

SECTION **ADP**

AUTOMATIC DRIVE POSITIONER

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

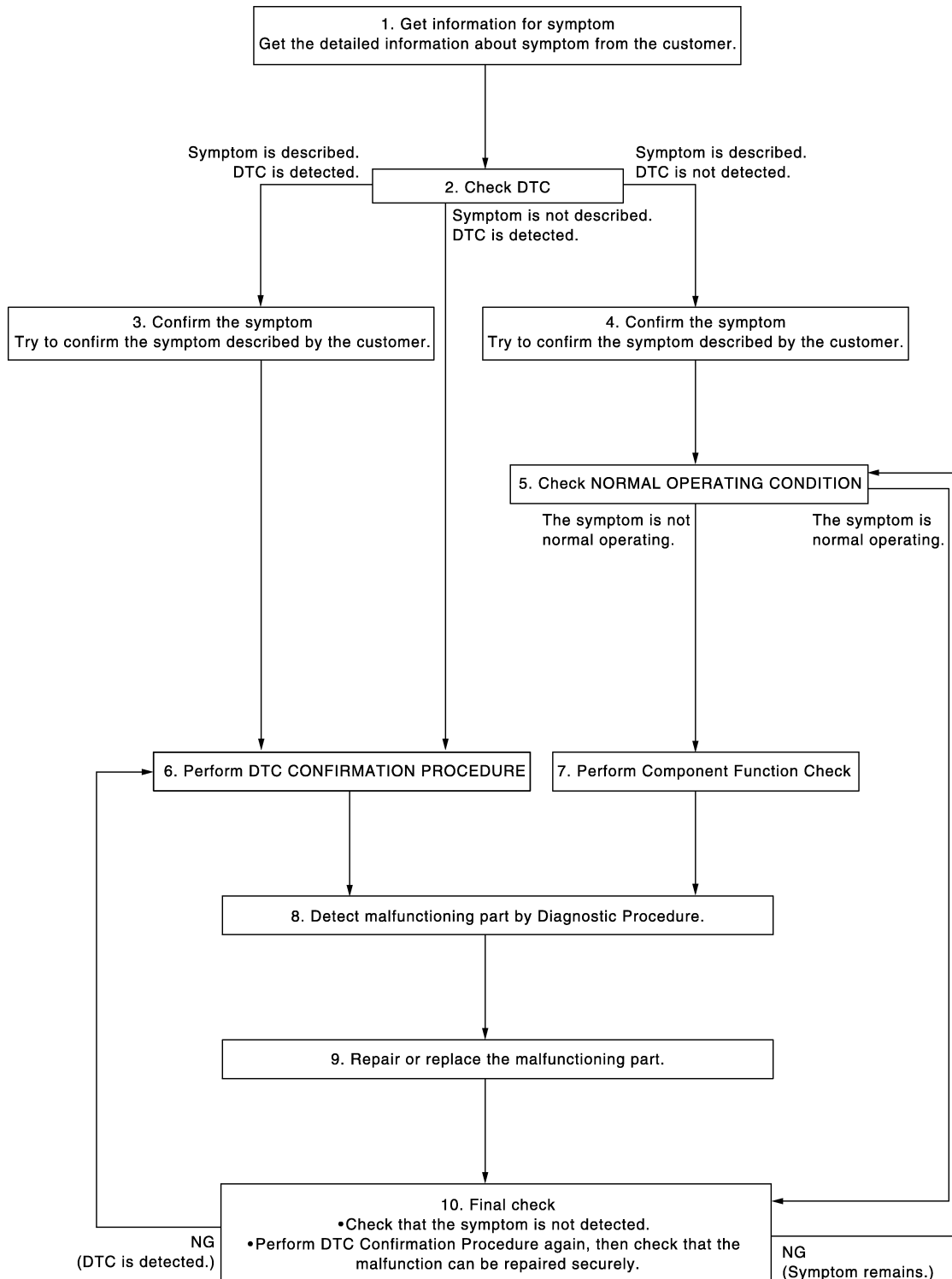
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012170466

OVERALL SEQUENCE



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DETAILED FLOW

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM

Check "Self Diagnostic Result" with CONSULT. Refer to [ADP-142, "DTC Index"](#).

Is any symptom described and any DTC is displayed?

Symptom is described, DTC is displayed.>>GO TO 3.

Symptom is not described, DTC is displayed.>>GO TO 6.

Symptom is described, DTC is not displayed.>>GO TO 4.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 6.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 5.

5.CHECK NORMAL OPERATING CONDITION

Check normal operating condition. Refer to [ADP-218, "Description"](#).

Is the incident normal operation?

YES >> INSPECTION END

NO >> GO TO 7.

6.PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 8.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

7.PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 8.

8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Isolate the malfunctioning point by performing the diagnosis procedure relevant to the symptom during the component diagnosis.

>> GO TO 9.

9.REPAIR OR REPLACE

Repair or replace the malfunctioning part.

>> GO TO 10.

10.FINAL CHECK

Perform the DTC confirmation procedure (if DTC is detected) or component function check (if no DTC is detected) again, and then check that the malfunction can be repaired securely.

Are all malfunctions corrected?

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

YES >> INSPECTION END
Symptom is detected.>> GO TO 5.
DTC is detected.>> GO TO 6.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000012170467

Each function is reset to the following condition when the battery terminal is disconnected. Refer to [ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

| Function | Condition | Procedure |
|---------------------------------|-----------|------------------------|
| Memory (Seat, steering, mirror) | Erased | Perform storing |
| Entry/exit assist | ON | Perform initialization |
| | | Set slide amount* |
| Intelligent Key interlock | Erased | Perform storing |
| Seat synchronization | OFF | — |

*: Default value is 40mm.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000012170468

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to [ADP-9, "SYSTEM INITIALIZATION : Description"](#).

>> GO TO 2.

2.SYSTEM SETTING

Perform system setting. Refer to [ADP-11, "SYSTEM SETTING : Description"](#).

>> GO TO 3.

3.MEMORY STORAGE

Perform memory storage. Refer to [ADP-9, "MEMORY STORING : Description"](#).

>> END

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000012170469

Each function is reset to the following condition when the driver seat control unit is replaced. Refer to [ADP-8, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

| Function | Condition | Procedure |
|---------------------------------|-----------|------------------------|
| Memory (Seat, steering, mirror) | Erased | Perform storing |
| Entry/exit assist | ON | Perform initialization |
| | | Set slide amount* |
| Intelligent Key interlock | Erased | Perform storing |
| Seat synchronization | OFF | — |

*: Default value is 40mm.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Re-

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

requirement

INFOID:000000012170470

1. SYSTEM INITIALIZATION

Perform system initialization. Refer to [ADP-9, "SYSTEM INITIALIZATION : Description"](#).

>> GO TO 2.

2. SYSTEM SETTING

Perform system setting. Refer to [ADP-11, "SYSTEM SETTING : Description"](#).

>> GO TO 3.

3. MEMORY STORAGE

Perform memory storage. Refer to [ADP-9, "MEMORY STORING : Description"](#).

>> END

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION : Description

INFOID:000000012170471

Always perform the initialization when the battery terminal is disconnected or the driver seat control unit is replaced.

The entry/exit assist function will not operate normally if no initialization is performed. Refer to [ADP-9, "SYSTEM INITIALIZATION : Special Repair Requirement"](#).

SYSTEM INITIALIZATION : Special Repair Requirement

INFOID:000000012170472

INITIALIZATION PROCEDURE

1. CHOOSE METHOD

There are two initialization methods.

Which method do you use?

With door switch>>GO TO 2.

With vehicle speed>>GO TO 4.

2. STEP A-1

Turn ignition switch from ACC to OFF position.

>> GO TO 3.

3. STEP A-2

Driver door switch is ON (open) → OFF (close) → ON (open).

>> END

4. STEP B-1

Drive the vehicle at more than 25 km/h (16 MPH).

>> END

MEMORY STORING

MEMORY STORING : Description

INFOID:000000012170473

Always perform the memory storage when the battery terminal is disconnected or the driver seat control unit is replaced. The memory function and Intelligent Key interlock function will not operate normally if no memory storage is performed. Refer to [ADP-10, "MEMORY STORING : Special Repair Requirement"](#).

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

MEMORY STORING : Special Repair Requirement

INFOID:000000012170474

Memory Storage Procedure

Two positions for the driver seat, steering column and outside mirror can be stored for memory operation by following procedure.

1.STEP 1

Check all of the following conditions are satisfied.

- Engine is not in running status.
- Power seat switch, tilt & telescopic switch, door mirror remote control switch are OFF.
- Automatic drive positioner system any function are not operating.
- CONSULT is not connected.

>> GO TO 2.

2.STEP 2

Adjust driver seat, steering column and outside mirror position manually.

>> GO TO 3.

3.STEP 3

1. Push set switch.

NOTE:

- Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.
 - Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 second.
2. Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch.

NOTE:

- When registration is performed correctly, the combination meter buzzer sounds.
- If memory is stored in the same memory switch, the previous memory will be deleted.

Do you need linking of Intelligent Key?

YES >> GO TO 5.

NO >> GO TO 4.

4.STEP 4

Confirm the operation of each part with memory operation.

>> END

5.STEP 5

Push the Intelligent Key unlock button within 5 seconds after pushing memory switch (while the memory indicator is turned ON).

NOTE:

When registration is performed correctly, the memory indicator blinks for 5 seconds and combination meter buzzer sounds.

>> GO TO 6.

6.STEP 6

Confirm the operation of each part with memory operation and Intelligent Key interlock operation.

>> END

SYSTEM SETTING

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

SYSTEM SETTING : Description

INFOID:000000012170475

The settings of the automatic driving positioner system can be changed, using CONSULT, the set switch. Always check the settings before and after disconnecting the battery terminal or replacing driver seat control unit. Refer to [ADP-11, "SYSTEM SETTING : Special Repair Requirement"](#).

Setting Change

x: Applicable

| Item | Content | CONSULT | Set switch | Factory setting |
|--|---|---------|------------|-----------------|
| Amount of seat sliding for entry/exit assist | The amount of seat sliding for entry/exit assist can be selected from 3 items. [40mm/80mm/150mm] | x | — | 40mm |
| Entry/exit assist (seat) | Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated) | x | x | OFF |
| Entry/exit assist (steering column) | Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated) | x | | ON |
| Seat synchronization | Seat synchronization can be selected: ON (operated) – OFF (not operated) | — | x | OFF |

SYSTEM SETTING : Special Repair Requirement

INFOID:000000012170476

1. CHOOSE METHOD

There are two ways of setting method.

Which method do you choose?

With CONSULT>>GO TO 2.

With set switch>>GO TO 5.

2. WITH CONSULT - STEP 1

Select "Work support".

>> GO TO 3.

3. WITH CONSULT - STEP 2

1. Select "EXIT SEAT SLIDE SETTING", or "EXIT TILT SETTING" then touch display to change between ON and OFF.
 - EXIT SEAT SLIDE SETTING: Entry/exit assist (seat)
 - EXIT TILT SETTING: Entry/exit assist (steering column)
2. Select "SEAT SLIDE VOLUME SET" and touch either of "40 mm", "80 mm", or "150 mm".
3. Then touch "OK".

>> GO TO 4.

4. CONFIRM THE OPERATION

Check the entry/exit assist function setting is changed.

Is the setting changed?

YES >> END

NO >> GO TO 1.

5. WITH SET SWITCH - STEP 1

1. Turn ignition switch OFF.
2. Push setting button and hold for more than 10 seconds.

>> GO TO 6.

6. CONFIRM THE OPERATION

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

Check the entry/exit assist function setting is changed.

Is the setting changed?

YES >> GO TO 7.

NO >> GO TO 1.

7. WITH SET SWITCH - STEP 2

1. Turn ignition switch ACC
2. Push setting button and hold for more than 10 seconds.

>> GO TO 8.

8. CONFIRM THE OPERATION

Check the seat synchronization function setting is changed.

Is the setting changed?

YES >> END

NO >> GO TO 7.

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

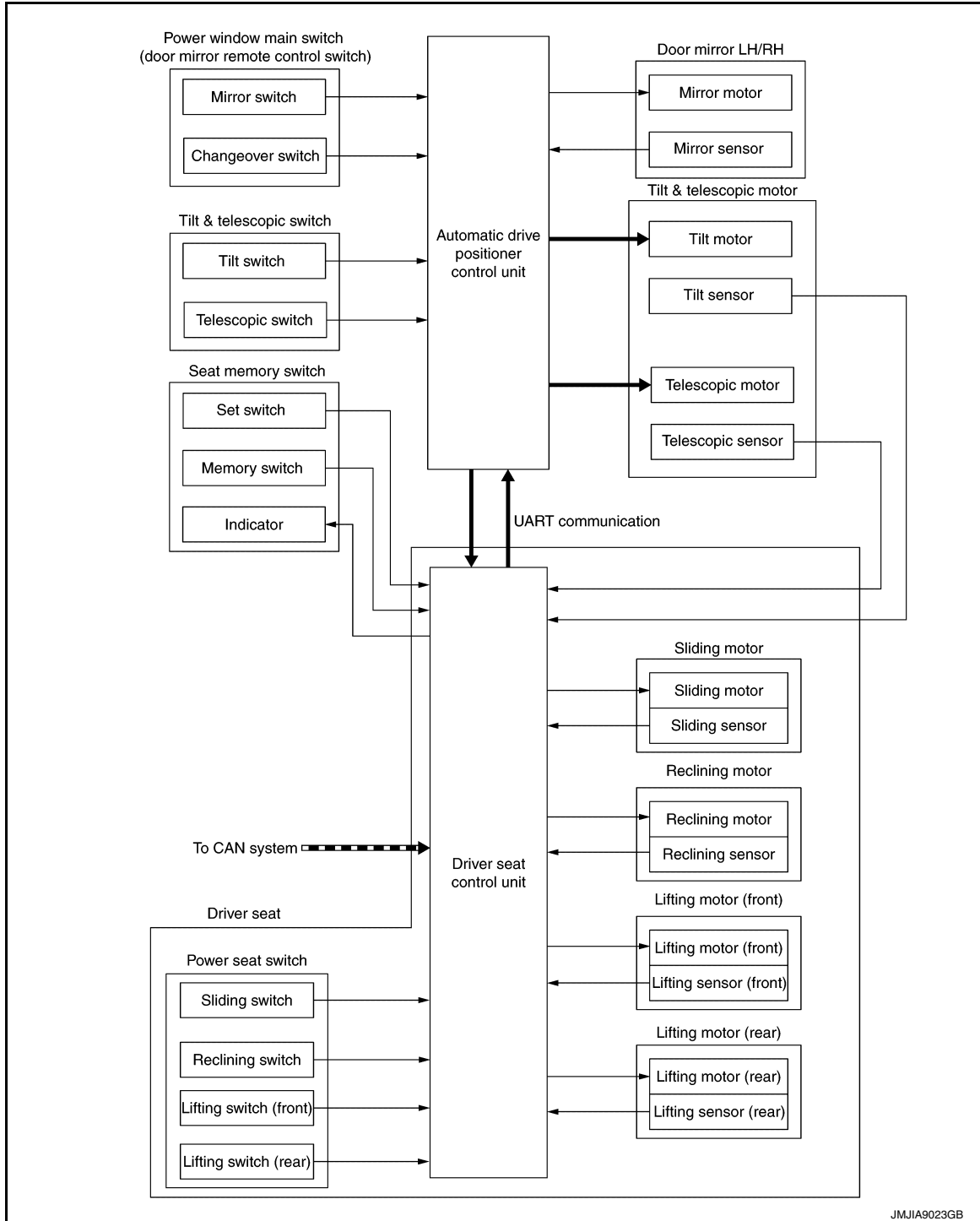
SYSTEM DESCRIPTION

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram

INFOID:000000012170477



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AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:000000012170478

OUTLINE

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

The system automatically moves the driver seat, steering column and door mirror position by the driver seat control unit and the automatic drive positioner control unit. The driver seat control unit corresponds with the automatic drive positioner control unit by UART communication.

| Function | | Description |
|------------------------------------|-------|---|
| Manual function | | The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, tilt & telescopic switch or door mirror remote control switch. |
| Seat synchronization function | | The positions of the steering column and door mirror are adjusted to the proper position automatically while linking with manual operation [seat sliding, seat lifting (rear) or seat reclining]. |
| Memory function | | The seat, steering column and outside mirror move to the stored driving position by pressing seat memory switch (1 or 2). |
| Entry/Exit assist function | Exit | On exit, the seat moves backward and the steering column moves upward and forward. |
| | Entry | On entry, the seat and steering column returns from exiting position to the previous driving position. |
| Intelligent Key interlock function | | Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation. |

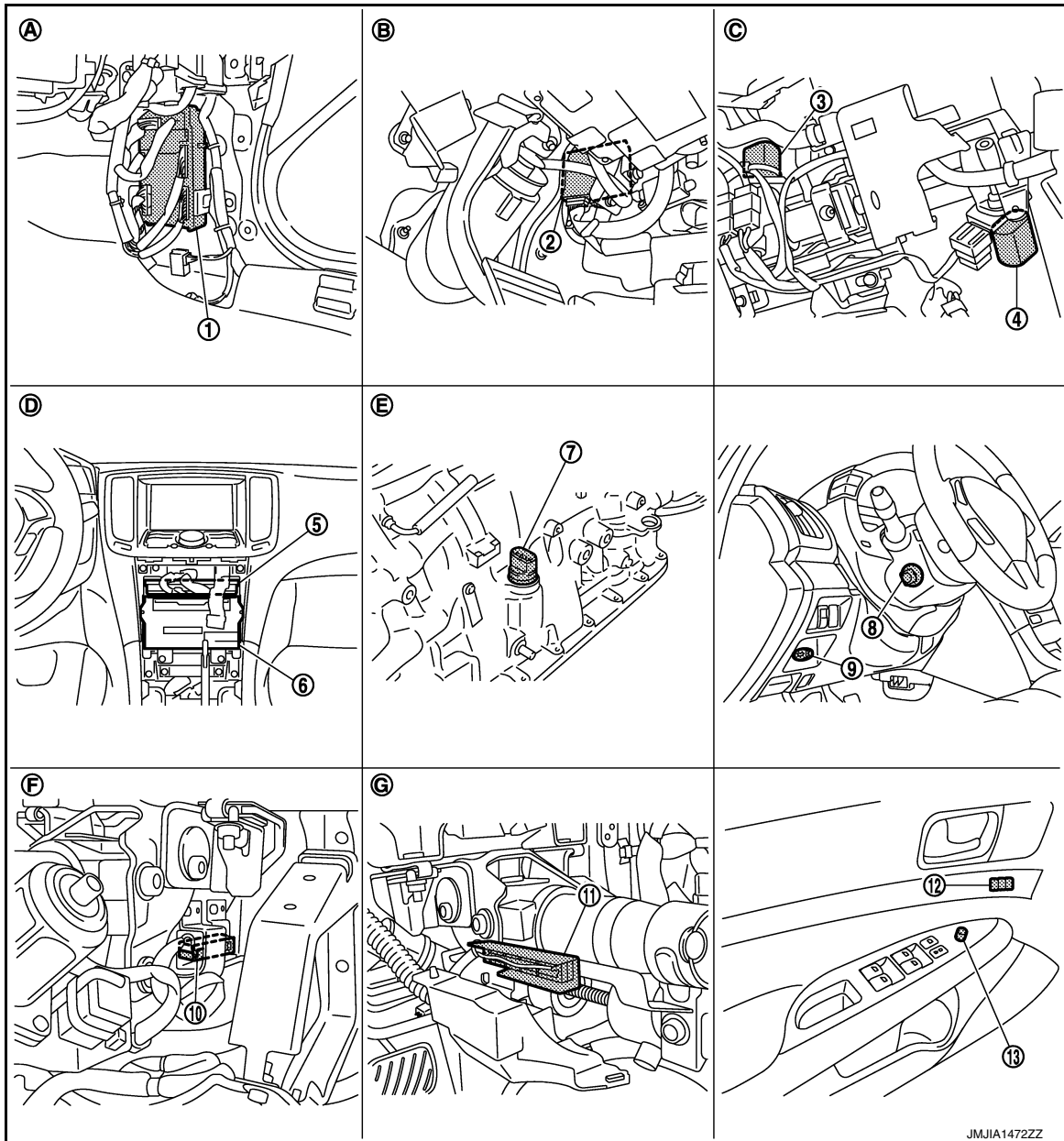
NOTE:

The lumbar support system and the side support system are controlled independently with no link to the automatic drive positioner system.

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

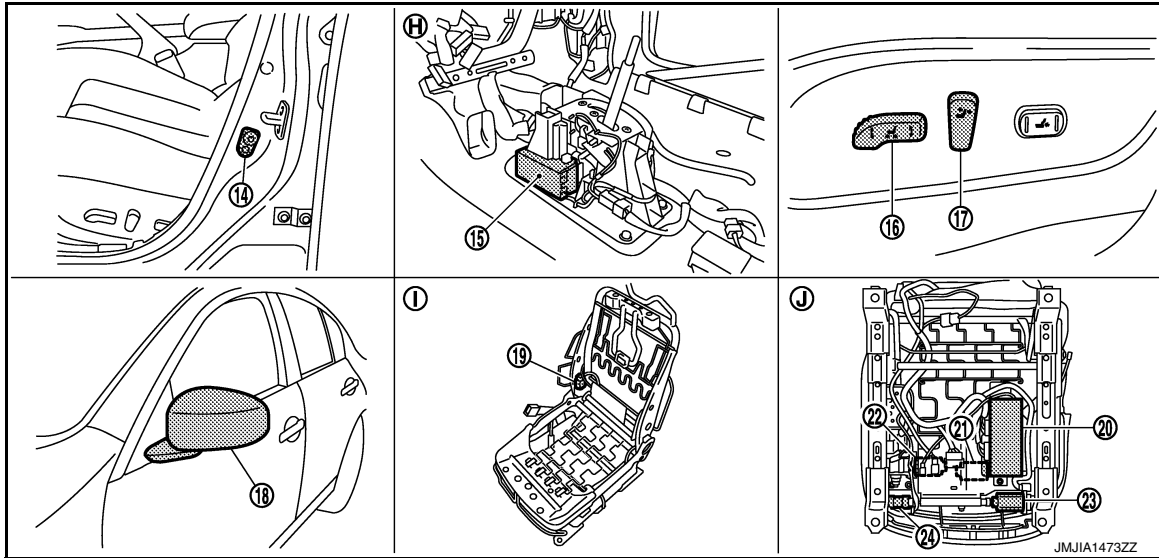
AUTOMATIC DRIVE POSITIONER SYSTEM : Component Parts Location INFOID:000000012170479



- | | | |
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| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



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|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000012170480

CONTROL UNITS

| Item | Function |
|---|---|
| Driver seat control unit | <ul style="list-style-type: none"> • Main units of automatic drive positioner system • It is connected to the CAN. • It communicates with the automatic drive positioner control via UART communication. |
| Automatic drive positioner control unit | <ul style="list-style-type: none"> • It communicates with the driver seat control unit via UART communication. • Perform various controls with the instructions of driver seat control unit. • Perform the controls of the tilt & telescopic and door mirror. |
| BCM | Transmit the following status to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> • Driver door: OPEN/CLOSE • Ignition switch position: ACC/ON • Door lock: UNLOCK (with Intelligent Key or driver side door request switch operation) • Key ID • Key switch: Insert/Pull out Intelligent Key • Starter: CRANKING/OTHER |
| Unified meter and A/C amp. | Transmit the vehicle speed signal to the driver seat control unit via CAN communication. |
| TCM | Transmit the shift position signal (P range) to the driver seat control unit via CAN communication. |

INPUT PARTS

Switches

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

| Item | Function |
|---------------------------------------|---|
| Key slot | The key switch is installed to detect the key inserted/removed status. |
| Front door switch (driver side) | Detect front door (driver side) open/close status. |
| A/T shift selector (detention switch) | Detect the P range position of A/T selector lever. |
| Set switch | The registration and system setting can be performed with its operation. |
| Memory switch 1/2 | The registration and operation can be performed with its operation. |
| Power seat switch | The following switch is installed. <ul style="list-style-type: none"> • Reclining switch • Lifting switch (front) • Lifting switch (rear) • Sliding switch The specific parts can be operated with the operation of each switch. |
| Tilt & telescopic switch | The following switch is installed. <ul style="list-style-type: none"> • Tilt switch • Telescopic switch The specific parts can be operated with the operation of each switch. |
| Door mirror remote control switch | The following switch is installed. <ul style="list-style-type: none"> • Mirror switch • Changeover switch The specific parts can be operated with the operation of each switch. |

Sensors

| Item | Function |
|---|--|
| Door mirror sensor (driver side/passenger side) | Detect the up/down and left/right position of outside mirror face. |
| Tilt and telescopic sensor | Detect the up/down and left/right position of steering column. |
| Lifting sensor (front) | Detect the up/down position of seat lifting (front). |
| Lifting sensor (rear) | Detect the up/down position of seat lifting (rear). |
| Reclining sensor | Detect the tilt of seatback. |
| Sliding sensor | Detect the front/rear position of seat. |

OUTPUT PARTS

| Item | Function |
|--|--|
| Door mirror motor (driver side/passenger side) | Move the outside mirror face upward/downward and leftward/rightward. |
| Tilt and telescopic motor | Move the steering column upward/downward and frontward/rearward. |
| Lifting motor (front) | Move the seat lifting (front) upward/downward. |
| Lifting motor (rear) | Move the seat lifting (rear) upward/downward. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat frontward/rearward. |
| Memory indicator | Illuminates or flashes according to the registration/operation status. |

MANUAL FUNCTION

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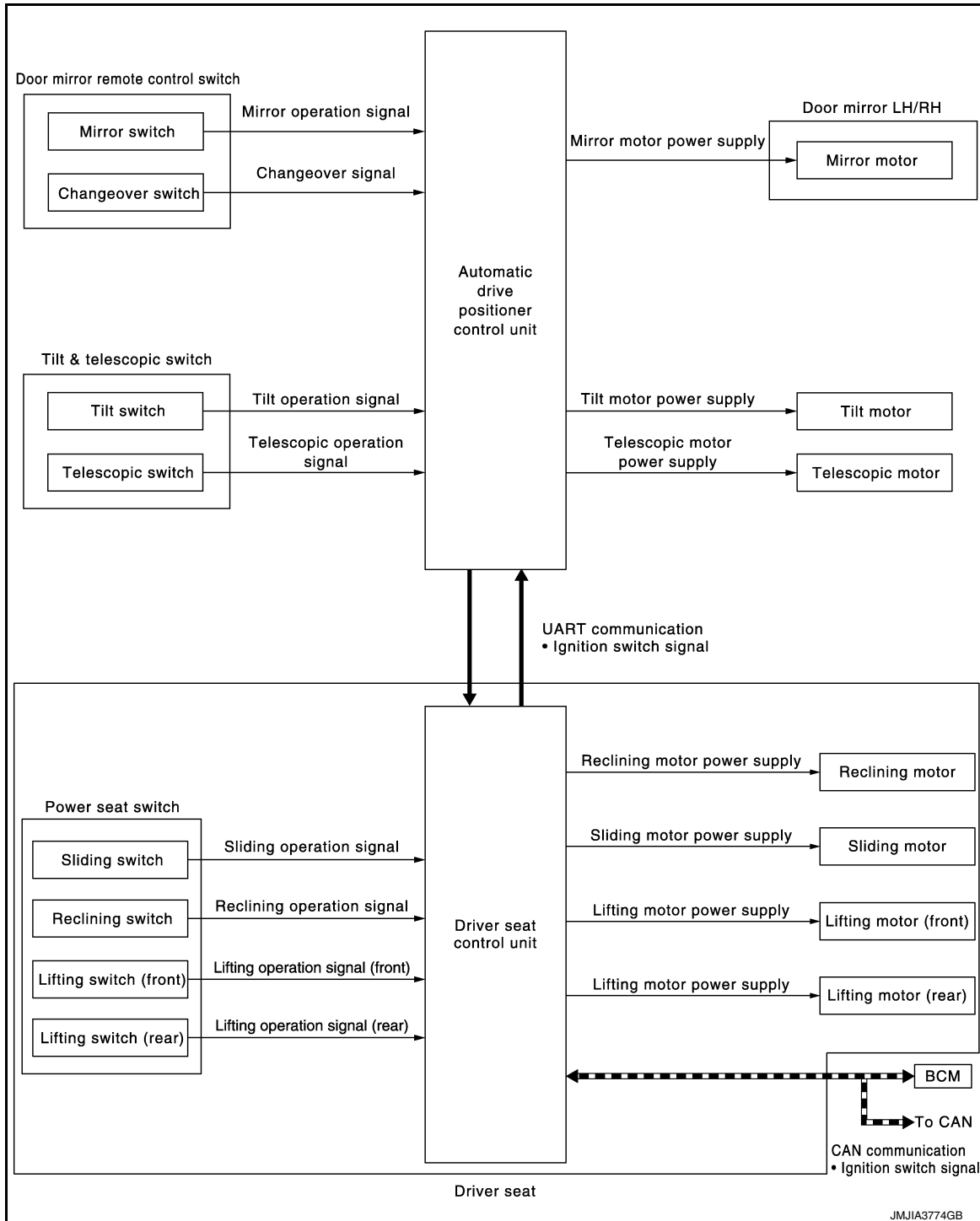
ADP

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

MANUAL FUNCTION : System Diagram

INFOID:000000012170481



MANUAL FUNCTION : System Description

INFOID:000000012170482

OUTLINE

The driving position (seat, steering column and door mirror position) can be adjusted manually with power seat switch, tilt & telescopic switch and door mirror remote control switch.

OPERATION PROCEDURE

1. Turn ignition switch ON.
2. Operate power seat switch, tilt & telescopic switch or door mirror remote control switch.
3. The driver seat, steering column or door mirror operates according to the operation of each switch.

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

DETAIL FLOW

Seat

| Order | Input | Output | Control unit condition |
|-------|---|--------------------------------------|--|
| 1 | Power seat switch (sliding, lifting, reclining) | — | The power seat switch signal is inputted to the driver seat control unit when the power seat switch is operated. |
| 2 | — | Motors (sliding, lifting, reclining) | The driver seat control unit outputs signals to each motor according to the power seat switch input signal. |

Tilt & Telescopic

| Order | Input | Output | Control unit condition |
|-------|----------------------------|---------------------------|--|
| 1 | Tilt & telescopic switch | — | The tilt & telescopic switch signal is inputted to the automatic drive positioner control unit when the tilt & telescopic switch is operated. |
| 2 | — | Motors (Tilt, telescopic) | The automatic drive positioner control unit actuates each motor according to the operation of the tilt & telescopic switch. |
| 3 | Sensors (Tilt, telescopic) | — | The automatic drive positioner control unit recognizes any operation limit of each actuator via each sensor and will not operate the actuator anymore at that time.* |

*: Tilt does not operate upward when tilt sensor voltage is less than 1.2 V, tilt does not operate downward when the sensor value is bigger than 3.4 V. Telescopic does not operate backward when telescopic sensor value is less than 0.8 V, telescopic does not operate forward when the sensor value is bigger than 3.4 V.

Door Mirror

| Order | Input | Output | Control unit condition |
|-------|-----------------------------------|----------------------------|---|
| 1 | Door mirror remote control switch | — | The door mirror remote control switch signal is inputted to the automatic drive positioner control unit when the door mirror remote control switch is operated. |
| 2 | — | Motors (Door mirror motor) | The automatic drive positioner control unit actuates each motor according to the operation of the door mirror remote control switch. |

NOTE:

The door mirrors can be operated manually when ignition switch is in either ACC or ON position. 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.

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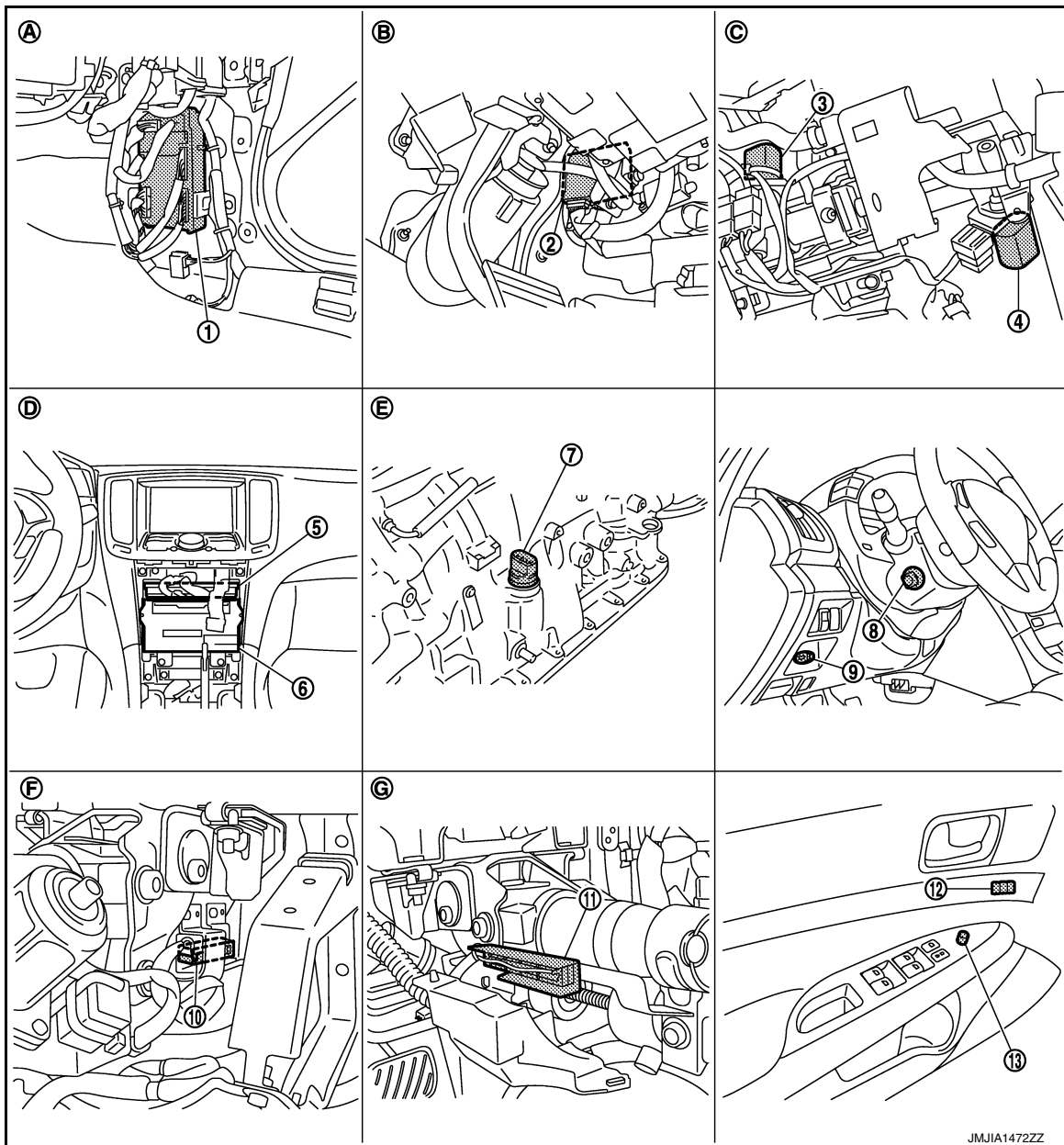
ADP

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

MANUAL FUNCTION : Component Parts Location

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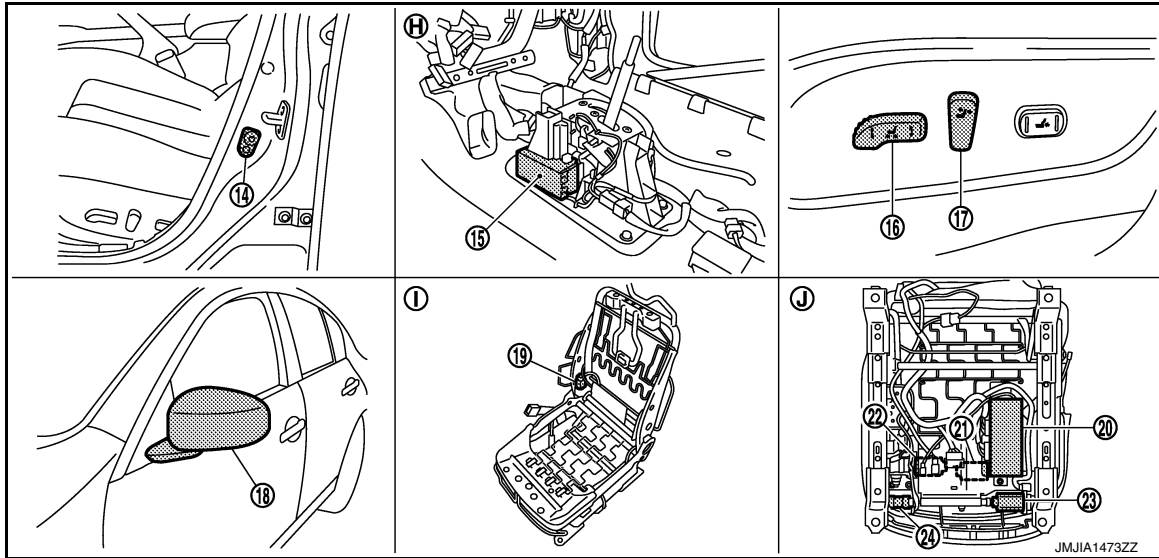


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- | | | |
|--|--|--|
| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



- | | | |
|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

MANUAL FUNCTION : Component Description

INFOID:000000012170484

CONTROL UNITS

| Item | Function |
|---|--|
| Driver seat control unit | <ul style="list-style-type: none"> Operates the specific seat motor with the signal from the power seat switch. Transmits the ignition switch signal (ACC/ON) via UART communication to the automatic drive positioner control unit. |
| Automatic drive positioner control unit | Operates the specific motor with the signal from tilt & telescopic switch or door mirror remote control switch. |
| BCM | Recognizes the following status and transmits it to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> Ignition position: ACC/ON |

INPUT PARTS

Switches

| Item | Function |
|-------------------|--|
| Power seat switch | The following switch is installed. <ul style="list-style-type: none"> Reclining switch Lifting switch (front) Lifting switch (rear) Sliding switch The specific parts can be operated with the operation of each switch. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

| Item | Function |
|-----------------------------------|--|
| Tilt & telescopic switch | The following switch is installed. <ul style="list-style-type: none"> • Tilt switch • Telescopic switch The specific parts can be operated with the operation of each switch. |
| Door mirror remote control switch | The following switch is installed. <ul style="list-style-type: none"> • Mirror switch • Changeover switch The specific parts can be operated with the operation of each switch. |

Sensors

| Item | Function |
|----------------------------|--|
| Tilt and telescopic sensor | Detect the up/down and left/right position of steering column. |

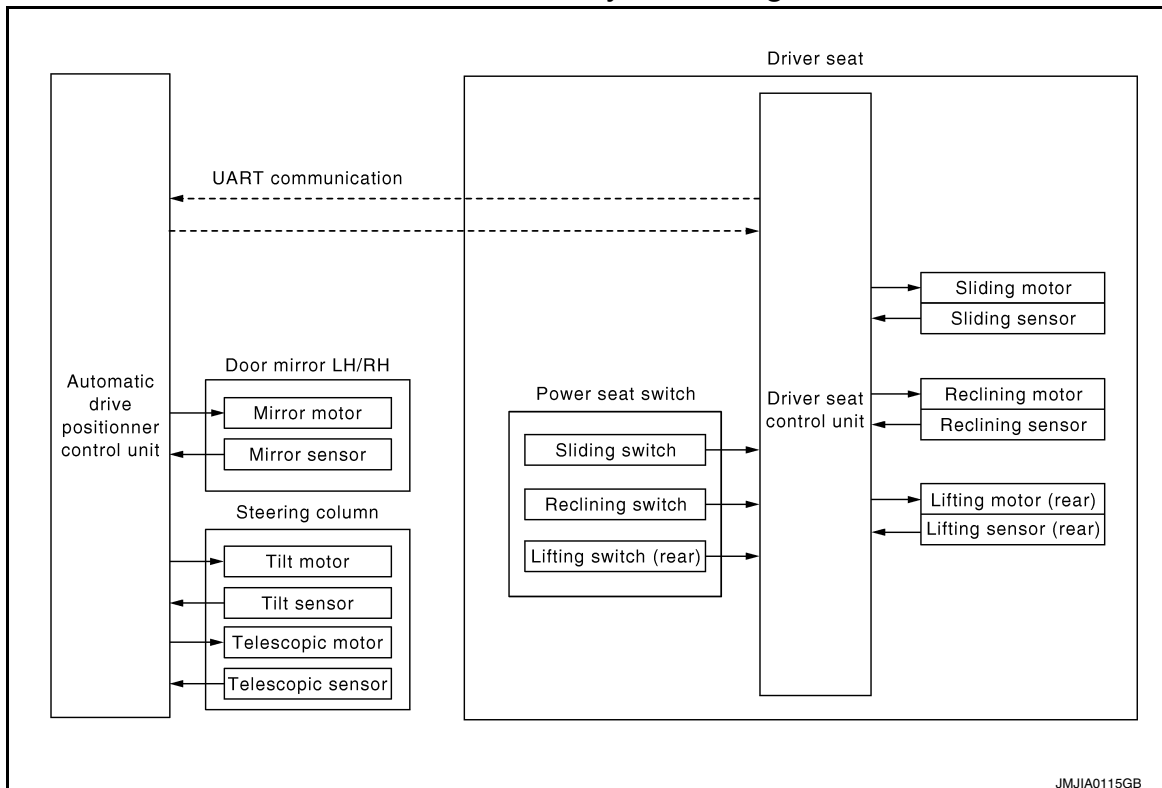
OUTPUT PARTS

| Item | Function |
|--|--|
| Door mirror motor (driver side/passenger side) | Move the outside mirror face upward/downward and leftward/rightward. |
| Tilt & telescopic motor | Move the steering column upward/downward and frontward/rearward. |
| Lifting motor (front) | Move the seat lifter (front) upward/downward. |
| Lifting motor (rear) | Move the seat lifter (rear) upward/downward. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat frontward/rearward. |

SEAT SYNCHRONIZATION FUNCTION

SEAT SYNCHRONIZATION FUNCTION : System Diagram

INFOID:000000012170485



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SEAT SYNCHRONIZATION FUNCTION : System Description

INFOID:000000012170486

OUTLINE

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

The steering column position and door mirror position is adjusted to the position automatically according to the direction and distance of seat movement when performing the manual operation of sliding, reclining or lifting (rear). This function saves adjusting the mirror and steering column when adjusting the seat.

NOTE:

- This function is set to OFF before delivery (initial setting).
- For the system setting procedure. Refer to [ADP-11. "SYSTEM SETTING : Description"](#).

OPERATION PROCEDURE

1. Turn ignition switch ON.
2. Adjust seat position [sliding, reclining, lifting (rear)].
3. The steering and outside mirror is adjusted automatically.

NOTE:

- The seat synchronization function will not operate if seat adjusting value is more than limit value.

| Item | Limit value |
|--------------------|---------------|
| Seat sliding | 76 [mm] |
| Seat reclining | 9.1 [degrees] |
| Seat lifter (rear) | 20 [mm] |

- The seat synchronization function will not operate if the steering column or door mirror moves to the operating end while this function is operating. Perform memory function or drive the vehicle at vehicle speed of 7 km/h or more once to activate this function again.
- If the seat position is uncomfortable after the adjustment, seat position can be adjusted easily by memory operation.

