

SECTION **ADP**

AUTOMATIC DRIVE POSITIONER

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

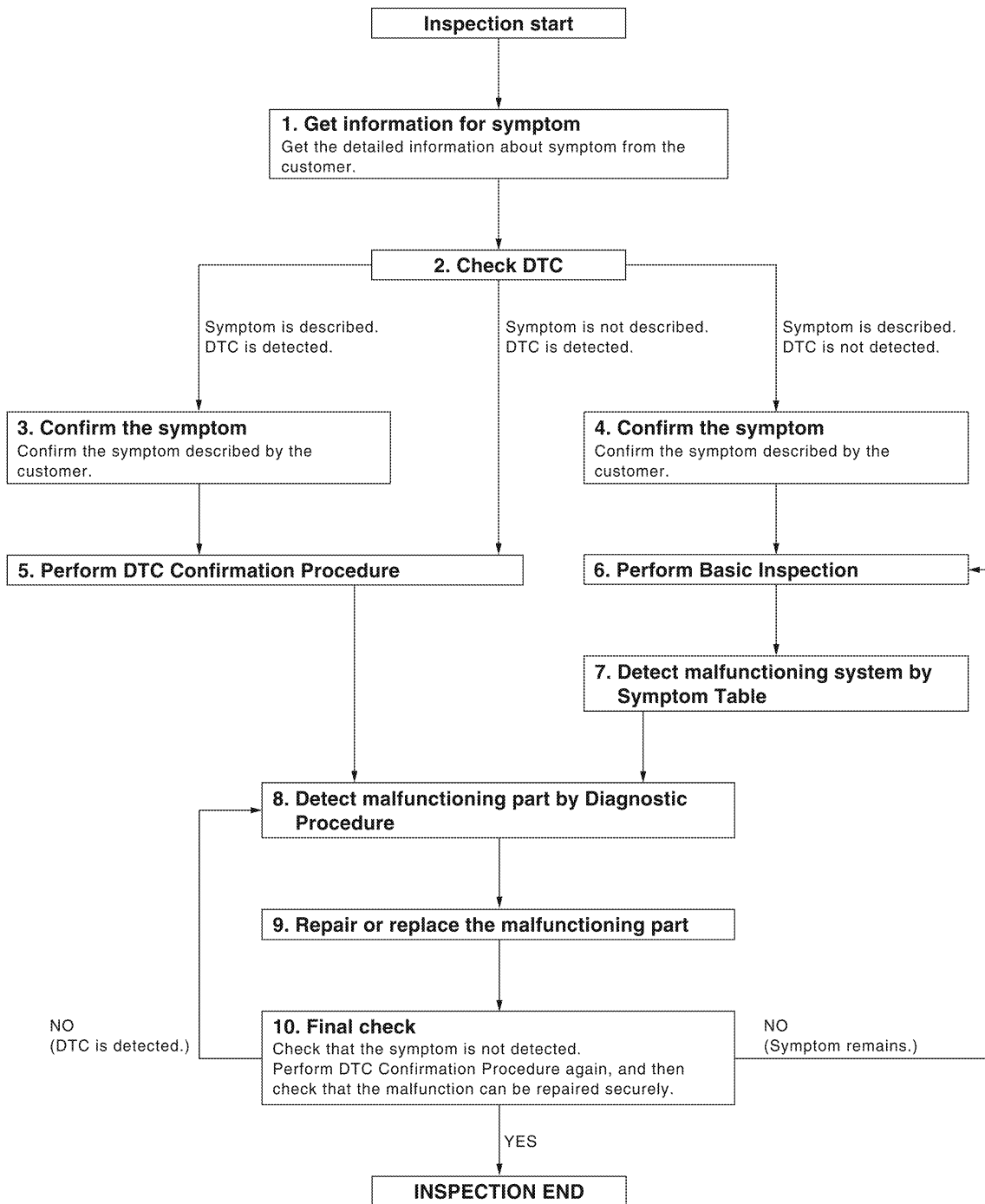
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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WORK FLOW



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DETAILED FLOW

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DIAGNOSIS AND REPAIR WORKFLOW

< 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-III.

Refer to [ADP-116. "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 7

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 7

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-152. "Description"](#).

Is the incident normal operation?

YES >> Inspection End.

NO >> GO TO 6

6. PERFORM BASIC INSPECTION

Isolate the malfunctioning point with the basic inspection. Refer to [ADP-8. "Preliminary Check"](#).

>> GO TO 8

7. PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 9

NO >> Check intermittent incident. Refer to [GI-49. "Intermittent Incident"](#).

8. PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 9

9. 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 10

10. REPAIR OR REPLACE

Repair or replace the malfunctioning part.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 11

11. 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?

YES >> Inspection End.

Symptom is detected.>> GO TO 4

DTC is detected.>> GO TO 7

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

Preliminary Check

INFOID:000000003935451

1. FOREIGN OBJECTS

Check the following:

- objects on or behind the seats that could cause binding
- objects under the seats that may be interfering with the seat's moving parts
- objects under pedals that may interfere with movement

Are there any foreign objects that could be causing interference?

