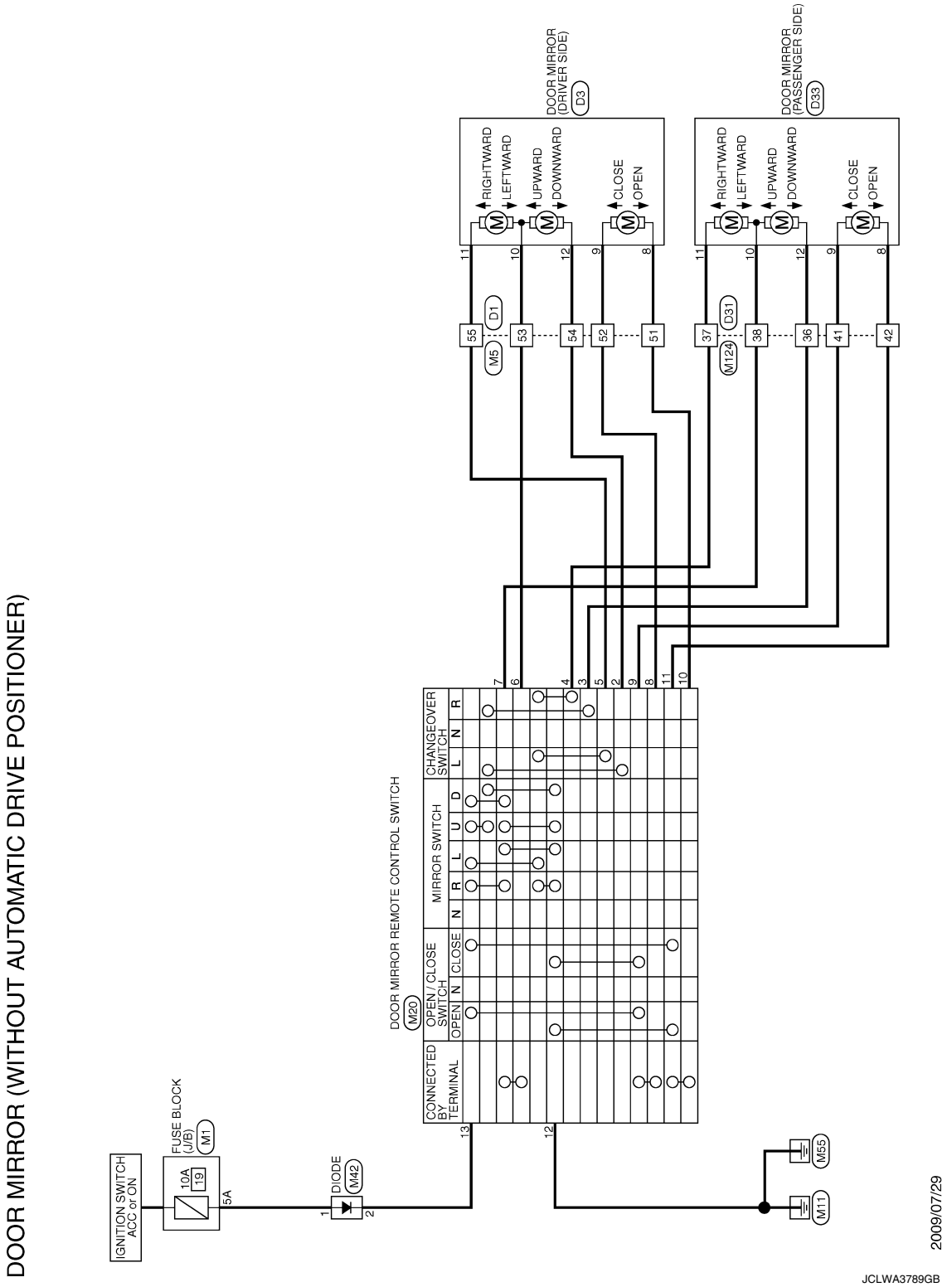
# MIRROR SYSTEM

## Wiring Diagram - MIRROR SYSTEM -

INFOID:0000000010577313



DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

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

H.S.