OPERATION CONDITION

Satisfy all of the following items. The seat synchronization function is not performed if these items are not satisfied.

| Item | Request status |
|---|-----------------------|
| Ignition position | ON |
| System setting | ON |
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Tilt & telescopic switch • Door mirror remote control switch • Set switch • Memory switch | OFF (Not operated) |
| A/T selector lever | P position |

DETAIL FLOW

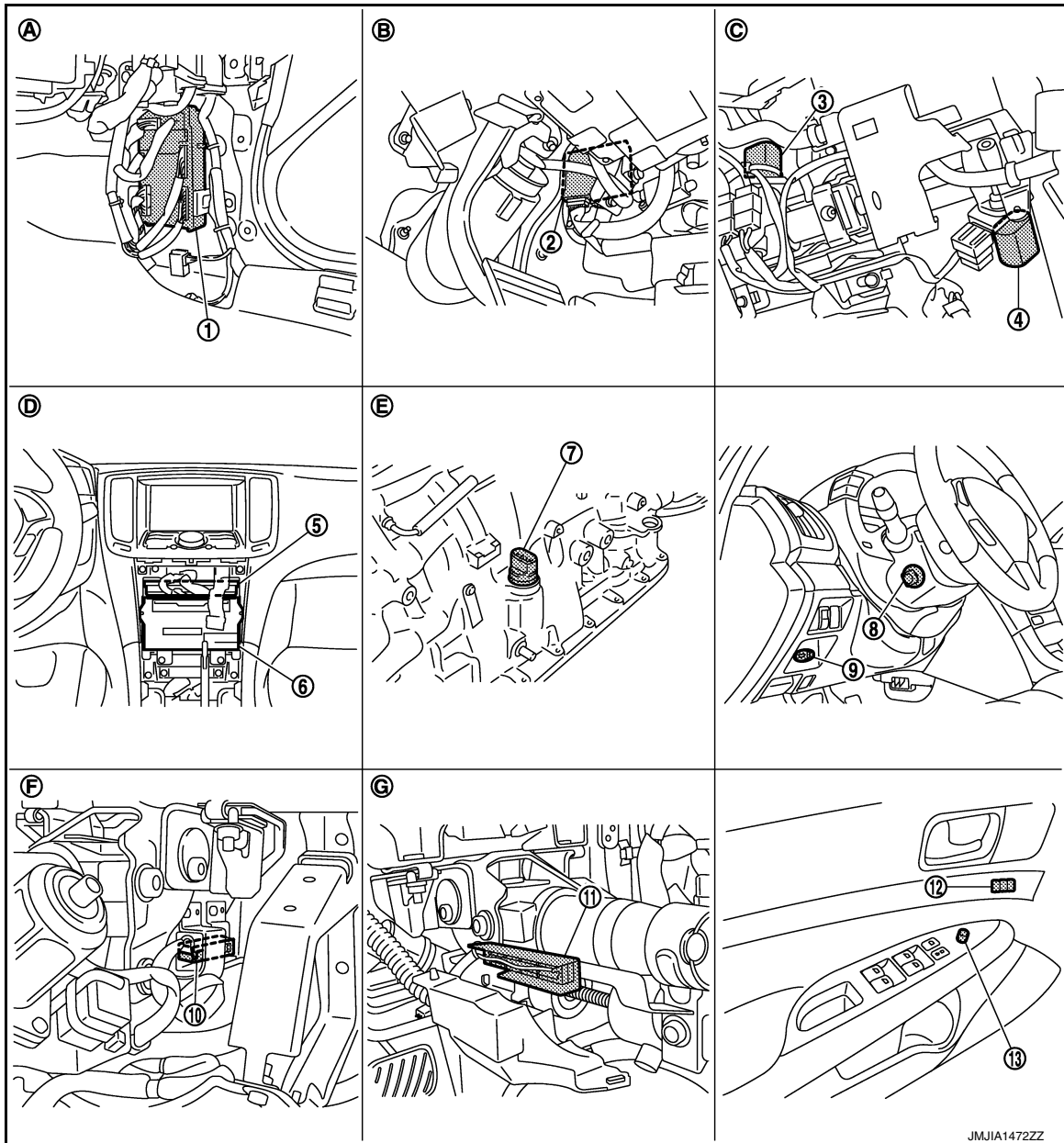
| Order | Input | Output | Control unit condition |
|-------|--|--|--|
| 1 | — | — | Perform Manual operation [Sliding, reclining or lifting (rear)]. |
| 2 | Sensors [Sliding, reclining, lifting (rear)] | — | The driver seat control unit judges the direction and distance of seat movement according to the signal input from each seat sensor during manual operation. |
| 3 | — | Motors (Tilt, telescopic, outside mirror) | Driver seat control unit requests the operation to position according to the direction and distance of seat movement to the automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor. |
| | Sensors (Tilt, telescopic, outside mirror) | — | Driver seat control unit stops the operation of each motor when the value of each sensor that is input to automatic drive positioner control unit via UART communication reaches the target address. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

SEAT SYNCHRONIZATION FUNCTION : Component Parts Location

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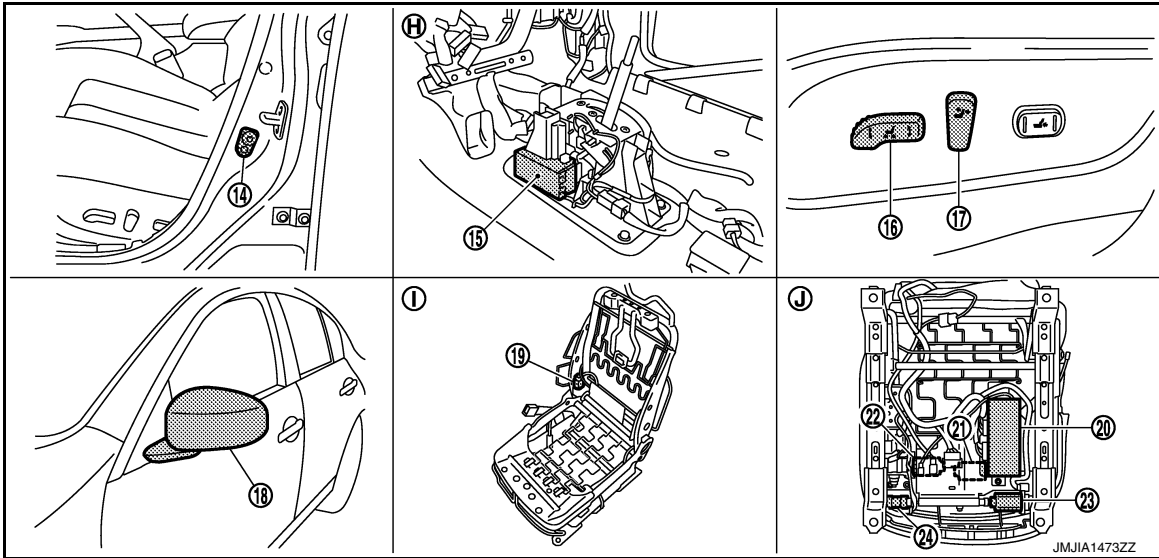


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|--|--|--|
| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



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|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

SEAT SYNCHRONIZATION FUNCTION : Component Description

INFOID:000000012170488

CONTROL UNITS

| Item | Function |
|---|--|
| Driver seat control unit | Operates the specific seat motor with the signal from the power seat switch. |
| Automatic drive positioner control unit | Operates the steering motor and door mirror with the instructions from the driver seat control unit. |

INPUT PARTS

Switches

| Item | Function |
|-------------------|--|
| Power seat switch | The following switch is installed. <ul style="list-style-type: none"> • Reclining switch • Lifting switch (front) • Lifting switch (rear) • Sliding switch The specific parts can be operated with the operation of each switch. |

Sensors

| Item | Function |
|---|--|
| Door mirror sensor (driver side/passenger side) | Detect the up/down and left/right position of outside mirror face. |
| Tilt and telescopic sensor | Detect the up/down and left/right position of steering column. |
| Lifting sensor (rear) | Detect the up/down position of seat lifter (rear). |
| Reclining sensor | Detect the tilt of seatback. |
| Sliding sensor | Detect the front/rear position of seat. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

OUTPUT PARTS

| Item | Function |
|---|--|
| Door mirror motor (driver side/passenger side) | Move the outside mirror face upward/downward and leftward/rightward. |
| Tilt & telescopic motor | Move the steering column upward/downward and frontward/rearward. |
| Lifting motor (rear) | Move the seat lifter (rear) upward/downward. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat frontward/rearward. |

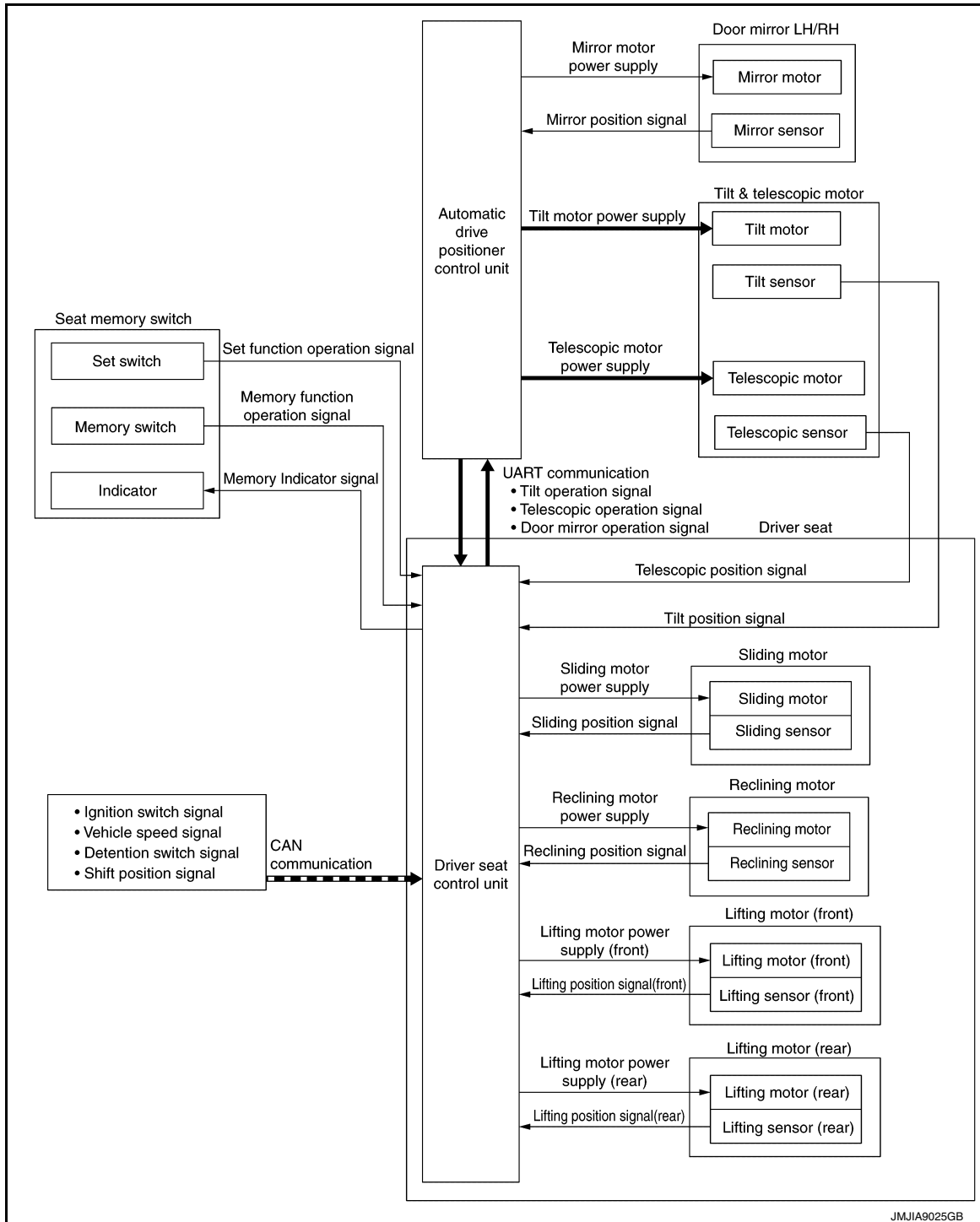
MEMORY FUNCTION

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

MEMORY FUNCTION : System Diagram

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MEMORY FUNCTION : System Description

INFOID:000000012170490

OUTLINE

The driver seat control unit can store the optimum driving positions (seat, steering column and door mirror position) for 2 people. If the front seat position is changed, one-touch (pressing desired memory switch for more than 0.5 second) operation allows changing to the other driving position.

NOTE:

Further information for the memory storage procedure. Refer to [ADP-9, "MEMORY STORING : Description"](#).

OPERATION PROCEDURE

1. Check shift selector lever is in the P position.

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

2. Press desired memory switch for more than 0.5 second.
3. Driver seat, steering and door mirror will move to the memorized position.

OPERATION CONDITION

Satisfy all of the following items. The memory function is not performed if these items are not satisfied.

| Item | Request status |
|--|-----------------------|
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Tilt & telescopic switch • Door mirror control switch • Set switch • Memory switch | OFF (Not operated) |
| A/T selector lever | P position |
| Memory function | Registered |
| Vehicle speed | 0 km/h (0 MPH) |
| CONSULT | Not connected |

DETAIL FLOW

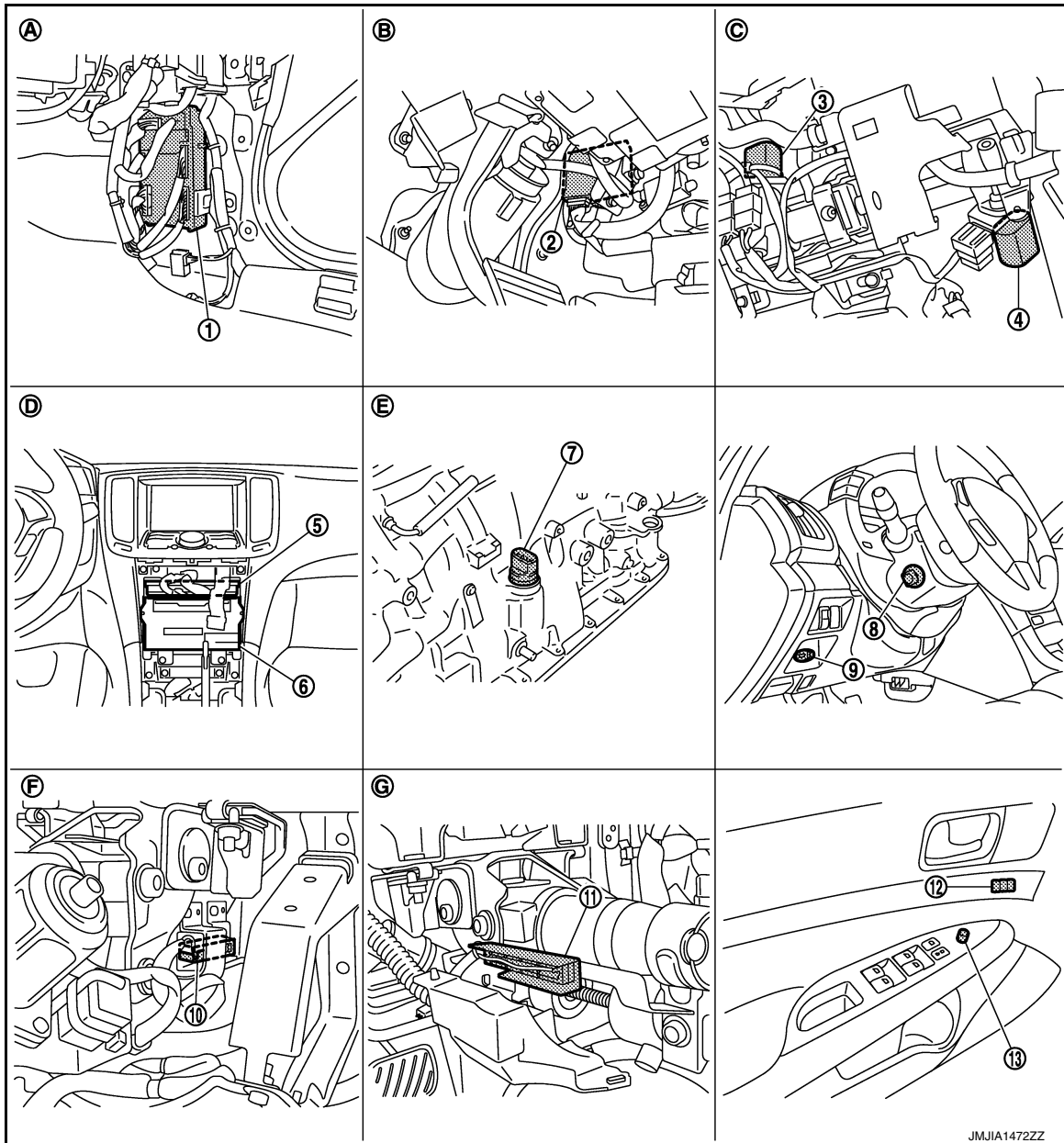
| Order | Input | Output | Control unit condition |
|-------|--|--|---|
| 1 | Memory switch | — | The memory switch signal is inputted to the automatic drive positioner control unit when memory switch 1 or 2 is operated. |
| 2 | — | Motors (Seat, Steering, door mirror) | Driver seat control unit operates each motor of seat when it recognizes the memory switch pressed for 0.5 second or more and requests each motor operation to automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor. |
| | | Memory switch Indicator | Driver seat control unit illuminates the memory indicator while either of the motors is operating. |
| 3 | Sensors (Seat, steering column, door mirror) | — | Driver seat control unit judges the operating seat position with each seat sensor input. The positions of the steering column and outside mirror are monitored with each sensor signal. Driver seat control unit stops the operation of each motor when each part reaches the recorded address. |
| 4 | — | Memory switch Indicator | Driver seat control unit illuminates the memory indicator for 5 seconds after all motors stop. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

MEMORY FUNCTION : Component Parts Location

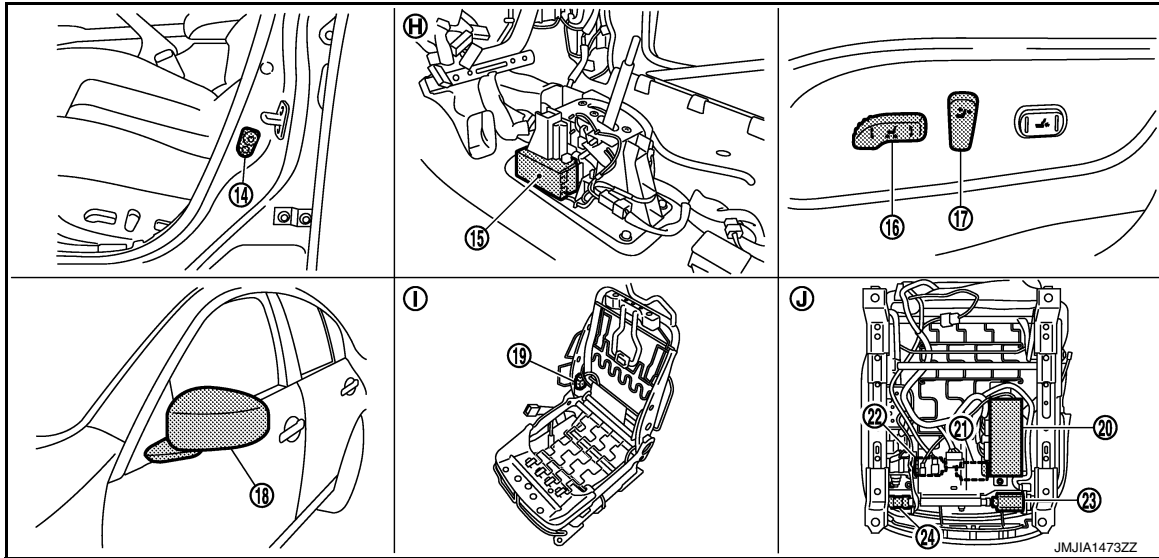
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| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



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|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

MEMORY FUNCTION : Component Description

INFOID:0000000012170492

CONTROL UNITS

| Item | Function |
|---|---|
| Driver seat control unit | <ul style="list-style-type: none"> The address of each part is recorded. Operates each motor of seat to the registered position. Requests the operations of steering column and door mirror to automatic drive positioner control unit |
| Automatic drive positioner control unit | Operates the steering column and door mirror with the instructions from the driver seat control. |

INPUT PARTS

Switches

| Item | Function |
|-------------------|---|
| Memory switch 1/2 | The registration and memory function can be performed with its operation. |

Sensors

| Item | Function |
|---|--|
| Door mirror sensor (driver side/passenger side) | Detect the up/down and left/right position of outside mirror face. |
| Tilt & telescopic sensor | Detect the up/down and left/right position of steering column. |
| Lifting sensor (front) | Detect the up/down position of seat lifting (front). |
| Lifting sensor (rear) | Detect the up/down position of seat lifting (rear). |
| Reclining sensor | Detect the tilt of seatback. |
| Sliding sensor | Detect the front/rear position of seat. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

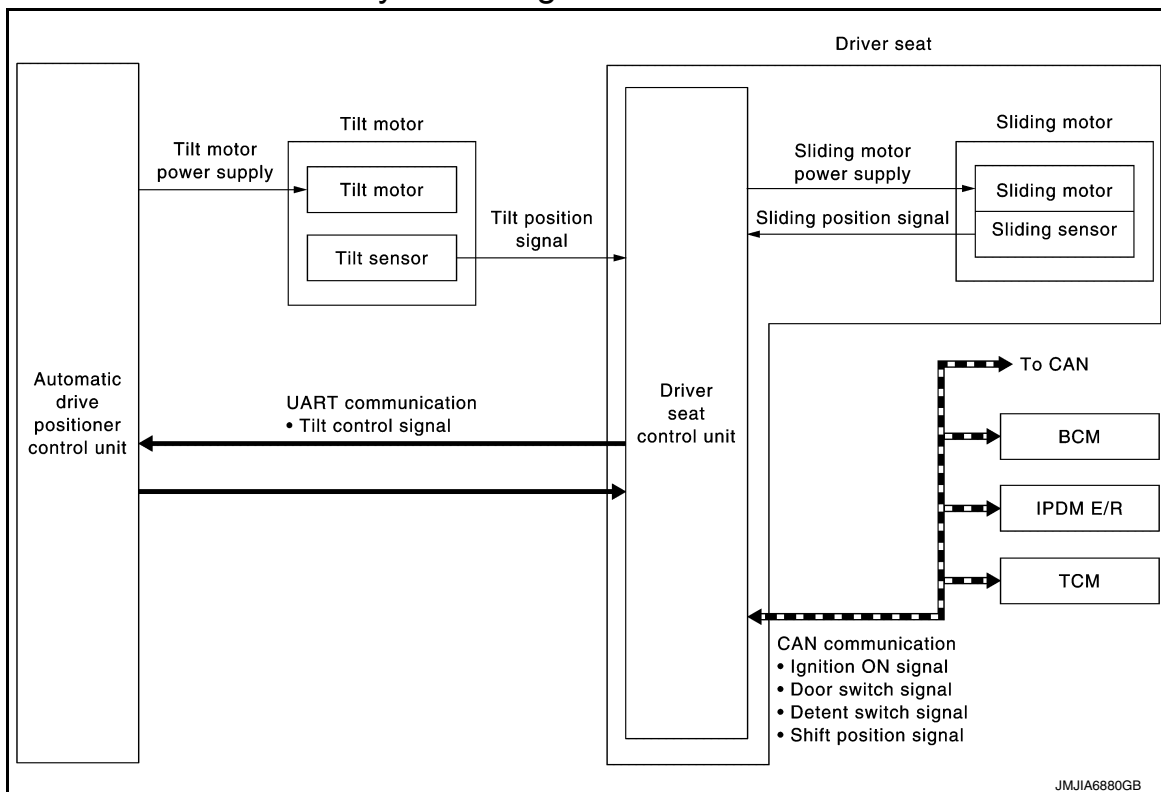
OUTPUT PARTS

| Item | Function |
|--|---|
| Door mirror motor (driver side/passenger side) | Move the outside mirror face upward/downward and leftward/rightward. |
| Tilt and telescopic motor | Move the steering column upward/downward and frontward/rearward. |
| Lifting motor (front) | Move the seat lifter (front) upward/downward. |
| Lifting motor (rear) | Move the seat lifter (rear) upward/downward. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat frontward/rearward. |
| Memory indicator | Illuminates or blinks according to the registration/operation status. |

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION : System Diagram

INFOID:0000000012170493



EXIT ASSIST FUNCTION : System Description

INFOID:0000000012170494

OUTLINE

When exiting, the condition is satisfied, the seat is moved backward 40 mm (1.57 in) from normal sitting position and the steering is moved to the most upper position and front position. The seat slide amount and the steering operation at entry/exit operation can be changed.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to [ADP-11, "SYSTEM SETTING : Description"](#).

OPERATION PROCEDURE

1. Open the driver door with ignition switch in ON position.
2. Driver seat and steering column will move to the exiting position.

OPERATION CONDITION

Satisfy all of the following items. The exit assist function is not performed if these items are not satisfied.

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

| Item | Request status |
|---|-----------------------|
| Ignition position | OFF |
| System setting | ON |
| Initialization | Done |
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Tilt & telescopic switch • Door mirror remote control switch • Set switch • Memory switch | OFF (Not operated) |
| A/T selector lever | P position |

DETAIL FLOW

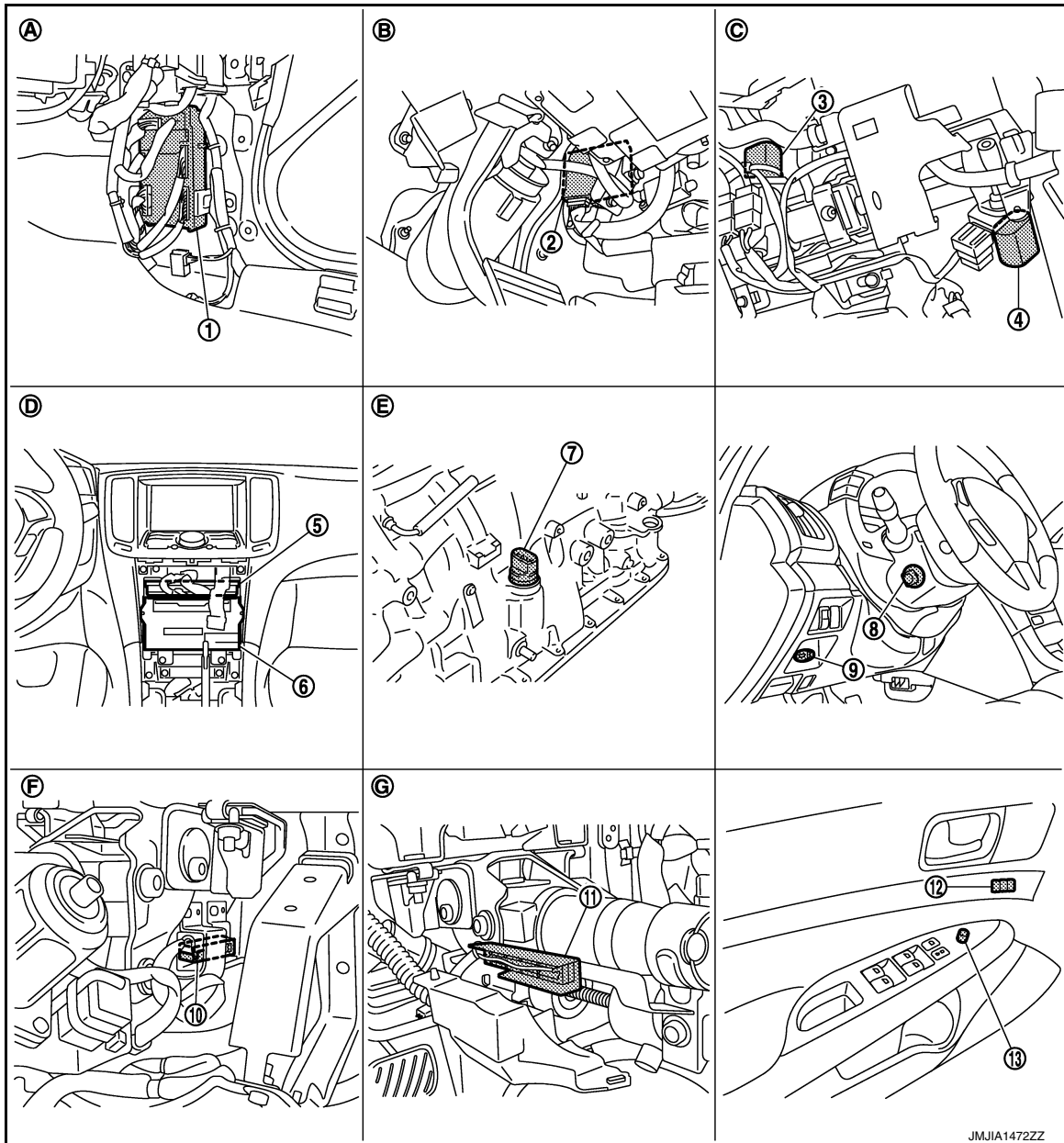
| Order | Input | Output | Control unit condition |
|-------|------------------------------|---|--|
| 1 | Door switch (Driver side) | — | Driver seat control unit receives door switch signal (driver side/ open) from BCM via CAN communication. |
| 2 | — | Motors (Seat sliding, tilt, telescopic) | Driver seat control unit operates the seat sliding motor, which recognizes that the driver side door is opened with ignition switch OFF. Driver seat control unit then requests the operations of tilt motor and telescopic motor to auto drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor for a constant amount. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

EXIT ASSIST FUNCTION : Component Parts Location

INFOID:000000012170495

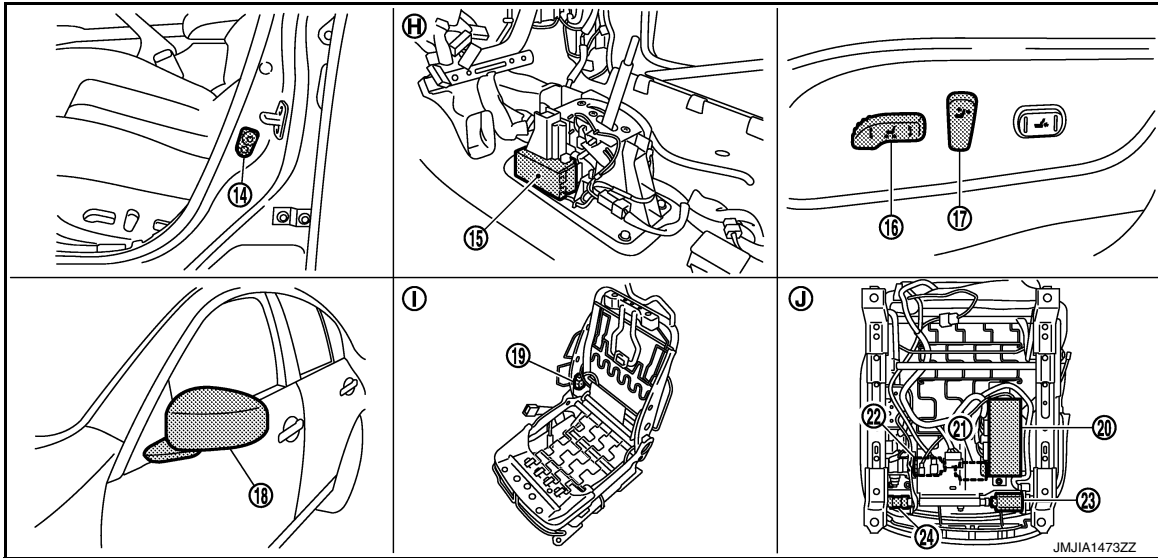


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| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

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AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



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|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

EXIT ASSIST FUNCTION : Component Description

INFOID:000000012170496

CONTROL UNITS

| Item | Function |
|---|--|
| Driver seat control unit | <ul style="list-style-type: none"> • Operates the seat sliding motor for a constant amount. • Requests the operations of tilt motor and telescopic motor to automatic drive positioner control unit. |
| Automatic drive positioner control unit | Operates the tilt motor and telescopic motor with the request from the driver seat control. |
| BCM | Recognizes the following status and transmits it to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> • Driver door: OPEN/CLOSE |

INPUT PARTS

Switches

| Item | Function |
|---------------------------------|--|
| Front door switch (driver side) | Detect front door (driver side) open/close status. |

Sensors

| Item | Function |
|----------------------------|--|
| Tilt and telescopic sensor | Detect the up/down and left/right position of steering column. |
| Sliding sensor | Detect the front/rear position of seat. |

OUTPUT PARTS

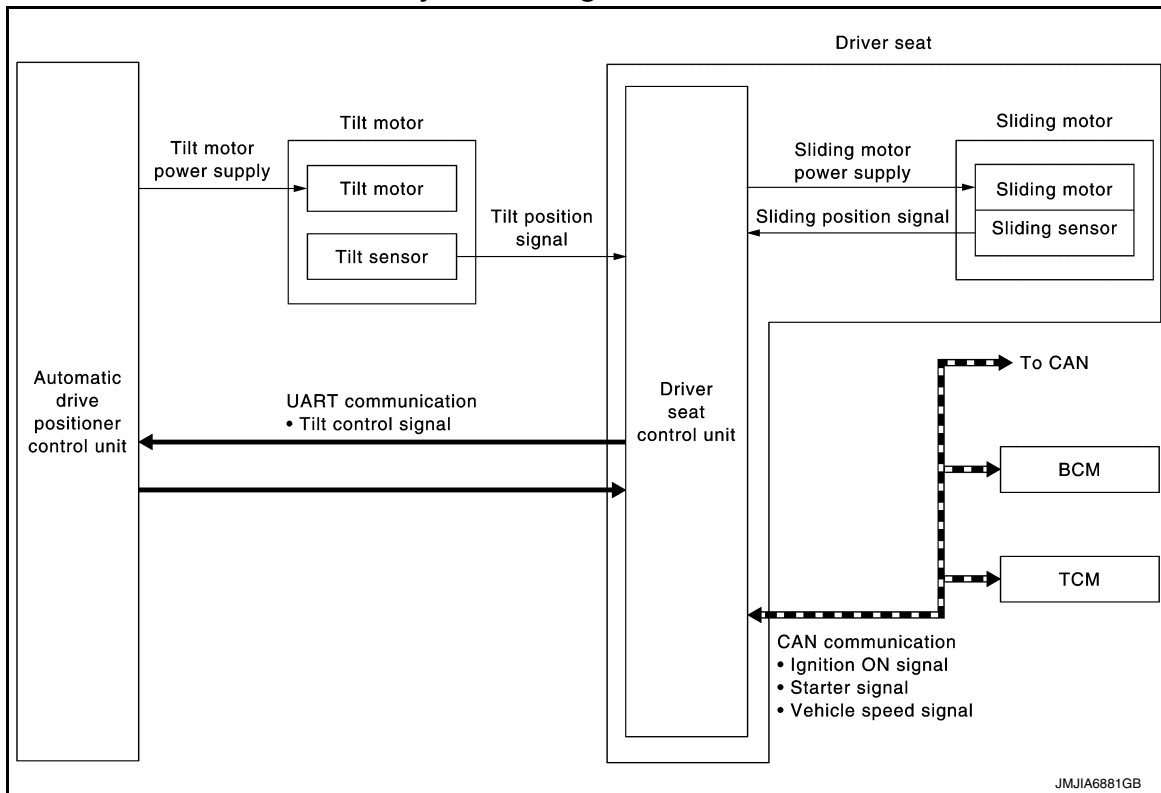
AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

| Item | Function |
|---------------------------|--|
| Tilt and telescopic motor | Move the steering column upward/downward and forward/rearward. |
| Sliding motor | Slide the seat forward/rearward. |

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Diagram



ENTRY ASSIST FUNCTION : System Description

INFOID:000000012170498

OUTLINE

The seat is in the exiting position when either following condition (A or B) is satisfied, the seat returns from exiting position to the previous driving position.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to [ADP-11, "SYSTEM SETTING : Description"](#).

OPERATION PROCEDURE

1. A: Turn the ignition switch ON.
B: Turn the ignition switch from OFF to ACC after closing the driver door.
2. Driver seat and steering column will return from the exiting position to entry position.

OPERATION CONDITION

Satisfy all of the following items. The entry assist function is not performed if these items are not satisfied.

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

| Item | Request status |
|--|---|
| Seat, steering column | The vehicle is not moved after performing the exit assist function. |
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Tilt & telescopic switch • Door mirror control switch • Set switch • Memory switch | OFF (Not operated) |
| A/T selector lever | P position |

DETAIL FLOW

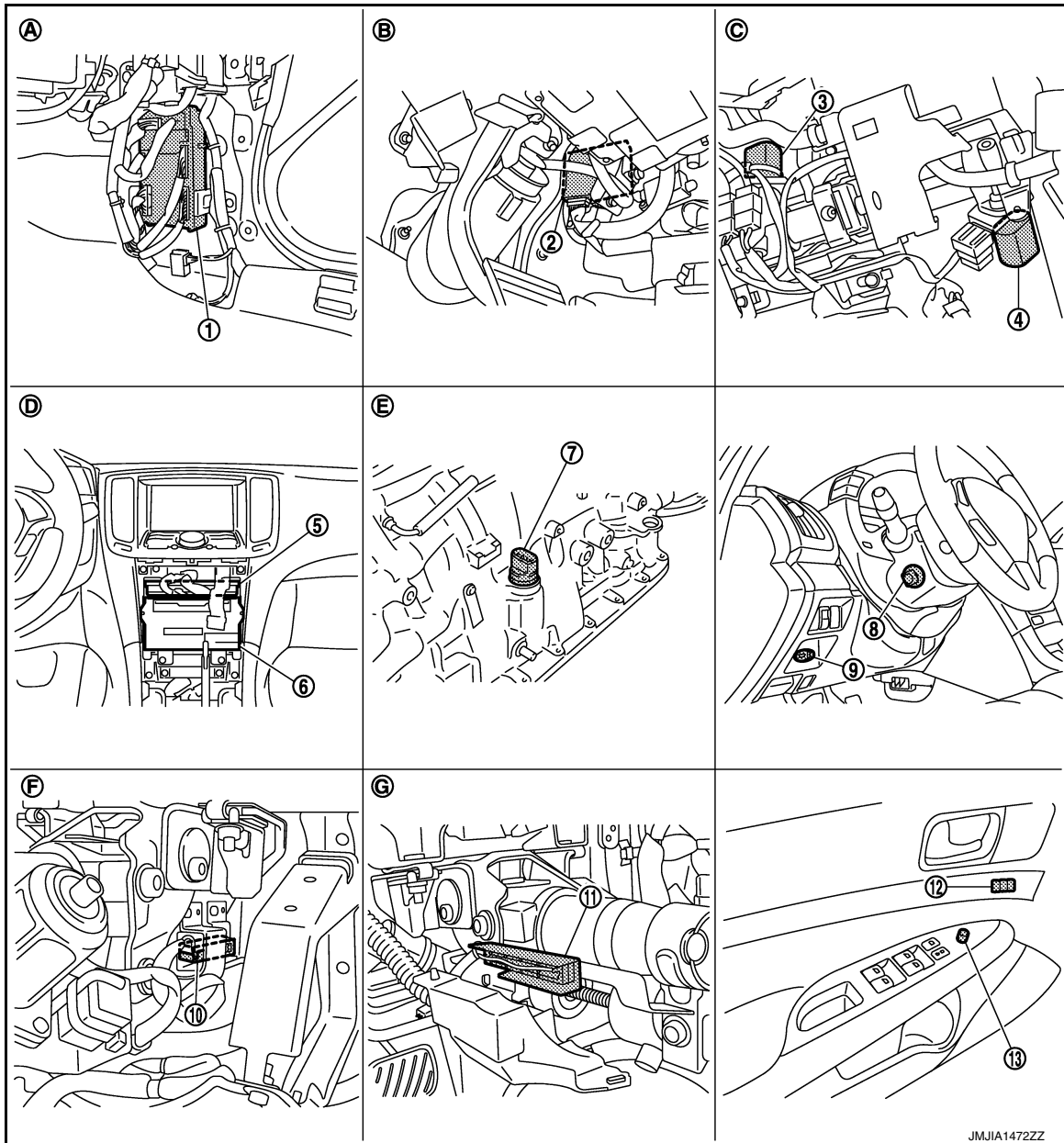
| Order | Input | Output | Control unit condition |
|-------|--|---------------------------------------|---|
| 1 | Door switch/Ignition switch | — | Driver seat control unit receives the signals of [ignition switch signal] and [driver side door switch] from BCM via CAN communication. |
| 2 | — | Motors (Sliding, tilt, telescopic) | Driver side control unit operates the sliding motor when the operating conditions are satisfied and requests the operations of tilt motor and telescopic motor to automatic drive positioner control unit via UART communication. The automatic drive positioner operates each motor. |
| | Sensors (Sliding, tilt, telescopic) | — | Each sensor monitors the operating positions of seat and steering, and then stops the operation of each motor when each part reaches the recorded address. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

ENTRY ASSIST FUNCTION : Component Parts Location

INFOID:000000012170499

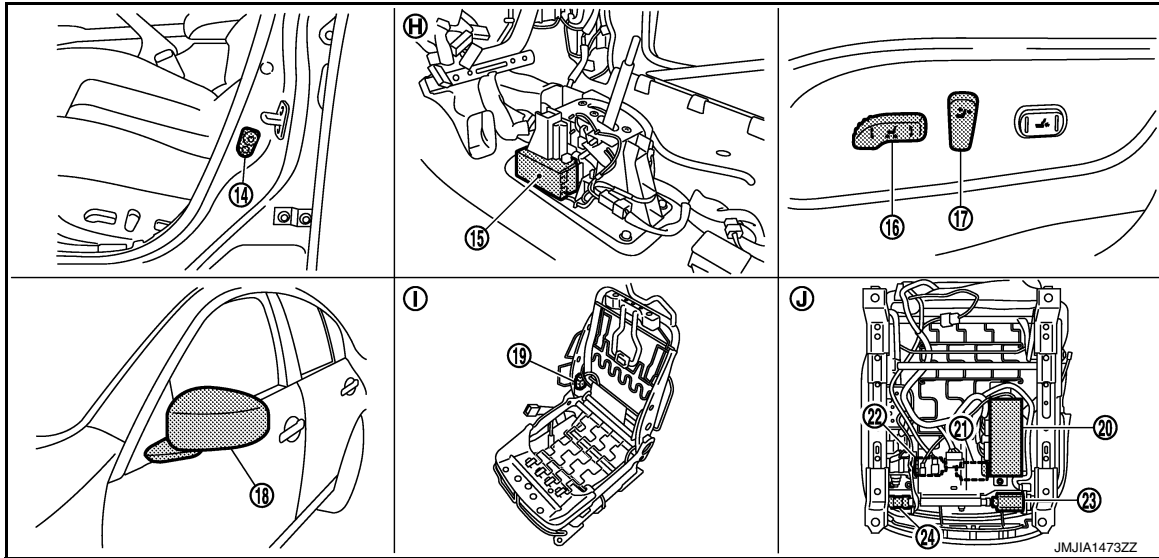


- | | | |
|--|--|--|
| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

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AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



- | | | |
|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

ENTRY ASSIST FUNCTION : Component Description

INFOID:000000012170500

CONTROL UNITS

| Item | Function |
|---|--|
| Driver seat control unit | According to the ignition signal and door switch signal (driver side) from BCM, <ul style="list-style-type: none"> Operates the seat sliding motor for a constant amount. Requests the operations of tilt motor and telescopic motor to automatic drive positioner control unit. |
| Automatic drive positioner control unit | Operates the tilt motor and telescopic motor with the instructions from the driver seat control. |
| BCM | Recognizes the following status and transmits it to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> Driver door: OPEN/CLOSE Ignition switch position: ACC/ON |

INPUT PARTS

Switches

| Item | Function |
|---------------------------------|--|
| Front door switch (driver side) | Detect front door (driver side) open/close status. |

Sensors

| Item | Function |
|--------------------------|--|
| Tilt & telescopic sensor | Detect the up/down and left/right position of steering column. |
| Sliding sensor | Detect the front/rear position of seat. |

OUTPUT PARTS

AUTOMATIC DRIVE POSITIONER SYSTEM

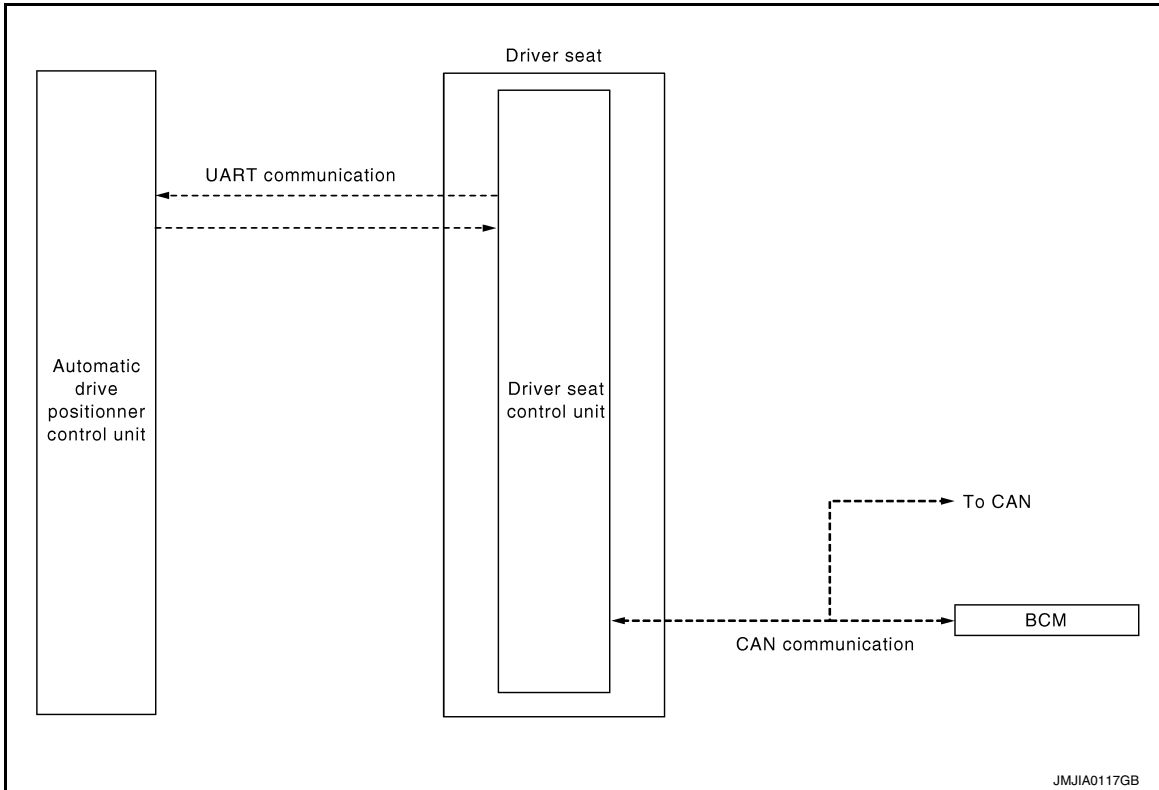
< SYSTEM DESCRIPTION >

| Item | Function |
|-------------------------|--|
| Tilt & telescopic motor | Move the steering column upward/downward and forward/rearward. |
| Sliding motor | Slide the seat forward/rearward. |

INTELLIGENT KEY INTERLOCK FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION : System Diagram

INFOID:000000012170501



INTELLIGENT KEY INTERLOCK FUNCTION : System Description

INFOID:000000012170502

OUTLINE

When unlocking doors by using Intelligent Key or driver side door request switch, the system performs memory operation, exiting operation then entry operation.

OPERATION PROCEDURE

1. Unlock doors by using Intelligent Key or driver side door request switch.
2. The system performs memory operation, and then performs exit assist operation.

NOTE:

If the seat position is in memorized position before unlocking doors, memory operation does not perform.

NOTE:

Further information for Intelligent Key interlock function. Refer to [ADP-9. "MEMORY STORING : Description"](#).

OPERATION CONDITION

Satisfy all of the following items. The Intelligent Key interlock function is not performed if these items are not satisfied.

| Item | Request status |
|-----------------|---------------------------------------|
| Ignition switch | LOCK |
| Memory storing | Completed |
| Key switch | OFF (Key is removed from key slot) |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

| Item | Request status |
|--|-----------------------|
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Tilt & telescopic switch • Door mirror control switch • Set switch • Memory switch | OFF (Not operated) |
| AT selector lever | P position |
| Automatic drive position system any function | Not operating |
| CONSULT | Not connected |

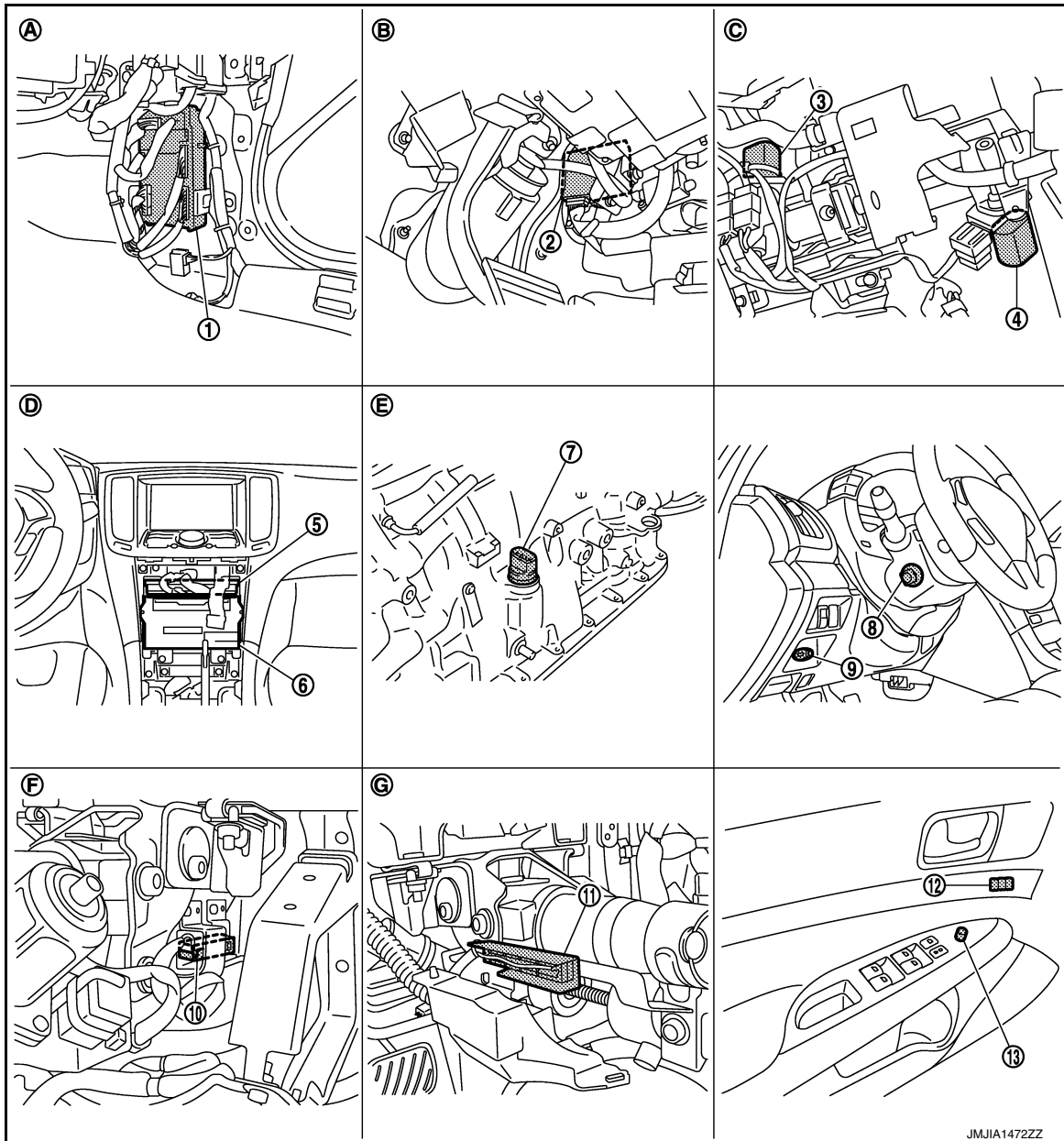
DETAIL FLOW

| Order | Input | Output | Control unit condition |
|-------|---|--------|--|
| 1 | <ul style="list-style-type: none"> • Door unlock signal (CAN) • Key ID signal (CAN) | — | Driver seat control unit receives the door unlock signal and the key ID signal from BCM when unlocking the door with Intelligent Key or driver side door request switch. |
| 2 | — | — | Driver seat control unit performs the memory function. |
| 3 | — | — | Driver seat control unit performs the exit assist function after performing the memory function. |
| 4 | — | — | Driver seat control unit performs the entry assist function. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >

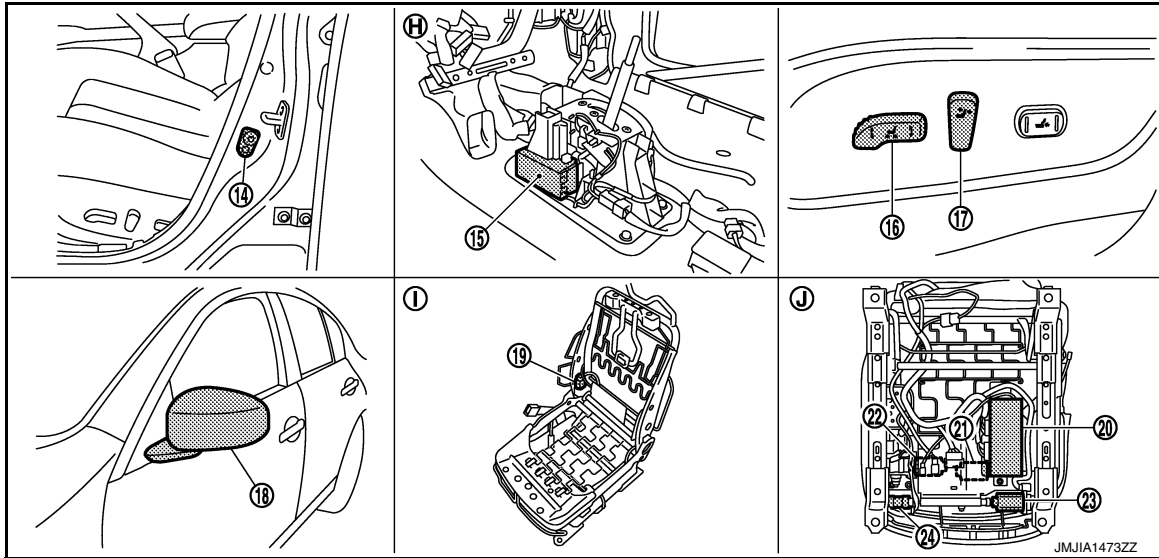
INTELLIGENT KEY INTERLOCK FUNCTION : Component Parts Location INFOID:000000012170503



- | | | |
|--|--|--|
| 1. BCM | 2. Automatic drive positioner control unit | 3. Tilt motor |
| 4. Telescopic motor | 5. Unified meter and A/C amp. | 6. AV control unit |
| 7. AT assembly connector | 8. Tilt & telescopic switch | 9. Key slot |
| 10. Tilt sensor | 11. Telescopic sensor | 12. Seat memory switch |
| 13. Door mirror remote control switch | | |
| A. Dash side lower (Passenger side) | B. View with instrument driver lower panel removed | C. View with steering column cover lower and upper removed |
| D. Behind cluster lid C | E. A/T assembly (TCM is built in A/T assembly) | F. View with instrument driver lower panel removed |
| G. View with steering column cover lower and upper removed | | |

AUTOMATIC DRIVE POSITIONER SYSTEM

< SYSTEM DESCRIPTION >



- | | | |
|--|---|---|
| 14. Front door switch (driver side) | 15. A/T shift selector (detention switch) | 16. Sliding, lifting switch (Power seat switch) |
| 17. Reclining switch (power seat switch) | 18. Door mirror (driver side) | 19. Reclining motor |
| 20. Driver seat control unit | 21. Lifting motor (front) | 22. Lifting motor (rear) |
| 23. Sliding motor | 24. Sliding sensor | |
| H. View with center console assembly removed | I. View with seat cushion pad and seat-back pad removed | J. Backside of the seat cushion |

INTELLIGENT KEY INTERLOCK FUNCTION : Component Description

INFOID:0000000012170504

CONTROL UNITS

| Item | Function |
|---|---|
| Driver seat control unit | It performs memory function and entry/exit assist function after receiving the door unlock signal from BCM. |
| Automatic drive positioner control unit | Operates the steering column and door mirror with the instructions from the driver seat control unit. |
| BCM | Recognizes the following status and transmits it to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> • Door lock: UNLOCK (with Intelligent Key or driver side door request switch) |

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:000000012170505

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

DIAGNOSTIC MODE

| 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. |

CONSULT Function

INFOID:000000012170506

SELF-DIAGNOSIS RESULTS

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

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor Item | Unit | Contents |
|-----------------|---------------|--|
| STARTER SW | "ON/OFF" | Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal. |
| 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. |
| R POSITION SW | "ON/OFF" | NOTE: This item is display, but cannot be used. |
| DETENT SW | "ON/OFF" | The selector lever position "OFF (P position) / ON (other than P position)" judged from the detention switch signal. |
| STEERING STATUS | "LOCK/UNLOCK" | LOCK/UNLOCK status judged from steering lock unit. |
| PARK BRAKE SW | "ON/OFF" | NOTE: This item is display, but cannot be used. |
| 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 SW-UP | "ON/OFF" | ON/OFF status judged from the lifting switch front (up) signal. |
| LIFT SW-DOWN | "ON/OFF" | ON/OFF status judged from the lifting switch front (down) 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. |
| MIR CON SW-UP | "ON/OFF" | ON/OFF status judged from the mirror switch (up) signal. |

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

| Monitor Item | Unit | Contents |
|------------------|---------------|---|
| 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. |
| MIR CHNG SW-L | "ON/OFF" | ON/OFF status judged from the door mirror remote control switch (switching to left) signal. |
| TILT PULSE | — | Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases. |
| TELESCO PULSE | — | Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, 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. |
| 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 PULSE | — | Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases. |
| VEHICLE SPEED | — | Display the vehicle speed signal received from combination meter by numerical value [km/h] |
| P RANG SW CAN | "ON/OFF" | ON/OFF status judged from P range switch signal. |
| R RANG (CAN) | "ON/OFF" | ON/OFF status judged from R range switch signal. |
| DOOR SW-FL | "OPEN/CLOSE" | ON/OFF status judged from front door switch LH switch signal. |
| DOOR SW-FR | "OPEN/CLOSE" | ON/OFF status judged from front door switch RH switch signal. |
| IGN ON SW | "ON/OFF" | ON/OFF status judged from ignition switch signal. |
| ACC ON SW | "ON/OFF" | ON/OFF status judged from ACC switch signal. |
| KYLS DR UNLK | "ON/OFF" | ON/OFF status judged from driver door unlock status. |
| KEYLESS ID | — | Key ID status judged from key ID signal. |
| VHCL SPEED (ABS) | "NORCV/RCV" | ON/OFF status judged from vehicle speed signal. |
| HANDLE | "RHD/LHD" | RHD/LHD status judged from handle position signal. |
| TRANSMISSION | "[A/T]/[M/T]" | Transmission type judged from TCM. |

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. |

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

| Test item | Description |
|------------------|--|
| 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: ON (operated) – OFF (not operated) | ON |
| | | OFF |
| EXIT SEAT SLIDE SETTING | Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated) | ON |
| | | OFF |

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000012170507

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

DTC Logic

INFOID:0000000012170508

DTC DETECTION LOGIC

| DTC | Trouble diagnosis name | DTC detecting condition | Possible cause |
|-------|------------------------|---|---|
| U1000 | CAN COMM CIRCUIT | <ul style="list-style-type: none">• Driver seat control unit cannot communicate to other control units.• Driver seat control unit cannot communicate for more than the specified time. | <ul style="list-style-type: none">• Harness or connectors (CAN communication line is open or shorted) |

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON and wait at least 3 seconds.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-46, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012170509

Refer to [LAN-18, "Trouble Diagnosis Flow Chart"](#).