- YES >> Remove objects.
NO >> GO TO 2

2. WIRING CONNECTIONS

1. Disconnect harness connectors.
2. Check terminals for damage or loose connections.
3. Reconnect harness connectors.

Are any connectors damaged or loose?

- YES >> Repair or replace damaged parts.
NO >> GO TO 3

3. POWER AND GROUND

Check power supply and ground circuits for control unit. Refer to [ADP-42. "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Refer to [ADP-116. "DTC Index"](#).
NO >> Repair or replace as necessary.

Special Repair Requirement

INFOID:000000003935452

Refer to Owner's Manual for Automatic Drive Positioner system operating instructions.

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

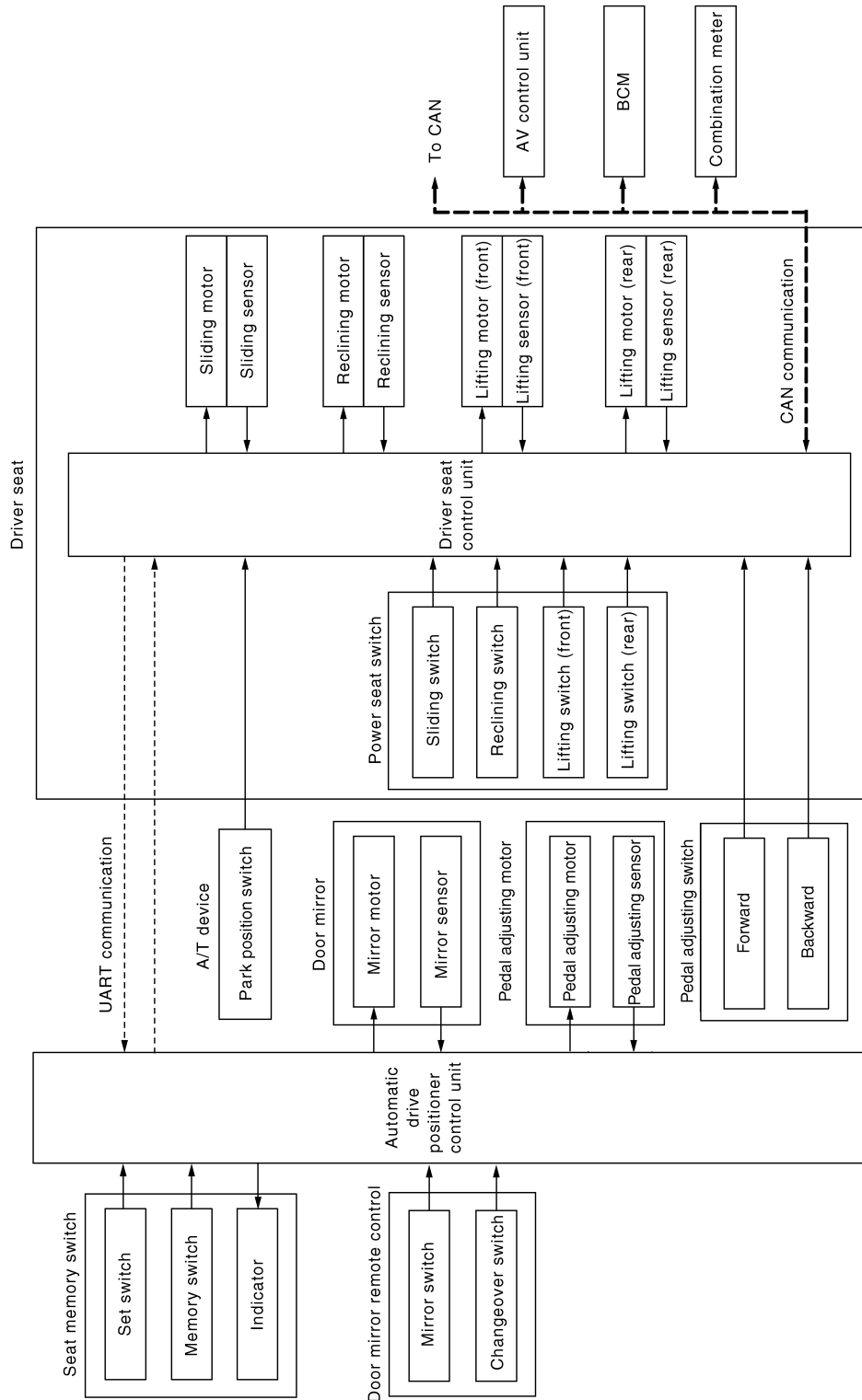
FUNCTION DIAGNOSIS

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram

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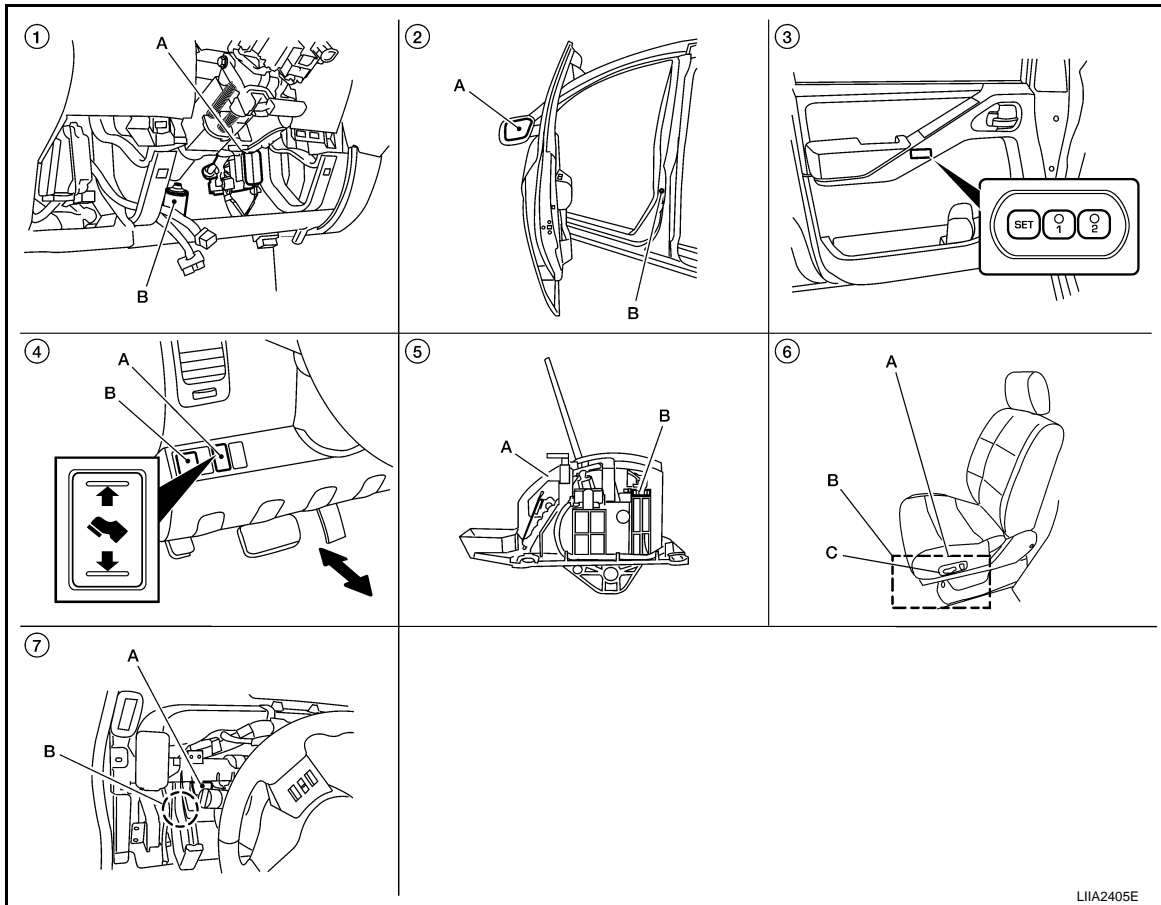
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AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Parts Location INFOID:000000003935454



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| <p>1. A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH removed)</p> <p>4. A. Pedal adjusting switch M96 B. Door mirror remote control switch M163</p> <p>7. A. Automatic drive positioner control unit M33, M34 B. Circuit breaker-2 M82 (view with instrument panel removed)</p> | <p>2. A. Door mirror LH D18, RH D118 B. Front door switch LH B8</p> <p>5. A. A/T device B. A/T device (park position switch) M156</p> | <p>3. Seat memory switch D5</p> <p>6. A. Sliding motor LH B204, reclining motor LH B232, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 (front seat LH view)</p> |
|--|---|---|

AUTOMATIC DRIVE POSITIONER SYSTEM : System Description INFOID:000000003935455

OUTLINE