| 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 |

H.S.

| 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 |

H.S.

| 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 |

H.S.

| 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 | - |

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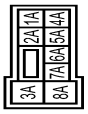
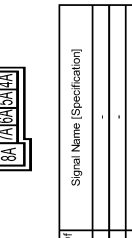
DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

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



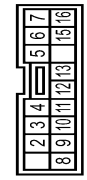
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1A | BG | - |
| 2A | G | - |
| 3A | L | - |
| 4A | R | - |
| 5A | V | - |
| 6A | Y | - |
| 7A | R | - |
| 8A | L | - |

| 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 | - |
| 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. | M20 |
|---|---|
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Type | TK16FW |

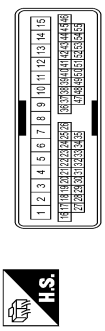


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 2 | LG | - |
| 3 | BG | - |
| 4 | GR | - |
| 5 | L | - |
| 6 | Y | - |
| 7 | G | - |
| 8 | R | - |
| 9 | P | - |
| 10 | SB | - |
| 11 | LG | - |
| 12 | B | - |
| 13 | G | - |
| 15 | BG | - |
| 16 | W | - |

| 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 | - [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 | - |

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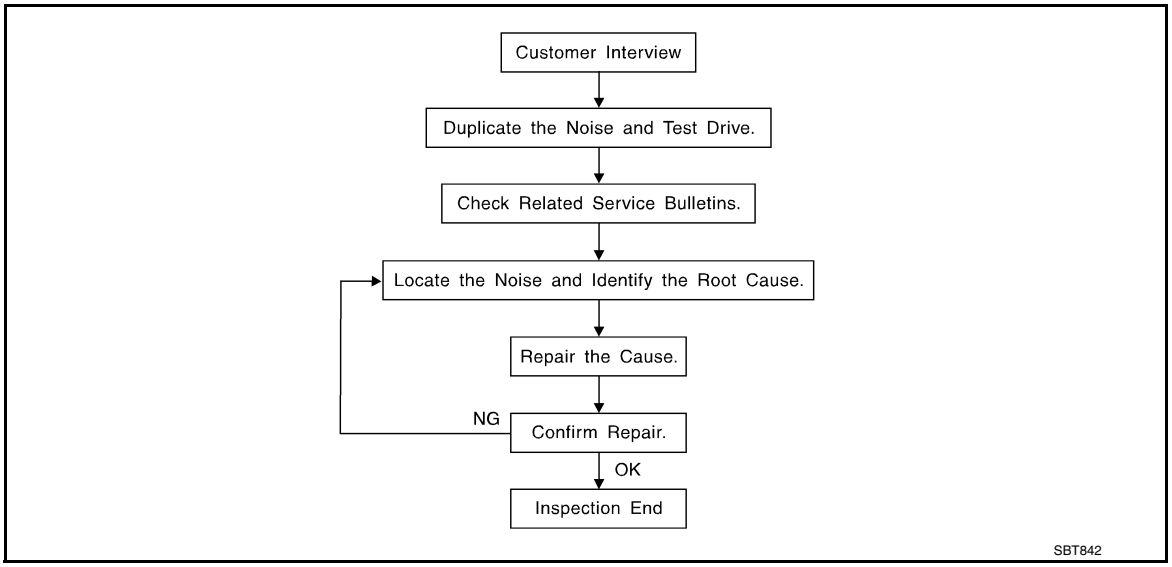
# SYMPTOM DIAGNOSIS

## 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

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 × 1.97in)
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
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

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.