Special Repair Requirement

INFOID:0000000012170510

Refer to [ADP-9, "SYSTEM INITIALIZATION : Description"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000012170511

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|--------------------------|
| U1010 | CONTROL UNIT (CAN) | When detecting error during the initial diagnosis of CAN controller of driver seat control unit. | Driver seat control unit |

Diagnosis Procedure

INFOID:0000000012170512

1. REPLACE DRIVER SEAT CONTROL UNIT

When DTC [U1010] is detected, replace driver seat control unit.

>> Replace driver seat control unit.

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description

INFOID:000000012170513

- The seat sliding motor is installed to the seat cushion frame.
- The seat sliding motor is installed with the driver seat control unit.
- Slides the seat frontward/ rearward by changing the rotation direction of sliding motor.

DTC Logic

INFOID:000000012170514

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|---|
| B2112 | SEAT SLIDE | The driver seat control unit detects the output of sliding motor output terminal for 0.1 second or more even if the sliding switch is not input. | <ul style="list-style-type: none">• Driver seat control unit• Slide motor harness is power shorted |

DTC CONFIRMATION PROCEDURE

1. RERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-48, "Diagnosis Procedure"](#).
NO >> INSPECTION END

NOTE:

First perform diagnosis for B2126 if B2126 is detected.

Diagnosis Procedure

INFOID:000000012170515

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-48, "DTC Logic"](#).

Is the DTC displayed again?

- YES >> GO TO 2.
NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

2. CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

1. Turn ignition switch OFF.
2. Disconnect sliding motor and driver seat control unit connector.
3. Check voltage between sliding motor harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|---------------|-----------|--------|--------------------------|
| Sliding motor | | | |
| Connector | Terminals | Ground | 0 – 1 V |
| B461 | 34 | | |
| | 38 | | |

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness or connector.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect driver seat control unit connector.
2. Check voltage between driver seat control unit harness connector and ground.

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------------|-----------|--------|--------------------------|
| Driver seat control unit | | | |
| Connector | Terminals | Ground | 0 – 1 V |
| B452 | 34 | | |
| | 38 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to [ADP-221. "Removal and Installation"](#)

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-42. "Intermittent Incident"](#).

>> INSPECTION END

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B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description

INFOID:000000012170516

- The seat reclining motor is installed to the seatback frame.
- The seat reclining motor is activated with the driver seat control unit.
- Tilts the seatback frontward/rearward by changing the rotation direction of reclining motor.

DTC Logic

INFOID:000000012170517

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|---|
| B2113 | SEAT RECLINING | The driver seat control unit detects the output of reclining motor output terminal for 0.1 second or more even if the reclining switch is not input. | <ul style="list-style-type: none">• Driver seat control unit• Reclining motor harness is power shorted |

DTC CONFIRMATION PROCEDURE

1. REFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to [ADP-50, "Diagnosis Procedure"](#).

NO >> INSPECTION END

NOTE:

First perform diagnosis for B2126 if B2126 is detected.

Diagnosis Procedure

INFOID:000000012170518

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-50, "DTC Logic"](#).

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

2. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

1. Turn ignition switch OFF.
2. Disconnect reclining motor and driver seat control unit connector.
3. Check voltage between reclining motor harness connector and ground.

| (+) | | (-) | Voltage (Approx.) |
|-----------------|-----------|--------|-------------------|
| Reclining motor | | | |
| Connector | Terminals | | |
| B454 | 35 | Ground | 0 – 1 V |
| | 39 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect driver seat control unit connector.
2. Check voltage between driver seat control unit harness connector and ground.

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | (-) | Voltage (Approx.) |
|--------------------------|-----------|--------|----------------------|
| Driver seat control unit | | | |
| Connector | Terminals | Ground | 0 – 1 V |
| B452 | 35 | | |
| | 39 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to [ADP-221. "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-42. "Intermittent Incident"](#).

>> INSPECTION END

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ADP

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2116 TILT MOTOR

DTC Logic

INFOID:000000012170519

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|---|---|
| B2116 | STEERING TILT | The automatic drive positioner control unit detects the output of tilt motor output terminal for 0.1 second or more even if the tilt switch is not input. | <ul style="list-style-type: none">Automatic drive positioner control unitTilt motor harness is shorted |

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-52. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000012170520

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self diagnostic result" with CONSULT.
- Erase the DTC.
- Perform DTC confirmation procedure. Refer to [ADP-142. "DTC Index"](#).

Is the DTC displayed again?

- YES >> GO TO 2.
NO >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

2.CHECK TILT MOTOR CIRCUIT (POWER SHORT)

- Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit and tilt motor connector.
- Check voltage between tilt motor harness connector and ground.

| (+) Tilt & telescopic motor | | (-) | Voltage (V) (Approx.) |
|-----------------------------|-----------|--------|--------------------------|
| Connector | Terminals | | |
| M80 | 3 | Ground | 0 – 1 V |
| | 7 | | |

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness or connector.

3.CHECK AUTOMATIC DRIVER POSITIONER CONTROL UNIT OUTPUT SIGNAL

- Connect automatic drive positioner control unit connector.
- Check voltage between automatic drive positioner control unit harness connector and ground.

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | (-) | Voltage (V) (Approx.) |
|---|-----------|--------|--------------------------|
| Automatic drive positioner control unit | | | |
| Connector | Terminals | Ground | 0 – 1 V |
| M79 | 28 | | |
| | 29 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic drive positioner control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-42. "Intermittent Incident"](#).

>> INSPECTION END

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ADP

B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description

INFOID:000000012170521

Driver seat control unit performs UART communication with the automatic drive positioner control unit using 2 communication lines, TX and RX line. Driver seat control unit receives the operation signals of tilt & telescopic switch, door mirror remote control switch, set switch and memory switch and the position signals of tilt & telescopic sensor and door mirror sensor from the automatic drive positioner control unit and transmits the operation request signal.

DTC Logic

INFOID:000000012170522

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|---|
| B2128 | UART COMM | The communication between driver seat control unit and auto drive positioner control unit is interrupted for a period of time. | <ul style="list-style-type: none">• UART communication line (UART communication line is open or shorted)• Driver seat control unit• Automatic drive positioner control unit |

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate tilt & telescopic switch for more than 2 seconds.
3. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-54, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000012170523

1. CHECK UART COMMUNICATION LINE CONTINUITY

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

| Driver seat control unit | | Automatic drive positioner control unit | | Continuity |
|--------------------------|----------|---|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 2 | M78 | 8 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 2 | | Not existed |

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
NO >> Repair or replace harness.

B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

B2130 EEPROM

DTC Logic

INFOID:000000012170524

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|--------------------------|
| B2130 | EEPROM | Driver seat control unit detected CPU malfunction. | Driver seat control unit |

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-55, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000012170525

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-55, "DTC Logic"](#).

Is the DTC displayed again?

- YES >> GO TO 2.
NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

2.REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit.

>> INSPECTION END

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ADP

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000012779814

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown (open).

| Signal name | Fuse and fusible link No. |
|----------------------|---------------------------|
| Battery power supply | K |
| | 10 |

Is the fuse or fusible link is blown (open)?

- YES >> Replace the blown (open) fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown (open).
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM harness connector and ground.

| Terminals | | Voltage (Approx.) |
|-----------|----------|---------------------------|
| (+) | (-) | |
| BCM | | Ground Battery voltage |
| Connector | Terminal | |
| M118 | 1 | |
| M119 | 11 | |

Is the measurement value normal?

- YES >> GO TO 3.
NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | Existed |
| M119 | 13 | | |

Does continuity exist?

- YES >> INSPECTION END
NO >> Repair harness or connector.

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000012170527

NOTE:

Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed with CONSULT.

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Check voltage between driver seat control unit harness connector and ground.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------------|----------|--------|--------------------------|
| Driver seat control unit | | | |
| Connector | Terminal | Ground | 9 – 16 V |
| B452 | 33 | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

- Repair or replace harness between driver seat control unit and fuse block (J/B).
- Circuit breaker.

2.CHECK GROUND CIRCUIT

Check continuity between the driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|------------|
| Connector | Terminal | | Existed |
| B452 | 43 | | |

Is the inspection result normal?

YES >> Driver seat control unit power supply and ground circuit are OK.

NO >> Repair or replace harness between driver seat control unit and ground.

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:000000012170528

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to [ADP-8. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

ADP

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000012170529

NOTE:

Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed with CONSULT.

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|---|----------|--------|--------------------------|
| Automatic drive positioner control unit | | | |
| Connector | Terminal | Ground | 9 – 16 V |
| M79 | 25 | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness between automatic drive positioner control unit and fuse block (J/B).

2.CHECK GROUND CIRCUIT

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | Existed |
| M79 | 30 | | |

Is the inspection result normal?

YES >> Automatic drive positioner control unit power supply and ground circuit are OK.

NO >> Repair or replace harness between automatic drive positioner control unit and ground.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Special Repair Requirement

INFOID:000000012170530

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to [ADP-8. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

Description

INFOID:000000012170531

Sliding switch is equipped to the power seat switch on the seat cushion side surface. The operation signal is inputted to the driver seat control unit when the sliding switch is operated.

Component Function Check

INFOID:000000012170532

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "SLIDE SW-FR", "SLIDE SW-RR" in "Data monitor" mode with CONSULT.
3. Check sliding switch signal under the following conditions.

| Monitor item | Condition | | Status |
|--------------|---------------------------|---------|--------|
| SLIDE SW-FR | Sliding switch (forward) | Operate | ON |
| | | Release | OFF |
| SLIDE SW-RR | Sliding switch (backward) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-59. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170533

1.CHECK SLIDING SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Turn ignition switch ON.
4. Check voltage between power seat switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------|----------|--------|--------------------------|
| Power seat switch | | | |
| Connector | Terminal | Ground | 9 – 16 V |
| B459 | 8 | | |
| | 24 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and power seat switch harness connector.

| Driver seat control unit | | Power seat switch | | Continuity |
|--------------------------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 8 | B459 | 8 | Existed |
| | 24 | | 24 | |

4. Check continuity between driver seat control unit harness connector and ground.

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|------------|
| Connector | Terminal | | |
| B451 | 8 | | |
| | 24 | | |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3.CHECK SLIDING SWITCH

Refer to [ADP-60, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170534

1.CHECK SLIDING SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals.

| Power seat switch | | Condition | Continuity | |
|-------------------|----|---------------------------|------------|-------------|
| Terminal | | | | |
| 43 | 8 | Sliding switch (backward) | Operate | Existed |
| | | | Release | Not existed |
| | 24 | Sliding switch (forward) | Operate | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SWITCH

Description

INFOID:000000012170535

Reclining switch is equipped to the power seat switch on the seat cushion side surface. The operation signal is inputted to the driver seat control unit when the reclining switch is operated.

Component Function Check

INFOID:000000012170536

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "RECLN SW-FR", "RECLN SW-RR" in "Data monitor" mode with CONSULT.
3. Check reclining switch signal under the following conditions.

| Monitor item | Condition | Status | |
|---------------|-----------------------------|---------|-----|
| RECLINE SW-FR | Reclining switch (forward) | Operate | ON |
| | | Release | OFF |
| RECLINE SW-RR | Reclining switch (backward) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-61, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170537

1. CHECK RECLINING SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Turn ignition switch ON.
4. Check voltage between power seat switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------|----------|--------|--------------------------|
| Power seat switch | | | |
| Connector | Terminal | Ground | 9 – 16 V |
| B459 | 9 | | |
| | 25 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and power seat switch harness connector.

| Driver seat control unit | | Power seat switch | | Continuity |
|--------------------------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 9 | B459 | 9 | Existed |
| | 25 | | 25 | |

4. Check continuity between driver seat control unit harness connector and ground.

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 9 | | |
| | 25 | | Not existed |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3.CHECK RECLINING SWITCH

Refer to [ADP-62, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170538

1.CHECK RECLINING SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals.

| Power seat switch | | Condition | Continuity | |
|-------------------|----|-----------------------------|------------|-------------|
| Terminal | | | | |
| 43 | 9 | Reclining switch (backward) | Operate | Existed |
| | | | Release | Not existed |
| | 25 | Reclining switch (forward) | Operate | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description

INFOID:000000012170539

Lifting switch (front) is equipped to the power seat switch on the seat cushion side surface. The operation signal is inputted to the driver seat control unit when the lifting switch (front) is operated.

Component Function Check

INFOID:000000012170540

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "LIFT FR SW-UP", "LIFT FR SW-DN" in "Data monitor" mode with CONSULT.
3. Check lifting switch (front) signal under the following conditions.

| Monitor item | Condition | | Status |
|---------------|-----------------------------|---------|--------|
| LIFT FR SW-UP | Lifting switch front (up) | Operate | ON |
| | | Release | OFF |
| LIFT FR SW-DN | Lifting switch front (down) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-63. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170541

1. CHECK LIFTING SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Turn ignition switch ON.
4. Check voltage between power seat switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------|----------|--------|--------------------------|
| Power seat switch | | | |
| Connector | Terminal | Ground | 9 – 16 V |
| B459 | 10 | | |
| | 26 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and power seat switch harness connector.

| Driver seat control unit | | Power seat switch | | Continuity |
|--------------------------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 10 | B459 | 10 | Existed |
| | 26 | | 26 | |

4. Check continuity between driver seat control unit harness connector and ground.

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|------------|
| Connector | Terminal | | |
| B451 | 10 | | |
| | 26 | | |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3.CHECK LIFTING SWITCH (FRONT)

Refer to [ADP-64, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170542

1.CHECK LIFTING SWITCH (FRONT)

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals.

| Power seat switch | | Condition | Continuity | |
|-------------------|----|-----------------------------|------------|-------------|
| Terminal | | | | |
| 43 | 10 | Lifting switch front (down) | Operate | Existed |
| | | | Release | Not existed |
| | 26 | Lifting switch front (up) | Operate | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description

INFOID:000000012170543

Lifting switch (rear) is equipped to the power seat switch on the seat cushion side surface. The operation signal is inputted to the driver seat control unit when the lifting switch (rear) is operated.

Component Function Check

INFOID:000000012170544

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in "Data monitor" mode with CONSULT.
3. Check lifting switch (rear) signal under the following conditions.

| Monitor item | Condition | | Status |
|---------------|----------------------------|---------|--------|
| LIFT RR SW-UP | Lifting switch rear (up) | Operate | ON |
| | | Release | OFF |
| LIFT RR SW-DN | Lifting switch rear (down) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-65. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170545

1. CHECK LIFTING SWITCH (REAR) SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Turn ignition switch ON.
4. Check voltage between power seat switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------|----------|--------|--------------------------|
| Power seat switch | | | |
| Connector | Terminal | Ground | 9 – 16 V |
| B459 | 11 | | |
| | 27 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and power seat switch harness connector.

| Driver seat control unit | | Power sear switch | | Continuity |
|--------------------------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 11 | B459 | 11 | Existed |
| | 27 | | 27 | |

4. Check continuity between driver seat control unit harness connector and ground.

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 11 | | |
| | 27 | | Not existed |

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).
 NO >> Repair or replace harness or connector.

3.CHECK LIFTING SWITCH (REAR)

Refer to [ADP-66, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170546

1.CHECK LIFTING SWITCH (REAR)

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals.

| Power seat switch | | Condition | | Continuity |
|-------------------|----|----------------------------|---------|-------------|
| Terminal | | | | |
| 43 | 11 | Lifting switch rear (up) | Operate | Existed |
| | | | Release | Not existed |
| | 27 | Lifting switch rear (down) | Operate | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Replace power seat switch. Refer to [ADP-224, "Removal and Installation"](#).

TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TILT SWITCH

Description

INFOID:000000012170547

Tilt switch is equipped to the steering column. The operation signal is inputted to the automatic drive positioner control unit when the tilt switch is operated.

Component Function Check

INFOID:000000012170548

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TILT SW-UP", "TILT SW-DN" in "Data monitor" mode with CONSULT.
3. Check tilt switch signal under the following conditions.

| Monitor item | Condition | | Status |
|--------------|--------------------|---------|--------|
| TILT SW-UP | Tilt switch (up) | Operate | ON |
| | | Release | OFF |
| TILT SW-DN | Tilt switch (down) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-67. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170549

1.CHECK TILT SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Turn ignition switch ON.
4. Check voltage between tilt & telescopic switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------------|----------|--------|--------------------------|
| Tilt & telescopic switch | | | |
| Connector | Terminal | Ground | 4 – 6 V |
| M31 | 4 | | |
| | 5 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK TILT 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 tilt & telescopic switch harness connector.

| Automatic drive positioner control unit | | Tilt & telescopic switch | | Continuity |
|---|----------|--------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 1 | M31 | 4 | Existed |
| | 13 | | 5 | |

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

TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| M78 | 1 | | |
| | 13 | | |

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3.CHECK TILT SWITCH

Refer to [ADP-68, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to [ADP-225, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170550

1.CHECK TILT SWITCH

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Check continuity between tilt & telescopic switch terminals.

| Tilt & telescopic switch | | Condition | | Continuity |
|--------------------------|---|--------------------|---------|-------------|
| Terminal | | | | |
| 1 | 4 | Tilt switch (up) | Operate | Existed |
| | | | Release | Not existed |
| | 5 | Tilt switch (down) | Operate | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to [ADP-225, "Removal and Installation"](#).

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SWITCH

Description

INFOID:000000012170551

Telescopic switch is equipped to the steering column. The operation signal is inputted to the automatic drive positioner control unit when the telescopic switch is operated.

Component Function Check

INFOID:000000012170552

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TELESCO SW-FR", "TELESCO SW-RR" in "Data monitor" mode with CONSULT.
3. Check telescopic switch signal under the following conditions.

| Monitor item | Condition | Status | |
|---------------|------------------------------|---------|-----|
| TELESCO SW-FR | Telescopic switch (forward) | Operate | ON |
| | | Release | OFF |
| TELESCO SW-RR | Telescopic switch (backward) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-69. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170553

1. CHECK TELESCOPIC SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Turn ignition switch ON.
4. Check voltage between tilt & telescopic switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------------|----------|--------|--------------------------|
| Tilt & telescopic switch | | | |
| Connector | Terminal | Ground | 4 – 6 V |
| M31 | 2 | | |
| | 3 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TELESCOPIC 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 tilt & telescopic switch harness connector.

| Automatic drive positioner control unit | | Tilt & telescopic switch | | Continuity |
|---|----------|--------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 7 | M31 | 2 | Existed |
| | 19 | | 3 | |

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

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|------------|
| Connector | Terminal | | |
| M78 | 7 | | |
| | 19 | | |

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3.CHECK TELESCOPIC SWITCH

Refer to [ADP-70, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to [ADP-225, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170554

1.CHECK TELESCOPIC SWITCH

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Check continuity between tilt & telescopic switch terminals.

| Tilt & telescopic switch | | Condition | | Continuity |
|--------------------------|---|------------------------------|---------|-------------|
| Terminal | | | | |
| 1 | 2 | Telescopic switch (forward) | Operate | Existed |
| | | | Release | Not existed |
| | 3 | Telescopic switch (backward) | Operate | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to [ADP-225, "Removal and Installation"](#).

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY SWITCH

Description

INFOID:000000012170555

Memory switch is equipped on the seat set switch and seat memory switch installed to the driver side door trim. The operation signal is inputted to the automatic drive positioner control unit when the set switch or memory switch is operated.

Component Function Check

INFOID:000000012170556

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "MEMORY SW 1", "MEMORY SW 2" "SET SW" in "Data monitor" mode with CONSULT.
3. Check seat memory switch signal under the following conditions.

| Monitor item | Condition | Status | |
|--------------|-----------------|---------|-----|
| SET SW | SET SW | Push | ON |
| | | Release | OFF |
| MEMORY SW 1 | Memory switch 1 | Push | ON |
| | | Release | OFF |
| MEMORY SW 2 | Memory switch 2 | Push | ON |
| | | Release | OFF |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-71, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170557

1. CHECK SEAT MEMORY SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Disconnect seat memory switch connector.
3. Turn ignition switch ON.
4. Check voltage between seat memory switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------|----------|--------|--------------------------|
| Seat memory switch | | | |
| Connector | Terminal | Ground | 4 – 6 V |
| D5 | 3 | | |
| | 1 | | |
| | 2 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK MEMORY SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and seat memory switch harness connector.

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Seat memory switch | | Continuity |
|--------------------------|----------|--------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M451 | 28 | D5 | 3 | Existed |
| | 22 | | 1 | |
| | 6 | | 2 | |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| M451 | 28 | Ground | Not existed |
| | 22 | | |
| | 6 | | |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3. CHECK MEMORY SWITCH GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between seat memory switch harness connector and ground.

| Seat memory switch | | Ground | Continuity |
|--------------------|----------|--------|------------|
| Connector | Terminal | | |
| D5 | 4 | Ground | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4. CHECK SEAT MEMORY SWITCH

Refer to [ADP-72, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat memory switch. Refer to [ADP-223, "Removal and Installation"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000012170558

1. CHECK SEAT MEMORY SWITCH

- Turn ignition switch OFF.
- Disconnect seat memory switch connector.
- Check continuity between seat memory switch terminals.

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Seat memory switch | | Condition | | Continuity |
|--------------------|---|-----------------|---------|-------------|
| Terminal | | | | |
| 4 | 3 | Set switch | Push | Existed |
| | | | Release | Not existed |
| | 1 | Memory switch 1 | Push | Existed |
| | | | Release | Not existed |
| | 2 | Memory switch 2 | Push | Existed |
| | | | Release | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch. Refer to [ADP-223, "Removal and Installation"](#).

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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

INFOID:000000012170559

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:000000012170560

1. CHECK CHANGEOVER SWITCH FUNCTION

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

Refer to [ADP-43, "CONSULT Function"](#).

Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to [ADP-74, "CHANGEOVER SWITCH : Diagnosis Procedure"](#).

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000012170561

1. CHECK CHANGEOVER SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between automatic drive positioner control unit connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|--|------------------|--------|------------------|--------------------------|
| Automatic drive positioner control unit Connector | Terminal | | | |
| M78 | 2 | Ground | RIGHT | 0 – 1 |
| | 14 | | Other than above | 4 – 6 |
| | | | LEFT | 0 – 1 |
| | Other than above | | 4 – 6 | |

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

| Automatic drive positioner control unit | | Door mirror remote control switch | | Continuity |
|---|----------|-----------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 2 | D17 | 11 | Existed |
| | 14 | | 10 | |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 2 | | Not existed |
| | 14 | | |

Is the inspection result normal?

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3.
 NO >> Repair or replace harness.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

Check continuity between door mirror remote control switch connector and ground.

| Door mirror remote control switch | | Ground | Continuity |
|-----------------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D17 | 7 | | Existed |

Is the inspection result normal?

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

4.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect automatic drive positioner control unit connector.
2. Turn ignition switch ON.
3. Check voltage between automatic drive positioner control unit connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-----------|----------|--------|--------------------------|
| Connector | Terminal | | |
| M78 | 2 | Ground | 4 – 6 |
| | 14 | | |

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

5.CHECK CHANGEOVER SWITCH

Check changeover switch.

Refer to [ADP-75, "CHANGEOVER SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Refer to [GI-42, "Intermittent Incident"](#).
 NO >> Replace door mirror remote control switch. Refer to [MIR-134, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-42, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).
 NO >> Repair or replace the malfunctioning parts.

CHANGEOVER SWITCH : Component Inspection

INFOID:000000012170562

1.CHECK CHANGEOVER SWITCH

Check door mirror remote control switch.

| Door mirror remote control switch | | Condition | Continuity | |
|-----------------------------------|---|--------------------|------------------|-------------|
| Terminal | | | | |
| 10 | 7 | Change over switch | LEFT | Existed |
| | | | Other than above | Not existed |
| 11 | | | RIGHT | Existed |
| | | | Other than above | Not existed |

Is the inspection result normal?

- YES >> INSPECTION END

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace door mirror remote control switch. Refer to [MIR-134, "Removal and Installation"](#).

MIRROR SWITCH

MIRROR SWITCH : Description

INFOID:0000000012170563

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:0000000012170564

1.CHECK MIRROR SWITCH FUNCTION

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

Refer to [ADP-43, "CONSULT Function"](#).

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to [ADP-76, "MIRROR SWITCH : Diagnosis Procedure"](#).

MIRROR SWITCH : Diagnosis Procedure

INFOID:0000000012170565

1.CHECK MIRROR SWITCH FUNCTION

1. Turn ignition switch ON.
2. Check voltage between automatic drive positioner control unit connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) | |
|---|----------|--------|---------------|--------------------------|-------|
| Automatic drive positioner control unit | | | | | |
| Connector | Terminal | | | | |
| M78 | 3 | Ground | Mirror switch | UP | 0 - 1 |
| | | | | Other than above | 4 - 6 |
| | 4 | | | LEFT | 0 - 1 |
| | | | | Other than above | 4 - 6 |
| | 15 | | | DOWN | 0 - 1 |
| | | | | Other than above | 4 - 6 |
| | 16 | | | RIGHT | 0 - 1 |
| | | | | Other than above | 4 - 6 |

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK HARNESS CONTINUITY

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

| Automatic drive positioner control unit | | Door mirror remote control switch | | Continuity |
|---|----------|-----------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 3 | D17 | 15 | Existed |
| | 4 | | 13 | |
| | 15 | | 12 | |
| | 16 | | 4 | |

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

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 3 | Ground | Not existed |
| | 4 | | |
| | 15 | | |
| | 16 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

Check continuity between door mirror remote control switch connector and ground.

| Door mirror remote control switch | | Ground | Continuity |
|-----------------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D17 | 7 | Ground | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect automatic drive positioner control unit connector.
2. Turn ignition switch ON.
3. Check voltage between automatic drive positioner control unit and ground.

| Automatic drive positioner control unit | | (-) | Voltage (V) (Approx.) |
|---|----------|--------|--------------------------|
| Connector | Terminal | | |
| M78 | 3 | Ground | 4 – 6 |
| | 4 | | |
| | 15 | | |
| | 16 | | |

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

5.CHECK MIRROR SWITCH

Check mirror switch

Refer to [ADP-78, "MIRROR SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-42, "Intermittent Incident"](#).

NO >> Replace door mirror remote control switch. Refer to [MIR-134, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-42, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

MIRROR SWITCH : Component Inspection

INFOID:000000012170566

1.CHECK MIRROR SWITCH

Check door mirror remote control switch.

| Door mirror remote control switch | | Condition | Continuity |
|-----------------------------------|---|------------------|-------------|
| Terminal | | | |
| 4 | 7 | RIGHT | Existed |
| | | Other than above | Not existed |
| 13 | | LEFT | Existed |
| | | Other than above | Not existed |
| 15 | | UP | Existed |
| | | Other than above | Not existed |
| 12 | | DOWN | Existed |
| | | Other than above | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to [MIR-134. "Removal and Installation"](#).

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000012170567

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch connector and ground.

| Power seat switch | | Ground | Continuity |
|-------------------|----------|--------|------------|
| Connector | Terminal | | |
| B459 | 43 | | Existed |

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
NO >> Repair or replace harness.

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TILT & TELESCOPIC SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000012170568

1. CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Check continuity between tilt & telescopic switch and ground.

| Tilt & telescopic switch | | Ground | Continuity |
|--------------------------|----------|--------|------------|
| Connector | Terminal | | Existed |
| M31 | 1 | | |

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
- NO >> Repair or replace harness.

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR

Description

INFOID:0000000012170569

- The sliding sensor is installed to the seat slide cushion frame.
- The pulse signal is inputted to the driver seat control unit when sliding is performed.
- The driver seat control unit counts the pulse and calculates the sliding amount of the seat.

Component Function Check

INFOID:0000000012170570

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "SLIDE PULSE" in "Data monitor" mode with CONSULT.
3. Check sliding sensor signal under the following conditions.

| Monitor item | Condition | | Valve |
|--------------|--------------|--------------------|---------------------|
| SLIDE PULSE | Seat sliding | Operate (forward) | Change (increase)*1 |
| | | Operate (backward) | Change (decrease)*1 |
| | | Release | No change*1 |

*1: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

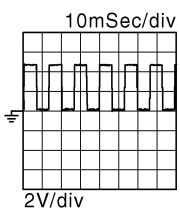
NO >> Perform diagnosis procedure. Refer to [ADP-81, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012170571

1. CHECK SLIDING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage signal between driver seat control unit harness connector and ground with oscilloscope.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|-----------|----------|--------|------------------|---|
| Connector | Terminal | | | |
| B451 | 18 | Ground | Seat sliding |  <p>10mSec/div 2V/div JMJA0119ZZ</p> |
| | | | Other than above | 0 or 5 |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and sliding sensor connector.
3. Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Sliding sensor | | Continuity |
|--------------------------|----------|----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 18 | B453 | 18 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 18 | | Not existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK SLIDING SENSOR POWER SUPPLY

1. Connect driver seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between sliding sensor harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|----------------|----------|--------|--------------------------|
| Sliding sensor | | | |
| Connector | Terminal | | |
| B453 | 12 | Ground | 9 – 16 V |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

| Driver seat control unit | | Sliding sensor | | Continuity |
|--------------------------|----------|----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 12 | B453 | 12 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 12 | | Not existed |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

5. CHECK SLIDING SENSOR GROUND

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

| Sliding sensor | | Ground | Continuity |
|----------------|----------|--------|------------|
| Connector | Terminal | | |
| B453 | 43 | | Existed |

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace sliding sensor.

NO >> Repair or replace harness or connector.

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RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SENSOR

Description

INFOID:000000012170572

- The reclining motor is installed to the seatback frame.
- The pulse signal is inputted to the driver seat control unit when the reclining is operated.
- The driver seat control unit counts the pulse and calculates the reclining amount of the seat.

Component Function Check

INFOID:000000012170573

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "RECLN PULSE" in "Data monitor" mode with CONSULT.
3. Check reclining sensor signal under the following conditions.

| Monitor item | Condition | | Value |
|--------------|----------------|--------------------|---------------------------------|
| RECLN PULSE | Seat reclining | Operate (forward) | Change (increase)* ¹ |
| | | Operate (backward) | Change (decrease)* ¹ |
| | | Release | No change* ¹ |

*¹: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

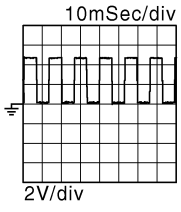
NO >> Perform diagnosis procedure. Refer to [ADP-84, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170574

1. CHECK RECLINING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage signal between driver seat control unit harness connector and ground with oscilloscope.

| (+) Driver seat control unit | | (-) | Condition | Voltage (V) (Approx.) |
|------------------------------|----------|--------|------------------|---|
| Connector | Terminal | | | |
| B451 | 4 | Ground | Seat reclining |  10mSec/div 2V/div JMJA0119ZZ |
| | | | Other than above | |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK RECLINING SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and reclining motor connector.
3. Check continuity between driver seat control unit harness connector and reclining motor harness connector.

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Reclining motor | | Continuity |
|--------------------------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 4 | B454 | 4 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 4 | | Not existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK RECLINING SENSOR POWER SUPPLY

1. Connect driver seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between reclining motor harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-----------------|----------|--------|--------------------------|
| Reclining motor | | | |
| Connector | Terminal | | |
| B454 | 12 | Ground | 9 – 16 V |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and reclining motor harness connector.

| Driver seat control unit | | Reclining motor | | Continuity |
|--------------------------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 12 | B454 | 12 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 12 | | Not existed |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

5. CHECK RECLINING SENSOR GROUND

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and reclining motor harness connector.

| Reclining motor | | Ground | Continuity |
|-----------------|----------|--------|------------|
| Connector | Terminal | | |
| B454 | 43 | | Existed |

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace reclining motor.

NO >> Repair or replace harness or connector.

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description

INFOID:000000012170575

- The lifting sensor (front) is installed to the seat slide cushion frame.
- The pulse signal is inputted to the driver seat control unit when the lifting (front) is operated.
- The driver seat control unit counts the pulse and calculates the lifting (front) amount of the seat.

Component Function Check

INFOID:000000012170576

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "LIFT FR PULSE" in "Data monitor" mode with CONSULT.
3. Check the lifting sensor (front) signal under the following conditions.

| Monitor item | Condition | | Value |
|---------------|----------------------|----------------|---------------------------------|
| LIFT FR PULSE | Seat lifting (front) | Operate (Up) | Change (increase) ^{*1} |
| | | Operate (Down) | Change (decrease) ^{*1} |
| | | Release | No change ^{*1} |

*1: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

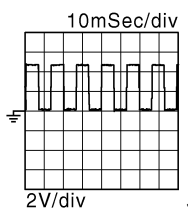
NO >> Perform diagnosis procedure. Refer to [ADP-87. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170577

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

1. Turn ignition switch ON.
2. Check the voltage signal driver seat control unit harness connector and ground with an oscilloscope.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|--------------------------|----------|--------|----------------------|---|
| Driver seat control unit | | | | |
| Connector | Terminal | | | |
| B451 | 19 | Ground | Seat Lifting (front) |  10mSec/div 2V/div JM/JIA0119ZZ |
| | | | Other than above | |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221. "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (front) connector.
3. Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Lifting motor (front) | | Continuity |
|--------------------------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 19 | B455 | 19 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 19 | | Not existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK LIFTING SENSOR (FRONT) POWER SUPPLY

1. Connect driver seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between lifting motor (front) harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-----------------------|----------|--------|--------------------------|
| Lifting motor (front) | | | |
| Connector | Terminal | | |
| B455 | 12 | Ground | 9 – 16 V |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

| Driver seat control unit | | Lifting motor (front) | | Continuity |
|--------------------------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 12 | B455 | 12 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 12 | | Not existed |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

5.CHECK LIFTING SENSOR (FRONT) GROUND

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

| Lifting motor (front) | | Ground | Continuity |
|-----------------------|----------|--------|------------|
| Connector | Terminal | | |
| B455 | 43 | | Existed |

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace lifting motor (front).

NO >> Repair or replace harness.

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LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description

INFOID:000000012170578

- The lifting sensor (rear) is installed to the seat slide cushion frame.
- The pulse signal is inputted to the driver seat control unit when the lifting (rear) is operated.
- The driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat.

Component Function Check

INFOID:000000012170579

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "LIFT RR PULSE" in "Data monitor" mode with CONSULT.
3. Check lifting sensor (rear) signal under the following conditions.

| Monitor item | Condition | | Value |
|---------------|---------------------|----------------|---------------------|
| LIFT RR PULSE | Seat lifting (rear) | Operate (Up) | Change (increase)*1 |
| | | Operate (Down) | Change (decrease)*1 |
| | | Release | No change*1 |

*1: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

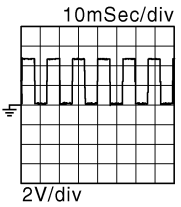
NO >> Perform diagnosis procedure. Refer to [ADP-90. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170580

1. CHECK LIFTING SENSOR (REAR) SIGNAL

1. Turn ignition switch ON.
2. Check voltage signal between driver seat control unit harness connector and ground with oscilloscope.

| (+) Driver seat control unit | | (-) | Condition | Voltage (V) (Approx.) |
|------------------------------|----------|--------|---------------------|---|
| Connector | Terminal | | | |
| B451 | 20 | Ground | Seat Lifting (rear) |  10mSec/div 2V/div JMJA0119ZZ |
| | | | Operate | |
| | | | Other than above | 0 or 5 |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221. "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK LIFTING SENSOR (REAR) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (rear) connector.
3. Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Lifting motor (rear) | | Continuity |
|--------------------------|----------|----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 20 | B456 | 20 | Existed |

4. Check the continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 20 | | Not Existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK LIFTING SENSOR (REAR) POWER SUPPLY

1. Connect driver seat control unit connector.
2. Turn ignition switch ON.
3. Check the voltage between lifting motor (rear) harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|----------------------|----------|--------|--------------------------|
| Lifting motor (rear) | | | |
| Connector | Terminal | | |
| B456 | 12 | Ground | 9 – 16 V |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

| Driver seat control unit | | Lifting motor (rear) | | Continuity |
|--------------------------|----------|----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 12 | B456 | 12 | Existed |

4. Check the continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 12 | | Not existed |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

5. CHECK LIFTING SENSOR (REAR) GROUND

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

| Lifting motor (rear) | | Ground | Continuity |
|----------------------|----------|--------|------------|
| Connector | Terminal | | |
| B456 | 43 | | Existed |

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace lifting motor (rear).
- NO >> Repair or replace harness or connector.

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TILT SENSOR

Description

INFOID:000000012170581

- The tilt sensor is installed to the steering column assembly.
- The resistance of tilt sensor is changed according to the up/down position of steering column.
- The terminal voltage of automatic drive positioner control unit will be changed according to a change of tilt sensor resistance. Automatic drive positioner control unit calculates the tilt position from the voltage.

Component Function Check

INFOID:000000012170582

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TILT PULSE" in "Data monitor" mode with CONSULT.
3. Check the tilt sensor signal under the following condition.

| Monitor item | Condition | | Value |
|--------------|-----------------|----------------|-------------------|
| TILT PULSE | Steering column | Operate (up) | Change (increase) |
| | | Operate (down) | Change (decrease) |
| | | Release | Not change |

Is the indication normal?

YES >> INSPECTION END

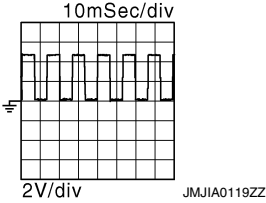
NO >> Perform diagnosis procedure. Refer to [ADP-93, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170583

1. CHECK TILT SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage signal between drive seat control unit harness connector and ground with oscilloscope.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|--------------------------------------|----------|--------|----------------------|---|
| Drive seat control unit Connector | Terminal | | | |
| B451 | 21 | Ground | Steering tilt |  |
| | | | Other than the above | |

Is the inspection result normal?

YES >> Replace drive seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK TILT SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect drive seat control unit and tilt & telescopic motor connector.
3. Check continuity between drive seat control unit harness connector and tilt & telescopic motor harness connector.

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Drive seat control unit | | Tilt & telescopic motor | | Continuity |
|-------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 21 | M80 | 1 | Existed |

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

| Drive seat control unit | | Ground | Continuity |
|-------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 21 | | Not existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK TILT SENSOR POWER SUPPLY

1. Connect drive seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between tilt & telescopic motor harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------------|----------|--------|--------------------------|
| Tilt & telescopic motor | | | |
| Connector | Terminal | | |
| M80 | 2 | Ground | 9 – 16 V |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK TILT SENSOR POWER SUPPLY 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 tilt & telescopic motor harness connector.

| Automatic drive positioner control unit | | Tilt & telescopic motor | | Continuity |
|---|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 27 | M80 | 2 | Existed |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 27 | | Not existed |

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

5. CHECK TILT SENSOR GROUND 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 tilt & telescopic motor harness connector.

| Automatic drive positioner control unit | | Tilt & telescopic motor | | Continuity |
|---|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 20 | M80 | 8 | Existed |

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace tilt & telescopic motor.
- NO >> Repair or replace harness or connector.

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TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SENSOR

Description

INFOID:000000012170584

- The telescopic sensor is installed to the steering column assembly.
- The resistance of telescopic sensor is changed according to the forward/backward position of steering column.
- The terminal voltage of automatic drive positioner control unit will be changed according to a change of telescopic sensor resistance. Automatic drive positioner control unit calculates the telescopic position from the voltage.

Component Function Check

INFOID:000000012170585

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TELESCO PULSE" in "Data monitor" mode with CONSULT.
3. Check the tilt sensor signal under the following conditions.

| Monitor item | Condition | | Value |
|---------------|-----------------|--------------------|-------------------|
| TELESCO PULSE | Steering column | Operate (forward) | Change (increase) |
| | | Operate (backward) | Change (decrease) |
| | | Release | Not change |

Is the indication normal?

YES >> INSPECTION END.


NO >> Perform diagnosis procedure. Refer to [ADP-96, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170586

1. CHECK TELESCOPIC SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage signal between drive seat control unit harness connector and ground with oscilloscope.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|--------------------------------------|----------|--------|----------------------|---|
| Drive seat control unit Connector | Terminal | | | |
| B451 | 5 | Ground | Steering tilt |  <p>10mSec/div 2V/div JMJA0119ZZ</p> |
| | | | Other than the above | 0 or 5 |

Is the inspection result normal?

YES >> Replace drive seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK TELESCOPIC SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and tilt & telescopic motor connector.
3. Check continuity between driver seat control unit harness connector and tilt & telescopic motor harness connector.

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Drive seat control unit | | Tilt & telescopic motor | | Continuity |
|-------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 5 | M80 | 5 | Existed |

4. Check continuity between driver seat control unit harness connector and ground.

| Drive seat control unit | | Ground | Continuity |
|-------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 5 | | Not existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK TELESCOPIC SENSOR POWER SUPPLY

1. Connect automatic drive positioner control unit connector.
2. Turn ignition switch ON.
3. Check voltage between tilt & telescopic motor harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------------|----------|--------|--------------------------|
| Tilt & telescopic motor | | | |
| Connector | Terminal | | |
| M80 | 6 | Ground | 9 – 16 V |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK TELESCOPIC SENSOR POWER SUPPLY 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 tilt & telescopic motor harness connector.

| Automatic drive positioner control unit | | Tilt & telescopic motor | | Continuity |
|---|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 27 | M80 | 6 | Existed |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 27 | | Not existed |

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

5. CHECK TELESCOPIC SENSOR GROUND 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 tilt & telescopic motor harness connector.

| Automatic drive positioner control unit | | Tilt & telescopic motor | | Continuity |
|---|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 20 | M80 | 9 | Existed |

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace tilt & telescopic motor.

NO >> Repair or replace harness.

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

MIRROR SENSOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000012170587

- The mirror sensor (driver side) is installed to the door mirror (driver side).
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror (driver side) is operated.
- Automatic drive positioner control unit calculates the door mirror position according to the change of the voltage of 2 sensor input terminals.

DRIVER SIDE : Component Function Check

INFOID:000000012170588

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "MIR/SEN LH U-D", "MIR/SEN LH R-L" in "Data monitor" with CONSULT.
3. Check mirror sensor (driver side) signal under the following condition.

| Monitor item | Condition | Value |
|----------------|---------------------------|---|
| MIR/SEN LH U-D | Door mirror (driver side) | Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley) |
| MIR/SEN LH R-L | | Change between 0.6 [V] (close to left edge) 3.4 [V] (close to right edge) |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-99, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000012170589

1.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect door mirror (driver side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (driver side) harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|---------------------------|----------|--------|--------------------------|
| Door mirror (driver side) | | | |
| Connector | Terminal | | |
| D3 | 23 | Ground | 4 – 6 V |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR POWER SUPPLY 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 (driver side) harness connector.

| Automatic drive positioner control unit connector | Terminal | Door mirror (driver side) connector | Terminal | Continuity |
|---|----------|-------------------------------------|----------|------------|
| M78 | 21 | D3 | 23 | Existed |

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

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 21 | | Not existed |

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR GROUND

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

| Automatic drive positioner control unit | | Door mirror (driver side) | | Continuity |
|---|----------|---------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 20 | D3 | 24 | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

| Automatic drive positioner control unit | | Door mirror (driver side) | | Continuity |
|---|----------|---------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 6 | D3 | 21 | Existed |
| | 18 | | 22 | |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 6 | | Not existed |
| | 18 | | |

Is the inspection result normal?

YES >> Replace door mirror sensor. (Built in driver side mirror.)

NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000012170590

- The mirror sensor (passenger side) is installed to the door mirror (passenger side).
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror (passenger side) is operated.
- Automatic drive positioner control unit calculates the door mirror position according to the change of the voltage of 2 sensor input terminals.

PASSENGER SIDE : Component Function Check

INFOID:000000012170591

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in "Data monitor" with CONSULT.
3. Check the mirror sensor (passenger side) signal under the following conditions.

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Monitor item | Condition | Value |
|----------------|------------------------------|---|
| MIR/SEN RH U-D | Door mirror (passenger side) | Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley) |
| MIR/SEN RH R-L | | Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge) |

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-101, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000012170592

1. CHECK DOOR MIRROR SENSOR (PASSENGER SIDE) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect door mirror (passenger side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (passenger side) harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|------------------------------|----------|--------|--------------------------|
| Door mirror (passenger side) | | | |
| Connector | Terminal | Ground | 4 – 6 V |
| D33 | 23 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR POWER SUPPLY 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 (passenger side) harness connector.

| Automatic drive positioner control unit | | Door mirror (passenger side) | | Continuity |
|---|----------|------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 21 | D33 | 23 | Existed |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 21 | | Not existed |

Is the inspection result normal?

YES >> Replace automatic driver positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND

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 (passenger side) connector.

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Door mirror (passenger side) | | Continuity |
|---|----------|------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 20 | D33 | 24 | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR HARNESS CONTINUITY

1. Check continuity between automatic drive positioner control unit harness connector and door mirror (passenger side) harness connector.

| Automatic drive positioner control unit | | Door mirror (passenger side) | | Continuity |
|---|----------|------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 5 | D33 | 21 | Existed |
| | 17 | | 22 | |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 5 | | Not existed |
| | 17 | | |

Is the inspection result normal?