The system automatically moves the driver seat, pedal assembly 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, pedal assembly and door mirror position) can be adjusted by using the power seat switch, pedal adjusting switch or door mirror remote control switch. |
| Memory function | The seat, pedal assembly and outside mirror move to the stored driving position by pressing seat memory switch (1 or 2). |

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

| Function | | Description |
|------------------------------------|-------|---|
| Entry/Exit assist function | Exit | On exit, the seat moves backward. |
| | Entry | On entry, the seat returns from exiting position to the previous driving position. |
| Keyfob interlock function | | Perform memory operation, exiting operation and entry operation by key unlock operation. |
| 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 . |

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:000000003935456

CONTROL UNITS

| Item | Function |
|---|---|
| Driver seat control unit | <ul style="list-style-type: none"> • Main unit of automatic drive positioner system • It is connected to the CAN. • It communicates with the automatic drive positioner control unit 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 pedal adjusting, door mirror and the seat memory switch. |
| BCM | Transmit the following status to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> • Front door LH: OPEN/CLOSE • Ignition switch position: ACC/ON • Door lock: UNLOCK (with Intelligent Key or remote keyless entry request switch operation) • Key ID • Key switch: Insert/Pull out Intelligent Key or ignition key • Starter: CRANKING/OTHER |
| Combination meter | Transmit the vehicle speed signal to the driver seat control unit via CAN communication. |
| AV control unit | The setting change of auto drive positioner system can be performed on the display. |
| A/T device (park position switch) | Transmit the shift position signal (P range) to the driver seat control unit. |