## Diagnostic Worksheet

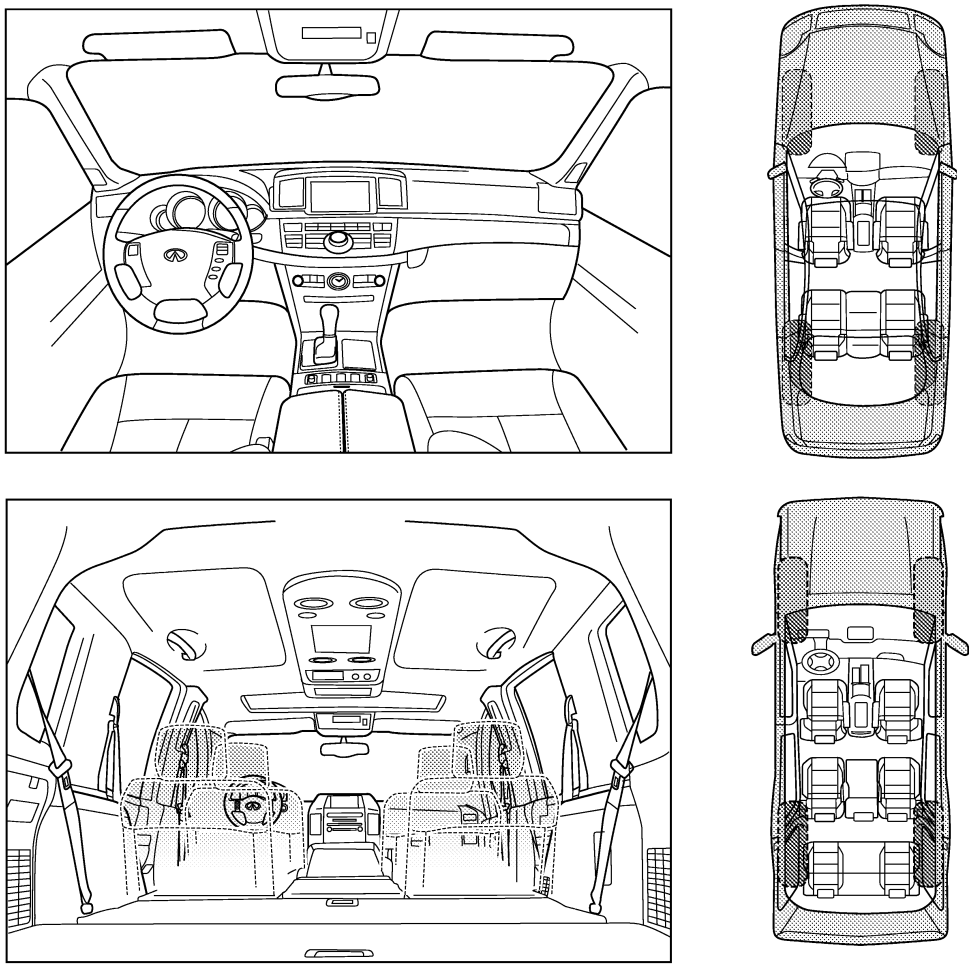
INFOID:0000000010577316

INFINITI.

**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.**

PIIB8741E

**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
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ 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:0000000010577317

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:**

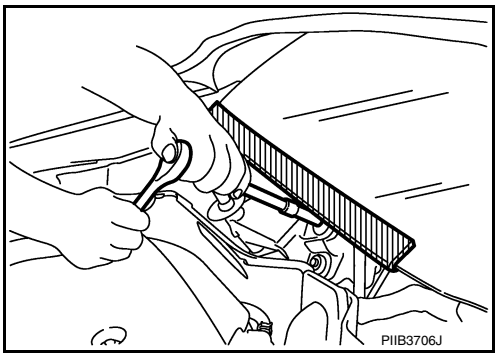
**Always observe the following items for preventing accidental activation.**