YES >> Replace door mirror sensor. (Built in passenger side door mirror).

NO >> Repair or replace harness or connector.

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR

Description

INFOID:000000012170593

- The seat sliding motor is installed to the seat cushion frame.
- The seat sliding motor is installed with the driver seat control unit.
- The seat is slid frontward/rearward by changing the rotation direction of sliding motor.

Component Function Check

INFOID:000000012170594

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "SEAT SLIDE" in "Active test" mode with CONSULT.
3. Check the sliding motor operation.

| Test item | | Description | |
|------------|-----|--------------|----------|
| SEAT SLIDE | OFF | Seat sliding | Stop |
| | FR | | Forward |
| | RR | | Backward |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-103, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170595

1.CHECK SLIDING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect sliding motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT SLIDE") with CONSULT.
5. Check voltage between sliding motor harness connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) | |
|---------------|----------|--------|---------------|--------------------------|---------|
| Sliding motor | | | | | |
| Connector | Terminal | | | | |
| B461 | 34 | Ground | SEAT SLIDE | OFF | 0 – 1 V |
| | | | FR (forward) | 9 – 16 V | |
| | | | RR (backward) | 0 – 1 V | |
| | 38 | | SEAT SLIDE | OFF | 0 – 1 V |
| | | | FR (forward) | 0 – 1 V | |
| | | | RR (backward) | 9 – 16 V | |

Is the inspection result normal?

YES >> Replace sliding motor. (Built in seat slide cushion frame.)

NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and sliding motor harness connector.

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Sliding motor | | Continuity |
|--------------------------|----------|---------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B452 | 34 | B461 | 34 | Existed |
| | 38 | | 38 | |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B452 | 34 | | Not existed |
| | 38 | | |

Is the inspection result normal?

- YES >> Replace driver control unit. Refer to [ADP-221, "Removal and Installation"](#).
 NO >> Repair or replace harness or connector.

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR

Description

INFOID:000000012170596

- The seat reclining motor is installed to the seat back frame.
- The seat reclining motor is activated with the driver seat control unit.
- The seatback is reclined frontward/rearward by changing the rotation direction of reclining motor.

Component Function Check

INFOID:000000012170597

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "SEAT RECLINING" in "Active test" mode with CONSULT.
3. Check the reclining motor operation.

| Test item | | Description | |
|----------------|-----|----------------|----------|
| SEAT RECLINING | OFF | Seat reclining | Stop |
| | FR | | Forward |
| | RR | | Backward |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-105, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170598

1.CHECK RECLINING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect reclining motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT RECLINING") with CONSULT
5. Check voltage between reclining motor harness connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|-----------------|----------|--------|--------------------|--------------------------|
| Reclining motor | | | | |
| Connector | Terminal | | | |
| B454 | 39 | Ground | SEAT RECLINING OFF | 0 – 1 V |
| | | | FR (forward) | 9 – 16 V |
| | | | RR (backward) | 0 – 1 V |
| | 35 | | SEAT RECLINING OFF | 0 – 1 V |
| | | | FR (forward) | 0 – 1 V |
| | | | RR (backward) | 9 – 16 V |

Is the inspection result normal?

YES >> Replace reclining motor. (Built in seat back frame.)

NO >> GO TO 2.

2.CHECK RECLINING MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and reclining motor harness connector.

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RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Reclining motor | | Continuity |
|--------------------------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B452 | 35 | B454 | 35 | Existed |
| | 39 | | 39 | |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B452 | 35 | | Not existed |
| | 39 | | |

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description

INFOID:000000012170599

- The lifting motor (front) is installed to the seat slide cushion frame.
- The lifting motor (front) is activated with the driver seat control unit.
- The lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).

Component Function Check

INFOID:000000012170600

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "SEAT LIFTER FR" in "Active test" mode with CONSULT.
3. Check the lifting motor (front) operation.

| Test item | | Description | |
|----------------|-----|----------------------|----------|
| SEAT LIFTER FR | OFF | Seat lifting (front) | Stop |
| | UP | | Upward |
| | DWN | | Downward |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-107, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170601

1.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect lifting motor (front) connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT LIFTER FR") with CONSULT.
5. Check voltage between lifting motor (front) harness connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|-----------|----------|--------|--------------------|--------------------------|
| Connector | Terminal | | | |
| B455 | 40 | Ground | SEAT LIFTER FR OFF | 0 – 1 V |
| | | | UP | 0 – 1 V |
| | | | DWN (down) | 9 – 16 V |
| | 36 | | SEAT LIFTER FR OFF | 0 – 1 V |
| | | | UP | 9 – 16 V |
| | | | DWN (down) | 0 – 1 V |

Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.)

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Lifting motor (front) | | Continuity |
|--------------------------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B452 | 36 | B455 | 36 | Existed |
| | 40 | | 40 | |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B452 | 36 | | Not existed |
| | 40 | | |

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).
 NO >> Repair or replace harness or connector.

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (REAR)

Description

INFOID:000000012170602

- The lifting motor (rear) is installed to the seat slide cushion frame.
- The lifting motor (rear) is activated with the driver seat control unit.
- The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).

Component Function Check

INFOID:000000012170603

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "SEAT LIFTER RR" in "Active test" mode with CONSULT.
3. Check the lifting motor (rear) operation.

| Test item | | Description | |
|----------------|-----|---------------------|----------|
| SEAT LIFTER RR | OFF | Seat lifting (rear) | Stop |
| | UP | | Upward |
| | DWN | | Downward |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-109, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170604

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect lifting motor (rear) connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT LIFTER RR") with CONSULT
5. Check voltage between lifting motor (rear) harness connector and ground.

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| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|----------------------|----------|--------|---------------------------|--------------------------|
| Lifting motor (rear) | | | | |
| Connector | Terminal | | | |
| B456 | 42 | Ground | SEAT LIFTER RR OFF | 0 – 1 V |
| | | | SEAT LIFTER RR UP | 9 – 16 V |
| | | | SEAT LIFTER RR DWN (DOWN) | 0 – 1 V |
| | 41 | | SEAT LIFTER RR OFF | 0 – 1 V |
| | | | SEAT LIFTER RR UP | 0 – 1 V |
| | | | SEAT LIFTER RR DWN (DOWN) | 9 – 16 V |

Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.)

NO >> GO TO 2.

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector and lifting motor (rear) connector.
3. Check continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

| Driver seat control unit | | Lifting motor (rear) | | Continuity |
|--------------------------|----------|----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B452 | 41 | B456 | 41 | Existed |
| | 42 | | 42 | |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B452 | 41 | | Not existed |
| | 42 | | |

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).
 NO >> Repair or replace harness or connector.

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TILT MOTOR

Description

INFOID:000000012170605

- The tilt motor is installed to the steering column assembly.
- The tilt motor is activated with the automatic drive positioner control unit.
- The steering column is tilted upward/downward by changing the rotation direction of tilt motor.

Component Function Check

INFOID:000000012170606

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TILT MOTOR" in "Active test" mode with CONSULT.
3. Check the tilt motor operation.

| Test item | | Description | |
|------------|-----|---------------|----------|
| TILT MOTOR | OFF | Steering tilt | Stop |
| | UP | | Upward |
| | DWN | | Downward |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-111, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170607

1.CHECK TILT MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("TILT MOTOR") with CONSULT.
5. Check voltage between tilt & telescopic motor harness connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) |
|-----------|----------|--------|-----------------------|--------------------------|
| Connector | Terminal | | | |
| M80 | 7 | Ground | TILT MOTOR OFF | 0 – 1 V |
| | | | TILT MOTOR UP | 0 – 1 V |
| | | | TILT MOTOR DWN (down) | 9 – 16 V |
| | 3 | | TILT MOTOR OFF | 0 – 1 V |
| | | | TILT MOTOR UP | 9 – 16 V |
| | | | TILT MOTOR DWN (down) | 0 – 1 V |

Is the inspection result normal?

YES >> Replace tilt motor. (Built in steering column assembly.)

NO >> GO TO 2.

2.CHECK TILT MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and tilt & telescopic motor connector.
3. Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic motor harness connector.

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TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Tilt & telescopic motor | | Continuity |
|---|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M79 | 28 | M80 | 7 | Existed |
| | 29 | | 3 | |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M79 | 28 | | Not existed |
| | 29 | | |

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-222. "Removal and Installation"](#).
 NO >> Repair or replace harness or connector.

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC MOTOR

Description

INFOID:000000012170608

- The telescopic motor is installed to the steering column assembly.
- The telescopic motor is activated with the automatic drive positioner control unit.
- Compresses the steering column by changing the rotation direction of telescopic motor.

Component Function Check

INFOID:000000012170609

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TELESCO MOTOR" in "Active test" mode with CONSULT.
3. Check the telescopic motor operation.

| Test item | | Description | |
|---------------|-----|---------------------|----------|
| TELESCO MOTOR | OFF | Steering telescopic | Stop |
| | FR | | Forward |
| | RR | | Backward |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-113, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170610

1.CHECK TELESCOPIC MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("TELESCO MOTOR") with CONSULT
5. Check voltage between tilt & telescopic motor harness connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) | |
|-----------|----------|--------|------------------|--------------------------|---------|
| Connector | Terminal | | | | |
| M80 | 10 | Ground | TELESCOPIC MOTOR | OFF | 0 – 1 V |
| | | | FR (forward) | 0 – 1 V | |
| | | | RR (backward) | 9 – 16 V | |
| | 4 | | OFF | 0 – 1 V | |
| | | | FR (forward) | 9 – 16 V | |
| | | | RR (backward) | 0 – 1 V | |

Is the inspection result normal?

YES >> Replace telescopic motor. (Built in steering column assembly.)

NO >> GO TO 2.

2.CHECK TELESCOPIC MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and tilt & telescopic motor connector.
3. Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic motor harness connector.

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

| Automatic drive positioner control unit | | Tilt & telescopic motor | | Continuity |
|---|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M79 | 26 | M80 | 10 | Existed |
| | 29 | | 4 | |

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

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M79 | 26 | | Not existed |
| | 29 | | |

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-222. "Removal and Installation"](#).
 NO >> Repair or replace harness or connector.

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR MOTOR

Description

INFOID:0000000012170611

It makes mirror face operate from side to side and up and down with the electric power that AUTOMATIC DRIVE POSITIONER CONTROL UNIT supplies.

Component Function Check

INFOID:0000000012170612

1. CHECK DOOR MIRROR MOTOR FUNCTION

Check the operation with "MIRROR MOTOR RH" and "MIRROR MOTOR LH" in "ACTIVE TEST" mode with CONSULT

Refer to [ADP-43, "CONSULT Function"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [ADP-115, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012170613

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between door mirror connector and ground.

| (+) | | (-) | Condition | Voltage (V) (Approx.) | |
|--|----------|--------|-----------------------------------|--------------------------|----------|
| Door mirror | | | | | |
| Connector | Terminal | | | | |
| D3 (Driver side) D33 (Passenger side) | 12 | Ground | Door mirror remote control switch | UP | 9 – 16 V |
| | | | | Other than above | 0 – 1 V |
| | 11 | | | LEFT | 9 – 16 V |
| | | | | Other than above | 0 – 1 V |
| | 10 | | | DOWN / RIGHT | 9 – 16 V |
| | | | | Other than above | 0 – 1 V |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

[Door mirror driver side]

| Automatic drive positioner control unit | | Door mirror (driver side) | | Continuity |
|---|----------|---------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 12 | D3 | 10 | Existed |
| | 23 | | 12 | |
| | 24 | | 11 | |

[Door mirror passenger side]

| Automatic drive positioner control unit | | Door mirror (passenger side) | | Continuity |
|---|----------|------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M78 | 22 | D33 | 10 | Existed |
| | 10 | | 12 | |
| | 11 | | 11 | |

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DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

[Door mirror driver side]

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 12 | | Not existed |
| | 23 | | |
| | 24 | | |

[Door mirror passenger side]

| Automatic drive positioner control unit | | Ground | Continuity |
|---|----------|--------|-------------|
| Connector | Terminal | | |
| M78 | 22 | | Not existed |
| | 10 | | |
| | 11 | | |

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-222, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

3. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to [ADP-116, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace door mirror. Refer to [MIR-126, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170614

1. CHECK DOOR MIRROR MOTOR-I

Check that door mirror motor does not trap foreign objects and does not have any damage.

Refer to [MIR-126, "Exploded View"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror. Refer to [MIR-126, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).

2. CHECK DOOR MIRROR MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect door mirror connector.
3. Apply 12V to each power supply terminal of door mirror motor.

| Door mirror | | | Operational direction |
|--|----------|-----|-----------------------|
| Connector | Terminal | | |
| | | (+) | (-) |
| D3 (Driver side) D33 (Passenger side) | 10 | 11 | RIGHT |
| | 11 | 10 | LEFT |
| | 12 | 10 | UP |
| | 10 | 12 | DOWN |

Is the inspection result normal?

YES >> INSPECTION END

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace door mirror. Refer to [MIR-126. "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).

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SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY INDICATOR

Description

INFOID:000000012170615

- Memory switch is equipped on the seat memory switch installed to the driver side door trim. The operation signal is inputted to the automatic drive positioner control unit when the memory switch is operated.
- The status of automatic drive positioner system can be checked according to the illuminating/flashing status.

Component Function Check

INFOID:000000012170616

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "MEMORY SW INDCTR" in "Active test" mode with CONSULT.
3. Check the memory indicator operation.

| Test item | | Description | |
|------------------|------|-------------------------|-----------------|
| MEMORY SW INDCTR | OFF | Memory switch indicator | OFF |
| | ON-1 | | Indicator 1: ON |
| | ON-2 | | Indicator 2: ON |

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to [ADP-118, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012170617

1. CHECK MEMORY INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------|----------|--------|--------------------------|
| Seat memory switch | | | |
| Connector | Terminal | Ground | Battery voltage |
| D5 | 5 | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

- 10A fuse [No.10 located in fuse block (J/B)].
- Harness for open or short between memory indicator and fuse.

2. CHECK MEMORY INDICATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and seat memory switch connector.
3. Check continuity between driver seat control unit harness connector and seat memory switch harness connector.

| Driver seat control unit | | Seat memory switch | | Continuity |
|--------------------------|----------|--------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B451 | 23 | D5 | 6 | Existed |
| | 7 | | 7 | |

4. Check continuity between driver seat control unit harness connector and ground.

| Driver seat control unit | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| B451 | 23 | | Not existed |
| | 7 | | |

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace harness or connector.

3.CHECK MEMORY INDICATOR

Refer to [ADP-119. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Replace seat memory switch. Refer to [ADP-223. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000012170618

1.CHECK SEAT MEMORY INDICATOR

1. Turn ignition switch OFF.
2. Disconnect seat memory switch connector.
3. Check continuity between seat memory switch terminals.

| Seat memory switch | | Continuity |
|--------------------|-----|------------|
| Terminal | | |
| (+) | (-) | |
| 5 | 6 | Existed |
| | 7 | |

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace seat memory switch. Refer to [ADP-223. "Removal and Installation"](#).

ADP

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000012170619

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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 SW-UP | Lifting switch front (up) | Operate | ON |
| | | Release | OFF |
| LIFT SW-DOWN | Lifting switch front (down) | Operate | ON |
| | | Release | OFF |
| MIR CON SW-UP | Mirror switch | Up | ON |
| | | Other than above | OFF |
| MIR CON SW-DN | Mirror switch | Down | ON |
| | | Other than above | OFF |
| MIR CON SW-RH | Mirror switch | Right | ON |
| | | Other than above | OFF |
| MIR CON SW-LH | Mirror switch | Left | ON |
| | | Other than above | OFF |
| MIR CHNG SW-R | Changeover switch | Right | ON |
| | | Other than above | OFF |
| MIR CHNG SW-L | Changeover switch | Left | ON |
| | | Other than above | OFF |
| TILT SW-UP | Tilt switch | Up | ON |
| | | Other than above | OFF |
| TILT SW-DOWN | Tilt switch | Down | ON |
| | | Other than above | OFF |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| 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 PULSE | Seat lifter | Up | The numeral value decreases *1 |
| | | Down | The numeral value increases *1 |
| | | Other than above | No change to numeral value*1 |
| MIR/SEN RH U-D | Door mirror (passenger side) | | Change between 3.4 (close to peak) 0.6 (close to valley) |
| MIR/SEN RH R-L | Door mirror (passenger side) | | Change between 3.4 (close to left edge) 0.6 (close to right edge) |
| MIR/SEN LH U-D | Door mirror (driver side) | | Change between 3.4 (close to peak) 0.6 (close to valley) |
| MIR/SEN LH R-L | Door mirror (driver side) | | Change between 0.6 (close to left edge) 3.4 (close to right edge) |
| TILT PULSE | Tilt position | Upward | The numeral value decreases *1 |
| | | Downward | The numeral value increases *1 |
| | | Other than above | No change to numeral value*1 |
| TELESCO PULSE | Telescopic position | Forward | The numeral value decreases *1 |
| | | Backward | The numeral value increases *1 |
| | | Other than above | No change to numeral value*1 |
| STEERING STATUS | Steering lock unit | Lock | LOCK |
| | | Unlock | UNLOCK |
| VEHICLE SPEED | The condition of vehicle speed is display | | km/h |
| P RANG SW CAN | A/T shift selector | P position | ON |
| | | Other than above | UNLOCK |
| R RANG (CAN) | A/T shift selector | R position | ON |
| | | Other than above | UNLOCK |
| DOOR SW-FL | Driver door | Open | OPEN |
| | | Close | CLOSE |
| DOOR SW-FR | Passenger door | Open | OPEN |
| | | Close | CLOSE |

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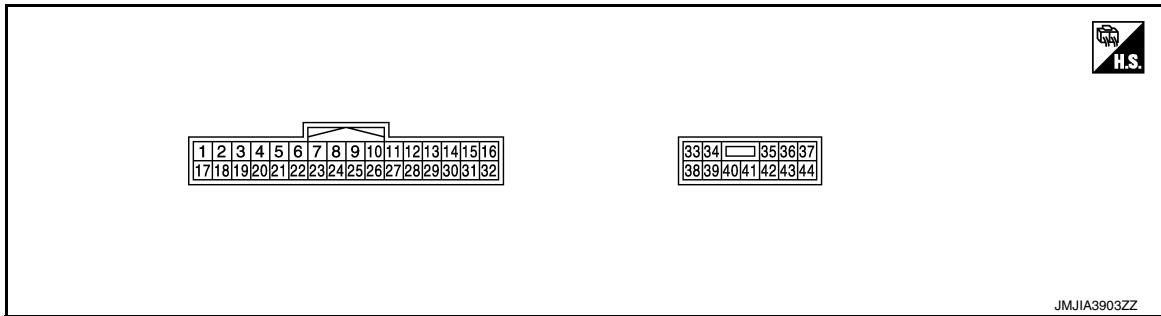
DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status |
|------------------|--|---------------------|-----------------|
| IGN ON SW | Ignition switch | ON position | ON |
| | | Other than above | OFF |
| ACC ON SW | Ignition switch | ACC position | ON |
| | | Other than above | OFF |
| KEYLESS ID | Intelligent Key button | Pressed | MEMORY1/2/3/4/5 |
| | | Other than above | OFF |
| KYL5 DR UNLOCK | Intelligent Key or door request switch | ON | ON |
| | | OFF | OFF |
| VHCL SPEED (ABS) | Vehicle speed signal (ABS) | Received | RCV |
| | | Not received | NORCV |
| HANDLE | Vehicle | left handle models | LHD |
| | | Right handle models | RHD |
| TRANSMISSION | Transmission | M/T | M/T |
| | | A/T | A/T |

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

TERMINAL LAYOUT

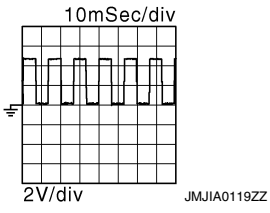
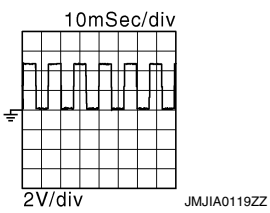


PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | Value |
|------------------------------|--------|----------------------------|--------------|--------------------|-------|
| + | - | Signal name | Input/output | | |
| 1 (L) | — | CAN-H | — | — | — |
| 2 (BR) | Ground | UART communication (TX/RX) | Input/output | Ignition switch ON | |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

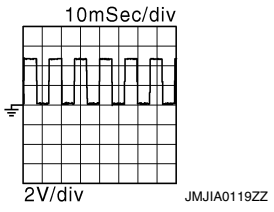
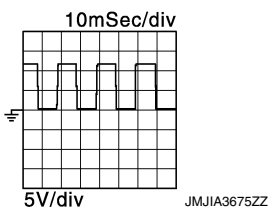
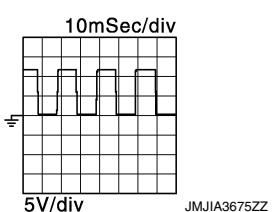
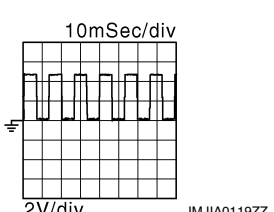
| Terminal No. (Wire color) | | Description | | Condition | Value |
|------------------------------|--------|--|------------------|--|--|
| + | - | Signal name | Input/ output | | |
| 4 (W/G) | Ground | Reclining sensor signal | Input | Seat reclining | Operate  |
| | | | | Other than the above | 0 or 5 V |
| 5 (V) | Ground | Telescopic sen- sor signal | Input | Steering telescopic | Operate  |
| | | | | Other than the above | 0 or 5 V |
| 6 (GY) | Ground | Memory switch 2 signal | Input | Memory switch 2 | Press 0 - 1 V Other than the above 4 - 6 V |
| | | | | Memory indicator 2 | Illuminate 0 - 1 V Other than the above 9 - 16 V |
| 7 (G) | Ground | Memory indica- tor 2 signal | Out- put | Memory indicator 2 | Other than the above 9 - 16 V |
| | | | | Sliding switch backward signal | Input Sliding switch Operate (backward) 0 - 1 V Other than the above 9 - 16 V |
| 8 (BR) | Ground | Sliding switch backward signal | Input | Sliding switch | Operate (backward) 0 - 1 V Other than the above 9 - 16 V |
| | | | | Reclining switch backward signal | Input Reclining switch Operate (backward) 0 - 1 V Other than the above 9 - 16 V |
| 9 (SB) | Ground | Reclining switch backward signal | Input | Reclining switch | Operate (backward) 0 - 1 V Other than the above 9 - 16 V |
| | | | | Lifting switch (front) down sig- nal | Input Lifting switch (front) Operate (down) 0 - 1 V Other than the above 9 - 16 V |
| 10 (LG/R) | Ground | Lifting switch (front) down sig- nal | Input | Lifting switch (front) | Operate (down) 0 - 1 V Other than the above 9 - 16 V |
| | | | | Lifting switch (rear) down sig- nal | Input Lifting switch (rear) Operate (down) 0 - 1 V Other than the above 9 - 16 V |
| 11 (G/B) | Ground | Lifting switch (rear) down sig- nal | Input | Lifting switch (rear) | Operate (down) 0 - 1 V Other than the above 9 - 16 V |
| | | | | Sensor power supply | Out- put — 9 - 16 V |
| 12 (O) | Ground | Sensor power supply | Out- put | — | 9 - 16 V |
| 17 (P) | — | CAN-L | — | — | — |

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value |
|------------------------------|--------|----------------------------------|------------------|-------------------------|--|
| + | - | Signal name | Input/ output | | |
| 18 (R) | Ground | Sliding sensor signal | Input | Seat sliding | Operate  |
| | | | | Other than the above | 0 or 5 V |
| 19 (Y/B) | Ground | Lifting sensor (front) signal | Input | Seat lifting (front) | Operate  |
| | | | | Other than the above | 0 or 12 V |
| 20 (P/B) | Ground | Lifting sensor (rear) signal | Input | Seat lifting (rear) | Operate  |
| | | | | Other than the above | 0 or 12 V |
| 21 (SB) | Ground | Tilt sensor signal | Input | Steering tilt | Operate  |
| | | | | Other than the above | 0 or 5 V |
| 22 (O) | Ground | Memory switch 1 signal | Input | Memory switch 1 | Press 0 - 1 V Other than the above 4 - 6 V |
| | | | | Memory indicator 1 | Illuminate 0 - 1 V Other than the above 9 - 16 V |
| 23 (W) | Ground | Memory indica- tor 1 signal | Out- put | Memory indicator 1 | Illuminate 0 - 1 V Other than the above 9 - 16 V |
| | | | | Sliding switch | Operate (forward) 0 - 1 V Other than the above 9 - 16 V |
| 24 (Y) | Ground | Sliding switch forward signal | Input | Sliding switch | Operate (forward) 0 - 1 V Other than the above 9 - 16 V |
| | | | | Sliding switch | Operate (forward) 0 - 1 V Other than the above 9 - 16 V |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value | |
|------------------------------|--------|--|------------------|------------------------|-------------------------|----------|
| + | - | Signal name | Input/ output | | | |
| 25 (R/G) | Ground | Reclining switch forward signal | Input | Reclining switch | Operate (forward) | 0 - 1 V |
| | | | | | Other than the above | 9 - 16 V |
| 26 (W/B) | Ground | Lifting switch (front) up signal | Input | Lifting switch (front) | Operate (up) | 0 - 1 V |
| | | | | | Other than the above | 9 - 16 V |
| 27 (P/L) | Ground | Lifting switch (rear) up signal | Input | Lifting switch (rear) | Operate (up) | 0 - 1 V |
| | | | | | Other than the above | 9 - 16 V |
| 28 (Y) | Ground | Set switch signal | Input | Set switch | Press | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 33 (R) | Ground | Battery power supply | Input | — | 9 - 16 V | |
| 34 (W/B) | Ground | Sliding motor backward output signal | Out- put | Seat sliding | Operate (backward) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 35 (G/Y) | Ground | Reclining motor forward output signal | Out- put | Seat reclining | Operate (forward) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 36 (G/W) | Ground | Lifting motor (front) down out- put signal | Out- put | Seat lifting (front) | Operate (down) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 38 (W/R) | Ground | Sliding motor forward output signal | Out- put | Seat sliding | Operate (forward) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 39 (P) | Ground | Reclining motor backward output signal | Out- put | Seat reclining | Operate (backward) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 40 (L/R) | Ground | Lifting motor (front) up output signal | Out- put | Seat lifting (front) | Operate (up) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 41 (L/Y) | Ground | Lifting motor (rear) up output signal | Out- put | Seat lifting (rear) | Operate (up) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

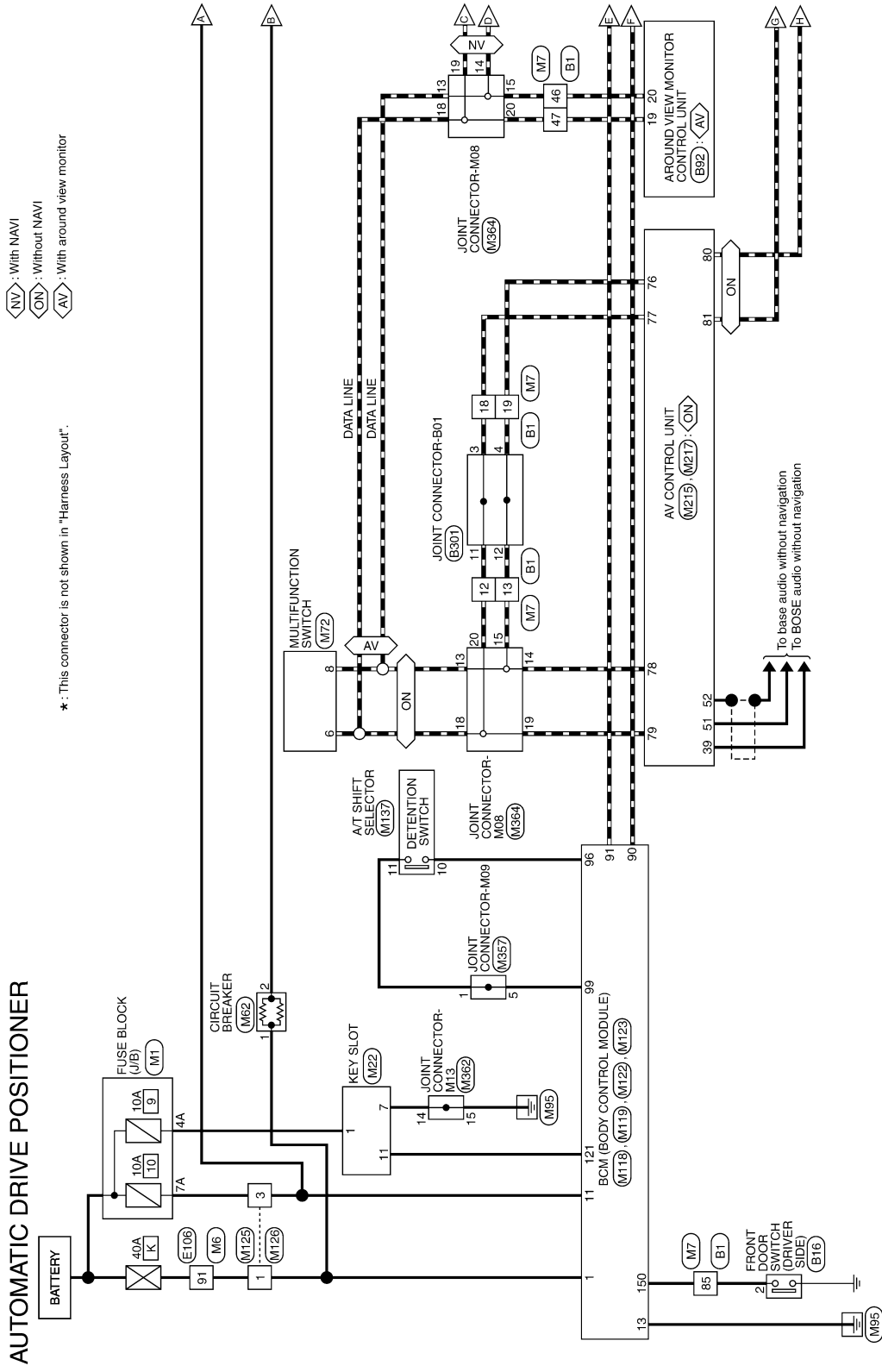
| Terminal No. (Wire color) | | Description | | Condition | Value | |
|------------------------------|--------|---|------------------|---------------------|-------------------------|----------|
| + | - | Signal name | Input/ output | | | |
| 42 (R/B) | Ground | Lifting motor (rear) down out- put signal | Out- put | Seat lifting (rear) | Operate (down) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 43 (B) | Ground | Ground | — | — | 0 - 1 V | |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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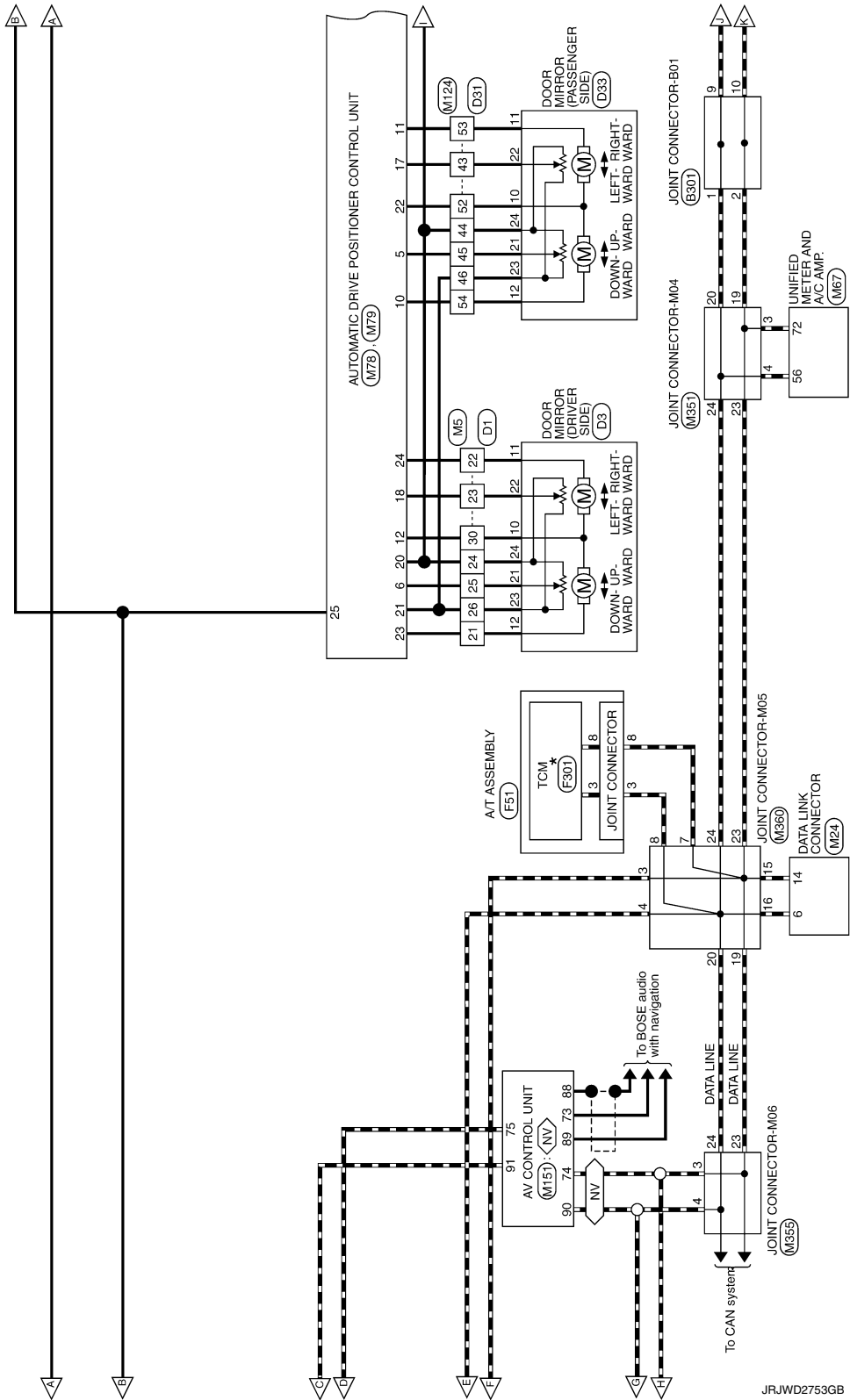
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DRIVER SEAT CONTROL UNIT

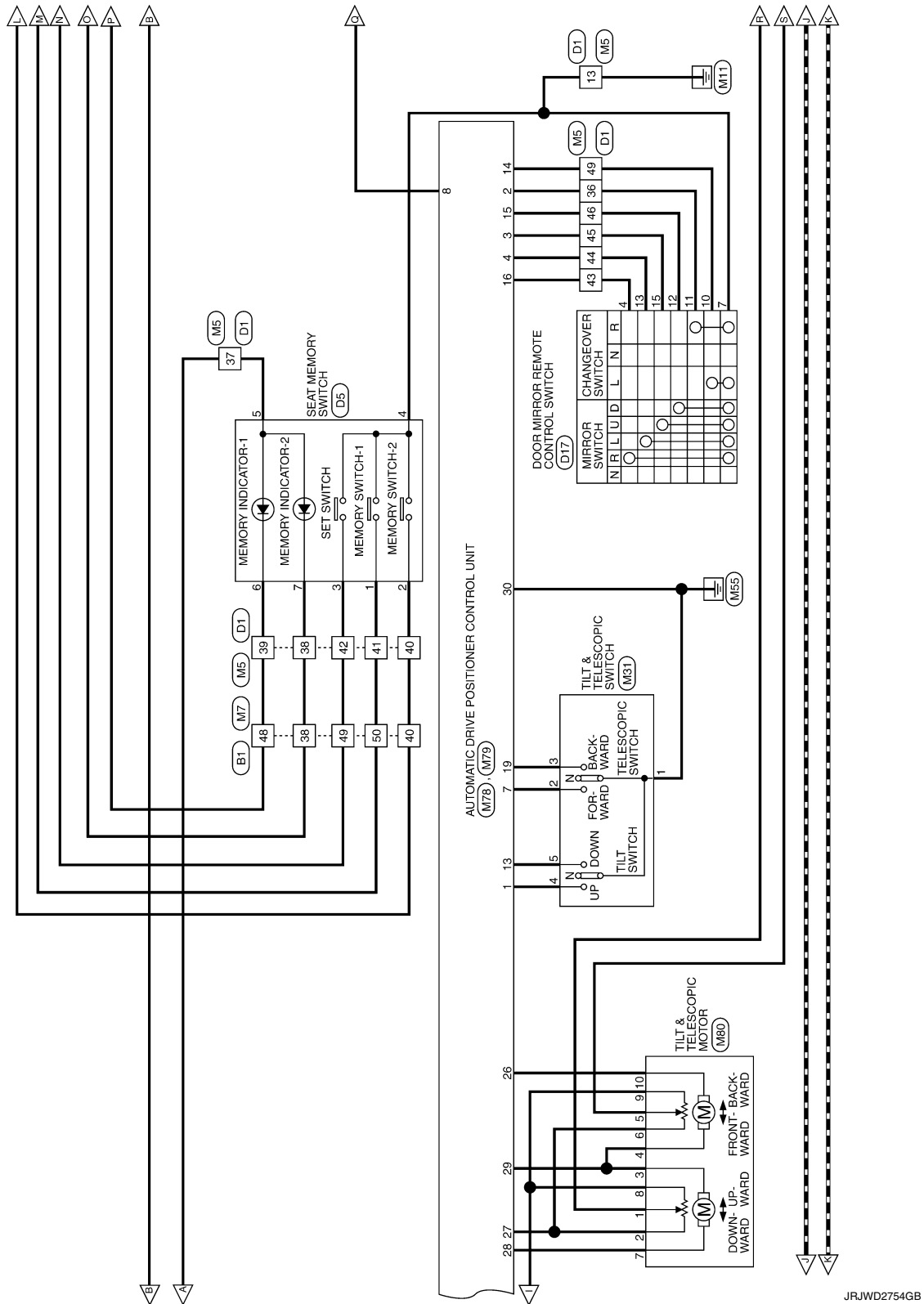
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DRIVER SEAT CONTROL UNIT

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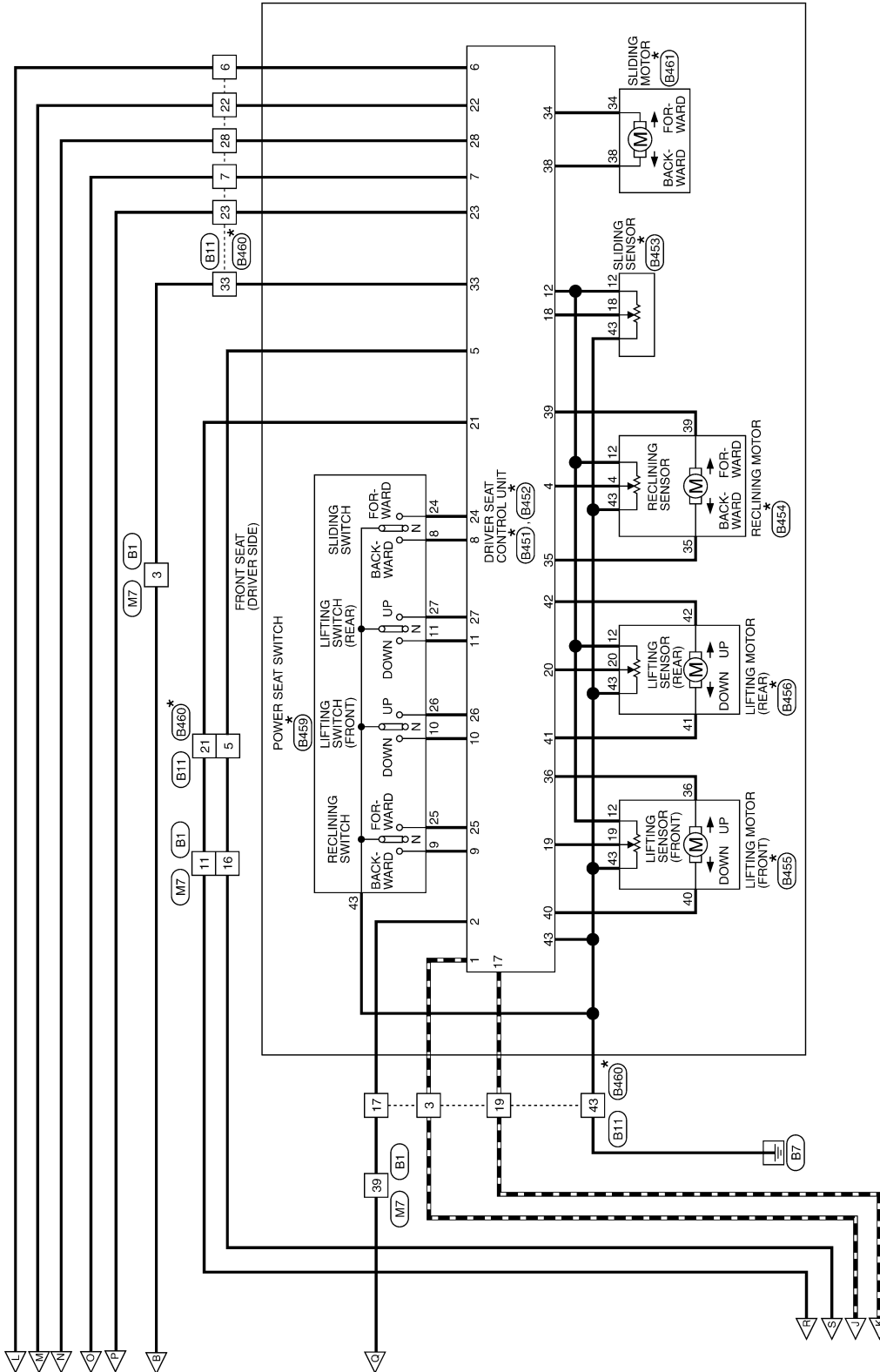


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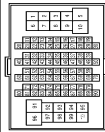
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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | |
|----------------|-----------------|
| Connector No. | B11 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 3 | R | |
| 4 | B | |
| 5 | G | |
| 6 | SB | |
| 7 | V | |
| 8 | L | |
| 11 | V | |
| 12 | SB | |
| 13 | LG | |
| 14 | GR | |
| 15 | LG | |
| 16 | R | |
| 17 | W | |
| 18 | SB | |
| 19 | SB | |
| 20 | SB | |
| 21 | SHIELD | |
| 22 | Y | |
| 24 | P | |
| 25 | G | |
| 26 | Y | |
| 27 | B | [With NAVI] |
| 27 | BR | [Without NAVI] |
| 28 | R | [With NAVI] |
| 28 | W | [Without NAVI] |
| 29 | L | [With NAVI] |
| 29 | L | [Without NAVI] |
| 29 | W | [With NAVI] |
| 30 | SHIELD | [With rear of seat motor] |
| 31 | SHIELD | [Without rear of seat motor] |
| 32 | P | [With NAVI] [Without Blind Spot Warning] |
| 32 | W | [Without NAVI] [Without Blind Spot Warning] |
| 32 | Y | [With NAVI] [Without Blind Spot Warning] |
| 33 | SB | |
| 34 | L | |
| 35 | P | |

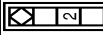
| | | |
|----|--------|--|
| 36 | L | |
| 37 | P | |
| 38 | P | |
| 39 | Y | |
| 40 | SB | |
| 44 | Y | |
| 45 | GR | |
| 46 | LG | |
| 47 | SB | |
| 48 | BG | |
| 49 | R | |
| 50 | L | |
| 60 | P | |
| 61 | L | |
| 62 | SHIELD | |
| 63 | R | |
| 64 | G | |
| 65 | SHIELD | |
| 66 | W | |
| 67 | V | |
| 68 | SB | |
| 69 | SHIELD | |
| 70 | W | |
| 73 | SB | |
| 74 | L | |
| 75 | W | |
| 76 | BR | |
| 77 | R | |
| 78 | P | |
| 79 | GR | |
| 83 | BG | |
| 85 | V | |
| 86 | LG | |
| 87 | Y | |
| 88 | R | |
| 89 | B | |
| 90 | BG | |
| 91 | G | |
| 92 | BR | |
| 93 | G | |
| 94 | SB | |
| 95 | G | |
| 96 | Y | |
| 98 | W | |
| 99 | GR | |

| | |
|----------------|--------------|
| Connector No. | B11 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS18FW-CS |



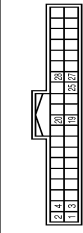
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | R | |
| 3 | R | |
| 5 | R | |
| 6 | SB | |
| 7 | P | |
| 17 | Y | |
| 19 | P | |
| 21 | V | |
| 22 | L | |
| 23 | BG | |
| 28 | R | |
| 33 | R | |
| 43 | B | |
| 60 | G | |
| 65 | GR | |
| 67 | Y | |

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



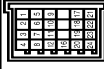
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | V | |

| | |
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| Connector No. | B32 |
| Connector Name | AROUND VIEW MONITOR CONTROL UNIT |
| Connector Type | TH40FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------------|
| 1 | B | GROUND |
| 2 | Y | BATTERY [Without Blind Spot Warning] |
| 2 | Y | BATTERY [With Blind Spot Warning] |
| 3 | P | IGNITION SIGNAL |
| 4 | GR | ACC |
| 19 | SB | AV COMM (H) |
| 20 | LG | AV COMM (L) |
| 25 | V | REVERSE SIGNAL |
| 27 | L | CAN-H |
| 28 | P | CAN-L [Without Blind Spot Warning] |
| 28 | Y | CAN-L [With Blind Spot Warning] |

| | |
|----------------|---------------------|
| Connector No. | B301 |
| Connector Name | JOINT CONNECTOR-B01 |
| Connector Type | NH24FF-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | P | |
| 3 | P | |
| 3 | P | |
| 3 | P | |
| 4 | LG | |
| 5 | L | |
| 6 | P | |
| 7 | SB | |
| 8 | LG | |

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | | | |
|----|----|---|---|
| 9 | L | - | - |
| 10 | P | - | - |
| 11 | SB | - | - |
| 12 | LG | - | - |
| 16 | SB | - | - |
| 17 | R | - | - |
| 18 | Y | - | - |
| 19 | B | - | - |
| 20 | SB | - | - |
| 21 | R | - | - |
| 22 | Y | - | - |
| 23 | B | - | - |
| 24 | SB | - | - |

| | |
|----------------|--------------------------|
| Connector No. | B451 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Type | TR43ZHW |



| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| 12 | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | - | CAN-H |
| 2 | - | LIART (TX, RX) |
| 3 | - | - |
| 4 | - | PULSE (RECLINER) |
| 5 | - | PULSE (TELESCOPIC) |
| 6 | - | ADDRESS 2 |
| 7 | - | IND 2 |
| 8 | - | SLIDE SW (BACKWARD) |
| 9 | - | RECLINER SW (BACKWARD) |
| 10 | - | FRONT LIFTER SW (DOWNWARD) |
| 11 | - | REAR LIFTER SW (DOWNWARD) |
| 12 | - | POWER SW (ENCODER) |
| 17 | - | CAN-L |
| 18 | - | PULSE (SLIDE) |
| 19 | - | PULSE (FRONT LIFTER) |
| 20 | - | PULSE (REAR LIFTER) |
| 21 | - | PULSE (TILT) |
| 22 | - | ADDRESS 1 |
| 23 | - | IND 1 |
| 24 | - | SLIDE SW (FORWARD) |
| 25 | - | RECLINER SW (FORWARD) |

| | | |
|----|---|--------------------------|
| 26 | - | FRONT LIFTER SW (UPWARD) |
| 27 | - | REAR LIFTER SW (UPWARD) |
| 28 | - | SET SW |

| | |
|----------------|--------------------------|
| Connector No. | B452 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Type | NS12FHW |



| | | | |
|----|----|----|----|
| 36 | 35 | 34 | 33 |
| 43 | 42 | 41 | 40 |
| 39 | 38 | 37 | 36 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------|
| 33 | - | BAT (PTC) |
| 34 | - | SLIDE MOTOR (BACKWARD) |
| 35 | - | RECLINER MOTOR (FORWARD) |
| 36 | - | FRONT LIFTER MOTOR (DOWNWARD) |
| 38 | - | SLIDE MOTOR (FORWARD) |
| 39 | - | RECLINER MOTOR (BACKWARD) |
| 40 | - | FRONT LIFTER MOTOR (UPWARD) |
| 42 | - | REAR LIFTER MOTOR (UPWARD) |
| 43 | - | REAR LIFTER MOTOR (DOWNWARD) |
| 43 | - | GND |

| | |
|----------------|----------------|
| Connector No. | B453 |
| Connector Name | SLIDING SENSOR |
| Connector Type | 60998 0241 |



| | | |
|----|----|----|
| 18 | 43 | 12 |
|----|----|----|

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | O | - |
| 18 | R | - |
| 43 | GR | - |

| | |
|----------------|-----------------|
| Connector No. | B454 |
| Connector Name | RECLINING MOTOR |
| Connector Type | NS09FW-CS |



| | | |
|----|----|----|
| 39 | 38 | 35 |
| 12 | 43 | 4 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | W/G | - |
| 12 | O | - |
| 35 | P | - |
| 39 | G/Y | - |
| 43 | GR | - |

| | |
|----------------|-----------------------|
| Connector No. | B455 |
| Connector Name | LIFTING MOTOR (FRONT) |
| Connector Type | NS09FW-CS |



| | |
|----|----|
| 36 | 40 |
| 12 | 43 |
| 19 | 38 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | O | - |
| 19 | Y/B | - |
| 38 | L/R | - |
| 40 | G/W | - |
| 43 | GR | - |

| | |
|----------------|----------------------|
| Connector No. | B456 |
| Connector Name | LIFTING MOTOR (REAR) |
| Connector Type | NS09FER-CS |



| | |
|----|----|
| 42 | 41 |
| 12 | 43 |
| 20 | 39 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | O | - |
| 20 | P/B | - |
| 41 | R/B | - |
| 42 | L/Y | - |
| 43 | GR | - |

| | |
|----------------|-------------------|
| Connector No. | B459 |
| Connector Name | POWER SEAT SWITCH |
| Connector Type | NS10FY-CS |



| | | |
|----|----|----|
| 43 | 11 | 27 |
| 9 | 25 | 8 |
| 24 | 10 | 26 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | BR | - |
| 9 | SB | - |
| 10 | LG/R | - |
| 11 | G/B | - |
| 14 | Y | - |
| 23 | R/G | - |
| 26 | W/B | - |
| 27 | P/L | - |
| 43 | B/W | - |