INPUT PARTS

Switches

| Item | Function |
|-------------------------------------|--|
| Key switch and ignition knob switch | The key switch is installed to detect the key inserted/removed status. |
| Front door switch LH | Detect front door (driver side) open/close status. |
| A/T device (park position switch) | Detect the P range position of A/T selector lever. |
| Set switch | The registration and system setting can be performed with its operation. |
| Seat 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. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

| Item | Function |
|-----------------------------------|--|
| Pedal adjusting switch | The following switch is installed. <ul style="list-style-type: none">• Pedal forward• Pedal backward 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 (LH/RH) | Detect the up/down and left/right position of outside mirror face. |
| Pedal adjusting sensor | Detect the forward/backward position of pedal assembly. |
| 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 (LH/RH) | Move the outside mirror face up/down and left/right. |
| Pedal adjusting motor | Move the pedal assembly forward/backward. |
| Lifting motor (front) | Move the seat lifting (front) up/down. |
| Lifting motor (rear) | Move the seat lifting (rear) up/down. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat forward/backward. |
| Seat memory indicator | Illuminates or flashes according to the registration/operation status. |

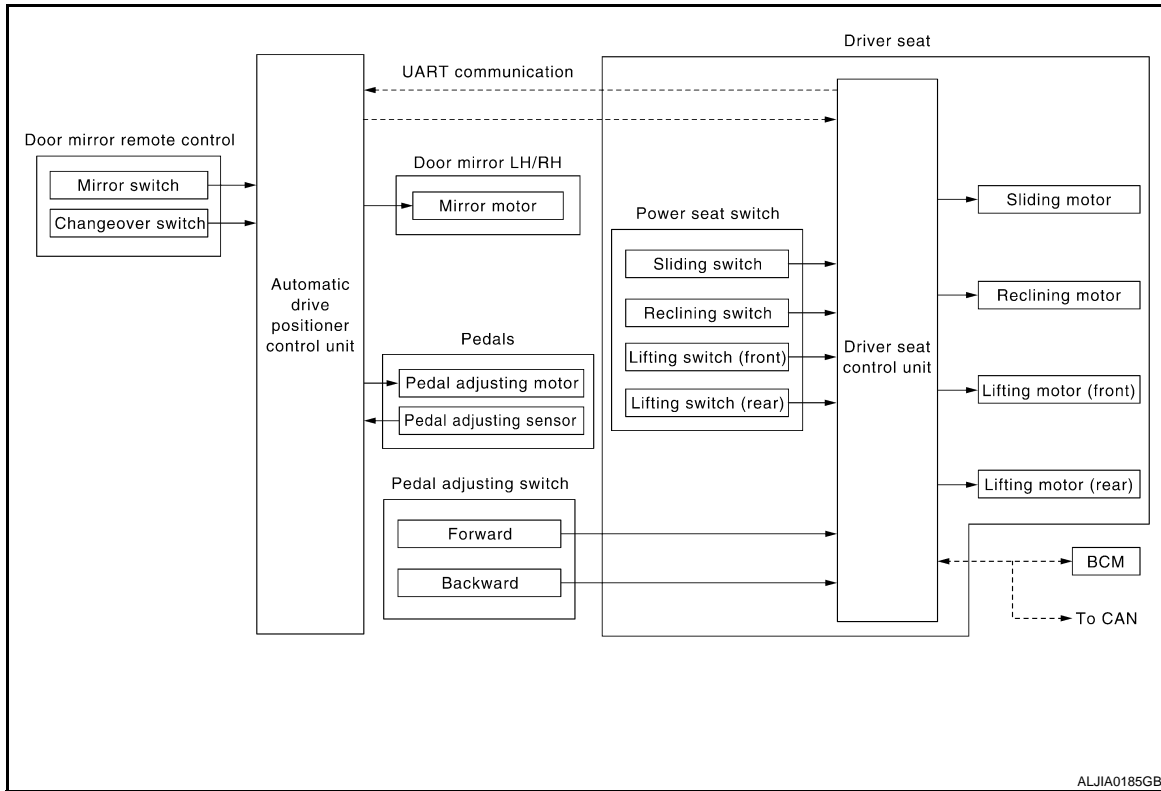
MANUAL FUNCTION

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

MANUAL FUNCTION : System Diagram

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MANUAL FUNCTION : System Description

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OUTLINE

The driving position (seat, pedal assembly and door mirror position) can be adjusted manually with power seat switch, pedal adjusting switch and door mirror remote control switch.

OPERATION PROCEDURE

1. Turn ignition switch ON.
2. Operate power seat switch, pedal adjusting switch or door mirror remote control switch.
3. The driver seat, pedal assembly or door mirror operates according to the operation of each switch.