- **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

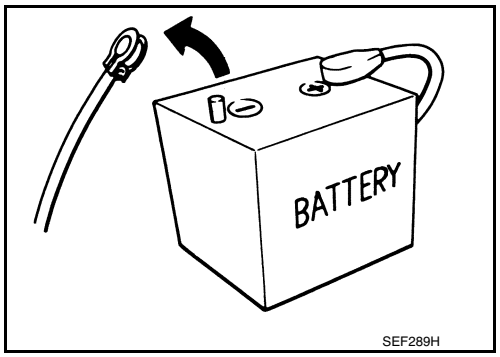
INFOID:0000000010784284

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



## Precautions for Removing Battery Terminal

INFOID:0000000010784287



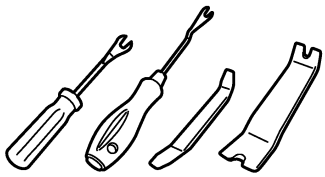

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  **NOTE:**
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption 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.

# PREPARATION

## PREPARATION

### Commercial Service Tools

INFOID:0000000010577319

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

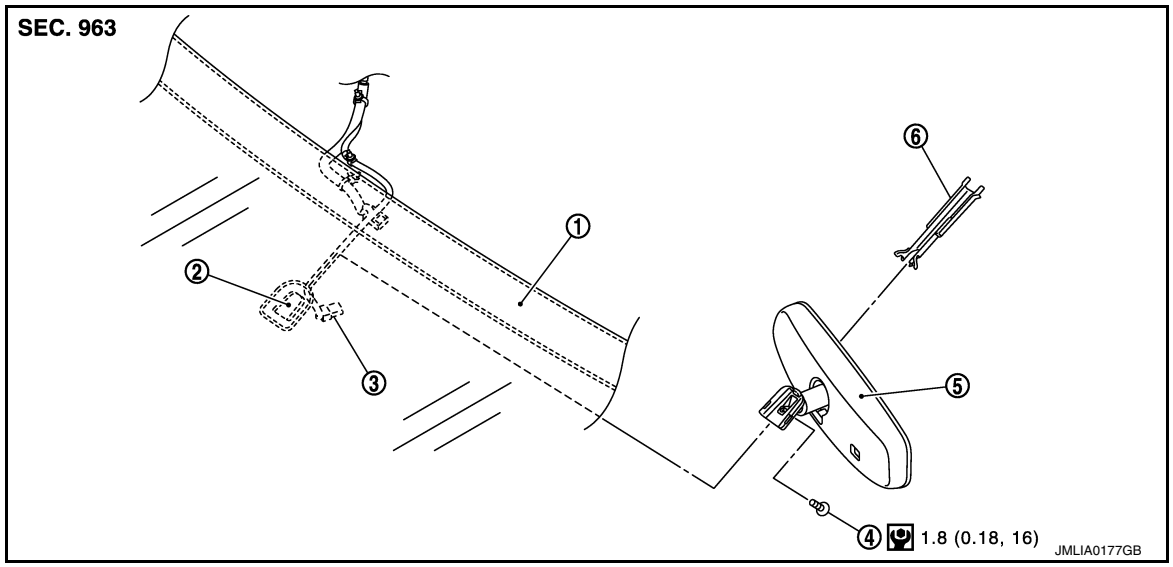
# REMOVAL AND INSTALLATION

## INSIDE MIRROR

### Exploded View

INFOID:0000000010577320

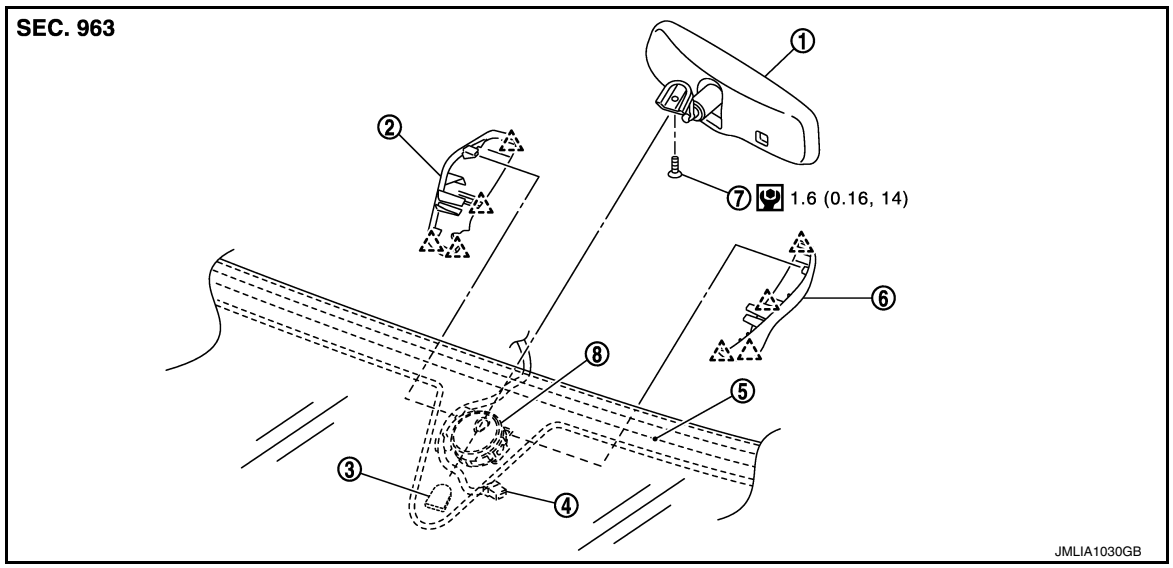
Base model




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.