DRIVER SEAT CONTROL UNIT

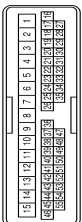
< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | |
|----------------|--------------|
| Connector No. | B466 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16AW-CS |



| | |
|----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH4GFW-CS15 |



| | | |
|--------------|---------------|--------------------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | R | - |
| 2 | P | - |
| 3 | O | - |
| 4 | BR | - |
| 5 | L | - |
| 6 | GR | - |
| 7 | BR | (With automatic drive positioner) |
| 8 | O | (Without automatic drive positioner) |
| 9 | W | (With automatic drive positioner) |
| 10 | G | (Without automatic drive positioner) |
| 11 | Y | (With automatic drive positioner) |
| 12 | O | (Without automatic drive positioner) |
| 13 | V | (With automatic drive positioner) |
| 14 | G | (Without automatic drive positioner) |
| 15 | Y | - |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 18 | LG | GROUND |
| 19 | B | - |
| 21 | GR | - |
| 22 | BR | - |
| 23 | Y | - |
| 24 | V | - |

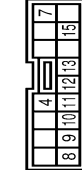
| | |
|----------------|--------------------|
| Connector No. | D5 |
| Connector Name | SEAT MEMORY SWITCH |
| Connector Type | ASBW |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | L | - |
| 2 | BR | - |
| 3 | GR | - |
| 4 | B | - |
| 5 | R | - |
| 6 | O | - |
| 7 | P | - |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | L | - |
| 2 | BR | - |
| 3 | GR | - |
| 4 | B | - |
| 5 | R | - |
| 6 | O | - |
| 7 | P | - |

| | |
|----------------|-----------------------------------|
| Connector No. | B17 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Type | TK18FER |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 4 | BR | - |
| 7 | B | - |
| 8 | B | - |
| 9 | R | - |
| 10 | GR | - |

| | | |
|--------------|---------------|--------------------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 37 | R | - |
| 38 | P | - |
| 39 | O | - |
| 40 | BR | - |
| 41 | L | - |
| 42 | GR | - |
| 43 | BR | (With automatic drive positioner) |
| 44 | O | (Without automatic drive positioner) |
| 45 | W | (With automatic drive positioner) |
| 46 | G | (Without automatic drive positioner) |
| 47 | Y | (With automatic drive positioner) |
| 48 | O | (Without automatic drive positioner) |
| 49 | V | (With automatic drive positioner) |
| 50 | G | (Without automatic drive positioner) |
| 51 | B | - |
| 52 | R | - |
| 53 | SB | - |
| 54 | O | - |
| 55 | Y | - |

| | |
|----------------|---------------------------|
| Connector No. | B3 |
| Connector Name | DOOR MIRROR (DRIVER SIDE) |
| Connector Type | TH2AMP-NH |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | V | - |
| 2 | O | - |
| 3 | BR | CONT |
| 5 | SB | COMP+ |
| 6 | SB | COMP- |
| 7 | W | - |
| 10 | G | - |
| 11 | P | - |
| 12 | O | - |
| 14 | R | - |
| 17 | SHIELD | - |

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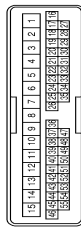
DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | | | |
|----|----|--------|---|
| 11 | LG | SHIELD | - |
| 12 | G | GR | - |
| 13 | W | GR | - |
| 15 | Y | O | - |

| | |
|----------------|--------------|
| Connector No. | D31 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-C315 |

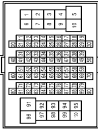


| | | |
|----|--------|---|
| 47 | SHIELD | - |
| 52 | G | - |
| 53 | GR | - |
| 54 | O | - |
| 55 | L | - |

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



| | |
|----------------|-----------------|
| Connector No. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH89FW-C316-TM4 |



| | | |
|----|--------|-----------------|
| 41 | W | - |
| 42 | G | - |
| 43 | BR | - |
| 45 | W | - |
| 49 | L | - |
| 50 | P | - |
| 51 | L | - |
| 54 | BG | - |
| 57 | BR | - |
| 59 | W | - |
| 60 | LG | - |
| 61 | G | - |
| 62 | SB | - |
| 64 | B | - |
| 65 | G | - |
| 66 | R | - |
| 67 | SHIELD | - |
| 68 | Y | - |
| 69 | LG | - |
| 70 | W | - |
| 71 | R | - |
| 72 | Y | - |
| 73 | B | - |
| 74 | BR | - [With ICC] |
| 74 | L | - [Without ICC] |
| 75 | G | - [With ICC] |
| 75 | W | - [Without ICC] |
| 76 | W | - [With ICC] |
| 76 | Y | - [Without ICC] |
| 77 | P | - [With ICC] |
| 77 | R | - [Without ICC] |
| 78 | BR | - [With ICC] |
| 78 | L | - [Without ICC] |
| 79 | L | - [With ICC] |
| 79 | Y | - [Without ICC] |
| 80 | SB | - [With ICC] |
| 81 | R | - |
| 82 | SB | - |
| 83 | BG | - |
| 85 | G | - |
| 85 | L | - |
| 86 | P | - |
| 87 | V | - |
| 89 | GR | - |
| 90 | SHIELD | - |
| 91 | W | - |
| 92 | Y | - |
| 93 | V | - |
| 94 | LG | - |

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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 3 | W | - |
| 5 | G | SIDE CAMERA RH COMM COMP+ |
| 6 | R | - |
| 7 | G | - |
| 11 | GR | - |
| 12 | O | - |
| 17 | SHIELD | COMP- |
| 18 | B | GROUND |
| 19 | B | - |
| 21 | P | - |
| 22 | Y | - |
| 23 | W | - |
| 24 | V | - |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 7 | R | - |
| 8 | BR | - |
| 9 | V | - |
| 12 | P | - |
| 13 | LG | - |
| 14 | B | - |
| 15 | BR | - |
| 16 | BR | - |
| 17 | B | - |
| 18 | R | - |
| 19 | B | - |
| 20 | G | - [With around view monitor] |
| 20 | R | - [Without around view monitor] |
| 21 | BR | - [With around view monitor] |
| 21 | SHIELD | - [Without around view monitor] |
| 22 | V | - |
| 23 | P | - |
| 24 | W | - |
| 25 | SB | - |
| 26 | R | - |
| 27 | G | - |
| 31 | O | - |
| 34 | GR | - |
| 35 | G | - |
| 36 | R | - |
| 37 | G | - |
| 43 | Y | - |
| 44 | V | - |
| 45 | P | - |
| 46 | W | - |

JRJWD2759GB

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

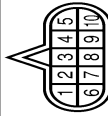
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 85 | BG | IGNITION POWER SUPPLY |
| 86 | P | BATTERY POWER SUPPLY |
| 87 | R | CAN-H |
| 88 | SHIELD | K-LINE |
| 89 | L | IGNITION POWER SUPPLY |
| 100 | P | BACK-UP LAMP RELAY |

| | |
|----------------|--------------|
| Connector No. | FS1 |
| Connector Name | A/T ASSEMBLY |
| Connector Type | HR10FG-0G3 |



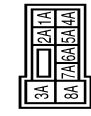
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | IGNITION POWER SUPPLY |
| 2 | BR | BATTERY POWER SUPPLY |
| 3 | O | CAN-H |
| 4 | V | K-LINE |
| 5 | R | IGNITION POWER SUPPLY |
| 7 | R | BACK-UP LAMP RELAY |
| 8 | LG | CAN-L |
| 9 | GR | STARTER RELAY |
| 10 | B | GROUND |

| | |
|----------------|--------|
| Connector No. | F301 |
| Connector Name | TCM |
| Connector Type | SP10FG |



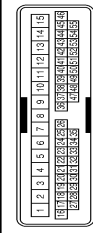
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | - | IGNITION POWER SUPPLY |
| 2 | - | BATTERY POWER SUPPLY |
| 3 | - | CAN-H |
| 4 | - | K-LINE |
| 5 | - | IGNITION POWER SUPPLY |
| 6 | - | BACK-UP LAMP RELAY |
| 7 | - | CAN-L |
| 8 | - | STARTER RELAY |
| 9 | - | GROUND |
| 10 | - | GROUND |

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



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

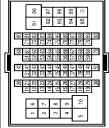
| | |
|----------------|--------------|
| Connector No. | M5 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |



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

| | | |
|----|--------|--|
| 37 | BR | - |
| 38 | P | - |
| 39 | BG | - |
| 40 | SB | - |
| 41 | L | - |
| 42 | R | - |
| 43 | BR | - |
| 44 | V | - |
| 45 | G | - |
| 46 | SB | - [With automatic drive positioner] |
| 47 | R | - [Without automatic drive positioner] |
| 48 | G | - |
| 49 | O | - |
| 50 | SHIELD | - |
| 51 | B | - |
| 52 | R | - |
| 53 | V | - |
| 54 | LG | - |
| 55 | SB | - |

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - [With NAVI] |
| 2 | Y | - [Without NAVI] |
| 3 | B | - [Without NAVI] |
| 4 | R | - [With NAVI] |
| 5 | B | - [With NAVI] |
| 6 | G | - [Without NAVI] |
| 7 | SHIELD | - |
| 8 | CS | - |
| 9 | W | - |
| 10 | Y | - |
| 11 | R | - |
| 12 | BR | - |

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ADP

DRIVER SEAT CONTROL UNIT

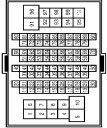
< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | | | | | |
|----|--------|----|----|----|---------------|
| 12 | BC | -- | -- | -- | -- |
| 13 | BR | -- | -- | -- | -- |
| 14 | R | -- | -- | -- | -- |
| 15 | P | -- | -- | -- | -- |
| 16 | V | -- | -- | -- | -- |
| 17 | SB | -- | -- | -- | -- |
| 18 | V | -- | -- | -- | -- |
| 20 | BG | -- | -- | -- | -- |
| 21 | L | -- | -- | -- | -- |
| 22 | W | -- | -- | -- | -- |
| 23 | P | -- | -- | -- | -- |
| 24 | BR | -- | -- | -- | -- |
| 25 | V | -- | -- | -- | -- |
| 26 | V | -- | -- | -- | -- |
| 27 | G | -- | -- | -- | -- |
| 28 | G | -- | -- | -- | -- |
| 31 | L | -- | -- | -- | -- |
| 32 | G | -- | -- | -- | -- |
| 33 | B | -- | -- | -- | -- |
| 34 | W | -- | -- | -- | -- |
| 35 | R | -- | -- | -- | -- |
| 36 | SHIELD | -- | -- | -- | -- |
| 37 | V | -- | -- | -- | -- |
| 38 | BG | -- | -- | -- | -- |
| 39 | BR | -- | -- | -- | -- |
| 41 | W | -- | -- | -- | -- |
| 42 | BG | -- | -- | -- | -- |
| 43 | BG | -- | -- | -- | -- |
| 44 | W | -- | -- | -- | -- |
| 45 | W | -- | -- | -- | -- |
| 49 | L | -- | -- | -- | -- |
| 50 | P | -- | -- | -- | -- |
| 51 | BR | -- | -- | -- | -- |
| 54 | Y | -- | -- | -- | -- |
| 57 | G | -- | -- | -- | -- |
| 59 | W | -- | -- | -- | -- |
| 60 | L | -- | -- | -- | -- |
| 61 | G | -- | -- | -- | -- |
| 62 | SB | -- | -- | -- | -- |
| 63 | G | -- | -- | -- | -- |
| 64 | R | -- | -- | -- | -- |
| 65 | R | -- | -- | -- | -- |
| 66 | R | -- | -- | -- | -- |
| 67 | SHIELD | -- | -- | -- | -- |
| 68 | Y | -- | -- | -- | -- |
| 69 | GR | -- | -- | -- | -- |
| 70 | LG | -- | -- | -- | -- |
| 71 | LG | -- | -- | -- | -- |
| 72 | Y | -- | -- | -- | -- |
| 73 | SB | -- | -- | -- | -- |
| 74 | BR | -- | -- | -- | -- [With LCC] |

| | | | | | |
|-----|--------|----|----|----|------------------|
| 74 | L | -- | -- | -- | -- [Without LCC] |
| 75 | G | -- | -- | -- | -- [Without LCC] |
| 76 | GR | -- | -- | -- | -- [With LCC] |
| 77 | W | -- | -- | -- | -- [Without LCC] |
| 77 | P | -- | -- | -- | -- [With LCC] |
| 77 | R | -- | -- | -- | -- [With LCC] |
| 78 | L | -- | -- | -- | -- [With LCC] |
| 78 | R | -- | -- | -- | -- [Without LCC] |
| 79 | W | -- | -- | -- | -- [Without LCC] |
| 79 | Y | -- | -- | -- | -- [With LCC] |
| 80 | SB | -- | -- | -- | -- |
| 81 | SB | -- | -- | -- | -- |
| 82 | SB | -- | -- | -- | -- |
| 83 | Y | -- | -- | -- | -- |
| 84 | V | -- | -- | -- | -- |
| 85 | G | -- | -- | -- | -- |
| 86 | P | -- | -- | -- | -- |
| 87 | W | -- | -- | -- | -- |
| 89 | GR | -- | -- | -- | -- |
| 90 | SHIELD | -- | -- | -- | -- |
| 91 | W | -- | -- | -- | -- |
| 92 | Y | -- | -- | -- | -- |
| 93 | BR | -- | -- | -- | -- |
| 94 | P | -- | -- | -- | -- |
| 95 | GR | -- | -- | -- | -- |
| 96 | W | -- | -- | -- | -- |
| 97 | SHIELD | -- | -- | -- | -- |
| 98 | Y | -- | -- | -- | -- |
| 100 | SB | -- | -- | -- | -- |

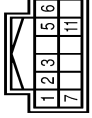
Connector No. M7
 Connector Name WIRE TO WIRE
 Connector Type TR80MM-CSI16-TM4



Terminal Color Of Wire No. Signal Name [Specification]
 3 SB -- [With automatic drive positioner]
 5 G -- [Without automatic drive positioner]
 6 BG --

| | | | | | |
|----|--------|----|----|----|---------------------------------|
| 7 | W | -- | -- | -- | -- |
| 8 | B | -- | -- | -- | -- |
| 11 | V | -- | -- | -- | -- |
| 12 | SB | -- | -- | -- | -- |
| 13 | LG | -- | -- | -- | -- |
| 14 | Y | -- | -- | -- | -- |
| 15 | G | -- | -- | -- | -- |
| 16 | R | -- | -- | -- | -- |
| 17 | W | -- | -- | -- | -- |
| 18 | SB | -- | -- | -- | -- |
| 19 | LG | -- | -- | -- | -- |
| 20 | BR | -- | -- | -- | -- |
| 21 | SHIELD | -- | -- | -- | -- |
| 22 | V | -- | -- | -- | -- |
| 24 | V | -- | -- | -- | -- |
| 25 | G | -- | -- | -- | -- |
| 26 | Y | -- | -- | -- | -- |
| 27 | B | -- | -- | -- | -- [With NAVI] |
| 27 | R | -- | -- | -- | -- [Without NAVI] |
| 28 | W | -- | -- | -- | -- |
| 29 | B | -- | -- | -- | -- |
| 29 | R | -- | -- | -- | -- [Without NAVI] |
| 30 | SHIELD | -- | -- | -- | -- |
| 31 | L | -- | -- | -- | -- |
| 32 | P | -- | -- | -- | -- [Without Blind Spot Warning] |
| 32 | Y | -- | -- | -- | -- [With Blind Spot Warning] |
| 33 | SB | -- | -- | -- | -- |
| 34 | SB | -- | -- | -- | -- |
| 35 | P | -- | -- | -- | -- |
| 36 | L | -- | -- | -- | -- |
| 37 | P | -- | -- | -- | -- |
| 38 | P | -- | -- | -- | -- |
| 39 | Y | -- | -- | -- | -- |
| 40 | SB | -- | -- | -- | -- |
| 44 | L | -- | -- | -- | -- |
| 45 | GR | -- | -- | -- | -- |
| 46 | LG | -- | -- | -- | -- |
| 47 | SB | -- | -- | -- | -- |
| 48 | BG | -- | -- | -- | -- |
| 49 | R | -- | -- | -- | -- |
| 50 | L | -- | -- | -- | -- |
| 60 | P | -- | -- | -- | -- |
| 61 | L | -- | -- | -- | -- |
| 62 | SHIELD | -- | -- | -- | -- |
| 63 | R | -- | -- | -- | -- |
| 64 | G | -- | -- | -- | -- |
| 65 | SHIELD | -- | -- | -- | -- |
| 66 | SB | -- | -- | -- | -- |
| 67 | V | -- | -- | -- | -- |
| 68 | LG | -- | -- | -- | -- |

Connector No. M22
 Connector Name KEY SLOT
 Connector Type TH12FM-NH



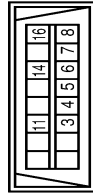
Terminal Color Of Wire No. Signal Name [Specification]
 1 W BATT
 2 GR CLOCK
 3 W DATA
 5 Y ILL BATT
 6 LG ILL
 7 B GROUND
 11 BR KEY SWITCH SIGNAL

DRIVER SEAT CONTROL UNIT

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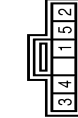
AUTOMATIC DRIVE POSITIONER

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | LG | - |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | V | - |
| 8 | G | - |
| 11 | SB | - |
| 14 | P | - |
| 16 | Y | - |

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|----------------|--------------------------|
| Connector No. | M31 |
| Connector Name | TILT & TELESCOPIC SWITCH |
| Connector Type | T08BFGY |



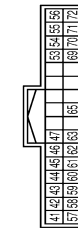
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | GR | - |
| 3 | G | - |
| 4 | Y | - |
| 5 | W | - |

| | |
|----------------|-----------------|
| Connector No. | M62 |
| Connector Name | CIRCUIT BREAKER |
| Connector Type | M02FW-P-LC |



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

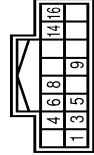
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| Connector No. | M67 |
| Connector Name | UNITED METER AND A/C AMP. |
| Connector Type | TH32FW-NH |



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

| | | |
|----|----|------------------------------|
| 65 | BG | ECV SIGNAL |
| 66 | L | A/C LAN SIGNAL |
| 70 | R | EACH DOOR MOTOR POWER SUPPLY |
| 71 | B | GROUND |
| 72 | P | CAN-L |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | GROUND |
| 3 | V | ACC |
| 4 | R | ILL |
| 5 | Y | ILL CONT. |
| 6 | SB | AV COMM (H) |
| 8 | G | AV COMM (L) |
| 14 | B | DISK E-LOCK SIGNAL |
| 16 | G | HAZARD ON |

| | |
|----------------|---|
| Connector No. | M78 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Type | TH32FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | UPWARD |
| 2 | LG | SELECT RH |
| 3 | G | UPWARD |
| 4 | V | LEFTWARD |

| | | |
|----|----|-----------------------------|
| 5 | R | MIR. SENS. UP. DOWN(RH) |
| 6 | GR | MIR. SENS. UP. DOWN(LH) |
| 7 | GR | FORWARD |
| 8 | Y | FX. TX |
| 10 | W | MIR. MTR. UP(RH) |
| 11 | G | MIR. MTR. LEFT(RH) |
| 12 | Y | MIR. MTR. DOWN. RIGHT(LH) |
| 13 | P | DOWNWARD |
| 14 | P | SELECT LH |
| 15 | SB | DOWNWARD |
| 16 | BR | RIGHTWARD |
| 17 | L | MIR. SENS. LEFT. RIGHT(LHH) |
| 18 | G | MIR. SENS. LEFT. RIGHT(LHL) |
| 19 | Q | SEAS. GND |
| 20 | Q | SEAS. GND |
| 21 | R | POWER SUPPLY (SENSOR) |
| 22 | R | MIR. MTR. DOWN. RIGHT(RH) |
| 23 | LG | MIR. MTR. UP(LH) |
| 24 | L | MIR. MTR. LEFT(LH) |

| | |
|----------------|---|
| Connector No. | M79 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Type | NS06FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 25 | SB | BAT |
| 26 | L | BACKWARD |
| 27 | P | STRG. SENS. VCC |
| 28 | G | DOWNWARD |
| 29 | LG | UPWARD. FRONTWARD |
| 30 | B | GND |

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | |
|----------------|-------------------------|
| Connector No. | M180 |
| Connector Name | TILT & TELESCOPIC MOTOR |
| Connector Type | NS10FW-CS |



| | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|---|---|---|---|---|---|---|---|---|

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

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



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

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

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS18FW-CS |



| | | | | | | |
|----|----|----|----|----|----|----|
| 11 | 13 | 14 | 15 | 17 | 18 | 19 |
| 4 | 5 | 7 | 8 | 9 | 10 | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 4 | LG | INTERIOR ROOM LAMP POWER SUPPLY |
| 5 | LG | PASSENGER DOOR UNLOCK OUTPUT |
| 7 | Y | STEP LAMP CONT |
| 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 |
| 14 | W | PUSH-BUTTON IGNITION SW ILL GND |
| 15 | Y | ACC IND |
| 17 | W | TURN SIGNAL RH (FRONT) |
| 18 | BG | TURN SIGNAL LH (FRONT) |
| 19 | V | INT ROOM LAMP CONT |

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



| | | | | | | |
|----|----|----|----|----|----|----|
| 11 | 13 | 14 | 15 | 17 | 18 | 19 |
| 4 | 5 | 7 | 8 | 9 | 10 | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 72 | R | ROOM ANT+ - |
| 73 | G | ROOM ANT+ - |
| 74 | SB | PASSENGER DOOR ANT- |
| 75 | GR | PASSENGER DOOR ANT+ |
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |
| 78 | Y | ROOM ANT- |

| | | |
|-----|----|-------------------------------------|
| 78 | BR | ROOM ANT+ - |
| 80 | GR | MATS ANT AMP |
| 81 | W | MATS ANT AMP |
| 82 | R | IGN RELAY (F/B) CONT |
| 83 | Y | KEYLESS ENTRY RECEIVER COMAM |
| 87 | BR | COMBI SW INPUT 3 |
| 88 | V | COMBI SW INPUT 5 |
| 90 | P | CAN-H |
| 91 | L | CAN-L |
| 92 | LG | KEY SLOT ILL CONT |
| 93 | V | ON IND |
| 94 | V | PUDDLE LAMP CONT |
| 95 | GR | REAR WINDOW DEFROGGER RELAY CONT |
| 96 | GR | A/T SHIFT SELECTOR POWER SUPPLY |
| 98 | R | SHIF I/P |
| 99 | G | PASSENGER DOOR REQUEST SW |
| 100 | G | DRIVER DOOR REQUEST SW |
| 101 | SB | BLOWER FAN MOTOR RELAY CONT |
| 102 | BG | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 2 |
| 109 | Y | COMBI SW INPUT 4 |
| 110 | G | HAZARD SW |

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



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

| | |
|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| | | | | | | |
|----|----|----|----|----|----|----|
| 11 | 13 | 14 | 15 | 17 | 18 | 19 |
| 4 | 5 | 7 | 8 | 9 | 10 | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 113 | P | OPTICAL SENSOR |
| 118 | B | 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 | BR | POWER WINDOW SW COMAM |
| 133 | W | PUSH-BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | BG | RECEIVER/SENSOR GND |

| | | |
|-----|----|----------------------------------|
| 138 | Y | RECEIVER/SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESSURE RECEIVER COMAM |
| 140 | GR | SHIF I/P |
| 141 | G | SECURITY IND LAMP CONT |
| 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 | LG | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFROGGER RELAY CONT |

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



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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 6 | LG | - |
| 8 | Y | - |
| 9 | Y | - |
| 12 | L | - |
| 13 | V | - |
| 14 | B | - |
| 15 | W | - |
| 16 | BR | - |
| 17 | B | - |
| 18 | R | - |
| 19 | B | - |
| 20 | G | - [With around view monitor] |
| 21 | W | - [Without around view monitor] |
| 22 | SHIELD | - [Without around view monitor] |
| 23 | SB | - [With around view monitor] |
| 24 | GR | - |
| 25 | G | - |
| 26 | R | - |
| 27 | W | - |
| 30 | W | - |
| 33 | BR | - |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 34 | V | - |
| 35 | G | - |
| 36 | Y | - |
| 37 | BR | - |
| 43 | L | - |
| 44 | Y | - |
| 45 | R | - |
| 46 | W | - |
| 47 | SHIELD | - |
| 52 | R | - |
| 53 | G | - |
| 54 | W | - |
| 55 | BG | - |

| | |
|----------------|--------------|
| Connector No. | M125 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M03FW-LC |



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

| | |
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| Connector No. | M126 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M03MW-LC |



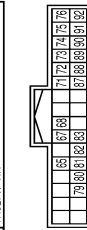
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | Y | - |
| 3 | R | - |

| | |
|----------------|--------------------|
| Connector No. | M137 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Type | TH13FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | V | - |
| 3 | L | - |
| 4 | B | - |
| 5 | G | - |
| 6 | R | - |
| 8 | SB | - |
| 8 | EB | - |
| 10 | GR | - |
| 11 | R | - |

| | |
|----------------|-----------------|
| Connector No. | M151 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH132FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 65 | V | PARKING BRAKE SIGNAL |
| 67 | G | COMPOSITE IMAGE SIGNAL GND |
| 68 | R | COMPOSITE IMAGE SIGNAL |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 71 | SHIELD | SHIELD |
| 72 | R | MICROPHONE VCC |
| 73 | R | CAMERA POWER SUPPLY |
| 74 | P | CAN-L |
| 75 | LG | AV COMM (L) |
| 76 | LG | AV COMM (L) |
| 78 | R | ILLUMINATION |
| 80 | G | IGNITION SIGNAL |
| 81 | BG | REVERSE SIGNAL |
| 82 | R | VEHICLE SPEED SIGNAL (8-PULSE) |
| 83 | SHIELD | SHIELD |
| 87 | G | MICROPHONE SIGNAL |
| 88 | SHIELD | SHIELD |
| 89 | G | COMM (CAN-H) |
| 91 | SB | AV COMM (H) |
| 92 | SB | AV COMM (H) |

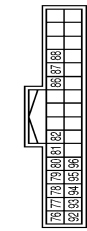
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| Connector No. | M215 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH124FW-NH |



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

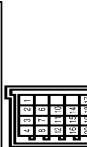
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 57 | SHIELD | SHIELD |
| 58 | SHIELD | SHIELD |

| | |
|----------------|-----------------|
| Connector No. | M217 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH132FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 76 | LG | AV COMM (L) |
| 77 | SB | AV COMM (H) |
| 78 | LG | AV COMM (L) |
| 79 | SB | AV COMM (H) |
| 80 | P | CAN-L |
| 81 | L | CAN-H |
| 82 | B | SW GND |
| 85 | SHIELD | SHIELD |
| 87 | L | TEL VOICE SIGNAL (-) |
| 87 | R | TEL VOICE SIGNAL (+) |
| 82 | R | VEHICLE SPEED SIGNAL (8-PULSE) |
| 83 | V | PARKING BRAKE SIGNAL |
| 84 | BG | REVERSE SIGNAL |
| 95 | G | IGNITION SIGNAL |
| 96 | Y | DISK EJECT SIGNAL |

| | |
|----------------|---------------------|
| Connector No. | M351 |
| Connector Name | JOINT CONNECTOR-M04 |
| Connector Type | MH24FW-J |



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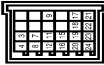
DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BG | - |
| 2 | B | - |
| 3 | P | - |
| 4 | L | - |
| 6 | B | - |
| 7 | P | - |
| 8 | L | - |
| 10 | W | - |
| 11 | P | - |
| 12 | L | - |
| 13 | B | - |
| 15 | P | - |
| 16 | L | - |
| 17 | V | - |
| 18 | B | - |
| 19 | P | - |
| 20 | L | - |
| 21 | V | - |
| 22 | B | - |
| 23 | P | - |
| 24 | L | - |

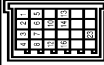
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| Connector No. | M355 |
| Connector Name | JOINT CONNECTOR-M06 |
| Connector Type | NH24FW-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | P | - |
| 7 | P | - |
| 8 | L | - |
| 9 | P | - |
| 11 | P | - |
| 12 | L | - |
| 15 | P | - |
| 16 | L | - |
| 17 | P | - |
| 18 | V | - |

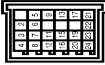
| | | |
|----|---|---|
| 19 | P | - |
| 20 | L | - |
| 21 | P | - |
| 22 | V | - |
| 23 | P | - |
| 24 | L | - |

| | |
|----------------|---------------------|
| Connector No. | M357 |
| Connector Name | JOINT CONNECTOR-M09 |
| Connector Type | NH24FG-J |



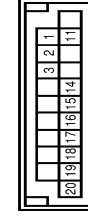
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | BG | - |
| 3 | B | - |
| 4 | L | - |
| 6 | BG | - |
| 7 | B | - |
| 8 | L | - |
| 10 | B | - |
| 12 | L | - |
| 13 | BR | - |
| 14 | BG | - |
| 16 | G | - |
| 23 | B | - |

| | |
|----------------|---------------------|
| Connector No. | M360 |
| Connector Name | JOINT CONNECTOR-M05 |
| Connector Type | NH24FW-J |



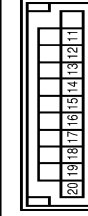
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |
| 3 | P | - |
| 4 | L | - |
| 5 | R | - |
| 6 | GR | - |
| 7 | P | - |
| 8 | L | - |
| 9 | BR | - |
| 11 | P | - |
| 12 | L | - |
| 13 | BR | - |
| 15 | P | - |
| 16 | L | - |
| 17 | V | - |
| 19 | P | - |
| 20 | L | - |
| 21 | V | - |
| 22 | G | - |
| 23 | P | - |
| 24 | L | - |

| | |
|----------------|---------------------|
| Connector No. | M362 |
| Connector Name | JOINT CONNECTOR-M13 |
| Connector Type | NH20FW-DC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | Y | - |
| 3 | Y | - |
| 11 | B | - |
| 14 | B | - |
| 15 | B | - |
| 16 | SHIELD | - |
| 17 | SHIELD | - |
| 18 | SHIELD | - |
| 19 | B | - |
| 20 | SHIELD | - |

| | |
|----------------|---------------------|
| Connector No. | M364 |
| Connector Name | JOINT CONNECTOR-M08 |
| Connector Type | NH20FW-DC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11 | LG | - |
| 12 | LG | - |
| 13 | LG | - |
| 14 | LG | - |
| 15 | LG | - |
| 16 | G | - |
| 17 | SB | - |
| 18 | SB | - |
| 19 | SB | - |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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AUTOMATIC DRIVE POSITIONER
20 32

JRJD2766GB

INFOID:000000012170621

Fail Safe

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

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| Operating in fail-safe mode | Malfunction Item | Related DTC | Diagnosis |
|---|-----------------------------|-------------|------------------------|
| Only manual functions operate normally. | CAN communication | U1000 | ADP-46 |
| | CONTROL UNIT (CAN) | U1010 | ADP-47 |
| | EEPROM | B2130 | ADP-55 |
| Only manual functions, except door mirror, operate normally. | UART communication | B2128 | ADP-54 |
| Only manual functions, except seat sliding, operate normally. | Seat sliding output | B2112 | ADP-48 |
| Only manual functions, except seat reclining, operate normally. | Seat reclining output | B2113 | ADP-50 |
| Only manual functions, except steering tilt, operate normally. | Steering column tilt output | B2116 | ADP-55 |

DTC Index

INFOID:000000012170622

| CONSULT display | Timing*1 | | Item | Reference page |
|----------------------------|---------------------|----------------------|-----------------------------|------------------------|
| | Current malfunction | Previous malfunction | | |
| CAN COMM CIRCUIT [U1000] | 0 | 1-39 | CAN communication | ADP-46 |
| CONTROL UNIT (CAN) [U1010] | 0 | 1-39 | Control unit | ADP-47 |
| SEAT SLIDE [B2112] | 0 | 1-39 | Seat slide motor output | ADP-48 |
| SEAT RECLINING [B2113] | 0 | 1-39 | Seat reclining motor output | ADP-50 |
| STEERING TILT [B2116] | 0 | 1-39 | Tilt motor output | ADP-52 |
| UART COMM [B2128] | 0 | 1-39 | UART communication | ADP-54 |
| EEPROM [B2130] | 0 | 1-39 | EEPROM | ADP-55 |

*1:

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

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

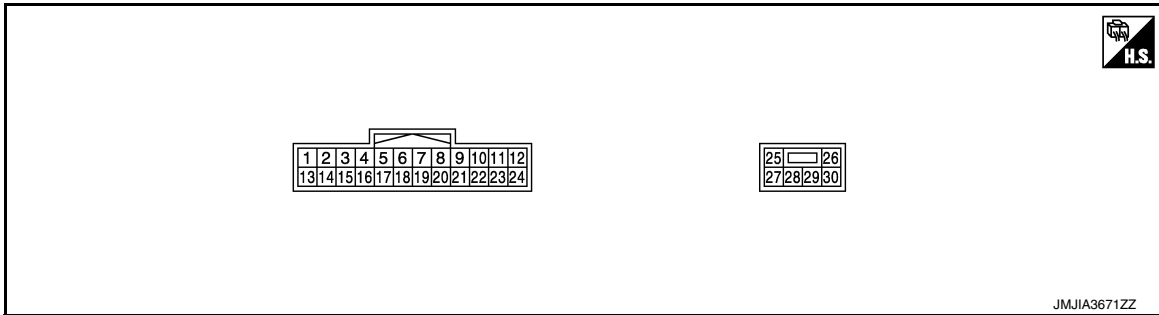
< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000012170623

TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal No. (wire color) | | Description | | Condition | | Voltage |
|------------------------------|--------|--|------------------|----------------------------|----------------------|--|
| + | - | Signal name | Input/ Output | | | |
| 1 (Y) | Ground | Tilt switch up signal | Input | Tilt switch | Operate (up) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 2 (LG) | Ground | Changeover switch RH signal | Input | Changeover switch position | RH | 0 - 1 V |
| | | | | | Neutral or LH | 4 - 6 V |
| 3 (G) | Ground | Mirror switch up signal | Input | Mirror switch | Operate (up) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 4 (V) | Ground | Mirror switch left signal | Input | Mirror switch | Operate (left) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 5 (R) | Ground | Door mirror sensor (passenger side) 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 (driver side) up/down signal | Input | Door mirror LH position | | Change between 3.4 (close to peak) 0.6 (close to valley) |
| 7 (GR) | Ground | Telescopic switch forward signal | Input | Telescopic switch | Operate (forward) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 8 (Y) | Ground | UART communication (TX/RX) | Input/ Output | Ignition switch ON | | <p style="text-align: right;">JMJA1391ZZ</p> |

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (wire color) | | Description | | Condition | | Voltage |
|------------------------------|--------|---|------------------|----------------------------|----------------------|---|
| + | - | Signal name | Input/ Output | | | |
| 10 (W) | Ground | Door mirror motor (passenger side) up/right output signal | Output | Door mirror RH | Operate (up/right) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 11 (G) | Ground | Door mirror motor (passenger side) down/left output signal | Output | Door mirror RH | Operate (down/left) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 12 (Y) | Ground | Door mirror motor (driver side) down/right output signal | Output | Door mirror (LH) | Operate (down/right) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 13 (W) | Ground | Tilt switch down signal | Input | Tilt switch | Operate (down) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 14 (P) | Ground | Changeover switch LH signal | Input | Changeover switch position | LH | 0 - 1 V |
| | | | | | Neutral or RH | 4 - 6 V |
| 15 (SB) | Ground | Mirror switch down signal | Input | Mirror switch | Operate (down) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 16 (BR) | Ground | Mirror switch right signal | Input | Mirror switch | Operate (right) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 17 (L) | Ground | Door mirror sensor (passenger side) left/right signal | Input | Door mirror RH position | | Change between 3.4 (close to left edge) 0.6 (close to right edge) |
| 18 (G) | Ground | Door mirror sensor (driver side) left/right signal | Input | Door mirror LH position | | Change between 0.6 (close to left edge) 3.4 (close to right edge) |
| 19 (G) | Ground | Telescopic switch backward signal | Input | Telescopic switch | Operate (backward) | 0 - 1 V |
| | | | | | Other than the above | 4 - 6 V |
| 20 (Y) | Ground | Ground (sensor) | — | — | | 0 - 1 V |
| 21 (R) | Ground | Door mirror motor sensor power supply | Output | — | | 4 - 6 V |
| 22 (R) | Ground | Door mirror motor (passenger side) down/right output signal | Output | Door mirror (RH) | Operate (down/right) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |
| 23 (LG) | Ground | Door mirror motor (driver side) up/right output signal | Output | Door mirror (LH) | Operate (up/right) | 9 - 16 V |
| | | | | | Other than the above | 0 - 1 V |

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (wire color) | | Description | | Condition | | Voltage | |
|------------------------------|--------|---|------------------|---------------------|----------------------|----------|-----|
| + | - | Signal name | Input/ Output | | | | |
| 24 (L) | Ground | Door mirror motor (driver side) down/left output signal | Output | Door mirror (LH) | Operate (down/left) | 9 - 16 V | A |
| | | | | | Other than the above | 0 - 1 V | B |
| 25 (SB) | Ground | Battery power supply | Input | — | | 9 - 16 V | C |
| 26 (L) | Ground | Telescopic motor backward output signal | Output | Steering telescopic | Operate (backward) | 9 - 16 V | D |
| | | | | | Other than the above | 0 - 1 V | E |
| 27 (P) | Ground | Tilt & telescopic sensor power supply | Output | — | | 9 - 16 V | F |
| 28 (G) | Ground | Tilt motor down output signal | Output | Steering tilt | Operate (down) | 9 - 16 V | F |
| | | | | | Other than the above | 0 - 1 V | G |
| 29 (LG) | Ground | Tilt motor up output signal | Output | Steering tilt | Operate (up) | 9 - 16 V | H |
| | | | | | Other than the above | 0 - 1 V | I |
| | | Telescopic motor forward output signal | | Steering telescopic | Operate (forward) | 9 - 16 V | I |
| | | | | | Other than the above | 0 - 1 V | I |
| 30 (B) | Ground | Ground (power) | — | — | | 0 - 1 V | ADP |

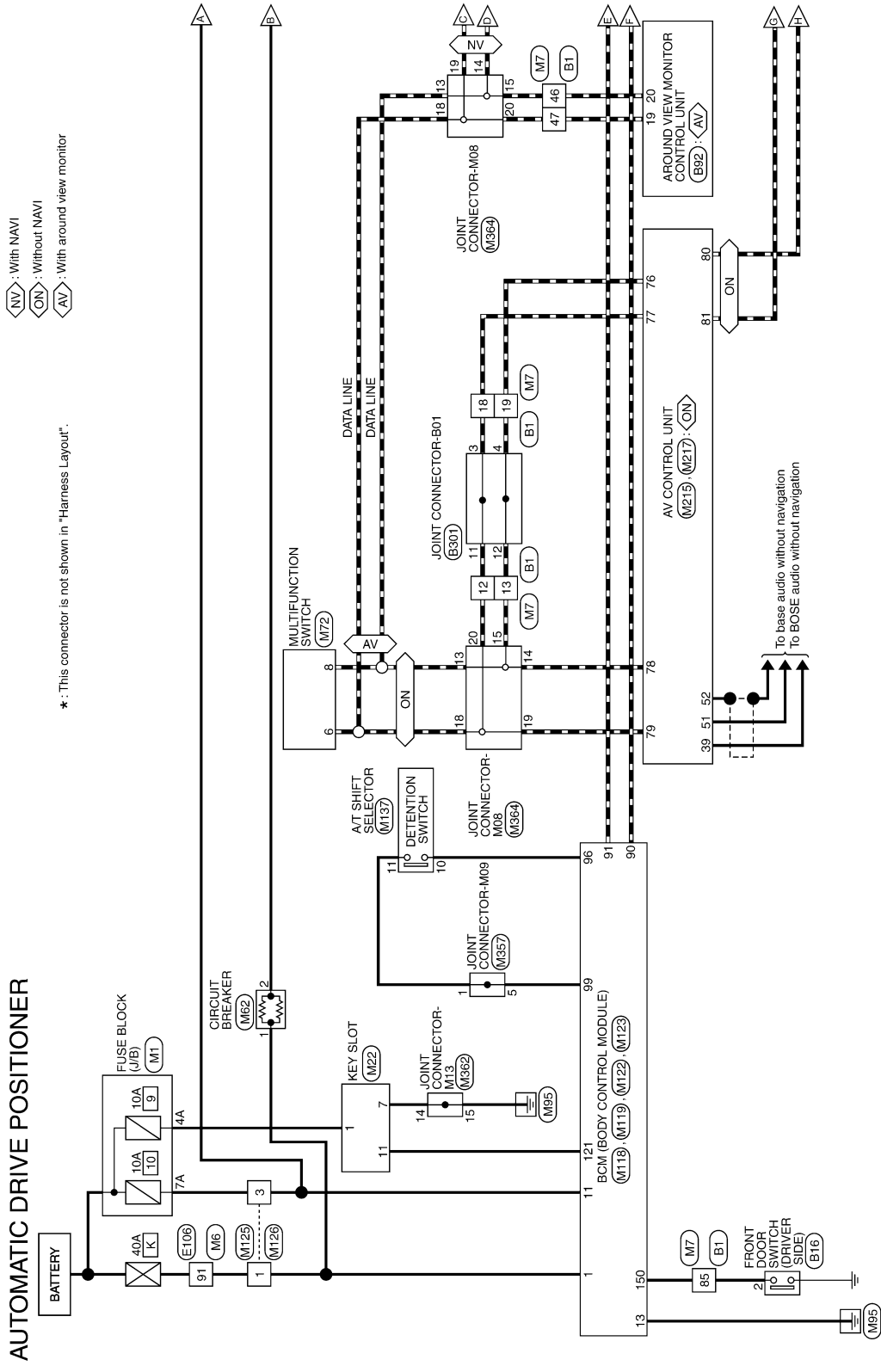
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

INFOID:000000012170624



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

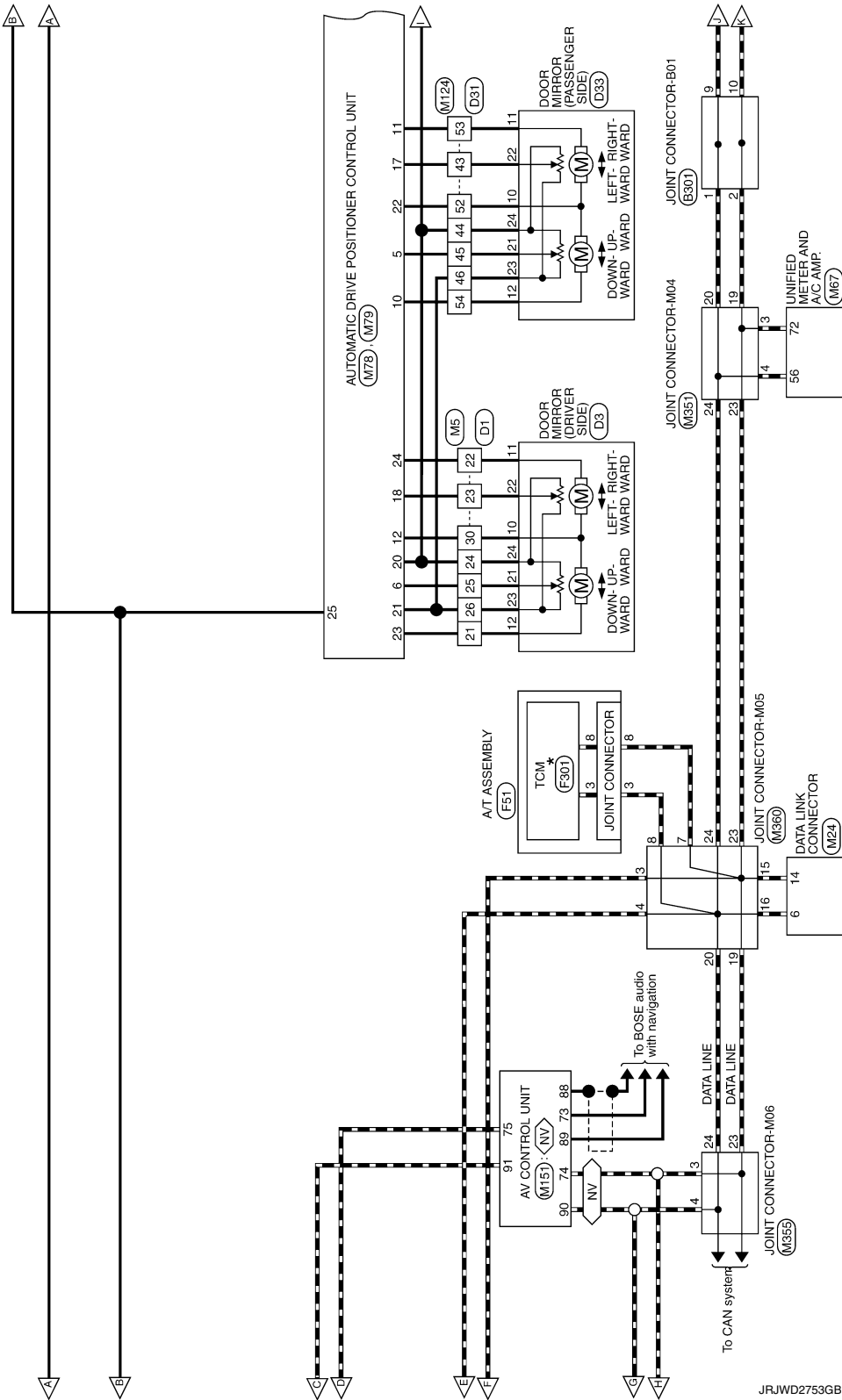
- <NV> : With NAVI
- <ON> : Without NAVI
- <AV> : With around view monitor

2015/06/22

JRJDW2752GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

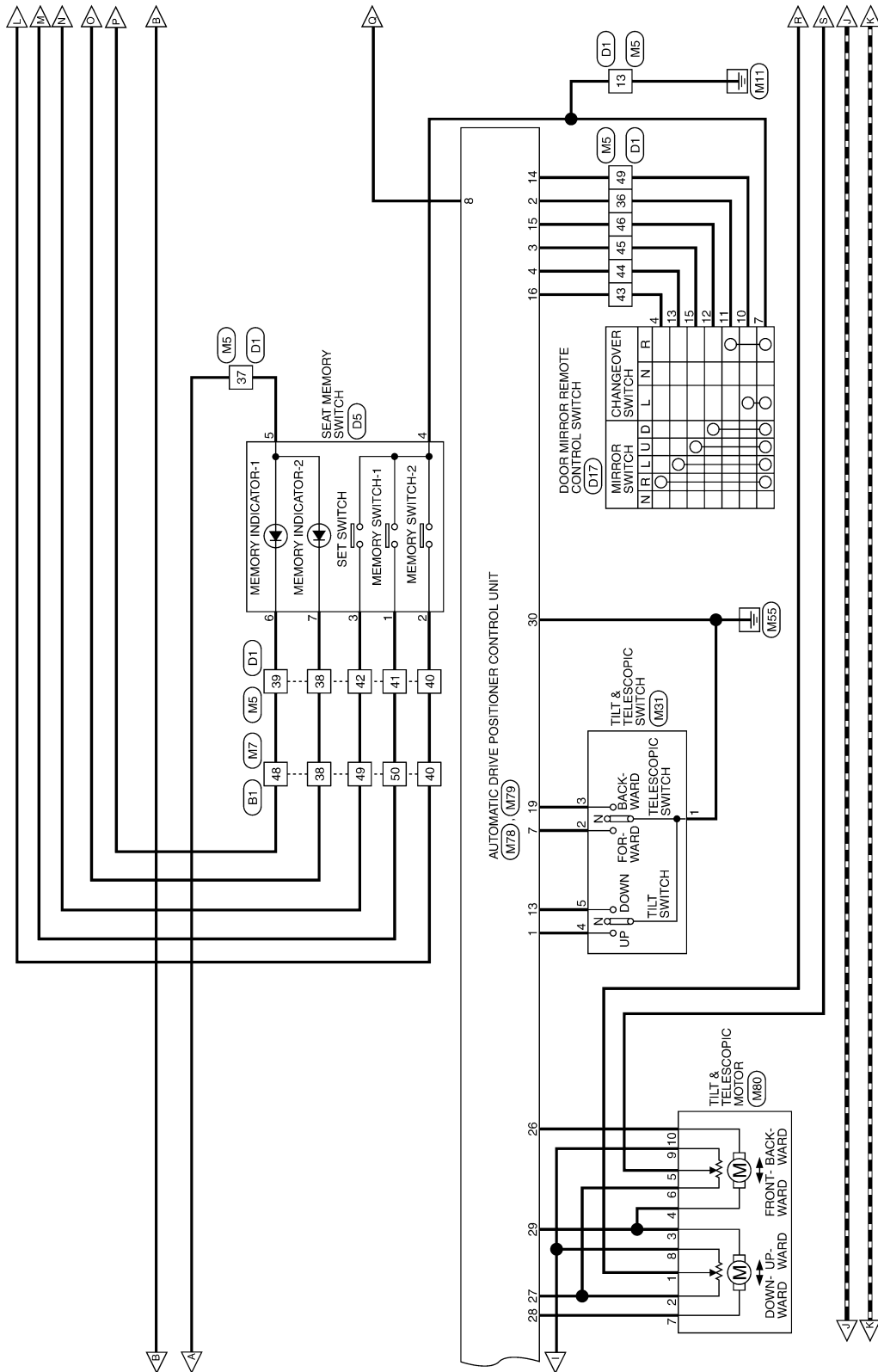
< ECU DIAGNOSIS INFORMATION >



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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