DETAIL FLOW

Seat

| Order | Input | Output | Control unit condition |
|-------|---|--------------------------------------|---|
| 1 | Power seat switch (sliding, lifting, reclining) | — | The power seat switch signal is input 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. |

Adjustable pedals

| Order | Input | Output | Control unit condition |
|-------|------------------------|--------|--|
| 1 | Pedal adjusting switch | — | The pedal adjusting switch signal is input to the automatic drive positioner control unit when the pedal adjusting switch is operated. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

| Order | Input | Output | Control unit condition |
|-------|--------------------------------|--------|---|
| 2 | — | Motor | The automatic drive positioner control unit actuates the motor according to the operation of the pedal adjusting switch signal from the driver seat control unit. |
| 3 | Sensors (forward, backward) | — | 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. |

Door Mirror

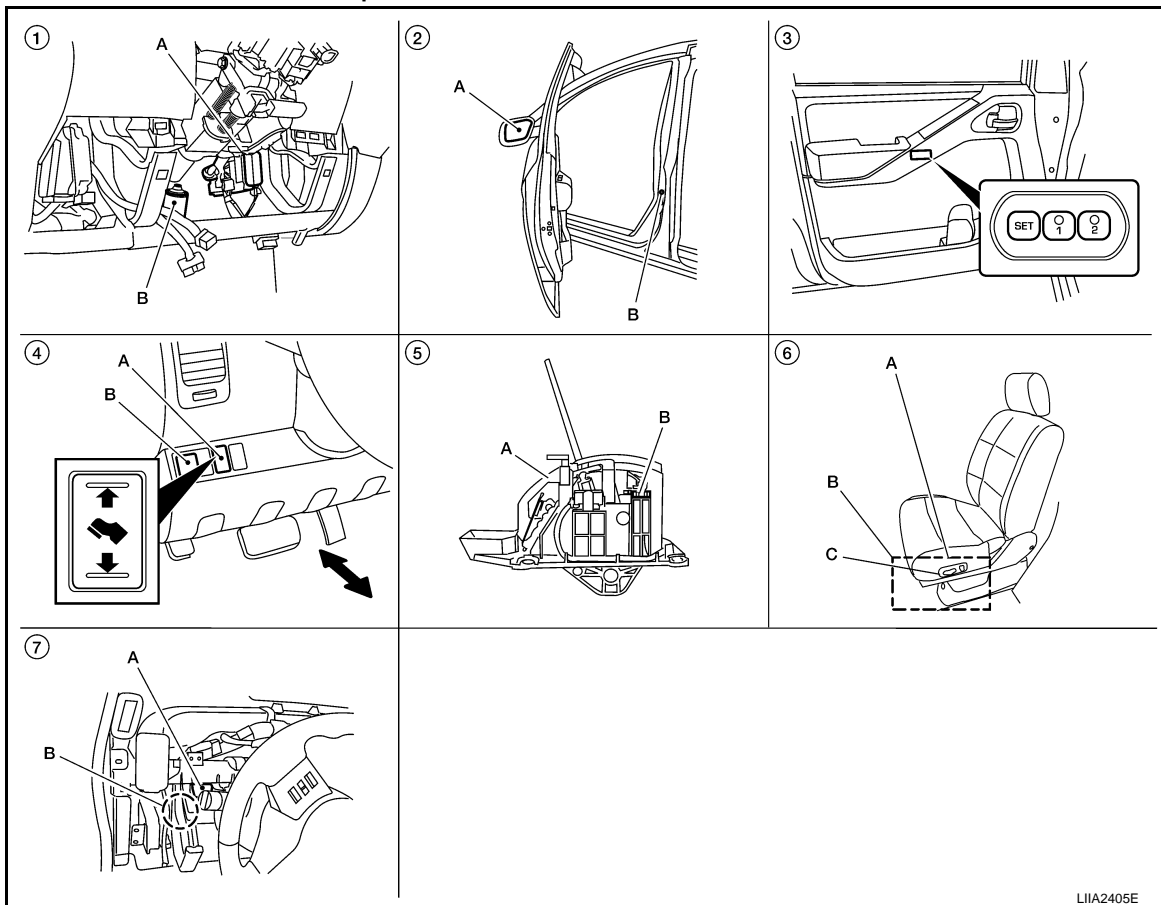
| Order | Input | Output | Control unit condition |
|-------|-----------------------------------|-------------------------------|--|
| 1 | Door mirror remote control switch | — | The door mirror remote control switch signal is input to the automatic drive positioner control unit when the door mirror 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.