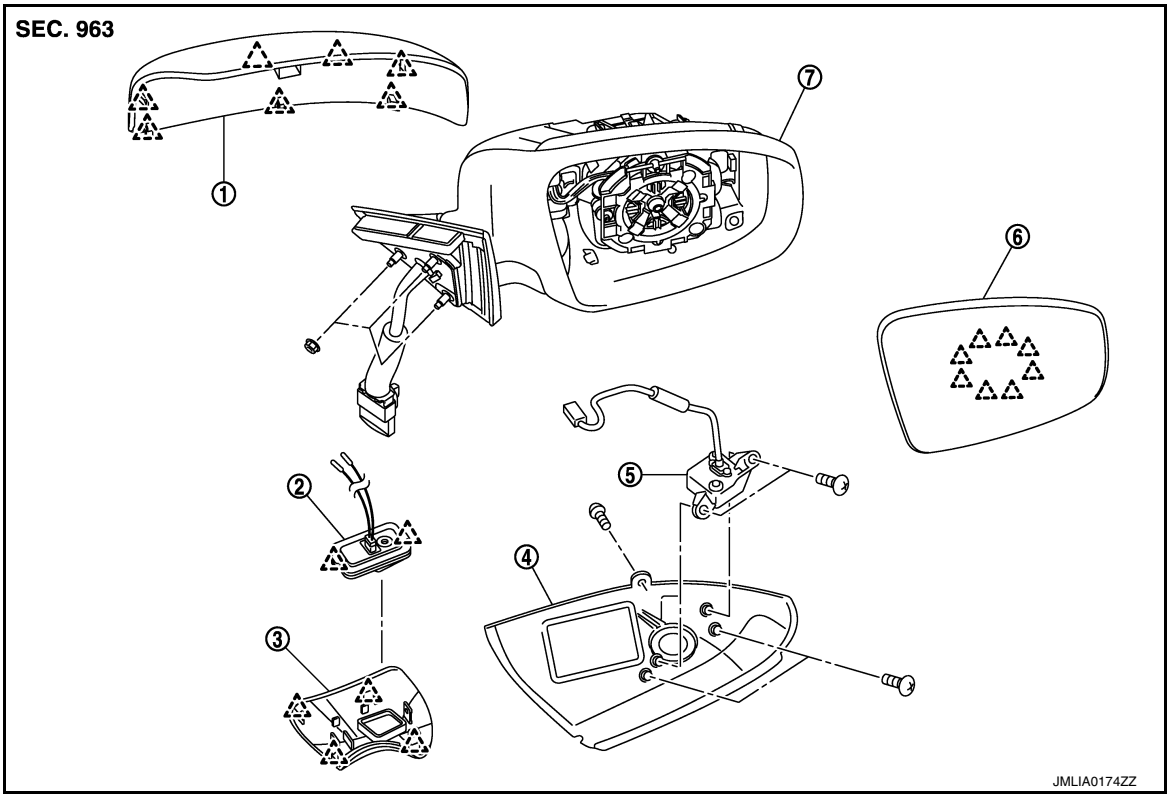
### INSTALLATION

Install in the reverse order of removal.

# DOOR MIRROR

## Exploded View

INFOID:0000000010577322




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".**

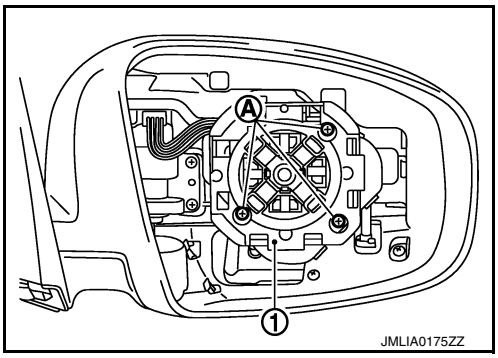
### DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000010577324

#### DISASSEMBLY

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

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.

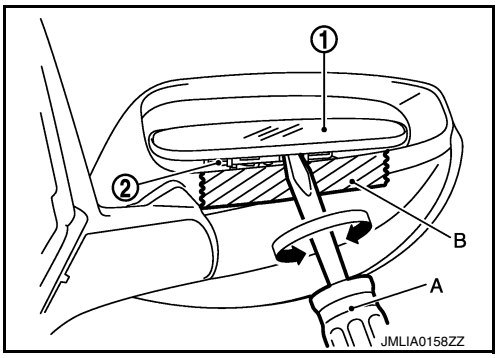
## GLASS MIRROR

### GLASS MIRROR : Removal and Installation

INFOID:0000000010577325