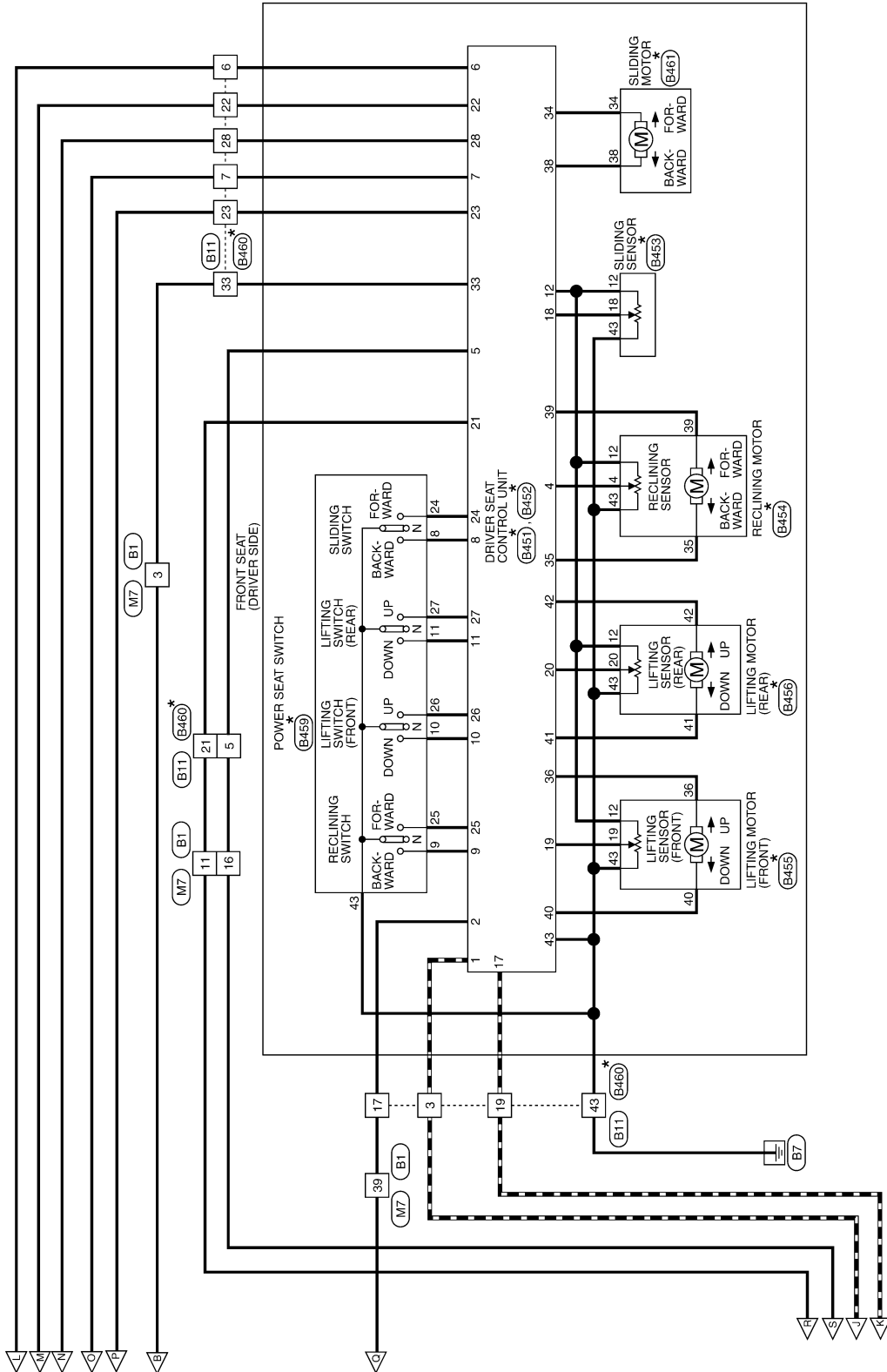
< ECU DIAGNOSIS INFORMATION >



JRJWD2754GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >



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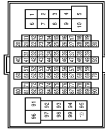
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

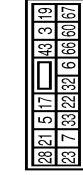
| | |
|----------------|-----------------|
| Connector No. | B11 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 3 | R | - |
| 5 | G | - |
| 6 | SB | - |
| 7 | V | - |
| 8 | L | - |
| 11 | V | - |
| 12 | SB | - |
| 13 | LG | - |
| 14 | GR | - |
| 15 | LG | - |
| 16 | R | - |
| 17 | W | - |
| 18 | GR | - |
| 19 | L | - |
| 20 | BR | - |
| 21 | SHIELD | - |
| 22 | Y | - |
| 24 | P | - |
| 25 | G | - |
| 26 | Y | - |
| 27 | B | - [With NAVI] |
| 27 | BR | - [Without NAVI] |
| 28 | R | - [With NAVI] |
| 28 | W | - [Without NAVI] |
| 29 | L | - [With NAVI] |
| 29 | L | - [Without NAVI] |
| 29 | SHIELD | - [With neutral view monitor] |
| 31 | SHIELD | - [Without second view monitor] |
| 32 | P | - [With NAVI] [Without Blind Spot Warning] |
| 32 | W | - [Without NAVI] [Without Blind Spot Warning] |
| 32 | Y | - [With NAVI] [With Blind Spot Warning] |
| 33 | SB | - |
| 34 | L | - |
| 35 | P | - |

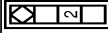
| | | |
|----|--------|---|
| 36 | L | - |
| 37 | P | - |
| 38 | P | - |
| 39 | Y | - |
| 40 | SB | - |
| 44 | Y | - |
| 45 | GR | - |
| 46 | LG | - |
| 47 | SB | - |
| 48 | BG | - |
| 49 | R | - |
| 50 | L | - |
| 60 | L | - |
| 62 | SHIELD | - |
| 63 | R | - |
| 64 | G | - |
| 65 | SHIELD | - |
| 66 | W | - |
| 67 | V | - |
| 69 | SB | - |
| 70 | W | - |
| 73 | SB | - |
| 74 | L | - |
| 75 | W | - |
| 76 | GR | - |
| 77 | R | - |
| 78 | P | - |
| 79 | GR | - |
| 83 | BG | - |
| 85 | V | - |
| 86 | LG | - |
| 87 | Y | - |
| 89 | R | - |
| 89 | B | - |
| 90 | BG | - |
| 91 | G | - |
| 92 | BR | - |
| 93 | G | - |
| 94 | SB | - |
| 95 | G | - |
| 98 | W | - |
| 99 | GR | - |

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



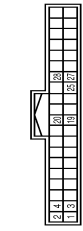
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | L | - |
| 5 | R | - |
| 6 | SB | - |
| 7 | P | - |
| 17 | P | - |
| 19 | P | - |
| 21 | V | - |
| 22 | L | - |
| 23 | BG | - |
| 28 | R | - |
| 33 | R | - |
| 43 | B | - |
| 46 | G | - |
| 60 | GR | - |
| 67 | Y | - |

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



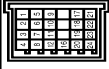
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | V | - |

| | |
|----------------|----------------------------------|
| Connector No. | B92 |
| Connector Name | AROUND VIEW MONITOR CONTROL UNIT |
| Connector Type | TH40FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------------|
| 1 | B | GROUND |
| 2 | L | BATTERY [Without Blind Spot Warning] |
| 2 | Y | BATTERY [With Blind Spot Warning] |
| 3 | P | IGNITION SIGNAL |
| 4 | GR | ACC |
| 19 | SB | AV COMM (H) |
| 20 | LG | AV COMM (L) |
| 25 | V | REVERSE SIGNAL |
| 27 | L | CAN-H |
| 28 | P | CAN-L [Without Blind Spot Warning] |
| 28 | Y | CAN-L [With Blind Spot Warning] |

| | |
|----------------|---------------------|
| Connector No. | B301 |
| Connector Name | JOINT CONNECTOR-B01 |
| Connector Type | NH24FF-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | P | - |
| 3 | SB | - |
| 4 | LG | - |
| 5 | L | - |
| 6 | P | - |
| 7 | SB | - |
| 8 | LG | - |

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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AUTOMATIC DRIVE POSITIONER

| | | |
|----|----|---|
| 9 | L | - |
| 10 | P | - |
| 11 | SB | - |
| 12 | LG | - |
| 16 | SB | - |
| 17 | R | - |
| 18 | Y | - |
| 19 | B | - |
| 20 | SB | - |
| 21 | R | - |
| 22 | Y | - |
| 23 | B | - |
| 24 | SB | - |

| | |
|----------------|--------------------------|
| Connector No. | B451 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Type | TR43ZHW |



| | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | - | CAN-H |
| 2 | - | UART (TX/RX) |
| 3 | - | - |
| 4 | - | PULSE (RECLINER) |
| 5 | - | PULSE(TELESCOPIC) |
| 6 | - | ADDRESS 2 |
| 7 | - | IND 2 |
| 8 | - | SLIDE SW (BACKWARD) |
| 9 | - | RECLINER SW (BACKWARD) |
| 10 | - | FRONT LIFTER SW (DOWNWARD) |
| 11 | - | REAR LIFTER SW (DOWNWARD) |
| 12 | - | POWER SUPPLY (ENCODER) |
| 13 | - | PULSE (SLIDE) |
| 18 | - | PULSE (FRONT LIFTER) |
| 20 | - | PULSE (REAR LIFTER) |
| 21 | - | PULSE(TILT) |
| 22 | - | ADDRESS 1 |
| 23 | - | IND 1 |
| 24 | - | SLIDE SW (FORWARD) |
| 25 | - | RECLINER SW (FORWARD) |

| | | |
|----|---|--------------------------|
| 26 | - | FRONT LIFTER SW (UPWARD) |
| 27 | - | REAR LIFTER SW (UPWARD) |
| 28 | - | SET SW |

| | |
|----------------|--------------------------|
| Connector No. | B452 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Type | NS15FHW |



| | | | | | |
|----|----|----|----|----|----|
| 36 | 35 | 34 | 33 | | |
| 43 | 42 | 41 | 40 | 39 | 38 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------|
| 33 | - | BAT (PTC) |
| 34 | - | SLIDE MOTOR (BACKWARD) |
| 35 | - | RECLINER MOTOR (FORWARD) |
| 36 | - | FRONT LIFTER MOTOR (DOWNWARD) |
| 38 | - | SLIDE MOTOR (FORWARD) |
| 39 | - | RECLINER MOTOR (BACKWARD) |
| 40 | - | FRONT LIFTER MOTOR (UPWARD) |
| 41 | - | REAR LIFTER MOTOR (UPWARD) |
| 42 | - | REAR LIFTER MOTOR (DOWNWARD) |
| 43 | - | SNIP |

| | |
|----------------|----------------|
| Connector No. | B453 |
| Connector Name | SLIDING SENSOR |
| Connector Type | 6098.0241 |



| | | |
|----|----|----|
| 18 | 13 | 12 |
|----|----|----|

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | O | - |
| 18 | R | - |
| 43 | GR | - |

| | |
|----------------|-----------------|
| Connector No. | B454 |
| Connector Name | RECLINING MOTOR |
| Connector Type | NS20FW-CS |



| | | |
|----|----|----|
| 39 | 38 | 35 |
| 12 | 43 | 4 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | W/G | - |
| 12 | O | - |
| 35 | P | - |
| 39 | G/Y | - |
| 43 | GR | - |

| | |
|----------------|-----------------------|
| Connector No. | B455 |
| Connector Name | LIFTING MOTOR (FRONT) |
| Connector Type | NS20FW-CS |



| | | |
|----|----|----|
| 36 | 40 | |
| 12 | 43 | 19 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | O | - |
| 19 | Y/B | - |
| 36 | L/R | - |
| 40 | G/W | - |
| 43 | GR | - |

| | |
|----------------|----------------------|
| Connector No. | B456 |
| Connector Name | LIFTING MOTOR (REAR) |
| Connector Type | NS20FER-CS |



| | | |
|----|----|----|
| 42 | 41 | |
| 12 | 43 | 20 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | O | - |
| 20 | P/B | - |
| 41 | R/B | - |
| 42 | L/Y | - |
| 43 | GR | - |

| | |
|----------------|-------------------|
| Connector No. | B459 |
| Connector Name | POWER SEAT SWITCH |
| Connector Type | NS10FY-CS |



| | | | | |
|----|----|----|----|----|
| 43 | 11 | 27 | | |
| 9 | 23 | 24 | 10 | 25 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | BR | - |
| 9 | SB | - |
| 10 | LG/R | - |
| 11 | O/B | - |
| 24 | Y | - |
| 28 | R/G | - |
| 29 | P/B | - |
| 43 | B/W | - |

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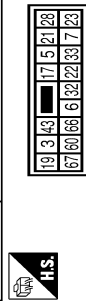
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

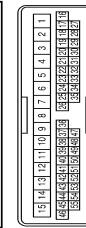
< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | |
|----------------|--------------|
| Connector No. | B460 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |



| | |
|----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH4GFW-CS15 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | R/Y | - |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 17 | V/R | - |
| 19 | V | - |
| 21 | L/Y | - |
| 22 | - | - |
| 23 | - | - |
| 28 | - | - |
| 33 | R | - |
| 43 | V/R | - |
| 66 | B | - |
| 67 | L | - |

| | |
|----------------|---------------|
| Connector No. | B461 |
| Connector Name | SLIDING MOTOR |
| Connector Type | 60998-0239 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 34 | W/R | - |
| 38 | W/B | - |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 37 | R | - |
| 38 | P | - |
| 39 | O | - |
| 40 | BR | - |
| 41 | L | - |
| 42 | GR | - |
| 43 | BR | - [With automatic drive positioner] |
| 44 | O | - [Without automatic drive positioner] |
| 44 | GR | - [Without automatic drive positioner] |
| 44 | W | - [Web automatic drive positioner] |
| 45 | G | - [Without automatic drive positioner] |
| 45 | G | - [With automatic drive positioner] |
| 46 | O | - [Without automatic drive positioner] |
| 46 | V | - [Without automatic drive positioner] |
| 47 | R | - |
| 48 | G | - |
| 49 | GR | - |
| 50 | SHIELD | - |
| 51 | B | - |
| 52 | R | - |
| 53 | SB | - |
| 54 | O | - |
| 55 | Y | - |

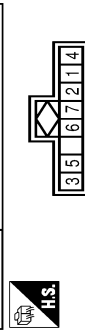
| | |
|----------------|---------------------------|
| Connector No. | D3 |
| Connector Name | DOOR MIRROR (DRIVER SIDE) |
| Connector Type | TH24MW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | O | - |
| 3 | BR | - |
| 5 | P | - |
| 6 | SB | COMP- |
| 7 | W | ON |
| 10 | G | - |
| 11 | P | - |
| 12 | O | - |
| 14 | LG | - |
| 17 | SHIELD | COMP- |

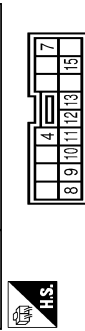
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 18 | LG | GROUND |
| 19 | B | - |
| 21 | GR | - |
| 22 | BR | - |
| 23 | Y | - |
| 24 | V | - |

| | |
|----------------|--------------------|
| Connector No. | D5 |
| Connector Name | SEAT MEMORY SWITCH |
| Connector Type | A8BFV |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | BR | - |
| 3 | GR | - |
| 4 | B | - |
| 5 | R | - |
| 6 | C | - |
| 7 | P | - |

| | |
|----------------|-----------------------------------|
| Connector No. | D17 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Type | TK18FER |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | BR | - |
| 7 | B | - |
| 8 | B | - |
| 9 | R | - |
| 10 | GR | - |

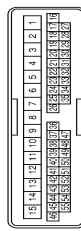
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | | |
|----|----|--|
| 11 | LG | |
| 12 | G | |
| 13 | W | |
| 15 | Y | |

| | |
|----------------|--------------|
| Connector No. | D31 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-C515 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 7 | R | |
| 8 | BR | |
| 9 | V | |
| 12 | P | |
| 13 | LG | |
| 14 | B | |
| 15 | W | |
| 16 | GR | |
| 17 | BR | |
| 18 | R | |
| 19 | B | |
| 20 | G | [With around view monitor] - [Without around view monitor] |
| 21 | BR | [With around view monitor] - [Without around view monitor] |
| 21 | SHIELD | [With around view monitor] - [Without around view monitor] |
| 22 | V | |
| 23 | P | |
| 24 | W | |
| 25 | SB | |
| 26 | R | |
| 27 | G | |
| 28 | G | |
| 34 | GR | |
| 35 | G | |
| 36 | R | |
| 37 | G | |
| 43 | Y | |
| 44 | V | |
| 45 | P | |
| 46 | W | |

| | | |
|----|--------|--|
| 47 | SHIELD | |
| 52 | G | |
| 53 | GR | |
| 54 | O | |
| 55 | L | |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------|
| 1 | G | |
| 3 | W | |
| 5 | G | SIDE CAMERA RH COMM COMP+ |
| 8 | R | |
| 7 | L | |
| 10 | G | |
| 11 | GR | |
| 12 | O | |
| 13 | SHIELD | COMP- |
| 18 | B | |
| 19 | B | |
| 21 | P | |
| 22 | Y | |
| 23 | W | |
| 24 | V | |

| | |
|----------------|-----------------|
| Connector No. | E108 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-C516-TM4 |



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

| | | |
|----|--------|--|
| 41 | W | |
| 42 | G | |
| 43 | BR | |
| 45 | W | |
| 49 | L | |
| 50 | P | |
| 51 | L | |
| 54 | BG | |
| 57 | BR | |
| 59 | W | |
| 60 | LG | |
| 61 | G | |
| 62 | SB | |
| 63 | W | |
| 65 | G | |
| 66 | R | |
| 67 | SHIELD | |
| 68 | Y | |
| 69 | LG | |
| 70 | W | |
| 71 | R | |
| 72 | Y | |
| 73 | B | |
| 74 | BR | |
| 74 | L | |
| 75 | G | |
| 76 | W | |
| 76 | Y | |
| 76 | V | |
| 77 | P | |
| 77 | R | |
| 78 | BR | |
| 78 | L | |
| 79 | L | |
| 79 | Y | |
| 80 | SB | |
| 81 | R | |
| 82 | SB | |
| 83 | BG | |
| 84 | G | |
| 86 | P | |
| 87 | V | |
| 89 | GR | |
| 90 | SHIELD | |
| 91 | W | |
| 92 | Y | |
| 93 | V | |
| 94 | LG | |

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

ADP

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

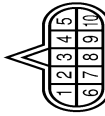
| | | | |
|-----|--------|---|---|
| 95 | BG | - | - |
| 96 | P | - | - |
| 97 | R | - | - |
| 98 | SHIELD | - | - |
| 99 | L | - | - |
| 100 | P | - | - |

| | |
|----------------|--------------|
| Connector No. | F51 |
| Connector Name | A/T ASSEMBLY |
| Connector Type | FRK10FG-00Y |



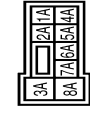
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | IGNITION POWER SUPPLY |
| 2 | BR | BATTERY POWER SUPPLY |
| 3 | G | CAN-H |
| 4 | Y | AC-LINE |
| 5 | N | IGNITION POWER SUPPLY |
| 6 | Y | BACK-UP LAMP RELAY |
| 7 | R | CAN-L |
| 8 | LG | STARTER RELAY |
| 9 | GR | GROUND |
| 10 | B | GROUND |

| | |
|----------------|--------|
| Connector No. | F501 |
| Connector Name | TCM |
| Connector Type | SP10FG |



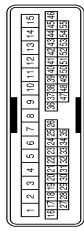
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | - | IGNITION POWER SUPPLY |
| 2 | - | BATTERY POWER SUPPLY |
| 3 | - | CAN-H |
| 4 | - | GROUND |
| 5 | - | K-LINE |
| 6 | - | IGNITION POWER SUPPLY |
| 7 | - | BACK-UP LAMP RELAY |
| 8 | - | CAN-L |
| 9 | - | STARTER RELAY |
| 10 | - | GROUND |

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



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

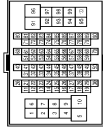
| | |
|----------------|--------------|
| Connector No. | M5 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MP-CS15 |



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

| | | |
|----|--------|--|
| 37 | BR | - |
| 38 | P | - |
| 39 | EG | - |
| 40 | SB | - |
| 41 | L | - |
| 42 | R | - |
| 43 | BR | - |
| 44 | V | - |
| 45 | G | - |
| 46 | V | - [With automatic drive positioner] |
| 47 | R | - [Without automatic drive positioner] |
| 48 | D | - |
| 49 | D | - |
| 50 | SHIELD | - |
| 51 | B | - |
| 52 | V | - |
| 53 | R | - |
| 54 | LG | - |
| 55 | SB | - |

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MP-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - [With NAVI] |
| 2 | Y | - [Without NAVI] |
| 3 | B | - [Without NAVI] |
| 4 | R | - [With NAVI] |
| 5 | B | - [Without NAVI] |
| 6 | G | - [Without NAVI] |
| 7 | G | - |
| 8 | R | - |
| 9 | W | - |
| 10 | R | - |
| 11 | BR | - |


AUTOMATIC DRIVE POSITIONER CONTROL UNIT

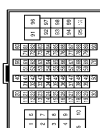
< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | | |
|----|--------|---------------|
| 12 | EG | -- |
| 13 | R | -- |
| 14 | R | -- |
| 15 | P | -- |
| 16 | V | -- |
| 17 | SB | -- |
| 18 | V | -- |
| 20 | EG | -- |
| 21 | L | -- |
| 22 | W | -- |
| 23 | P | -- |
| 24 | BR | -- |
| 28 | V | -- |
| 29 | V | -- |
| 31 | G | -- |
| 32 | L | -- |
| 33 | B | -- |
| 34 | W | -- |
| 35 | R | -- |
| 36 | SHIELD | -- |
| 37 | V | -- |
| 38 | EG | -- |
| 39 | BR | -- |
| 41 | W | -- |
| 42 | EG | -- |
| 43 | EG | -- |
| 44 | W | -- |
| 50 | P | -- |
| 51 | BR | -- |
| 54 | Y | -- |
| 57 | G | -- |
| 59 | W | -- |
| 60 | L | -- |
| 61 | G | -- |
| 62 | SB | -- |
| 63 | G | -- |
| 64 | B | -- |
| 65 | R | -- |
| 67 | SHIELD | -- |
| 68 | Y | -- |
| 69 | GR | -- |
| 70 | LG | -- |
| 71 | LG | -- |
| 72 | Y | -- |
| 73 | SB | -- |
| 74 | BR | -- [With LCC] |

| | | |
|-----|--------|------------------|
| 74 | L | -- [Without LCC] |
| 75 | GR | -- [Without LCC] |
| 76 | W | -- [With LCC] |
| 77 | P | -- [Without LCC] |
| 77 | R | -- [With LCC] |
| 78 | L | -- [Without LCC] |
| 78 | R | -- [With LCC] |
| 79 | W | -- [Without LCC] |
| 79 | Y | -- [With LCC] |
| 80 | SB | -- |
| 81 | SB | -- |
| 82 | SB | -- |
| 83 | V | -- |
| 84 | G | -- |
| 85 | L | -- |
| 88 | P | -- |
| 87 | W | -- |
| 89 | GR | -- |
| 90 | SHIELD | -- |
| 91 | W | -- |
| 92 | Y | -- |
| 93 | BR | -- |
| 94 | P | -- |
| 95 | GR | -- |
| 96 | W | -- |
| 97 | SHIELD | -- |
| 98 | Y | -- |
| 100 | SB | -- |


 Connector No. M7
 Connector Name WIRE TO WIRE
 Connector Type TH80MMV-CSE1E-TM4



Terminal Color Of Wire Signal Name [Specification]
 3 SB -- [With automatic drive positioner]
 3 W -- [Without automatic drive positioner]
 5 G
 6 BG

| | | |
|----|--------|---------------------------------|
| 7 | W | -- |
| 8 | B | -- |
| 11 | V | -- |
| 12 | SB | -- |
| 13 | LG | -- |
| 14 | Y | -- |
| 15 | G | -- |
| 16 | R | -- |
| 17 | W | -- |
| 18 | SB | -- |
| 19 | LG | -- |
| 20 | BR | -- |
| 21 | SHIELD | -- |
| 22 | V | -- |
| 23 | V | -- |
| 25 | G | -- |
| 26 | Y | -- |
| 27 | B | -- [With NAVI] |
| 27 | R | -- [Without NAVI] |
| 28 | W | -- |
| 29 | B | -- [With NAVI] |
| 29 | R | -- [Without NAVI] |
| 30 | SHIELD | -- |
| 31 | L | -- |
| 32 | P | -- |
| 32 | Y | -- [Without Blind Spot Warning] |
| 33 | SB | -- |
| 34 | L | -- |
| 35 | P | -- |
| 36 | L | -- |
| 37 | P | -- |
| 38 | P | -- |
| 39 | Y | -- |
| 40 | SB | -- |
| 44 | L | -- |
| 45 | GR | -- |
| 46 | LG | -- |
| 47 | SB | -- |
| 48 | BG | -- |
| 49 | R | -- |
| 50 | L | -- |
| 60 | P | -- |
| 61 | L | -- |
| 62 | SHIELD | -- |
| 63 | R | -- |
| 64 | G | -- |
| 65 | SHIELD | -- |
| 66 | SB | -- |
| 67 | V | -- |
| 68 | LG | -- |

| | | |
|----|--------|----|
| 69 | SHIELD | -- |
| 70 | W | -- |
| 73 | G | -- |
| 74 | R | -- |
| 75 | W | -- |
| 76 | W | -- |
| 77 | B | -- |
| 78 | P | -- |
| 79 | GR | -- |
| 83 | BG | -- |
| 85 | LG | -- |
| 86 | R | -- |
| 87 | W | -- |
| 89 | BR | -- |
| 90 | EG | -- |
| 91 | G | -- |
| 92 | V | -- |
| 93 | BR | -- |
| 94 | V | -- |
| 95 | G | -- |
| 96 | Y | -- |
| 98 | W | -- |
| 99 | R | -- |

Connector No. M22
 Connector Name KEY SLOT
 Connector Type TH12EM-NH




Terminal Color Of Wire Signal Name [Specification]
 1 R BATT
 2 GR GND
 3 Y ILL BATT
 6 LG LG
 7 B GROUND
 11 BR KEY SWITCH SIGNAL

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

ADP

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | LG | - |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | V | - |
| 8 | G | - |
| 11 | SB | - |
| 14 | P | - |
| 16 | Y | - |

| | |
|----------------|--------------------------|
| Connector No. | M31 |
| Connector Name | TILT & TELESCOPIC SWITCH |
| Connector Type | TO8F6Y |



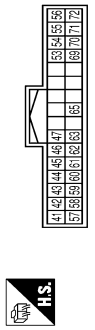
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | B | - |
| 4 | R | - |
| 5 | W | - |

| | |
|----------------|-----------------|
| Connector No. | M82 |
| Connector Name | CIRCUIT BREAKER |
| Connector Type | M02FW-P-LC |



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

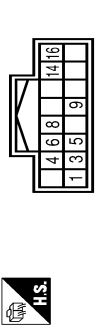
| | |
|----------------|------------------------------|
| Connector No. | M87 |
| Connector Name | UNFUELED METER AND A.C. AMP. |
| Connector Type | TH32FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 41 | V | ACC POWER SUPPLY |
| 42 | Y | FUEL LEVEL SENSOR SIGNAL |
| 43 | R | INTAKE SENSOR SIGNAL |
| 44 | LG | IN-VEHICLE SENSOR SIGNAL |
| 45 | P | AMBIENT SENSOR SIGNAL |
| 46 | BG | SUNLOAD SENSOR SIGNAL |
| 47 | G | LOWEST GAS-CORRECTED DETECTED SENSOR SIGNAL |
| 48 | V | IGNITION POWER SUPPLY |
| 49 | B | BATTERY SUPPLY |
| 50 | L | GROUND |
| 51 | L | CAN-H |
| 52 | W | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 53 | BR | FUEL LEVEL SENSOR GROUND |
| 54 | GR | INTAKE SENSOR GROUND |
| 55 | L | IN-VEHICLE SENSOR GROUND |
| 56 | BR | AMBIENT SENSOR GROUND |
| 57 | SB | SUNLOAD SENSOR GROUND |
| 58 | R | - |

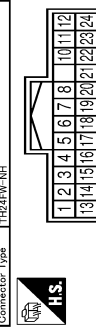
| | | |
|----|----|------------------------------|
| 65 | BG | ECV SIGNAL |
| 66 | L | A.C. LAN SIGNAL |
| 67 | R | EACH DOOR MOTOR POWER SUPPLY |
| 70 | B | GROUND |
| 71 | B | CAN-L |
| 72 | P | - |

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



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

| | |
|----------------|---|
| Connector No. | M78 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Type | TH24FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | UPWARD |
| 2 | LG | SELECT RH |
| 3 | G | UPWARD |
| 4 | V | LEFTWARD |

| | | |
|----|----|--------------------------|
| 5 | R | MIR.SENS.UP.DOWN(RH) |
| 6 | GR | MIR.SENS.UP.DOWN(LH) |
| 7 | GR | FORWARD |
| 8 | Y | RV/TX |
| 10 | W | MIR.MTR.UP(RH) |
| 11 | G | MIR.MTR.LEFT(RH) |
| 12 | Y | MIR.MTR.DOWN.RIGHT(LH) |
| 13 | W | DOWNWARD |
| 14 | P | SELECT LH |
| 15 | SB | DOWNWARD |
| 16 | BR | RIGHTWARD |
| 17 | L | MIR.SENS.LEFT.RIGHT(TRH) |
| 18 | G | MIR.SENS.LEFT.RIGHT(TLH) |
| 19 | Y | SENS (CAN) |
| 20 | Y | SENS (GND) |
| 21 | R | POWER SUPPLY (SENSOR) |
| 22 | R | MIR.MTR.DOWN.RIGHT(RH) |
| 23 | LG | MIR.MTR.UP(LH) |
| 24 | L | MIR.MTR.LEFT(LH) |

| | |
|----------------|---|
| Connector No. | M79 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Type | HS6FW-CS |



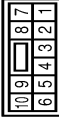
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 25 | SB | BAT |
| 26 | L | BACKWARD |
| 27 | P | STRG.SENS.VCC |
| 28 | G | DOWNWARD |
| 29 | LG | UPWARD/RIGHTWARD |
| 30 | B | GND |

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| | |
|----------------|-------------------------|
| Connector No. | M18B |
| Connector Name | TILT & TELESCOPIC MOTOR |
| Connector Type | NS10FW-C5 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 1 | V | REAR ROOM LAMP SUPPLY |
| 2 | P | INTERIOR ROOM LAMP POWER SUPPLY |
| 3 | LG | PASSENGER DOOR UNLOCK OUTPUT |
| 4 | LG | STEP LAMP CONT |
| 5 | R | ALL DOOR FUEL LID LOCK OUTPUT |
| 6 | P | DRIVER DOOR FUEL LID UNLOCK OUTPUT |
| 7 | G | REAR DOOR UNLOCK OUTPUT |
| 8 | Y | BAT (FUSE) |
| 9 | BR | GROUND |
| 10 | L | PUSH-BUTTON IGNITION SW ILL GND |

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



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

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS10FW-C5 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 4 | LG | INTERIOR ROOM LAMP POWER SUPPLY |
| 5 | L | PASSENGER DOOR UNLOCK OUTPUT |
| 7 | Y | STEP LAMP CONT |
| 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 |
| 14 | W | PUSH-BUTTON IGNITION SW ILL GND |
| 15 | Y | ACC IND |
| 17 | W | TURN SIGNAL RH (FRONT) |
| 18 | BG | TURN SIGNAL LH (FRONT) |
| 19 | V | INT ROOM LAMP CONT |

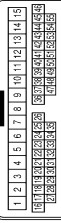
| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 72 | R | ROOM ANTI - |
| 73 | G | ROOM ANTI + |
| 74 | SB | PASSENGER DOOR ANTI - |
| 75 | GR | PASSENGER DOOR ANTI + |
| 76 | V | DRIVER DOOR ANTI - |
| 77 | LG | DRIVER DOOR ANTI + |
| 78 | Y | ROOM ANTI - |

| | | |
|-----|----|-------------------------------------|
| 78 | BR | ROOM ANTI + |
| 80 | GR | MATS ANTI AMP |
| 81 | W | MATS ANTI AMP |
| 82 | Y | IGN RELAY (F/B) CONT |
| 83 | R | KEYLESS ENTRY RECEIVER COM1 |
| 87 | BR | COMBI SW INPUT 1 |
| 88 | V | COMBI SW INPUT 3 |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL CONT |
| 93 | V | ON IND |
| 94 | V | Puddle Lamp Cont |
| 95 | BG | ACC RELAY CONT |
| 96 | BR | A/T SHIF T/SER |
| 97 | G | SHIF T/P |
| 100 | G | PASSENGER DOOR REQUEST SW |
| 101 | SB | DRIVER DOOR REQUEST SW |
| 102 | BG | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 2 |
| 109 | Y | COMBI SW INPUT 4 |
| 110 | G | HAZARD SW |

| | |
|----------------|--------------|
| Connector No. | M124 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-C515 |



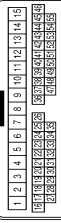
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|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FC-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 113 | P | OPTICAL SENSOR |
| 116 | SB | STOP LAMP SW 1 |
| 118 | SB | DR DOOR UNLOCK SENSOR |
| 121 | BR | KEY SLOT SW |
| 123 | W | IGN F/B |
| 124 | LG | PASSENGER DOOR SW |
| 132 | BR | POWER WINDOW SW COM1 |
| 133 | W | PUSH-BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | BG | RECEIVER/SENSOR GND |

| | | |
|-----|----|---------------------------------|
| 138 | Y | RECEIVER/SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESSURE RECEIVER COM1 |
| 140 | GR | SHIF T/P |
| 141 | G | SECURITY IND LAMP CONT |
| 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 | LG | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

| | |
|----------------|--------------|
| Connector No. | M124 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-C515 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 1 | W | - |
| 2 | LG | - |
| 3 | Y | - |
| 4 | V | - |
| 5 | L | - |
| 6 | V | - |
| 7 | L | - |
| 8 | V | - |
| 9 | Y | - |
| 10 | L | - |
| 11 | V | - |
| 12 | L | - |
| 13 | V | - |
| 14 | B | - |
| 15 | W | - |
| 16 | BR | - |
| 17 | B | - |
| 18 | R | - |
| 19 | B | - |
| 20 | G | - [With around view monitor] |
| 21 | W | - [Without around view monitor] |
| 22 | SHIELD | - [Without around view monitor] |
| 23 | SB | - [With around view monitor] |
| 24 | G | - |
| 25 | Y | - |
| 26 | R | - |
| 27 | W | - |
| 30 | W | - |
| 33 | BR | - |

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 34 | V | - |
| 35 | G | - |
| 36 | Y | - |
| 37 | BR | - |
| 43 | L | - |
| 44 | Y | - |
| 45 | R | - |
| 46 | W | - |
| 47 | SHIELD | - |
| 52 | R | - |
| 53 | G | - |
| 54 | W | - |
| 55 | BG | - |

| | |
|----------------|--------------|
| Connector No. | M125 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M03FW-LC |



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

| | |
|----------------|--------------|
| Connector No. | M126 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M03MW-LC |



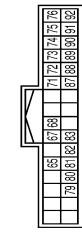
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | Y | - |
| 3 | R | - |

| | |
|----------------|--------------------|
| Connector No. | M137 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Type | TH32FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | V | - |
| 3 | L | - |
| 4 | B | - |
| 5 | G | - |
| 6 | SB | - |
| 8 | BR | - |
| 10 | GR | - |
| 11 | R | - |

| | |
|----------------|-----------------|
| Connector No. | M151 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH32FW-NH |



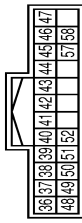
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 65 | V | PARKING BRAKE SIGNAL |
| 67 | G | COMPOSITE IMAGE SIGNAL GND |
| 68 | R | COMPOSITE IMAGE SIGNAL |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 71 | SHIELD | SHIELD |
| 72 | R | MICROPHONE VCC |
| 73 | R | CAMERA POWER SUPPLY |
| 74 | P | CAN-L |
| 75 | LG | AV COMM (L) |
| 76 | LG | AV COMM (L) |
| 79 | R | ILLUMINATION |
| 80 | G | IGNITION SIGNAL |
| 81 | BG | REVERSE SIGNAL |
| 82 | R | VEHICLE SPEED SIGNAL (8-PULSE) |
| 83 | SHIELD | SHIELD |
| 87 | G | MICROPHONE SIGNAL |
| 88 | SHIELD | SHIELD |
| 89 | G | COMM (RSP->CONT) |
| 90 | L | CAN-H |
| 91 | SB | AV COMM (H) |
| 92 | SB | AV COMM (H) |

| | |
|----------------|-----------------|
| Connector No. | M215 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH32FW-NH |



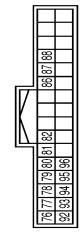
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| Connector No. | M215 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH32FW-NH |



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

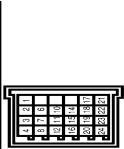
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 57 | SHIELD | SHIELD |
| 58 | SHIELD | SHIELD |

| | |
|----------------|-----------------|
| Connector No. | M217 |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH32FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 76 | LG | AV COMM (L) |
| 77 | SB | AV COMM (H) |
| 78 | LG | AV COMM (L) |
| 79 | SB | AV COMM (H) |
| 80 | P | CAN-L |
| 81 | L | CAN-H |
| 82 | B | SW GND |
| 86 | SHIELD | SHIELD |
| 87 | P | TEL VOICE SIGNAL (+) |
| 88 | P | TEL VOICE SIGNAL (-) |
| 82 | R | VEHICLE SPEED SIGNAL (8-PULSE) |
| 83 | V | PARKING BRAKE SIGNAL |
| 94 | BG | REVERSE SIGNAL |
| 95 | G | IGNITION SIGNAL |
| 96 | Y | DISK EJECT SIGNAL |

| | |
|----------------|---------------------|
| Connector No. | M351 |
| Connector Name | JOINT CONNECTOR-M04 |
| Connector Type | MH24FW-J |



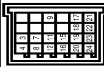
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BG | - |
| 2 | B | - |
| 3 | P | - |
| 4 | L | - |
| 6 | B | - |
| 7 | P | - |
| 8 | L | - |
| 10 | W | - |
| 11 | P | - |
| 12 | L | - |
| 14 | B | - |
| 16 | L | - |
| 17 | V | - |
| 18 | B | - |
| 19 | P | - |
| 20 | L | - |
| 21 | V | - |
| 22 | B | - |
| 23 | P | - |
| 24 | L | - |

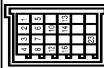
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|----------------|---------------------|
| Connector No. | M555 |
| Connector Name | JOINT CONNECTOR-M06 |
| Connector Type | NH24FW-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | P | - |
| 7 | P | - |
| 8 | L | - |
| 9 | P | - |
| 11 | P | - |
| 12 | L | - |
| 15 | P | - |
| 16 | L | - |
| 17 | P | - |
| 18 | V | - |

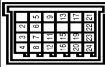
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| 19 | P | - |
| 20 | L | - |
| 21 | P | - |
| 22 | V | - |
| 23 | P | - |
| 24 | L | - |

| | |
|----------------|---------------------|
| Connector No. | M557 |
| Connector Name | JOINT CONNECTOR-M09 |
| Connector Type | NH24FG-J |



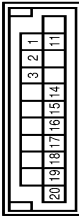
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | BG | - |
| 3 | B | - |
| 4 | L | - |
| 8 | R | - |
| 9 | BG | - |
| 7 | B | - |
| 8 | L | - |
| 10 | B | - |
| 12 | L | - |
| 13 | BR | - |
| 14 | BG | - |
| 16 | G | - |
| 23 | B | - |

| | |
|----------------|---------------------|
| Connector No. | M560 |
| Connector Name | JOINT CONNECTOR-M05 |
| Connector Type | NH24FW-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |
| 3 | P | - |
| 4 | L | - |
| 5 | R | - |
| 6 | GR | - |
| 7 | P | - |
| 8 | L | - |
| 9 | BR | - |
| 11 | P | - |
| 12 | L | - |
| 13 | BR | - |
| 15 | P | - |
| 16 | L | - |
| 17 | V | - |
| 20 | P | - |
| 21 | V | - |
| 22 | G | - |
| 23 | P | - |
| 24 | L | - |

| | |
|----------------|---------------------|
| Connector No. | M582 |
| Connector Name | JOINT CONNECTOR-M13 |
| Connector Type | NH28FW-DC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | Y | - |
| 3 | Y | - |
| 11 | B | - |
| 14 | B | - |
| 15 | B | - |
| 16 | SHIELD | - |
| 17 | SHIELD | - |
| 18 | SHIELD | - |
| 19 | B | - |
| 20 | SHIELD | - |

| | |
|----------------|---------------------|
| Connector No. | M584 |
| Connector Name | JOINT CONNECTOR-M08 |
| Connector Type | NH28FW-DC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11 | LG | - |
| 12 | LG | - |
| 13 | LG | - |
| 14 | LG | - |
| 15 | LG | - |
| 16 | G | - |
| 17 | SB | - |
| 18 | SB | - |
| 19 | SB | - |

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER
20 5B

JRJD2766GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000012828196

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

| Monitor Item | Condition | Value/Status |
|----------------|---|----------------------------------|
| FR WIPER HI | Other than front wiper switch HI | Off |
| | Front wiper switch HI | On |
| FR WIPER LOW | Other than front wiper switch LO | Off |
| | Front wiper switch LO | On |
| FR WASHER SW | Front washer switch OFF | Off |
| | Front washer switch ON | On |
| FR WIPER INT | Other than front wiper switch INT | Off |
| | Front wiper switch INT | On |
| FR WIPER STOP | Front wiper is not in STOP position | Off |
| | Front wiper is in STOP position | On |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| RR WIPER ON | Other than rear wiper switch ON | Off |
| | Rear wiper switch ON | On |
| RR WIPER INT | Other than rear wiper switch INT | Off |
| | Rear wiper switch INT | On |
| RR WASHER SW | Rear washer switch OFF | Off |
| | Rear washer switch ON | On |
| RR WIPER STOP | Rear wiper is in STOP position | Off |
| | Rear wiper is not in STOP position | On |
| TURN SIGNAL R | Other than turn signal switch RH | Off |
| | Turn signal switch RH | On |
| TURN SIGNAL L | Other than turn signal switch LH | Off |
| | Turn signal switch LH | On |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | Off |
| | Lighting switch 1ST or 2ND | On |
| HI BEAM SW | Other than lighting switch HI | Off |
| | Lighting switch HI | On |
| HEAD LAMP SW 1 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| HEAD LAMP SW 2 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| PASSING SW | Other than lighting switch PASS | Off |
| | Lighting switch PASS | On |
| AUTO LIGHT SW | Other than lighting switch AUTO | Off |
| | Lighting switch AUTO | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|---------------|---|--------------|
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off |
| DOOR SW-DR | Driver door closed | Off |
| | Driver door opened | On |
| DOOR SW-AS | Passenger door closed | Off |
| | Passenger door opened | On |
| DOOR SW-RR | Rear RH door closed | Off |
| | Rear RH door opened | On |
| DOOR SW-RL | Rear LH door closed | Off |
| | Rear LH door opened | On |
| DOOR SW-BK | Back door closed | Off |
| | Back door opened | On |
| CDL LOCK SW | Other than power door lock switch LOCK | Off |
| | Power door lock switch LOCK | On |
| CDL UNLOCK SW | Other than power door lock switch UNLOCK | Off |
| | Power door lock switch UNLOCK | On |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | Off |
| | Driver door key cylinder LOCK position | On |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | Off |
| | Driver door key cylinder UNLOCK position | On |
| KEY CYL SW-TR | NOTE: The item is indicated, but not monitored. | Off |
| HAZARD SW | Hazard switch is OFF | Off |
| | Hazard switch is ON | On |
| REAR DEF SW | NOTE: The item is indicated, but not monitored. | Off |
| TR CANCEL SW | NOTE: The item is indicated, but not monitored. | Off |
| TR/BD OPEN SW | Back door opener switch OFF | Off |
| | While the back door opener switch is turned ON | On |
| TRNK/HAT MNTR | NOTE: The item is indicated, but not monitored. | Off |
| REVERSE SW | NOTE: The item is indicated, but not monitored. | Off |
| RKE-LOCK | LOCK button of the key is not pressed | Off |
| | LOCK button of the key is pressed | On |
| RKE-UNLOCK | UNLOCK button of the key is not pressed | Off |
| | UNLOCK button of the key is pressed | On |
| RKE-TR/BD | NOTE: The item is indicated, but not monitored. | Off |
| RKE-PANIC | PANIC button of the key is not pressed | Off |
| | PANIC button of the key is pressed | On |
| RKE-P/W OPEN | UNLOCK button of the key is not pressed | Off |
| | UNLOCK button of the key is pressed and held | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|--|--------------|-----|
| RKE-MODE CHG | LOCK/UNLOCK button of the key is not pressed and held simultaneously | Off | A |
| | LOCK/UNLOCK button of the key is pressed and held simultaneously | On | B |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5 V | |
| | Dark outside of the vehicle | Close to 0 V | |
| REQ SW -DR | Driver door request switch is not pressed | Off | C |
| | Driver door request switch is pressed | On | |
| REQ SW -AS | Passenger door request switch is not pressed | Off | D |
| | Passenger door request switch is pressed | On | |
| REQ SW -RR | NOTE: The item is indicated, but not monitored. | Off | E |
| REQ SW -RL | NOTE: The item is indicated, but not monitored. | Off | |
| REQ SW -BD/TR | Back door request switch is not pressed | Off | F |
| | Back door request switch is pressed | On | |
| PUSH SW | Push-button ignition switch (push switch) is not pressed | Off | G |
| | Push-button ignition switch (push switch) is pressed | On | |
| IGN RLY2 -F/B | NOTE: The item is indicated, but not monitored. | Off | H |
| ACC RLY -F/B | NOTE: The item is indicated, but not monitored. | Off | |
| CLUCH SW | NOTE: The item is indicated, but not monitored. | Off | I |
| BRAKE SW 1 | The brake pedal is depressed when No. 7 fuse is blown | Off | |
| | The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal | On | ADP |
| BRAKE SW 2 | The brake pedal is not depressed | Off | |
| | The brake pedal is depressed | On | K |
| DETE/CANCL SW | Selector lever in P position | Off | |
| | Selector lever in any position other than P | On | L |
| SFT PN/N SW | Selector lever in any position other than P and N | Off | |
| | Selector lever in P or N position | On | M |
| S/L -LOCK | NOTE: The item is indicated, but not monitored. | Off | |
| S/L -UNLOCK | NOTE: The item is indicated, but not monitored. | Off | N |
| S/L RELAY-F/B | NOTE: The item is indicated, but not monitored. | Off | |
| UNLK SEN -DR | Driver door is unlocked | Off | O |
| | Driver door is locked | On | |
| PUSH SW -IPDM | Push-button ignition switch (push-switch) is not pressed | Off | P |
| | Push-button ignition switch (push-switch) is pressed | On | |
| IGN RLY1 -F/B | Ignition switch in OFF or ACC position | Off | |
| | Ignition switch in ON position | On | |
| DETE SW -IPDM | Selector lever in any position other than P | Off | |
| | Selector lever in P position | On | |
| SFT PN -IPDM | Selector lever in any position other than P and N | Off | |
| | Selector lever in P or N position | On | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|----------------|--|-----------------------------------|
| SFT P -MET | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SFT N -MET | Selector lever in any position other than N | Off |
| | Selector lever in N position | On |
| ENGINE STATE | Engine stopped | Stop |
| | While the engine stalls | Stall |
| | At engine cranking | Crank |
| | Engine running | Run |
| S/L LOCK-IPDM | NOTE: The item is indicated, but not monitored. | Off |
| S/L UNLK-IPDM | NOTE: The item is indicated, but not monitored. | Off |
| S/L RELAY-REQ | NOTE: The item is indicated, but not monitored. | Off |
| VEH SPEED 1 | While driving | Equivalent to speedometer reading |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading |
| DOOR STAT-DR | Driver door is locked | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Driver door is unlocked | UNLOCK |
| DOOR STAT-AS | Passenger door is locked | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Passenger door is unlocked | UNLOCK |
| ID OK FLAG | Driver side door is open after ignition switch is turned OFF (Shift position is in the P position) | Reset |
| | Ignition switch ON | Set |
| PRMT ENG STRT | The engine start is prohibited | Reset |
| | The engine start is permitted | Set |
| PRMT RKE STRT | NOTE: The item is indicated, but not monitored. | Reset |
| KEY SW -SLOT | The key is not inserted into key slot | Off |
| | The key is inserted into key slot | On |
| RKE OPE COUN1 | During the operation of the key | Operation frequency of the key |
| RKE OPE COUN2 | NOTE: The item is indicated, but not monitored. | — |
| CONFIRM ID ALL | The key ID that the key slot receives does not accord with any key ID registered to BCM. | Yet |
| | The key ID that the key slot receives accords with any key ID registered to BCM. | Done |
| CONFIRM ID4 | The key ID that the key slot receives does not accord with the fourth key ID registered to BCM. | Yet |
| | The key ID that the key slot receives accords with the fourth key ID registered to BCM. | Done |
| CONFIRM ID3 | The key ID that the key slot receives does not accord with the third key ID registered to BCM. | Yet |
| | The key ID that the key slot receives accords with the third key ID registered to BCM. | Done |