MANUAL FUNCTION : Component Parts Location

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AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

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|--|---|---|--|
| <p>1. A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH removed)</p> <p>4. A. Pedal adjusting switch M96 B. Door mirror remote control switch M163</p> <p>7. A. Automatic drive positioner control unit M33, M34 B. Circuit breaker-2 M82 (view with instrument panel removed)</p> | <p>2. A. Door mirror LH D18, RH D118 B. Front door switch LH B8</p> <p>5. A. A/T device B. A/T device (park position switch) M156</p> | <p>3. Seat memory switch D5</p> <p>6. A. Sliding motor LH B204, reclining motor LH B232, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 (front seat LH view)</p> | <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> |
|--|---|---|--|

MANUAL FUNCTION : Component Description

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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. Transmits the pedal adjusting switch signal via UART communication to the automatic drive positioner control unit. |
| Automatic drive positioner control unit | Operates the specific motor with the signal from driver seat control unit 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. |
| Pedal adjusting switch | The following switch is installed. <ul style="list-style-type: none"> Pedal forward Pedal backward 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 |
|------------------------|---|
| Pedal adjusting sensor | Detect the forward/backward position of pedal assembly. |

OUTPUT PARTS

AUTOMATIC DRIVE POSITIONER SYSTEM

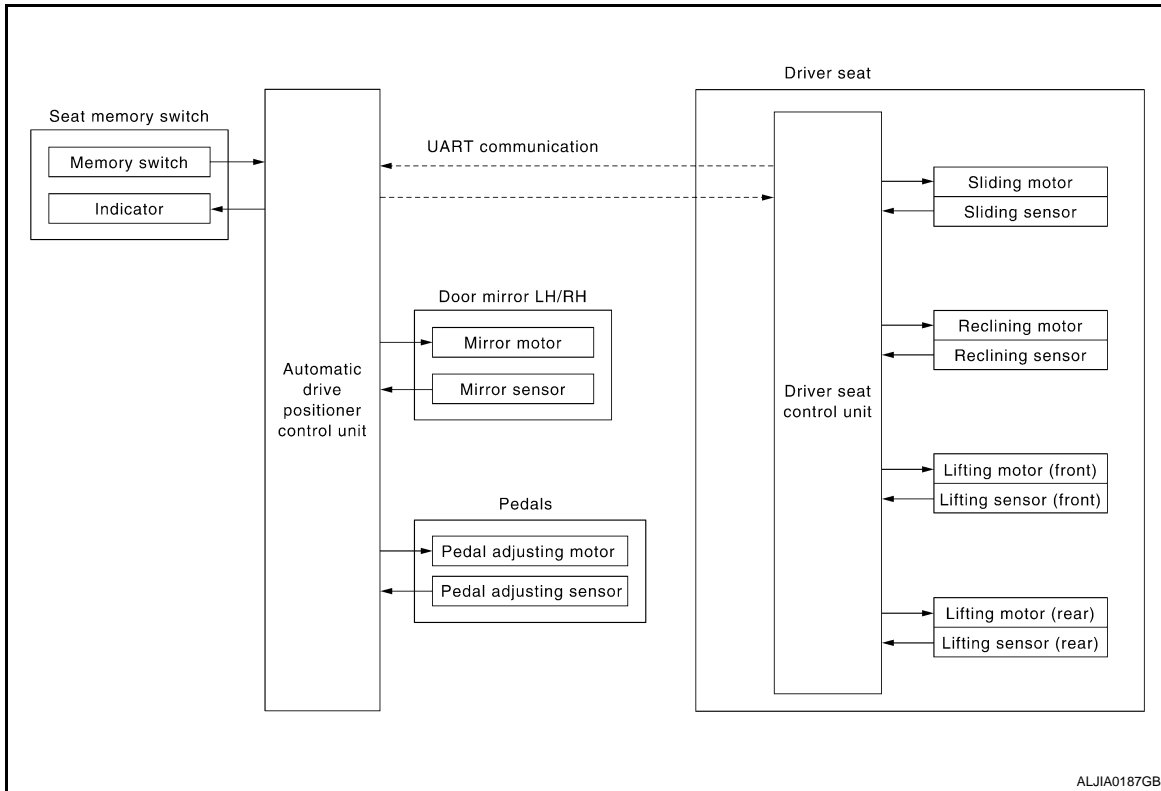
< FUNCTION DIAGNOSIS >

| Item | Function |
|---------------------------|--|
| Door mirror motor (LH/RH) | Move the outside mirror face up/down and left/right. |
| Pedal adjusting motor | Move the pedal assembly forward/backward. |
| Lifting motor (front) | Move the seat lifter (front) up/down. |
| Lifting motor (rear) | Move the seat lifter (rear) up/down. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat forward/backward. |

MEMORY FUNCTION

MEMORY FUNCTION : System Diagram

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MEMORY FUNCTION : System Description

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OUTLINE

The driver seat control unit can store the optimum driving positions (seat, pedal assembly 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 Owner's Manual.

OPERATION PROCEDURE

1. Turn ignition switch ON
2. Press desired memory switch for more than 0.5 second.
3. Front seat LH, pedal assembly 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.