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

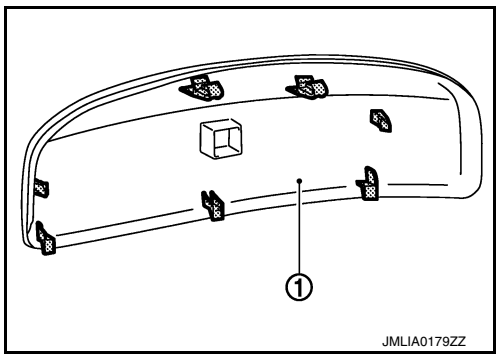
**CAUTION:**

**Never damage the mirror bodies.**

DISASSEMBLY

1. Remove the glass mirror. Refer to MIR-100, "GLASS MIRROR : Removal and Installation".

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.**

# DOOR MIRROR REMOTE CONTROL SWITCH

## Exploded View

INFOID:0000000010577327

Refer to INT-15, "Exploded View".

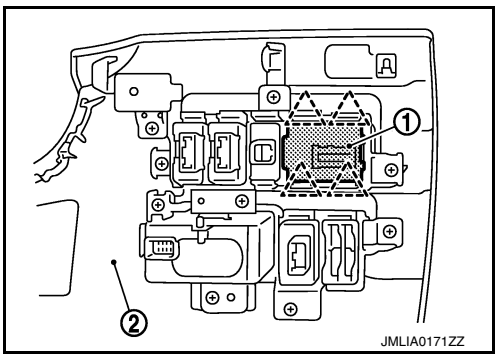
## Removal and Installation

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.