BCM (BODY CONTROL MODULE)

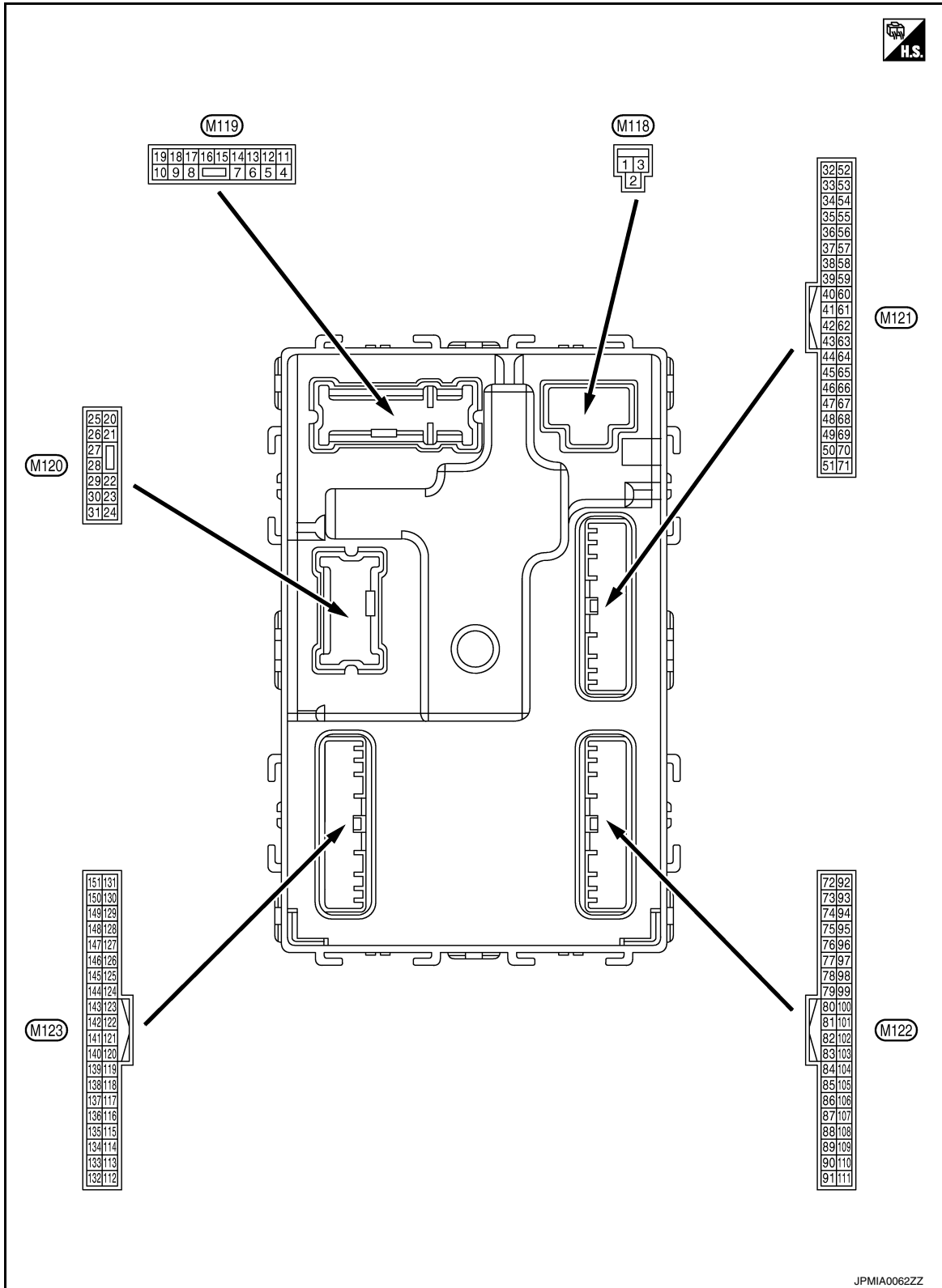
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|--------------|---|-------------------------------|-----|
| CONFIRM ID2 | The key ID that the key slot receives does not accord with the second key ID registered to BCM. | Yet | A |
| | The key ID that the key slot receives accords with the second key ID registered to BCM. | Done | B |
| CONFIRM ID1 | The key ID that the key slot receives does not accord with the first key ID registered to BCM. | Yet | C |
| | The key ID that the key slot receives accords with the first key ID registered to BCM. | Done | |
| TP 4 | The ID of fourth key is not registered to BCM | Yet | D |
| | The ID of fourth key is registered to BCM | Done | |
| TP 3 | The ID of third key is not registered to BCM | Yet | E |
| | The ID of third key is registered to BCM | Done | |
| TP 2 | The ID of second key is not registered to BCM | Yet | F |
| | The ID of second key is registered to BCM | Done | |
| TP 1 | The ID of first key is not registered to BCM | Yet | |
| | The ID of first key is registered to BCM | Done | |
| AIR PRESS FL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front LH tire | G |
| AIR PRESS FR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front RH tire | H |
| AIR PRESS RR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear RH tire | I |
| AIR PRESS RL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear LH tire | |
| ID REGST FL1 | ID of front LH tire transmitter is registered | Done | |
| | ID of front LH tire transmitter is not registered | Yet | ADP |
| ID REGST FR1 | ID of front RH tire transmitter is registered | Done | |
| | ID of front RH tire transmitter is not registered | Yet | |
| ID REGST RR1 | ID of rear RH tire transmitter is registered | Done | K |
| | ID of rear RH tire transmitter is not registered | Yet | |
| ID REGST RL1 | ID of rear LH tire transmitter is registered | Done | L |
| | ID of rear LH tire transmitter is not registered | Yet | |
| WARNING LAMP | Tire pressure indicator OFF | Off | |
| | Tire pressure indicator ON | On | M |
| BUZZER | Tire pressure warning alarm is not sounding | Off | |
| | Tire pressure warning alarm is sounding | On | N |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

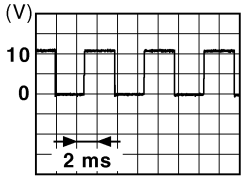
TERMINAL LAYOUT



PHYSICAL VALUES

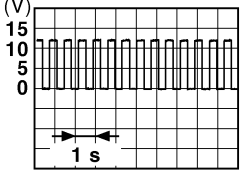
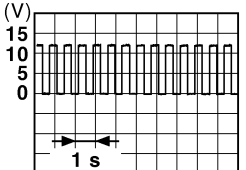
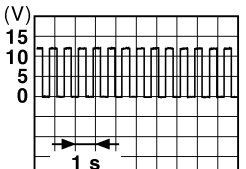
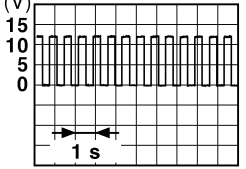
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|--------|---|--|--|
| | | | | | | |
| + | - | | | | | |
| 1 (W) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 2 (W) | Ground | P/W power supply (BAT) | Output | Ignition switch OFF | | Battery voltage |
| 3 (Y) | Ground | P/W power supply (RAP) | Output | Ignition switch ON | | Battery voltage |
| 4 (LG) | Ground | Interior room lamp power supply | Output | Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply) | | 0 V |
| | | | | Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply) | | Battery voltage |
| 5 (L) | Ground | Passenger door UN- LOCK | Output | Passenger door | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 7 (Y) | Ground | Step lamp | Output | Step lamp | ON | 0 V |
| | | | | | OFF | Battery voltage |
| 8 (V) | Ground | All doors, fuel lid LOCK | Output | All doors | LOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than LOCK (Actuator is not activated) | 0 V |
| 9 (G) | Ground | Driver door, fuel lid UNLOCK | Output | Driver door | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 10 (BR) | Ground | Rear RH door and rear LH door UN- LOCK | Output | Rear RH door and rear LH door | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 11 (R) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 13 (B) | Ground | Ground | — | Ignition switch ON | | 0 V |
| 14 (W) | Ground | Push-button ignition switch illumination ground | Output | Tail lamp | OFF | 0 V |
| | | | | | ON | <p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p> |
| 15 (Y) | Ground | ACC indicator lamp | Output | Ignition switch | OFF or ON | Battery voltage |
| | | | | | ACC | 0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---------------------------------|------------------|--|--|
| + | - | Signal name | Input/ Output | | |
| | | | | | |
| 17 (W) | Ground | Turn signal RH (Front, side) | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch RH |  6.5 V <small>PKID0926E</small> |
| 18 (BG) | Ground | Turn signal LH (Front, side) | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch LH |  6.5 V <small>PKID0926E</small> |
| 19 (V) | Ground | Room lamp timer control | Output | Interior room lamp | OFF Battery voltage |
| | | | | ON | 0 V |
| 20 (V) | Ground | Turn signal RH (Rear) | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch RH |  6.5 V <small>PKID0926E</small> |
| 23 (G) | Ground | Back door open | Output | Back door | OPEN (Back door opener actuator is activated) Battery voltage |
| | | | | Other than OPEN (Back door opener actuator is not activated) | 0 V |
| 25 (G) | Ground | Turn signal LH (Rear) | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch LH |  6.5 V <small>PKID0926E</small> |
| 26 (G) | Ground | Rear wiper | Output | Rear wiper | OFF (Stopped) 0 V |
| | | | | ON (Operated) | Battery voltage |

BCM (BODY CONTROL MODULE)

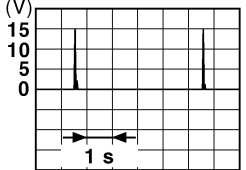
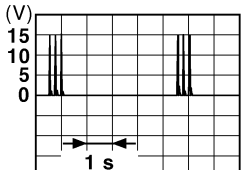
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--------------------------|------------------|---|--------------------|
| + | - | Signal name | Input/ Output | | |
| 34 (SB) | Ground | Luggage room antenna (-) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment | <p>JMKIA0063GB</p> |
| 35 (V) | Ground | Luggage room antenna (+) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment | <p>JMKIA0063GB</p> |
| 38 (B) | Ground | Back door antenna (-) | Output | When the back door opener request switch is operated with ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p>JMKIA0063GB</p> |

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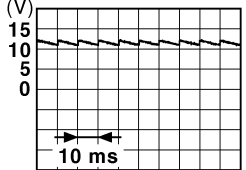
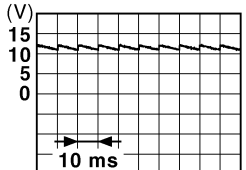
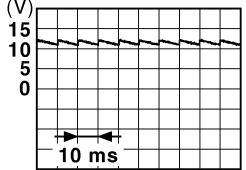
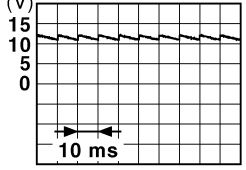
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 39 (W) | Ground | Back door antenna (+) | Output | When Intelligent Key is in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When the back door opener re- quest switch is operated with ig- nition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 47 (Y) | Ground | Ignition relay (IPDM E/R) control | Output | Ignition switch | OFF or ACC ON Battery voltage 0 V |
| | | | | 52 (SB) | Ground |
| 60 (BR) | Ground | Push-button ignition switch (Push switch) | Input | | |
| | | | | 61 (W) | Ground |
| 64 (V) | Ground | Intelligent Key warn- ing buzzer (Engine room) | Output | | |
| | | | | 65 (BG) | Ground |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

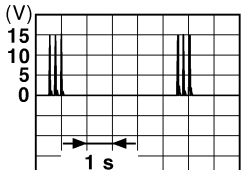
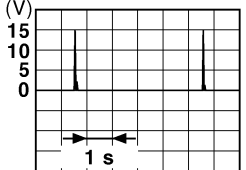
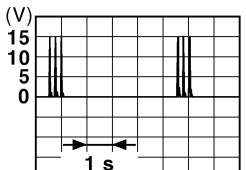
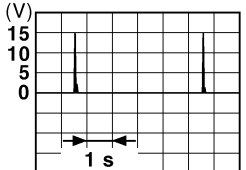
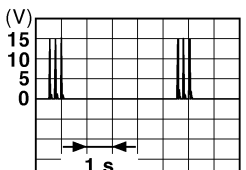
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------|------------------|-------------------------|--------------------|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 66 (R) | Ground | Back door switch | Input | Back door switch | OFF (Door close) |  <small>JPMIA0011GB</small> 11.8 V |
| | | | | | ON (Door open) | 0 V |
| 67 (GR) | Ground | Back door opener switch | Input | Back door opener switch | Pressed | 0 V |
| | | | | | Not pressed |  <small>JPMIA0011GB</small> 11.8 V |
| 68 (BR) | Ground | Rear RH door switch | Input | Rear RH door switch | OFF (Door close) |  <small>JPMIA0011GB</small> 11.8 V |
| | | | | | ON (Door open) | 0 V |
| 69 (R) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (Door close) |  <small>JPMIA0011GB</small> 11.8 V |
| | | | | | ON (Door open) | 0 V |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---------------------------------|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 72 (R) | Ground | Room antenna 2 (-) (Console) | Output | | |
| | | | | Ignition switch OFF | When Intelligent Key is not in the passenger compart- ment  <small>JMKIA0063GB</small> |
| 73 (G) | Ground | Room antenna 2 (+) (Console) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment  <small>JMKIA0062GB</small> |
| | | | | Ignition switch OFF | When Intelligent Key is not in the passenger compart- ment  <small>JMKIA0063GB</small> |
| 74 (SB) | Ground | Passenger door an- tenna (-) | Output | When the pas- senger door re- quest switch is operated with ig- nition switch OFF | When Intelligent Key is in the antenna detection area  <small>JMKIA0062GB</small> |
| | | | | When Intelligent Key is not in the antenna detection area | When Intelligent Key is not in the antenna detection area  <small>JMKIA0063GB</small> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

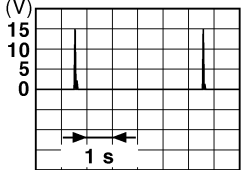
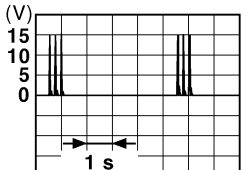
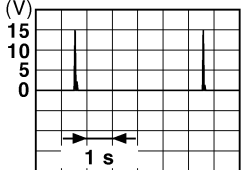
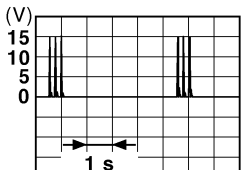
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|----------------------------|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 75 (GR) | Ground | Passenger door antenna (+) | Output | When Intelligent Key is in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 76 (V) | Ground | Driver door antenna (-) | Output | When Intelligent Key is in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 77 (LG) | Ground | Driver door antenna (+) | Output | When Intelligent Key is in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

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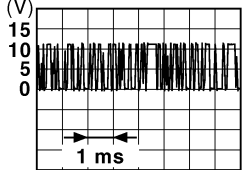
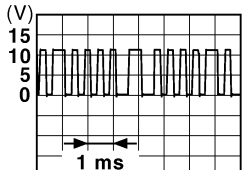
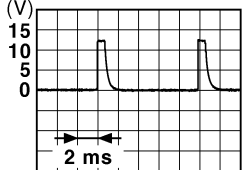
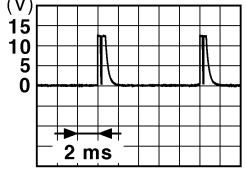
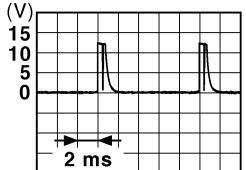

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|------------------------|--|
| + | - | Signal name | Input/ Output | | |
| 78 (Y) | Ground | Room antenna 1 (-) (Instrument panel) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compart- ment  JMKIA0063GB |
| 79 (BR) | Ground | Room antenna 1 (+) (Instrument panel) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compart- ment  JMKIA0063GB |
| 80 (GR) | Ground | NATS antenna amp. | Input/ Output | During waiting | Ignition switch is pressed while inserting the key into the key slot. Just after pressing ignition switch. Pointer of tester should move. |
| 81 (W) | Ground | NATS antenna amp. | Input/ Output | During waiting | Ignition switch is pressed while inserting the key into the key slot. Just after pressing ignition switch. Pointer of tester should move. |
| 82 (R) | Ground | Ignition relay [Fuse block (J/B)] control | Output | Ignition switch | OFF or ACC 0 V |
| | | | | ON | Battery voltage |

BCM (BODY CONTROL MODULE)

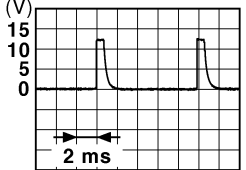
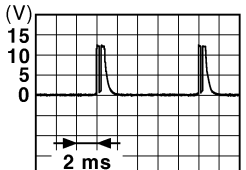

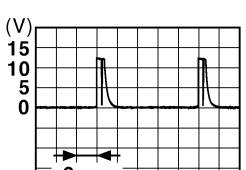
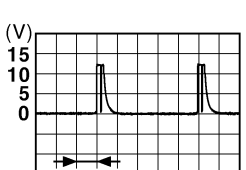
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|---|---|--|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 83 (Y) | Ground | Remote keyless entry receiver communication | Input/ Output | During waiting |  <p style="text-align: right; font-size: small;">JMKIA0064GB</p> | |
| | | | | When operating either button on the key |  <p style="text-align: right; font-size: small;">JMKIA0065GB</p> | |
| 87 (BR) | Ground | Combination switch INPUT 5 | Input | Combination switch | All switches OFF (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p> |
| | | | | | Front fog lamp switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 |  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p> |

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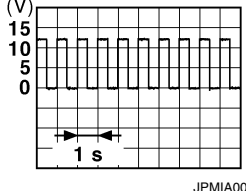
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|-----------------------|--|--|
| + | - | Signal name | Input/ Output | | | |
| 88 (V) | Ground | Combination switch INPUT 3 | Input | Combination switch | All switches OFF (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p> |
| | | | | | Lighting switch HI (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Rear washer switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Any of the conditions below with all switches OFF | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p> |
| 90 (P) | Ground | CAN-L | Input/ Output | — | — | |
| 91 (L) | Ground | CAN-H | Input/ Output | — | — | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

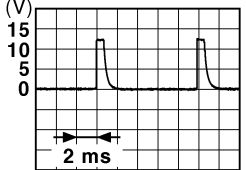

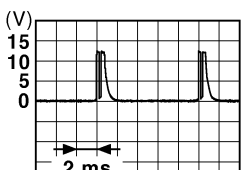
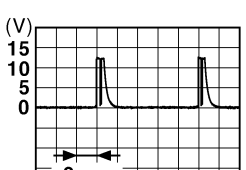
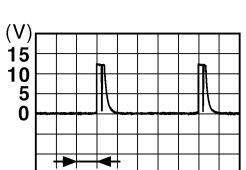
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|-------------------------------|--|
| + | - | Signal name | Input/ Output | | |
| 92 (LG) | Ground | Key slot illumination | Output | Key slot illumination | Battery voltage |
| | | | | Blinking |  6.5 V |
| 93 (V) | Ground | ON indicator lamp | Output | Ignition switch | OFF or ACC: Battery voltage ON: 0 V |
| | | | | Ignition switch | OFF: Battery voltage ON: 0 V |
| 94 (Y) | Ground | Puddle lamp control | Output | Puddle lamp | OFF: Battery voltage ON: 0 V |
| | | | | Puddle lamp | OFF: Battery voltage ON: 0 V |
| 95 (BG) | Ground | ACC relay control | Output | Ignition switch | OFF: 0 V ACC or ON: Battery voltage |
| | | | | Ignition switch | OFF: 0 V ACC or ON: Battery voltage |
| 96 (GR) | Ground | A/T shift selector (Detention switch) power supply | Output | — | Battery voltage |
| 99 (R) | Ground | Selector lever P position switch | Input | Selector lever | P position: 0 V Any position other than P: Battery voltage |
| | | | | Selector lever | P position: 0 V Any position other than P: Battery voltage |
| 100 (G) | Ground | Passenger door request switch | Input | Passenger door request switch | ON (Pressed): 0 V OFF (Not pressed): Battery voltage |
| | | | | Passenger door request switch | ON (Pressed): 0 V OFF (Not pressed): Battery voltage |
| 101 (SB) | Ground | Driver door request switch | Input | Driver door request switch | ON (Pressed): 0 V OFF (Not pressed): Battery voltage |
| | | | | Driver door request switch | ON (Pressed): 0 V OFF (Not pressed): Battery voltage |
| 102 (BG) | Ground | Blower fan motor relay control | Output | Ignition switch | OFF or ACC: 0 V ON: Battery voltage |
| | | | | Ignition switch | OFF or ACC: 0 V ON: Battery voltage |
| 103 (LG) | Ground | Remote keyless entry receiver power supply | Output | Ignition switch OFF | Battery voltage |

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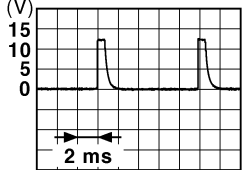
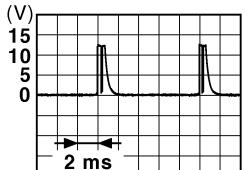

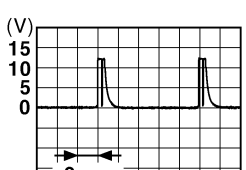

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|--|------------------------|---|
| + | - | Signal name | Input/ Output | | | |
| 107 (LG) | Ground | Combination switch INPUT 1 | Input | Combination switch (Wiper intermittent dial 4) | All switches OFF |  <p style="text-align: right;">1.4 V</p> |
| | | | | | Turn signal switch LH |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Turn signal switch RH |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Front wiper switch LO |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Front washer switch ON |  <p style="text-align: right;">1.3 V</p> |

BCM (BODY CONTROL MODULE)

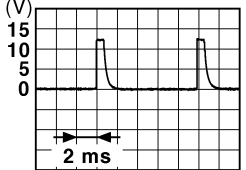

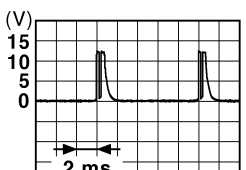
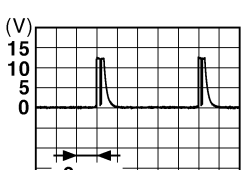
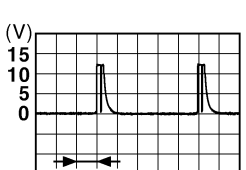
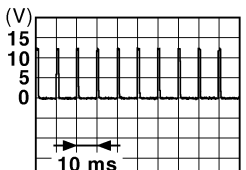
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|-----------------------|--|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 108 (R) | Ground | Combination switch INPUT 4 | Input | Combination switch | All switches OFF (Wiper intermittent dial 4) |  <p style="text-align: right;">1.4 V</p> |
| | | | | | Lighting switch AUTO (Wiper intermittent dial 4) |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Lighting switch 1ST (Wiper intermittent dial 4) |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Rear wiper switch INT (Wiper intermittent dial 4) |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Any of the conditions below with all switches OFF |  <p style="text-align: right;">1.3 V</p> |

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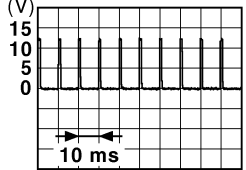
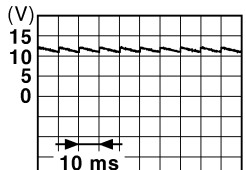
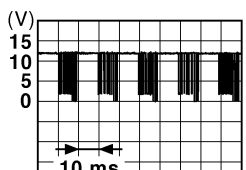
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|--|------------------------|--|
| + | - | Signal name | Input/ Output | | | |
| 109 (Y) | Ground | Combination switch INPUT 2 | Input | Combination switch (Wiper intermittent dial 4) | All switches OFF |  <p style="text-align: right;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p> |
| | | | | | Lighting switch PASS |  <p style="text-align: right;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Lighting switch 2ND |  <p style="text-align: right;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Front wiper switch INT |  <p style="text-align: right;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Front wiper switch HI |  <p style="text-align: right;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p> |
| 110 (G) | Ground | Hazard switch | Input | Hazard switch | ON | 0 V |
| | | | | Hazard switch | OFF |  <p style="text-align: right;">JPMIA0012GB</p> <p style="text-align: center;">1.1 V</p> |

BCM (BODY CONTROL MODULE)

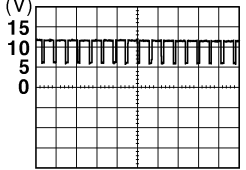
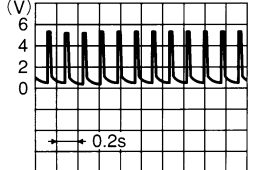

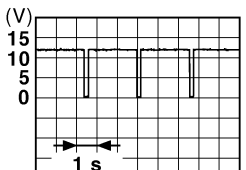
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) | |
|------------------------------|--------|--|------------------|---|---|---|---|
| | | Signal name | Input/ Output | | | | |
| + | - | | | | | | |
| 113 (P) | Ground | Optical sensor | Input | Ignition switch ON | When bright outside of the vehicle | Close to 5 V | A |
| | | | | | When dark outside of the vehicle | Close to 0 V | B |
| 116 (SB) | Ground | Stop lamp switch 1 | Input | — | | Battery voltage | C |
| 118 (P) | Ground | Stop lamp switch 2 (Without ICC) | Input | Stop lamp switch | OFF (Brake pedal is not depressed) | 0 V | D |
| | | | | | ON (Brake pedal is de- pressed) | Battery voltage | |
| | | Stop lamp switch 2 (With ICC) | | Stop lamp switch OFF (Brake pedal is not de- pressed) and ICC brake hold relay OFF | 0 V | E | |
| | | | | Stop lamp switch ON (Brake pedal is de- pressed) or ICC brake hold relay ON | Battery voltage | F | |
| 119 (SB) | Ground | Front door lock as- sembly driver side (Unlock sensor) | Input | Driver door | LOCK status (Unlock sensor switch OFF) |  1.1 V | G |
| | | | | | UNLOCK status (Unlock switch sensor ON) | 0 V | H |
| 121 (BR) | Ground | Key slot switch | Input | When the key is inserted into key slot | | Battery voltage | |
| | | | | When the key is not inserted into key slot | | 0 V | I |
| 123 (W) | Ground | IGN feedback | Input | Ignition switch | OFF or ACC | 0 V | |
| | | | | | ON | Battery voltage | K |
| 124 (LG) | Ground | Passenger door switch | Input | Passenger door switch | OFF (Door close) |  11.8 V | L |
| | | | | | ON (Door open) | 0 V | M |
| 132 (BR) | Ground | Power window switch communication | Input/ Output | Ignition switch ON |  10.2 V | N | |
| | | | | Ignition switch OFF or ACC | Battery voltage | O | |
| | | | | | | | P |

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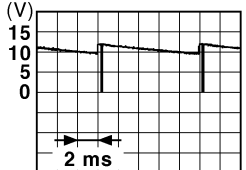
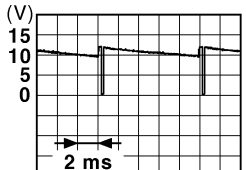
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|---|---|---|
| + | - | Signal name | Input/ Output | | | |
| 133 (W) | Ground | Push-button ignition switch illumination | Output | Push-button ignition switch illumination | ON (Tail lamps OFF) | 9.5 V |
| | | | | ON (Tail lamps ON) | <p>NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.</p>  <p style="text-align: right; font-size: small;">JPMIA0159GB</p> | |
| 134 (GR) | Ground | LOCK indicator lamp | Output | LOCK indicator lamp | OFF | Battery voltage |
| | | | | ON | 0 V | |
| 137 (BG) | Ground | Receiver and sensor ground | Input | Ignition switch ON | 0 V | |
| 138 (Y) | Ground | Receiver and sensor power supply | Output | Ignition switch | OFF | 0 V |
| | | | | ACC or ON | 5.0 V | |
| 139 (L) | Ground | Tire pressure receiv- er communication | Input/ Output | Ignition switch ON | Standby state |  <p style="text-align: right; font-size: small;">OCC3881D</p> |
| | | | | When receiving the signal from the transmitter |  <p style="text-align: right; font-size: small;">OCC3880D</p> | |
| 140 (GR) | Ground | Selector lever P/N position | Input | Selector lever | P or N position | Battery voltage |
| | | | | Except P and N positions | 0 V | |
| 141 (G) | Ground | Security indicator | Output | Security indicator | ON | 0 V |
| | | | | Blinking |  <p style="text-align: right; font-size: small;">JPMIA0014GB</p> | |
| | | | | OFF | Battery voltage | 11.3 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

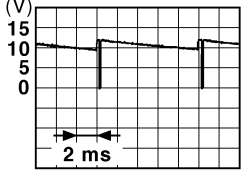
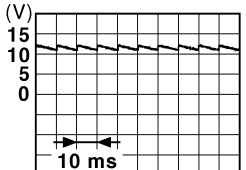
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|---|--------|--------------------------------|------------------|---|---|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 142 (BG) | Ground | Combination switch OUTPUT 5 | Output | Combination switch (Wiper intermit- tent dial 4) | All switches OFF | 0 V |
| | | | | | Lighting switch 1ST |  |
| | | | | | Lighting switch HI | |
| | | | | | Lighting switch 2ND | |
| | | | | | Turn signal switch RH | |
| | | | | | 10.7 V | |
| 143 (P) | Ground | Combination switch OUTPUT 1 | Output | Combination switch | All switches OFF (Wiper intermittent dial 4) | 0 V |
| | | | | | Front wiper switch HI (Wiper intermittent dial 4) |  |
| | | | | | Rear wiper switch INT (Wiper intermittent dial 4) | |
| | | | | | Any of the conditions below with all switches OFF | |
| | | | | | • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | |
| | | | | | 10.7 V | |
| 144 (G) | Ground | Combination switch OUTPUT 2 | Output | Combination switch | All switches OFF (Wiper intermittent dial 4) | 0 V |
| | | | | | Front washer switch ON (Wiper intermittent dial 4) |  |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) | |
| | | | | | Rear washer switch ON (Wiper intermittent dial 4) | |
| | | | | | Any of the conditions below with all switches OFF | |
| • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | | | | | | |
| | | | | | 10.7 V | |
| 145 (L) | Ground | Combination switch OUTPUT 3 | Output | Combination switch (Wiper intermit- tent dial 4) | All switches OFF | 0 V |
| | | | | | Front wiper switch INT |  |
| | | | | | Front wiper switch LO | |
| | | | | | Lighting switch AUTO | |
| | | | | | 10.7 V | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

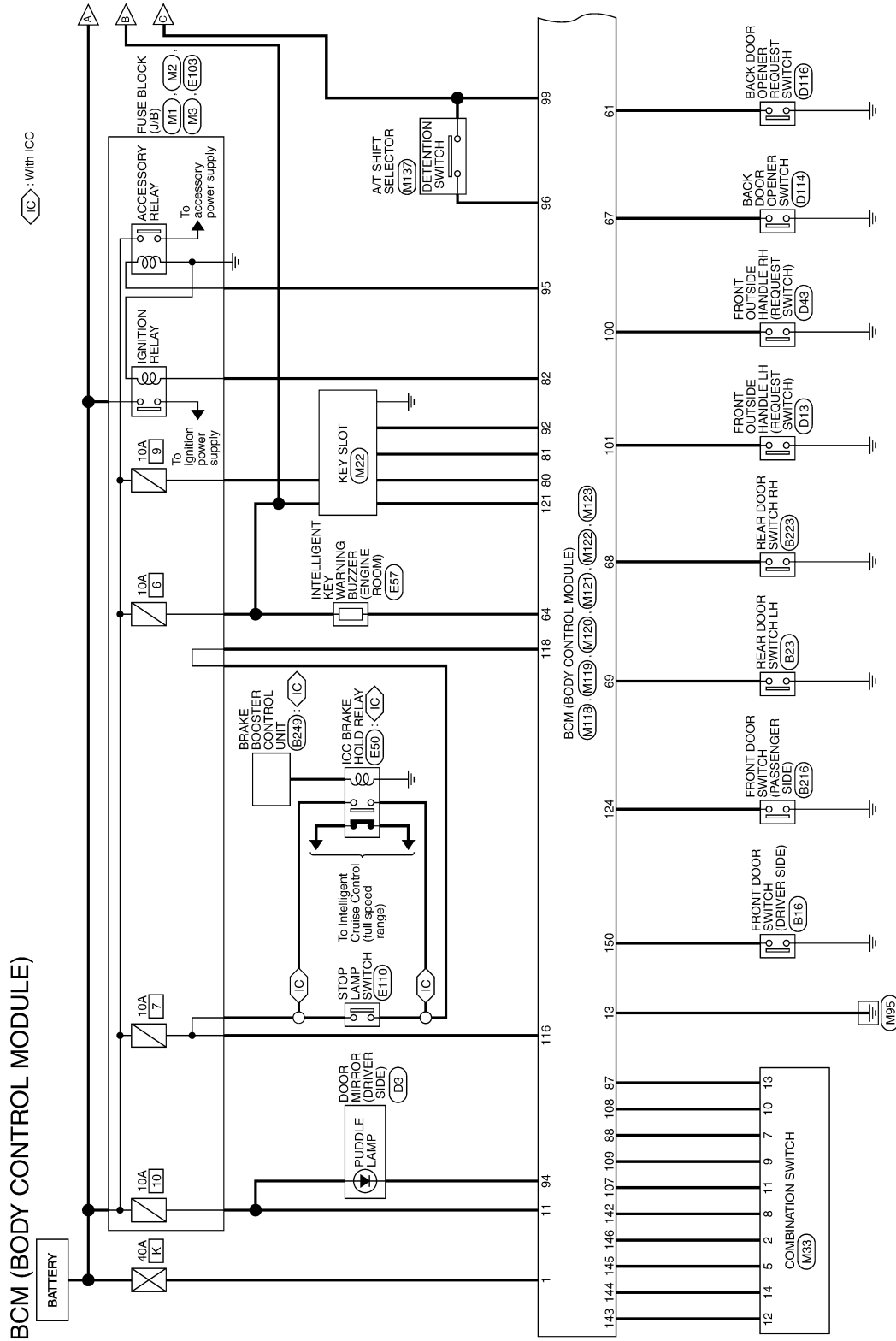
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|---|--------------------------|---|
| + | - | Signal name | Input/ Output | | | |
| 146 (SB) | Ground | Combination switch OUTPUT 4 | Output | Combination switch (Wiper intermit- tent dial 4) | All switches OFF | 0 V |
| | | | | | Front fog lamp switch ON |  |
| | | | | | Lighting switch 2ND | |
| | | | | | Lighting switch PASS | |
| | | | | | Turn signal switch LH | |
| 150 (LG) | Ground | Driver door switch | Input | Driver door switch | OFF (Door close) |  11.8 V |
| | | | | | ON (Door open) | 0 V |
| 151 (G) | Ground | Rear window defog- ger relay control | Output | Rear window de- fogger | Active | 0 V |
| | | | | Not activated | Battery voltage | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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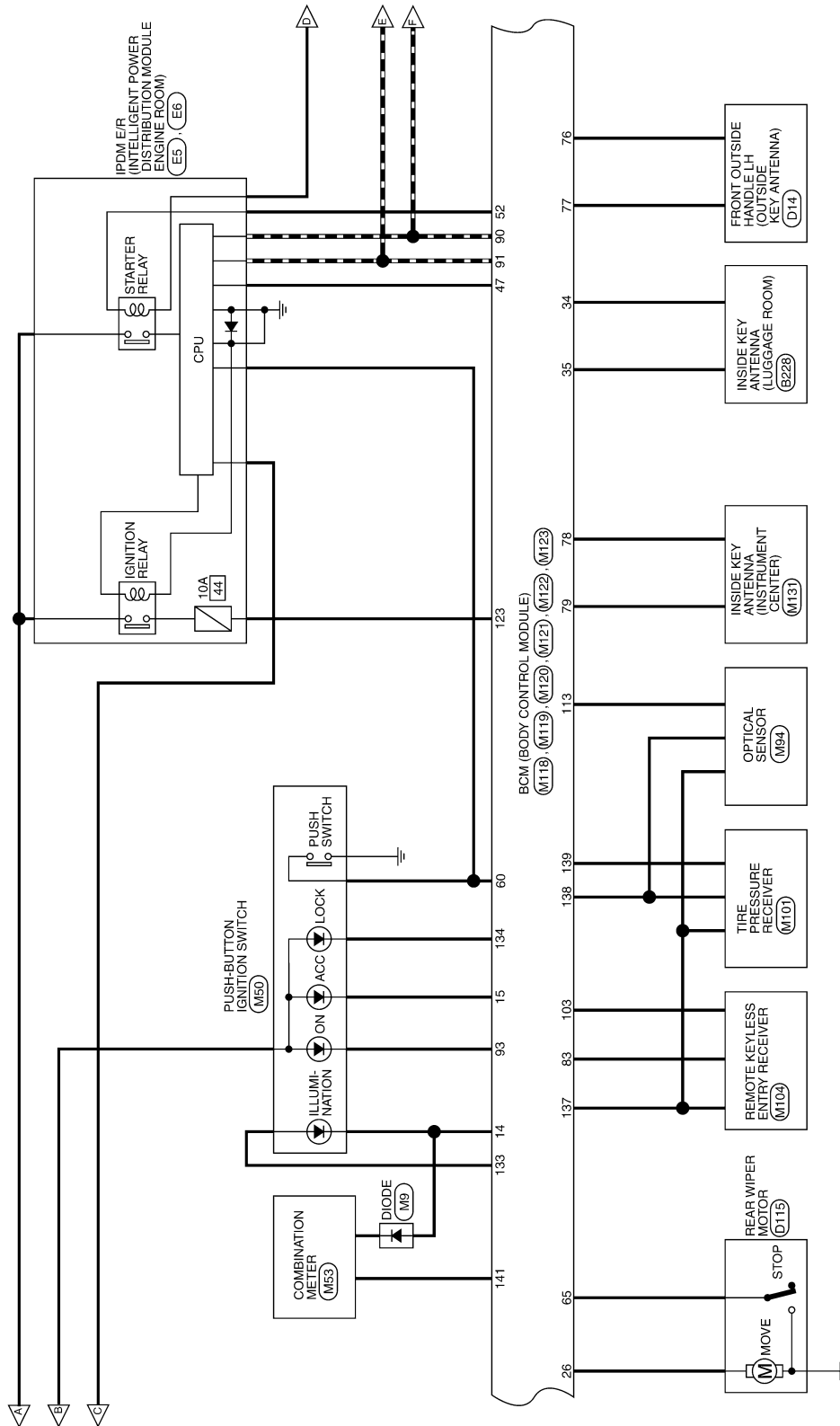
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JRMW13746GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

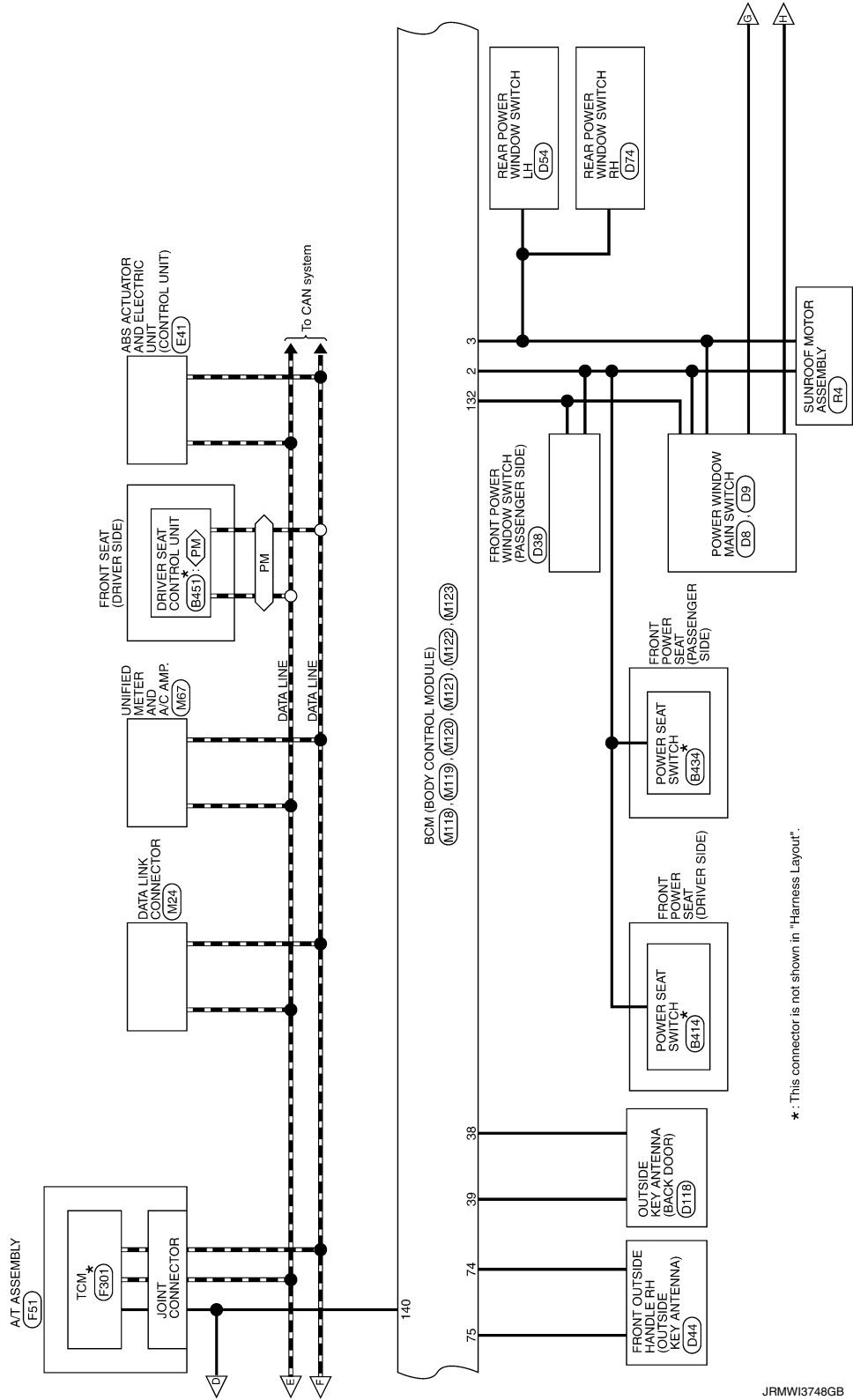


JRMW13747GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

◊(PM) : With automatic drive positioner

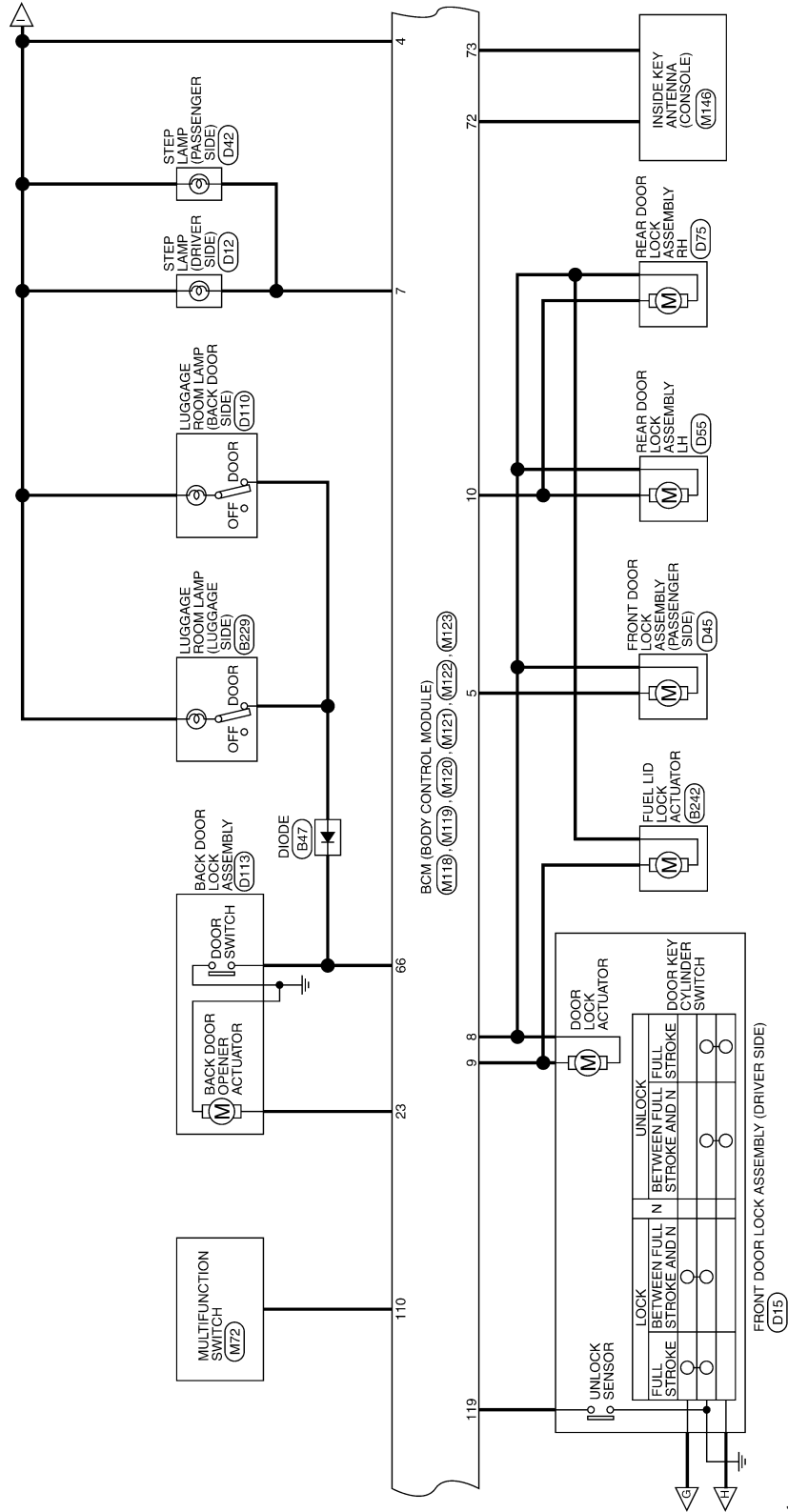


JRMW13748GB

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BCM (BODY CONTROL MODULE)

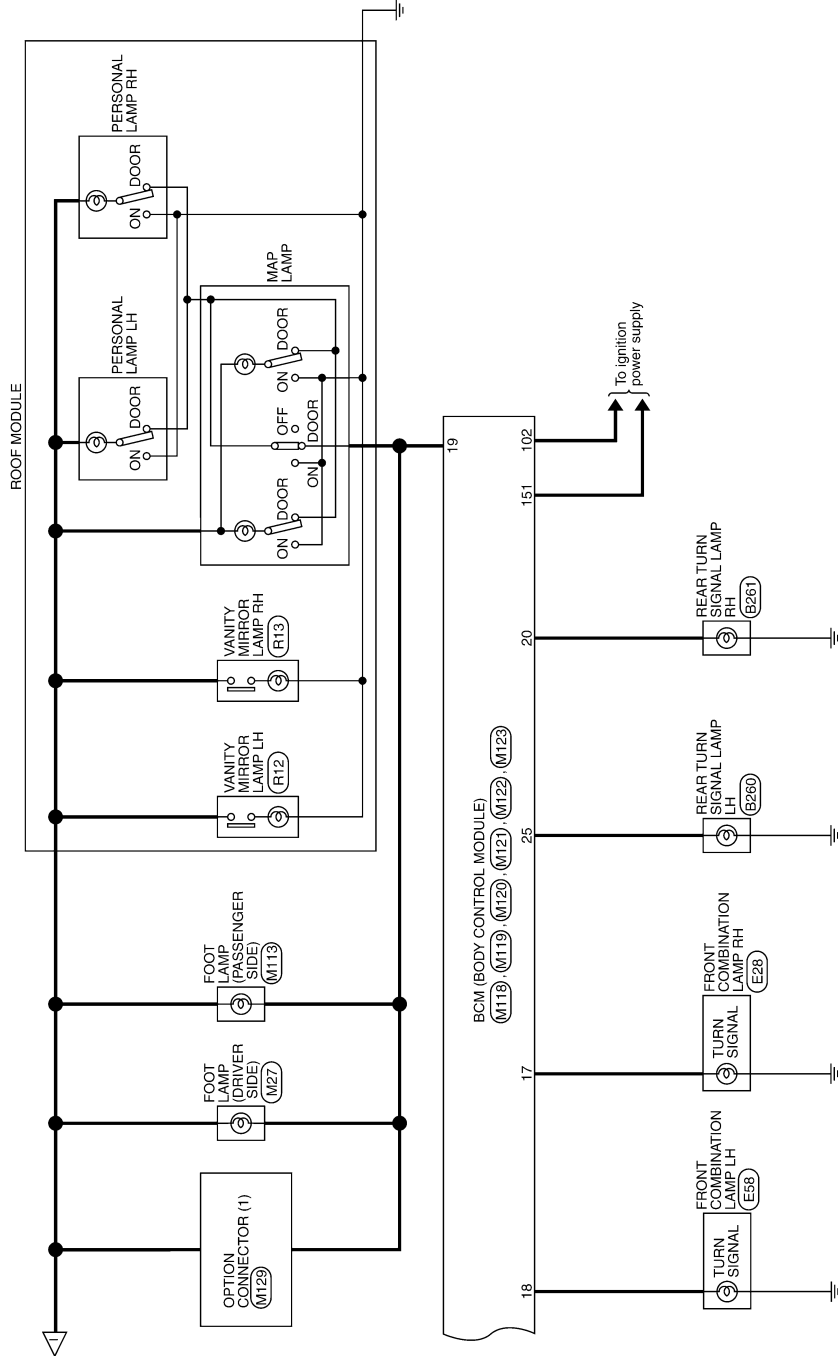
< ECU DIAGNOSIS INFORMATION >



JRMW13749GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JRMW13750GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