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

| Item | Request status |
|--|-----------------------|
| Ignition position | ON |
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Pedal adjusting switch • Door mirror control switch • Set switch • Seat memory switch | OFF (Not operated) |
| A/T selector lever | P position |

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. Memory switch signal is input to driver seat control unit via UART communication. |
| 2 | — | Motors (seat, pedal adjusting, 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 requests the flashing of memory indicator to automatic drive positioner control unit via UART communication while either of the motors is operating. The automatic drive positioner control unit illuminates the memory indicator. |
| 3 | Sensors (seat, pedal adjusting, door mirror) | — | Driver seat control unit judges the operating seat position with each seat sensor input. The positions of the adjustable pedals and outside mirror are monitored with each sensor signal that is input from auto drive positioner control unit via UART communication. 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 requests the illumination of memory indicator to auto drive positioner control unit via UART communication after all motors stop. The auto driving positioner control unit illuminates the memory indicator for 5 seconds. |

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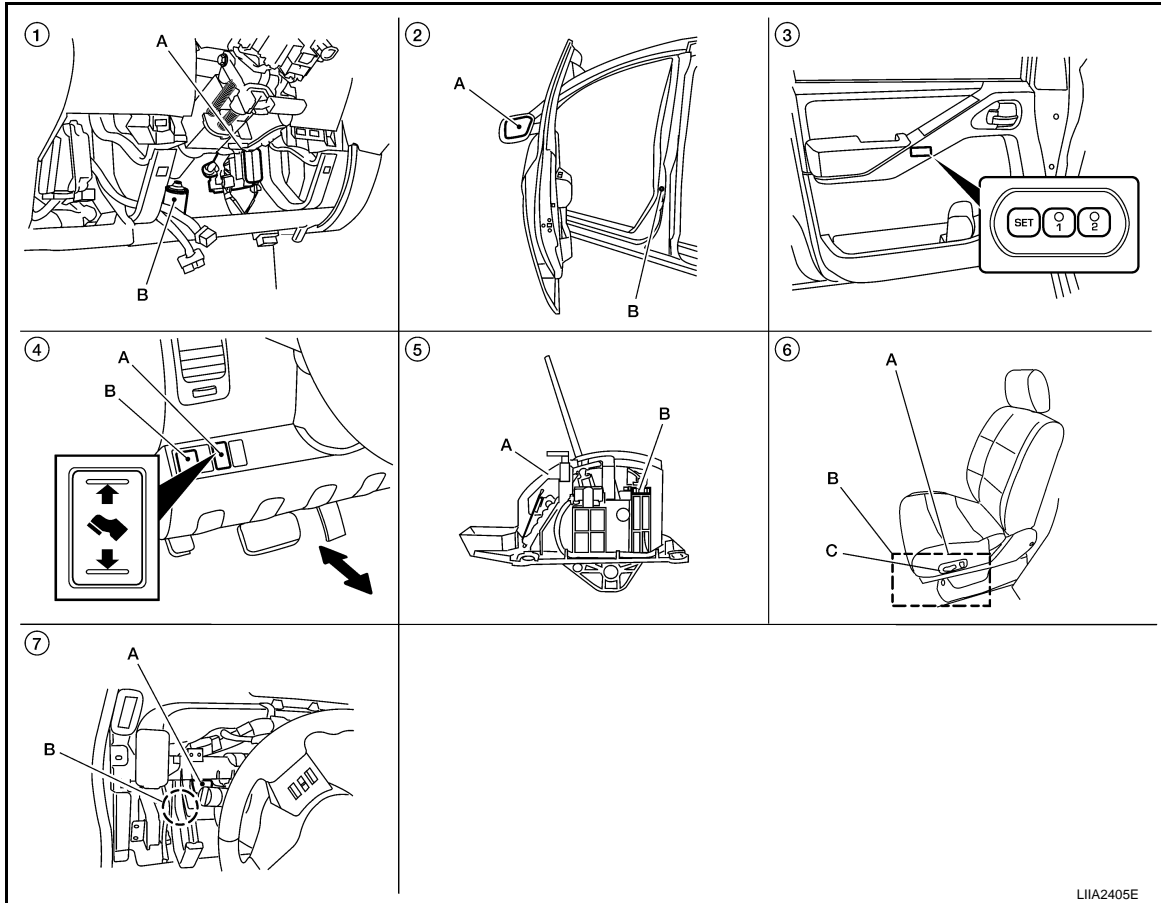
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AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

MEMORY FUNCTION : Component Parts Location

INFOID:000000004449387



LIA2405E

- | | | |
|--|---|---|
| <p>1. A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH removed)</p> <p>4. A. Pedal adjusting switch M96 B. Door mirror remote control switch M163</p> <p>7. A. Automatic drive positioner control unit M33, M34 B. Circuit breaker-2 M82 (view with instrument panel removed)</p> | <p>2. A. Door mirror LH D18, RH D118 B. Front door switch LH B8</p> <p>5. A. A/T device B. A/T device (park position switch) M156</p> | <p>3. Seat memory switch D5</p> <p>6. A. Sliding motor LH B204, reclining motor LH B232, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 (front seat LH view)</p> |
|--|---|---|