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



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

| | |
|----------------|---------------------|
| Connector No. | B23 |
| Connector Name | REAR DOOR SWITCH LH |
| Connector Type | A03FW |



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

| | |
|----------------|-------------|
| Connector No. | B47 |
| Connector Name | DIODE |
| Connector Type | Z133F_C9900 |



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

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| Connector No. | B21B |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) |
| Connector Type | A03FW |



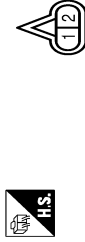
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | L | - |

| | |
|----------------|---------------------|
| Connector No. | B233 |
| Connector Name | REAR DOOR SWITCH RH |
| Connector Type | A03FW |



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

| | |
|----------------|-----------------------------------|
| Connector No. | B22B |
| Connector Name | INSIDE KEY ANTENNA (LUGGAGE ROOM) |
| Connector Type | RK02FCY |



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

| | |
|----------------|----------------------------------|
| Connector No. | B229 |
| Connector Name | LUGGAGE ROOM LAMP (LUGGAGE SIDE) |
| Connector Type | TR03FW |



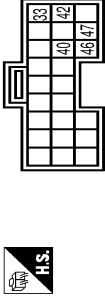
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | GR | - |
| 2 | L | - |

| | |
|----------------|------------------------|
| Connector No. | B24Z |
| Connector Name | FUEL LID LOCK ACTUATOR |
| Connector Type | M04FW-LC |



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

| | |
|----------------|----------------------------|
| Connector No. | B249 |
| Connector Name | BRAKE BOOSTER CONTROL UNIT |
| Connector Type | TR24FGY |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33 | BR | IGNITION |
| 40 | SB | IBA OFF SW |
| 42 | G | IGNITION |
| 46 | B | GROUND |
| 47 | V | BRAKE HOLD RLY DRIVE SIGNAL |

JRMW13751GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|--------------------------|
| Connector No. | B260 |
| Connector Name | REAR TURN SIGNAL LAMP LH |
| Connector Type | HS32FG-W |



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

| | |
|----------------|--------------------------|
| Connector No. | B261 |
| Connector Name | REAR TURN SIGNAL LAMP RH |
| Connector Type | HS32FG-W |



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

| | |
|----------------|-------------------|
| Connector No. | B414 |
| Connector Name | POWER SEAT SWITCH |
| Connector Type | NS10FW-CS |



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

| | |
|----------------|-------------------|
| Connector No. | B454 |
| Connector Name | POWER SEAT SWITCH |
| Connector Type | NS10FW-CS |



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

| | |
|----------------|--------------------------|
| Connector No. | B451 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Type | TH32HW |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | - | CAN-H |
| 2 | - | LIART (TX/RX) |
| 3 | - | - |
| 4 | - | PULSE (RECLINER) |
| 5 | - | PULSE (TELESCOPI) |
| 6 | - | ADDRESS 2 |
| 7 | - | IND 2 |
| 8 | - | SLIDE SW (BACKWARD) |
| 9 | - | RECLINER SW (BACKWARD) |
| 10 | - | FRONT LIFTER SW (DOWNWARD) |
| 11 | - | REAR LIFTER SW (DOWNWARD) |
| 12 | - | POWER SUPPLY (ENCODER) |
| 13 | - | PULSE (REAR LIFTER) |
| 14 | - | PULSE (FRONT LIFTER) |
| 15 | - | PULSE (REAR LIFTER) |
| 16 | - | PULSE (FRONT LIFTER) |
| 17 | - | PULSE (REAR LIFTER) |
| 18 | - | PULSE (FRONT LIFTER) |
| 19 | - | PULSE (REAR LIFTER) |
| 20 | - | PULSE (FRONT LIFTER) |
| 21 | - | PULSE (LIFT) |
| 22 | - | ADDRESS 1 |
| 23 | - | IND 1 |
| 24 | - | SLIDE SW (FORWARD) |
| 25 | - | RECLINER SW (FORWARD) |
| 26 | - | FRONT LIFTER SW (UPWARD) |
| 27 | - | REAR LIFTER SW (UPWARD) |
| 28 | - | SET SW |

| | |
|----------------|---------------------------|
| Connector No. | B3 |
| Connector Name | DOOR MIRROR (DRIVER SIDE) |
| Connector Type | TH24MW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | O | - |
| 3 | BR | COMP+ |
| 4 | P | COMP+ |
| 5 | SB | ON |
| 6 | SB | ON |
| 7 | W | - |
| 8 | G | - |
| 9 | G | - |
| 10 | G | - |
| 11 | P | - |
| 12 | O | - |
| 13 | LG | - |
| 14 | LG | - |
| 15 | LG | - |
| 16 | LG | - |
| 17 | SHIELD | COMP- |
| 18 | LG | - |
| 19 | B | - |
| 20 | GR | - |
| 21 | GR | - |
| 22 | BR | - |
| 23 | V | - |
| 24 | V | - |

| | |
|----------------|--------------------------|
| Connector No. | B8 |
| Connector Name | POWER WINDOW MAIN SWITCH |
| Connector Type | NS18FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | W | REAR POWER WINDOW MOTOR LH UP SIGNAL |
| 2 | BR | ENCODER GROUND |
| 3 | GR | REAR POWER WINDOW MOTOR LH DOWN SIGNAL |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | | |
|----|----|--|
| 4 | V | DOOR KEY CYLINDER SWITCH LH LOCK SIGNAL |
| 5 | O | REAR POWER WINDOW MOTOR RH/DOWN SIGNAL |
| 6 | Y | DOOR KEY CYLINDER SWITCH LH UNLOCK SIGNAL |
| 7 | BR | REAR POWER WINDOW MOTOR RH UP SIGNAL |
| 8 | L | FRONT POWER WINDOW MOTOR (DRIVER SIDE) UP SIGNAL |
| 9 | O | ENCODER PULSE 2 |
| 10 | Y | RETAINED POWER SIGNAL |
| 11 | G | FRONT POWER WINDOW MOTOR (DRIVER SIDE) DOWN SIGNAL |
| 13 | P | ENCODER PULSE 1 |
| 14 | V | POWER WINDOW SERIAL LINK |
| 15 | B | ENCODER POWER SUPPLY |

| | |
|----------------|--------------------------|
| Connector No. | D9 |
| Connector Name | POWER WINDOW MAIN SWITCH |
| Connector Type | NS303FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 17 | B | GROUND |
| 19 | W | BATTERY POWER SUPPLY |

| | |
|----------------|-------------------------|
| Connector No. | D12 |
| Connector Name | STEP LAMP (DRIVER SIDE) |
| Connector Type | TB02FW |



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

| | |
|----------------|--|
| Connector No. | D13 |
| Connector Name | FRONT OUTSIDE HANDLE LH (REQUEST SWITCH) |
| Connector Type | RK02FL |



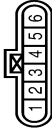
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | B | - |

| | |
|----------------|---|
| Connector No. | D14 |
| Connector Name | FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) |
| Connector Type | RK02MEY |



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

| | |
|----------------|--|
| Connector No. | D15 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) |
| Connector Type | ED0FGY-RS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | - |
| 2 | P | - |
| 3 | L | - |
| 4 | B | - |
| 5 | Y | - |
| 6 | V | - |

| | |
|----------------|--|
| Connector No. | D38 |
| Connector Name | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) |
| Connector Type | NS16FY-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 3 | L | ENCODER GROUND |
| 4 | O | ENCODER POWER SUPPLY |
| 8 | W | POWER WINDOW MOTOR UP SIGNAL |
| 9 | G | POWER WINDOW MOTOR DOWN SIGNAL |
| 10 | W | BATTERY POWER SUPPLY |
| 11 | B | GROUND |
| 12 | R | ENCODER PULSE 1 |
| 15 | O | ENCODER PULSE 2 |
| 16 | V | POWER WINDOW SERIAL LINK |

| | |
|----------------|----------------------------|
| Connector No. | D42 |
| Connector Name | STEP LAMP (PASSENGER SIDE) |
| Connector Type | TB02FW |



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

| | |
|----------------|--|
| Connector No. | D43 |
| Connector Name | FRONT OUTSIDE HANDLE RH (REQUEST SWITCH) |
| Connector Type | RK02FL |



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

JRMW13753GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|---|
| Connector No. | D44 |
| Connector Name | FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA) |
| Connector Type | RK02ZMGY |



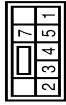
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | - |
| 2 | V | - |

| | |
|----------------|---|
| Connector No. | D45 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY PASSENGER SIDE |
| Connector Type | EB6FGY-RS |



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

| | |
|----------------|-----------------------------|
| Connector No. | D54 |
| Connector Name | REAR POWER WINDOW SWITCH LH |
| Connector Type | NS08FW-CS |



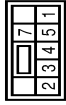
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | V | - |
| 3 | G | - |
| 4 | L | - |
| 5 | W | - |
| 7 | B | - |

| | |
|----------------|----------------------------|
| Connector No. | D55 |
| Connector Name | REAR DOOR LOCK ASSEMBLY LH |
| Connector Type | EB6FGY-RS |



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

| | |
|----------------|-----------------------------|
| Connector No. | D74 |
| Connector Name | REAR POWER WINDOW SWITCH RH |
| Connector Type | NS08FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | V | - |
| 3 | G | - |
| 4 | P | - |
| 5 | O | - |
| 7 | B | - |

| | |
|----------------|----------------------------|
| Connector No. | D75 |
| Connector Name | REAR DOOR LOCK ASSEMBLY RH |
| Connector Type | EB6FGY-RS |



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

| | |
|----------------|------------------------------------|
| Connector No. | D110 |
| Connector Name | LUGGAGE ROOM LAMP (BACK DOOR SIDE) |
| Connector Type | TK03FW |



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

| | |
|----------------|-------------------------|
| Connector No. | D113 |
| Connector Name | BACK DOOR LOCK ASSEMBLY |
| Connector Type | NS04FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | B | - |
| 3 | V | - |
| 4 | B | - |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|-------------------------|
| Connector No. | D114 |
| Connector Name | BACK DOOR OPENER SWITCH |
| Connector Type | T102ZMR-P |



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

| | |
|----------------|------------------|
| Connector No. | D115 |
| Connector Name | REAR WIPER MOTOR |
| Connector Type | CJ04FW-1V |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | G | - |
| 3 | O | - |
| 4 | B | - |

| | |
|----------------|---------------------------------|
| Connector No. | D116 |
| Connector Name | BACK DOOR OPENER REQUEST SWITCH |
| Connector Type | T102ZMR-P |



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

| | |
|----------------|---------------------------------|
| Connector No. | D118 |
| Connector Name | OUTSIDE KEY ANTENNA (BACK DOOR) |
| Connector Type | IRK02FGY |



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

| | |
|----------------|--|
| Connector No. | E5 |
| Connector Name | IPM F/R INTELLIGHT POWER DISTRIBUTION MODULE ENGINE ROOM |
| Connector Type | T120FW-C51Z-M-1V |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | V | - |
| 5 | L | - |
| 6 | R | - |
| 7 | R | - |
| 12 | B/W | - |
| 13 | Y | - |
| 16 | LG | - |
| 19 | W | - |
| 25 | G | - |
| 26 | R | - |
| 27 | BG | - |
| 28 | GR | - |
| 30 | G | - |

| | |
|----------------|--|
| Connector No. | E6 |
| Connector Name | IPM F/R INTELLIGHT POWER DISTRIBUTION MODULE ENGINE ROOM |
| Connector Type | T100PW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 39 | P | - |
| 40 | L | - |
| 41 | B/W | - |
| 43 | SB | - |
| 44 | BR | - |
| 45 | G | - |

| | |
|----------------|---|
| Connector No. | - |
| Connector Name | - |
| Connector Type | - |



| | |
|----------------|---------------------------|
| Connector No. | E28 |
| Connector Name | FRONT COMBINATION LAMP RH |
| Connector Type | RS08FE-PR |



| | |
|----------------|---|
| Connector No. | E41 |
| Connector Name | ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) |
| Connector Type | BAA42FB-AH24-LH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | GROUND |
| 3 | G | UBV2 |
| 4 | R | UBV1 |
| 5 | Y | GROUND |
| 6 | EG | DS FL |
| 7 | BR | DP RL |
| 9 | B | DP FR |
| 10 | W | DS FR |
| 12 | L | VAC |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | | |
|----|--------|------------|
| 14 | P | CON-L |
| 15 | SHIELD | GROUND |
| 18 | P | LIST |
| 25 | Y | BUS-L |
| 26 | LG | DP FL |
| 27 | GR | DS RL |
| 28 | G | LZ |
| 29 | LG | DS RR |
| 30 | SB | BLS |
| 31 | R | VDC OFF SW |
| 33 | L | CAN-H |
| 43 | B | BUS-H |

| | |
|----------------|-----------------------|
| Connector No. | E50 |
| Connector Name | IGCC BRAKE HOLD RELAY |
| Connector Type | M08FGY-R-JS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | P | - |
| 3 | P | - |
| 4 | SB | - |
| 6 | P | - |
| 7 | R | - |

| | |
|----------------|--|
| Connector No. | E57 |
| Connector Name | INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM) |
| Connector Type | RM03FBR |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | X | - |
| 3 | V | - |

| | |
|----------------|---------------------------|
| Connector No. | E58 |
| Connector Name | FRONT COMBINATION LAMP LH |
| Connector Type | RS08FB-PR |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | - |
| 3 | B/Y | - |
| 4 | B/W | - |
| 5 | V | - |
| 6 | G | - |
| 7 | P | - |
| 8 | BC | - |

| | |
|----------------|------------------|
| Connector No. | E103 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS18FW-CS |



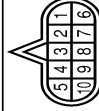
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11F | W | - |
| 1F | SB | - |
| 2F | W | - |
| 4F | G | - |
| 6F | BR | - |
| 8F | L | - |
| 9F | R | - |

| | |
|----------------|------------------|
| Connector No. | E110 |
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M06FW-LG |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | W | - |
| 3 | Y | - |
| 4 | SB | - |

| | |
|----------------|--------------|
| Connector No. | E51 |
| Connector Name | A/T ASSEMBLY |
| Connector Type | FK18FC-D5Y |



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

| | |
|----------------|--------|
| Connector No. | E301 |
| Connector Name | TCM |
| Connector Type | SP10FG |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | - | IGNITION POWER SUPPLY |
| 2 | - | BATTERY POWER SUPPLY |
| 3 | - | CAN-H |
| 4 | - | K-LINE |
| 5 | - | GROUND |
| 6 | - | IGNITION POWER SUPPLY |
| 7 | - | BACK-UP LAMP RELAY |
| 8 | - | CAN-L |
| 9 | - | STARTER RELAY |
| 10 | - | GROUND |

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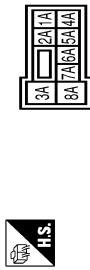
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

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



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

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3B | P | - |
| 4B | G | - |
| 5B | Y | - |
| 6B | P | - |
| 7B | R | - |
| 8B | R | - |
| 9B | SB | - |

| | |
|----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 10C | L | - |
| 11C | R | - |
| 12C | BG | - |
| 6C | R | - |
| 7C | B | - |
| 8C | G | - |
| 9C | BG | - |

| | |
|----------------|------------|
| Connector No. | M9 |
| Connector Name | DIODE |
| Connector Type | 2435 CB960 |



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

| | |
|----------------|-----------|
| Connector No. | M22 |
| Connector Name | KEY SLOT |
| Connector Type | TH12FW-NH |



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

| | |
|----------------|---------------------|
| Connector No. | M24 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | ED10FW |



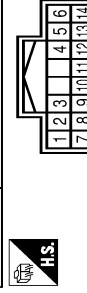
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | LG | - |
| 4 | B | - |
| 5 | V | - |
| 6 | B | - |
| 7 | Y | - |
| 8 | G | - |
| 11 | SB | - |
| 14 | P | - |
| 16 | Y | - |

| | |
|----------------|-------------------------|
| Connector No. | M27 |
| Connector Name | FOOT LAMP (DRIVER SIDE) |
| Connector Type | A02FW |



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

| | |
|----------------|--------------------|
| Connector No. | M33 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH18FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | FR WASHER(-) |
| 2 | SB | OUTPUT 4 |
| 3 | GR | FR WASHER(+) |
| 4 | G | IGN |
| 5 | L | OUTPUT 3 |
| 6 | B | GROUND |
| 7 | V | INPUT 3 |
| 8 | BG | OUTPUT 5 |
| 9 | Y | OUTPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|-----------------------------|
| Connector No. | M50 |
| Connector Name | PUSH-BUTTON IGNITION SWITCH |
| Connector Type | TK08FBR |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | W | - |
| 3 | W | - |
| 4 | BR | - |
| 5 | GR | - |
| 6 | Y | - |
| 7 | P | - |
| 8 | V | - |



| | |
|----------------|-------------------|
| Connector No. | M53 |
| Connector Name | COMBINATION METER |
| Connector Type | TH40FPN-NH |

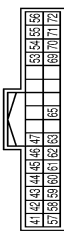


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 1 | GR | BATTERY POWER SUPPLY |
| 2 | LG | COMMUNICATION SIGNAL (METER->AMP) |
| 3 | GR | COMMUNICATION SIGNAL (AMP->METER) |
| 4 | B | ALTERNATOR SIGNAL |
| 5 | B | AIR BAG SIGNAL |
| 6 | BR | SECURITY SIGNAL |
| 7 | GR | GROUND |
| 8 | B | METER CONTROL SWITCH GROUND |
| 9 | B | ILL GND |
| 10 | R | ILL |
| 11 | EG | IGNITION SIGNAL |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 22 | B | GROUND |
| 24 | BR | COMMUNICATION SIGNAL (GDP->AMP) |
| 25 | Y | COMMUNICATION SIGNAL (AMP->LCD) |
| 26 | R | VEHICLE SPEED SIGNAL (B-FULSE) |
| 27 | V | PARKING BRAKE SWITCH SIGNAL |
| 28 | W | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 29 | SB | SEAT BELT BRUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 30 | G | SEAT BELT BRUCKLE SWITCH SIGNAL (PASSENGER SIDE) |
| 31 | L | WASHER LEVEL SWITCH SIGNAL |
| 33 | B | ILLUMINATION CONTROL SIGNAL |
| 38 | LG | SELECT SWITCH SIGNAL |
| 37 | SB | ENTER SWITCH SIGNAL |
| 38 | L | TRIP X/P RESET SWITCH SIGNAL |
| 39 | B | ILLUMINATION CONTROL SWITCH SIGNAL (C) |
| 40 | EG | ILLUMINATION CONTROL SWITCH SIGNAL (C) |



| | |
|----------------|----------------------------|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH |

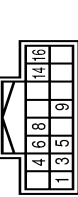


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 41 | V | ACC POWER SUPPLY |
| 42 | Y | FUEL LEVEL SENSOR SIGNAL |
| 43 | R | INTAKE SENSOR SIGNAL |
| 44 | LG | IN-VEHICLE SENSOR SIGNAL |
| 45 | P | AMBIENT SENSOR SIGNAL |
| 46 | BG | SUNLOAD SENSOR SIGNAL |
| 47 | G | IGNITION POWER SUPPLY |
| 53 | G | IGNITION POWER SUPPLY |
| 54 | Y | BATTERY POWER SUPPLY |
| 55 | B | GROUND |
| 56 | W | GROUND |
| 57 | W | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 58 | BR | FUEL LEVEL SENSOR GROUND |
| 59 | GR | INTAKE SENSOR GROUND |
| 60 | L | IN-VEHICLE SENSOR GROUND |
| 61 | BR | AMBIENT SENSOR GROUND |
| 62 | SB | SUNLOAD SENSOR GROUND |
| 63 | R | - |
| 65 | BG | ECV SIGNAL |

| | | |
|----|---|------------------------------|
| 6B | L | A/C CLAN SIGNAL |
| 70 | R | EACH DOOR MOTOR POWER SUPPLY |
| 71 | B | GROUND |
| 72 | P | CAN-L |



| | |
|----------------|----------------------|
| Connector No. | MTZ |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH10FW-NH |



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

| | |
|----------------|----------------|
| Connector No. | M84 |
| Connector Name | OPTICAL SENSOR |
| Connector Type | TK00PW |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | POWER |
| 2 | P | OUTPUT |
| 3 | B | GROUND |

| | |
|----------------|------------------------|
| Connector No. | M101 |
| Connector Name | TIRE PRESSURE RECEIVER |
| Connector Type | TK04FW |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | GROUND |
| 2 | EG | SIGNAL |
| 4 | Y | BATTERY |

| | |
|----------------|-------------------------------|
| Connector No. | M104 |
| Connector Name | REMOTE KEYLESS ENTRY RECEIVER |
| Connector Type | JAB04FB |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | GROUND |
| 2 | Y | SIGNAL OUTPUT |
| 4 | LG | BATTERY |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|----------------------------|
| Connector No. | M113 |
| Connector Name | FOOT LAMP (PASSENGER SIDE) |
| Connector Type | A02FW |



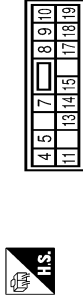
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | BR | - |

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



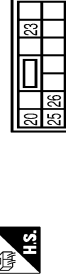
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 1 | W | BAT (F/L) |
| 2 | W | POWER WINDOW POWER SUPPLY(BAT) |
| 3 | Y | POWER WINDOW POWER SUPPLY(TRAP) |

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS12FW-CS |



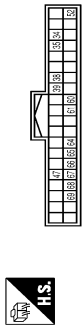
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 4 | LG | INTERIOR ROOM LAMP POWER SUPPLY |
| 5 | SB | PASSENGER DOOR UNLOCK OUTPUT |
| 7 | Y | STEP LAMP CONT |
| 8 | V | ALL DOOR FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR FUEL LID UNLOCK OUTPUT |
| 10 | BR | REAR DOOR UNLOCK OUTPUT |
| 11 | R | BAT (FUSE) |
| 13 | B | GROUND |
| 14 | W | PUSH-BUTTON IGNITION SW ILL GND |
| 15 | Y | ZACC IND |
| 17 | W | TURN SIGNAL RH (FRONT) |
| 18 | BG | TURN SIGNAL LH (FRONT) |
| 19 | V | INT ROOM LAMP CONT |

| | |
|----------------|---------------------------|
| Connector No. | M120 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS12FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 20 | V | TURN SIGNAL RH (REAR) |
| 23 | G | BACK DOOR OPEN OUTPUT |
| 25 | G | TURN SIGNAL LH (REAR) |
| 26 | G | REAR WIPER OUTPUT |

| | |
|----------------|---------------------------|
| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FCY-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------|
| 34 | SB | LUGGAGE ROOM ANT- |
| 35 | V | LUGGAGE ROOM ANT+ |
| 38 | B | BACK DOOR ANT- |
| 39 | W | BACK DOOR ANT+ |
| 47 | Y | IGN RELAY (PDM F/R) CONT |
| 52 | SB | STARTER RELAY CONT |
| 60 | BR | PUSH SW |
| 61 | W | BACK DOOR OPENER REQUEST SW |
| 64 | V | I-KEY WARN BUZZER (ENG ROOM) |
| 65 | BG | BACK DOOR SW |
| 66 | R | BACK DOOR SW |
| 67 | GR | BACK DOOR SW |
| 68 | BR | REAR LH DOOR SW |
| 69 | R | REAR LH DOOR SW |

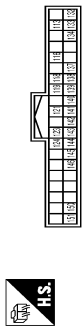
| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40PE-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 72 | R | ROOM ANT2 - |
| 73 | G | ROOM ANT2 + |
| 74 | SB | PASSENGER DOOR ANT- |
| 75 | GR | PASSENGER DOOR ANT+ |
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |

| | | |
|-----|----|-------------------------------------|
| 78 | Y | ROOM ANT1- |
| 79 | BR | ROOM ANT1+ |
| 80 | GR | MATS ANT AMP. |
| 81 | W | MATS ANT AMP. |
| 82 | R | IGN RELAY (F/B) CONT |
| 83 | Y | KEYLESS ENTRY RECEIVER COMM |
| 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 CONT |
| 93 | V | IGN IND |
| 94 | Y | PUSH SW CONT |
| 95 | BG | ZACC RELAY CONT |
| 96 | GR | A.T SHIFT SELECTOR POWER SUPPLY |
| 89 | R | SHIFT P |
| 100 | G | PASSENGER DOOR REQUEST SW |
| 101 | SB | DRIVER DOOR REQUEST SW |
| 102 | EG | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | 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 | TH40FC-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 111 | SB | OPTICAL SENSOR |
| 116 | SB | 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 | BR | POWER WINDOW SW COMM |
| 133 | W | PUSH-BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | | |
|-----|----|---------------------------------|
| 137 | BG | RECEIVER SENSOR GND |
| 138 | Y | RECEIVER SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESSURE RECEIVER COMM |
| 140 | GR | SHIFT N/P |
| 141 | G | SECURITY IND LAMP GNDT |
| 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 | LG | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

| | |
|----------------|----------------------|
| Connector No. | M129 |
| Connector Name | OPTION CONNECTOR (1) |
| Connector Type | TH408MW-NH |



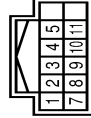
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | G | - |
| 6 | R | - |

| | |
|----------------|--------------------------------------|
| Connector No. | M131 |
| Connector Name | INSIDE KEY ANTENNA INSTRUMENT CENTER |
| Connector Type | RK02FGY |



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

| | |
|----------------|--------------------|
| Connector No. | M137 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Type | TH1ZFW-NH |



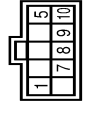
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | V | - |
| 3 | L | - |
| 4 | B | - |
| 5 | G | - |
| 7 | R | - |
| 8 | SB | - |
| 9 | B | - |
| 10 | GR | - |
| 11 | R | - |

| | |
|----------------|------------------------------|
| Connector No. | M146 |
| Connector Name | INSIDE KEY ANTENNA (CONSOLE) |
| Connector Type | RK02FGY |



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

| | |
|----------------|------------------------|
| Connector No. | R4 |
| Connector Name | SUNROOF MOTOR ASSEMBLY |
| Connector Type | YEA10FGY |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 1 | GR | SUNROOF CLOSE SWITCH (BITD) SIGNAL |
| 5 | P | SUNROOF OPEN SWITCH (BITD) SIGNAL |
| 7 | BR | SUNROOF POWER SUPPLY |
| 8 | L | VEHICLE SPEED SENSOR (2PULSE) |
| 9 | Y | PAP SIGNAL |
| 10 | G | GROUND |

| | |
|----------------|-----------------------|
| Connector No. | RI12 |
| Connector Name | VANITY MIRROR LAMP LH |
| Connector Type | MC2A0ZFW |



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

| | |
|----------------|-----------------------|
| Connector No. | RI2 |
| Connector Name | VANITY MIRROR LAMP RH |
| Connector Type | MC2A0ZFW |



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

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Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

JRMWI3760GB

INFOID:000000012828198

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|---|---|
| B2190: NATS ANTENNA AMP | Inhibit engine cranking | Erase DTC |
| B2191: DIFFERENCE OF KEY | Inhibit engine cranking | Erase DTC |
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |
| B2560: STARTER CONT RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN) |
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN) |
| B2617: STARTER RELAY CIRC | Inhibit engine cranking | 1 second after the starter motor relay control inside BCM becomes normal |
| B2618: BCM | Inhibit engine cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization |

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000012828199

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

| Priority | DTC |
|----------|---|
| 1 | B2562: LOW VOLTAGE |
| 2 | <ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) |
| 3 | <ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Priority | DTC | |
|-----------------------------|-----------------------------|---|
| 4 | • B2553: IGNITION RELAY | A |
| | • B2555: STOP LAMP | |
| | • B2556: PUSH-BTN IGN SW | B |
| | • B2557: VEHICLE SPEED | |
| | • B2560: STARTER CONT RELAY | C |
| | • B2601: SHIFT POSITION | |
| | • B2602: SHIFT POSITION | D |
| | • B2603: SHIFT POSI STATUS | |
| | • B2604: PNP SW | E |
| | • B2605: PNP SW | |
| | • B2608: STARTER RELAY | F |
| | • B260A: IGNITION RELAY | |
| | • B260F: ENG STATE SIG LOST | G |
| | • B2614: ACC RELAY CIRC | |
| | • B2615: BLOWER RELAY CIRC | |
| | • B2616: IGN RELAY CIRC | |
| | • B2617: STARTER RELAY CIRC | |
| | • B2618: BCM | |
| | • B261A: PUSH-BTN IGN SW | |
| | • B261E: VEHICLE TYPE | |
| • B26EA: KEY REGISTRATION | | |
| • C1729: VHCL SPEED SIG ERR | | |
| • U0415: VEHICLE SPEED SIG | | |
| 5 | • C1704: LOW PRESSURE FL | H |
| | • C1705: LOW PRESSURE FR | |
| | • C1706: LOW PRESSURE RR | |
| | • C1707: LOW PRESSURE RL | |
| | • C1708: [NO DATA] FL | |
| | • C1709: [NO DATA] FR | |
| | • C1710: [NO DATA] RR | |
| | • C1711: [NO DATA] RL | |
| | • C1716: [PRESSDATA ERR] FL | |
| | • C1717: [PRESSDATA ERR] FR | |
| | • C1718: [PRESSDATA ERR] RR | |
| | • C1719: [PRESSDATA ERR] RL | |
| | • C1734: CONTROL UNIT | |
| 6 | • B2621: INSIDE ANTENNA | K |
| | • B2622: INSIDE ANTENNA | |
| | • B2623: INSIDE ANTENNA | |

ADP

DTC Index

INFOID:0000000012828200

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-18. "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference |
|---|-----------|--|---------------------------------|---------------------------------------|------------------------|
| No DTC is detected. Further testing may be required. | — | — | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | — | — | BCS-41 |
| U1010: CONTROL UNIT (CAN) | — | — | — | — | BCS-42 |
| U0415: VEHICLE SPEED SIG | — | — | — | — | BCS-43 |
| B2190: NATS ANTENNA AMP | × | — | — | — | SEC-40 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference |
|---------------------------|-----------|--|---------------------------------|---------------------------------------|------------------------|
| B2191: DIFFERENCE OF KEY | × | — | — | — | SEC-43 |
| B2192: ID DISCORD BCM-ECM | × | — | — | — | SEC-44 |
| B2193: CHAIN OF BCM-ECM | × | — | — | — | SEC-45 |
| B2195: ANTI SCANNING | × | — | — | — | SEC-46 |
| B2553: IGNITION RELAY | — | × | — | — | PCS-52 |
| B2555: STOP LAMP | — | × | — | — | SEC-47 |
| B2556: PUSH-BTN IGN SW | — | × | × | — | SEC-49 |
| B2557: VEHICLE SPEED | × | × | × | — | SEC-51 |
| B2560: STARTER CONT RELAY | × | × | × | — | SEC-52 |
| B2562: LOW VOLTAGE | — | × | — | — | BCS-44 |
| B2601: SHIFT POSITION | × | × | × | — | SEC-53 |
| B2602: SHIFT POSITION | × | × | × | — | SEC-56 |
| B2603: SHIFT POSI STATUS | × | × | × | — | SEC-59 |
| B2604: PNP SW | × | × | × | — | SEC-62 |
| B2605: PNP SW | × | × | × | — | SEC-64 |
| B2608: STARTER RELAY | × | × | × | — | SEC-66 |
| B260A: IGNITION RELAY | × | × | × | — | PCS-54 |
| B260F: ENG STATE SIG LOST | × | × | × | — | SEC-68 |
| B2614: ACC RELAY CIRC | — | × | × | — | PCS-56 |
| B2615: BLOWER RELAY CIRC | — | × | × | — | PCS-59 |
| B2616: IGN RELAY CIRC | — | × | × | — | PCS-62 |
| B2617: STARTER RELAY CIRC | × | × | × | — | SEC-71 |
| B2618: BCM | × | × | × | — | PCS-65 |
| B261A: PUSH-BTN IGN SW | — | × | × | — | SEC-73 |
| B261E: VEHICLE TYPE | × | × | × (Turn ON for 15 seconds) | — | SEC-76 |
| B2621: INSIDE ANTENNA | — | × | — | — | DLK-58 |
| B2622: INSIDE ANTENNA | — | × | — | — | DLK-60 |
| B2623: INSIDE ANTENNA | — | × | — | — | DLK-62 |
| B26E1: ENG STATE NO RES | × | × | × | — | SEC-69 |
| B26EA: KEY REGISTRATION | — | × | × (Turn ON for 15 seconds) | — | SEC-70 |
| C1704: LOW PRESSURE FL | — | — | — | × | WT-25 |
| C1705: LOW PRESSURE FR | — | — | — | × | |
| C1706: LOW PRESSURE RR | — | — | — | × | |
| C1707: LOW PRESSURE RL | — | — | — | × | |
| C1708: [NO DATA] FL | — | — | — | × | WT-27 |
| C1709: [NO DATA] FR | — | — | — | × | |
| C1710: [NO DATA] RR | — | — | — | × | |
| C1711: [NO DATA] RL | — | — | — | × | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference |
|---------------------------|-----------|--|---------------------------------|---------------------------------------|-----------|
| C1716: [PRESSDATA ERR] FL | — | — | — | × | WT-30 |
| C1717: [PRESSDATA ERR] FR | — | — | — | × | |
| C1718: [PRESSDATA ERR] RR | — | — | — | × | |
| C1719: [PRESSDATA ERR] RL | — | — | — | × | |
| C1729: VHCL SPEED SIG ERR | — | — | — | × | WT-32 |
| C1734: CONTROL UNIT | — | — | — | × | WT-34 |

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MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000012170630

1. CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check driver seat control unit power supply and ground circuit.

Refer to [ADP-56. "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit.

Refer to [ADP-57. "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

POWER SEAT

POWER SEAT : Diagnosis Procedure

INFOID:000000012170631

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to [ADP-79. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

STEERING POSITION FUNCTION DOES NOT OPERATE

STEERING POSITION FUNCTION DOES NOT OPERATE : Diagnosis Procedure

INFOID:000000012170632

1. CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Check tilt & telescopic switch ground circuit.

Refer to [ADP-80. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2. CONFIRM THE OPERATION

MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).
NO >> GO TO 1.

SEAT SLIDING

SEAT SLIDING : Diagnosis Procedure

INFOID:000000012170633

1.CHECK SLIDING MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace the malfunction parts.

2.CHECK SLIDING SWITCH

Check sliding switch.

Refer to [ADP-59. "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.

3.CHECK SLIDING MOTOR

Check sliding motor.

Refer to [ADP-103. "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace the malfunction parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).
NO >> GO TO 1.

SEAT RECLINING

SEAT RECLINING : Diagnosis Procedure

INFOID:000000012170634

1.CHECK RECLINING MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace the malfunction parts.

2.CHECK RECLINING SWITCH

Check reclining switch.

Refer to [ADP-61. "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.

3.CHECK RECLINING MOTOR

Check reclining motor.

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MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Refer to [ADP-105. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

SEAT LIFTING (FRONT)

SEAT LIFTING (FRONT) : Diagnosis Procedure

INFOID:000000012170635

1. CHECK LIFTING (FRONT) MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Refer to [ADP-63. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to [ADP-107. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR) : Diagnosis Procedure

INFOID:000000012170636

1. CHECK LIFTING (REAR) MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to [ADP-65. "Component Function Check"](#).

MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 3. A
NO >> Repair or replace the malfunction parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear). B
Refer to [ADP-109, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4. C
NO >> Repair or replace the malfunction parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#). D
NO >> GO TO 1. E

STEERING TILT

STEERING TILT : Diagnosis Procedure

INFOID:0000000012170637

1.CHECK STEERING TILT MECHANISM

Check for the following. F
• Mechanism deformation or pinched foreign materials.
• Interference with other parts because of poor installation. G

Is the inspection result normal?

- YES >> GO TO 2. H
NO >> Repair or replace the malfunction parts. I

2.CHECK TILT SWITCH

Check tilt switch. ADP
Refer to [ADP-67, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3. K
NO >> Repair or replace the malfunction parts.

3.CHECK TILT SENSOR

Check tilt sensor. L
Refer to [ADP-93, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4. M
NO >> Repair or replace the malfunction parts.

4.CHECK TILT MOTOR

Check tilt motor. N
Refer to [ADP-111, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5. O
NO >> Repair or replace the malfunction parts.

5.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#). P
NO >> GO TO 1.

STEERING TELESCOPIC

MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

STEERING TELESCOPIC : Diagnosis Procedure

INFOID:000000012170638

1.CHECK STEERING TELESCOPIC MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace the malfunction parts.

2.CHECK TELESCOPIC SWITCH

Check telescopic switch.

Refer to [ADP-69, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.

3.CHECK TELESCOPIC SENEOR

Check telescopic sensor.

Refer to [ADP-96, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace the malfunction parts.

4.CHECK TELESCOPIC MOTOR

Check telescopic motor.

Refer to [ADP-113, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace the malfunction parts.

5.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
NO >> GO TO 1.

DOOR MIRROR

DOOR MIRROR : Diagnosis Procedure

INFOID:000000012170639

1.CHECK DOOR MIRROR MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace the malfunction parts.

2.CHECK MIRROR SWITCH

Check mirror switch.

Refer to [ADP-76, "MIRROR SWITCH : Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.

3.CHECK MIRROR MOTOR

MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Check mirror motor.

Refer to [ADP-115, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

MEMORY FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000012170640

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. PERFORM INITIALIZATION AND MEMORY STORING PROCEDURE

1. Perform initialization procedure.

Refer to [ADP-9, "SYSTEM INITIALIZATION : Special Repair Requirement"](#).

2. Perform memory storing procedure.

Refer to [ADP-10, "MEMORY STORING : Special Repair Requirement"](#).

3. Check memory function.

Refer to [ADP-27, "MEMORY FUNCTION : System Description"](#).

Is the inspection result normal?

YES >> Memory function is normal.

NO >> GO TO 3.

3. CHECK SEAT MEMORY SWITCH

Check seat memory switch.

Refer to [ADP-71, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat memory switch.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

SEAT SLIDING

SEAT SLIDING : Diagnosis Procedure

INFOID:000000012170641

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-205, "SEAT SLIDING : Diagnosis Procedure"](#)

2. CHECK SLIDING SENSOR

Check sliding sensor.

Refer to [ADP-81, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

NO >> GO TO 1.

SEAT RECLINING

SEAT RECLINING : Diagnosis Procedure

INFOID:000000012170642

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-205, "SEAT RECLINING : Diagnosis Procedure"](#)

2.CHECK RECLINING SENSOR

Check reclining sensor.

Refer to [ADP-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

SEAT LIFTING (FRONT)

SEAT LIFTING (FRONT) : Diagnosis Procedure

INFOID:000000012170643

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-206, "SEAT LIFTING \(FRONT\) : Diagnosis Procedure"](#)

2.CHECK LIFTING SENSOR (FRONT)

Check lifting sensor (front).

Refer to [ADP-87, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR) : Diagnosis Procedure

INFOID:000000012170644

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-206, "SEAT LIFTING \(REAR\) : Diagnosis Procedure"](#)

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MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

2.CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to [ADP-90, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

STEERING TELESCOPIC

STEERING TELESCOPIC : Diagnosis Procedure

INFOID:000000012170645

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-208, "STEERING TELESCOPIC : Diagnosis Procedure"](#)

2.CHECK TELESCOPIC SENSOR

Check steering telescopic sensor.

Refer to [ADP-96, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

STEERING TILT

STEERING TILT : Diagnosis Procedure

INFOID:000000012170646

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-207, "STEERING TILT : Diagnosis Procedure"](#)

2.CHECK TILT SENSOR

Check steering tilt sensor.

Refer to [ADP-93, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR MIRROR

DOOR MIRROR : Diagnosis Procedure

INFOID:000000012170647

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-208. "DOOR MIRROR : Diagnosis Procedure"](#)

2.CHECK MIRROR SENSOR

Check mirror sensor.

Refer to [ADP-99. "DRIVER SIDE : Component Function Check"](#). (Driver side)

Refer to [ADP-100. "PASSENGER SIDE : Component Function Check"](#). (Passenger side)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

NO >> GO TO 1.

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MEMORY INDICATE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

MEMORY INDICATE DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000012170648

1.CHECK MEMORY INDICATOR

Check memory indicator.

Refer to [ADP-118, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000012170649

1.CHECK SYSTEM SETTING

Check system setting.

Refer to [ADP-11, "SYSTEM SETTING : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Synchronization function is normal.

NO >> GO TO 2.

2.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> GO TO 1.

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ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000012170650

1. CHECK SYSTEM SETTING

1. Check system setting.
Refer to [ADP-11, "SYSTEM SETTING : Special Repair Requirement"](#).

2. Check the operation.

Is the inspection result normal?

- YES >> Entry/Exit function is OK.
NO >> GO TO 2.

2. PERFORM SYSTEM INITIALIZATION

1. Perform system initialization.
Refer to [ADP-9, "SYSTEM INITIALIZATION : Special Repair Requirement"](#).

2. Check the operation.

Is the inspection result normal?

- YES >> Entry/Exit function is OK.
NO >> GO TO 3.

3. CHECK FRONT DOOR SWITCH (DRIVER SIDE)

Check front door switch (driver side).

Refer to [DLK-65, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace the malfunction parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).
NO >> GO TO 1.

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000012170651

1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to [DLK-7, "Work Flow"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. PERFORM MEMORY STORING PROCEDURE

1. Perform memory storing procedure.

Refer to [ADP-10, "MEMORY STORING : Special Repair Requirement"](#).

2. Check Intelligent Key interlock function.

Refer to [ADP-39, "INTELLIGENT KEY INTERLOCK FUNCTION : System Description"](#).

Is the inspection result normal?

YES >> Intelligent Key interlock function is normal.

NO >> Replace driver seat control unit. Refer to [ADP-221, "Removal and Installation"](#).

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000012170652

The following symptoms are normal operations, and they do not indicate a malfunction.

| Symptom | Cause | Action to take | Reference page |
|---|--|---|---|
| Entry/exit assist function does not operate. | No initialization has been performed. | Perform initialization. | ADP-27 |
| | Entry/exit assist function is disabled. NOTE: The entry/exit assist function are enabled before delivery (initial setting). | Change the settings. | ADP-11 |
| Entry assist function does not operate. | Manual operation with power seat switch was performed after exit assist function execution. | Perform the memory function. | ADP-27 |
| Seat synchronization function does not operate. | Seat synchronization function is disabled. NOTE: The entry/exit assist function are disabled before delivery (initial setting). | Change the settings. | ADP-11 |
| | The synchronization function will not operate if the steering (tilt, telescopic) or the door mirror moves to the operating end while the seat synchronization function is operating. | Perform the memory function or drive the vehicle at more than 7 km/h (4 MPH). | ADP-27 |
| | Seat adjustment load has exceed any of the volumes below. • Seat sliding: 76 mm • Seat reclining: 9.1 degrees • Seat lifting (rear): 20 mm | — | — |
| Lumbar support does not perform memory operation. | The lumbar support system are controlled independently with no link to the automatic drive positioner system. | — | Lumbar support system: SE-10 |
| Memory function, entry/exit assist function, seat synchronization function, or Intelligent Key interlock function does not operate. | The operating conditions are not fulfilled. | Fulfill the operation conditions. | Memory function: ADP-27 |
| | | | Exit assist function: ADP-31 |
| | | | Entry assist function: ADP-35 |
| | | | Seat synchronization function: ADP-22 |
| | | | Intelligent Key interlock function: ADP-39 |

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000012170653

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 or batteries, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

INFOID:000000012170654

- 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.

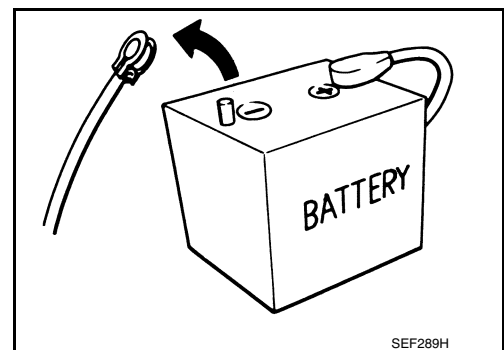
NOTE:

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.



Service

INFOID:000000012170655

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.

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PRECAUTIONS

< PRECAUTION >

- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Work

INFOID:000000012170656

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
 - Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
Then rub with a soft and dry cloth.
 - Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER SEAT CONTROL UNIT

Exploded View

INFOID:0000000012170657

Refer to [SE-129, "Exploded View"](#).

Removal and Installation

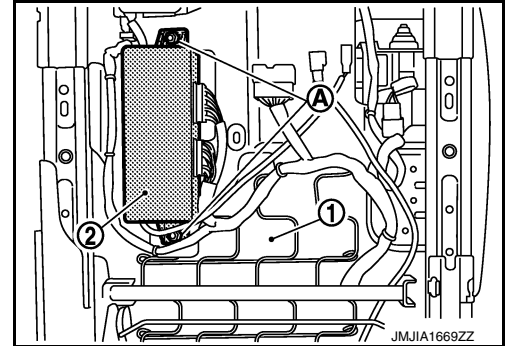
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the driver seat (1). Refer to [SE-132, "Removal and Installation"](#).
2. Remove the mounting bolts (A).
3. Remove driver seat control unit (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to [ADP-8, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

INFOID:000000012170659

Refer to [IP-12. "Exploded View"](#).

Removal and Installation

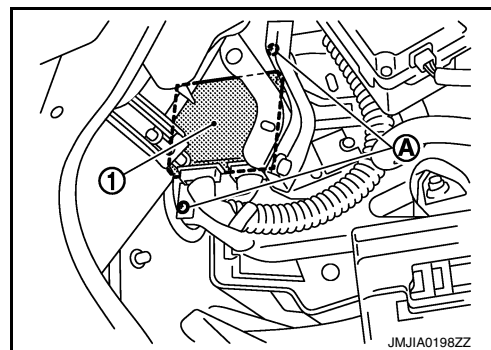
INFOID:000000012170660

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the instrument driver lower panel. Refer to [IP-13. "Removal and Installation"](#).
2. Remove the screws (A).
3. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to [ADP-8. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

SEAT MEMORY SWITCH

< REMOVAL AND INSTALLATION >

SEAT MEMORY SWITCH

Exploded View

INFOID:000000012170661

Refer to [INT-12. "DRIVER SIDE : Exploded View"](#).

Removal and Installation


INFOID:000000012170662

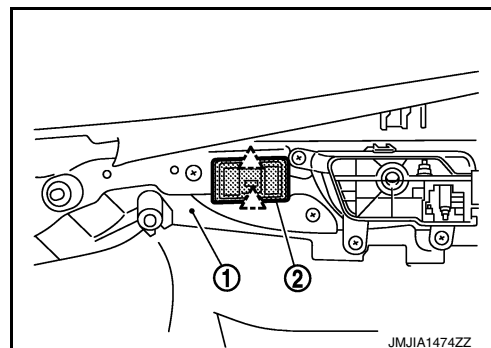
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the front door finisher (1). Refer to [INT-12. "DRIVER SIDE : Removal and Installation"](#).
2. Press pawls and remove seat memory switch (2) from front door finisher (1).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to [ADP-8. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

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POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Exploded View

INFOID:000000012170663

Refer to [SE-129, "Exploded View"](#).

Removal and Installation

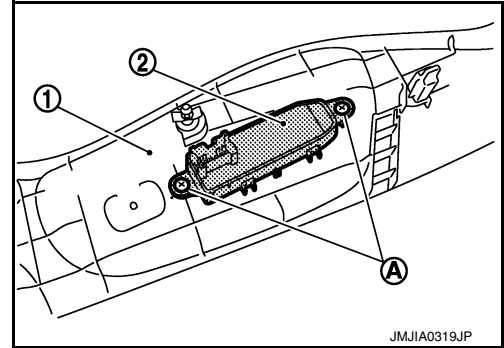
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the seat cushion outer finisher (1). Refer to [SE-133, "Disassembly and Assembly"](#).
2. Remove the screws (A).
3. Remove the power seat switch (2) from the seat cushion outer finisher (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to [ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

TILT&TELESCOPIC SWITCH

< REMOVAL AND INSTALLATION >

TILT&TELESCOPIC SWITCH

Exploded View

INFOID:000000012170665

Refer to [JP-12, "Exploded View"](#).

Removal and Installation


INFOID:000000012170666

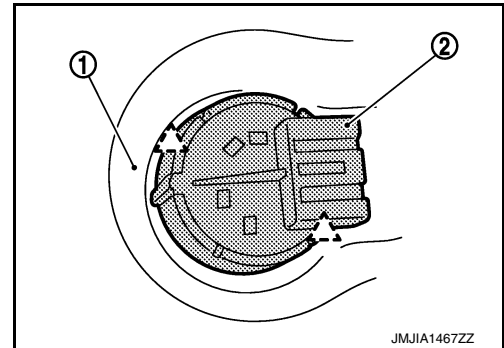
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the steering column mask (1).
Refer to [JP-13, "Removal and Installation"](#).
2. Press pawls and remove tilt & telescopic switch (2) from the steering column mask (1).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to [ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

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