MEMORY FUNCTION : Component Description

INFOID:0000000003935464

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 pedal assembly and door mirror to automatic drive positioner control unit |
| Automatic drive positioner control unit | Operates the pedal adjusting motor and door mirror with the instructions from the driver seat control. |

INPUT PARTS

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

Switches

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

Sensors

| Item | Function |
|----------------------------|--|
| Door mirror sensor (LH/RH) | Detect the up/down and left/right position of outside mirror face. |
| Pedal adjusting sensor | Detect the forward/backward position of pedal assembly. |
| 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. |

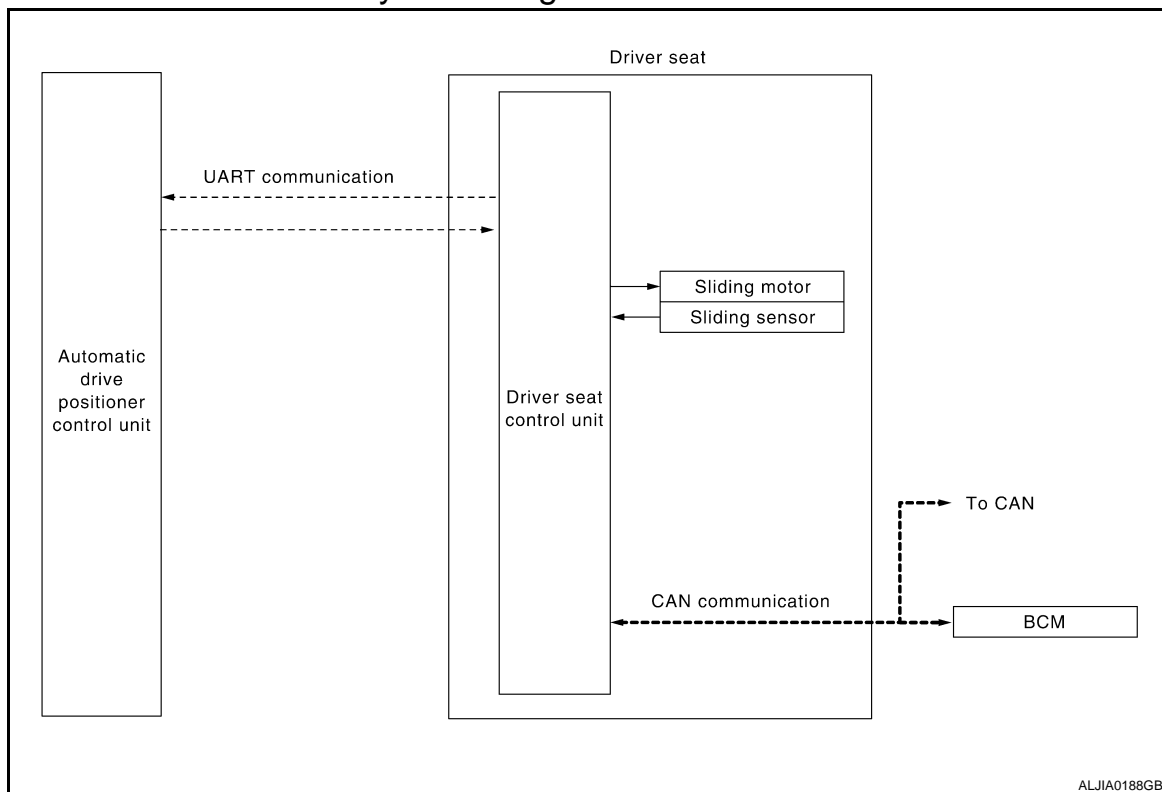
OUTPUT PARTS

| Item | Function |
|---------------------------|---|
| Door mirror motor (LH/RH) | Move the outside mirror face up/down and left/right. |
| Pedal adjusting motor | Move the pedal assembly forward/backward. |
| Lifting motor (front) | Move the seat lifter (front) up/down. |
| Lifting motor (rear) | Move the seat lifter (rear) up/down. |
| Reclining motor | Tilt and raise up the seatback. |
| Sliding motor | Slide the seat forward/backward. |
| Memory indicator | Illuminates or blinks according to the registration/operation status. |

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION : System Diagram

INFOID:000000003935465



AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

EXIT ASSIST FUNCTION : System Description

INFOID:000000003935466

OUTLINE

When exiting, if the conditions are satisfied, the seat is moved backward from normal sitting position. The seat slide amount at entry/exit operation can be changed.

NOTE:

- This function is set to OFF before delivery (initial setting).
- Further information for the system setting procedure. Refer to Owner's Manual.

OPERATION PROCEDURE

1. Open the driver door with ignition switch in OFF position.
2. Front seat LH 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.

| Item | Request status |
|--|-----------------------|
| Ignition switch | OFF |
| System setting [Entry/exit assist function] | ON |
| Initialization | Done |
| Switch inputs <ul style="list-style-type: none">• Power seat switch• Pedal adjusting switch• Door mirror remote control switch• Set switch• Seat memory switch | OFF (Not operated) |
| A/T selector lever | P position |

DETAIL FLOW

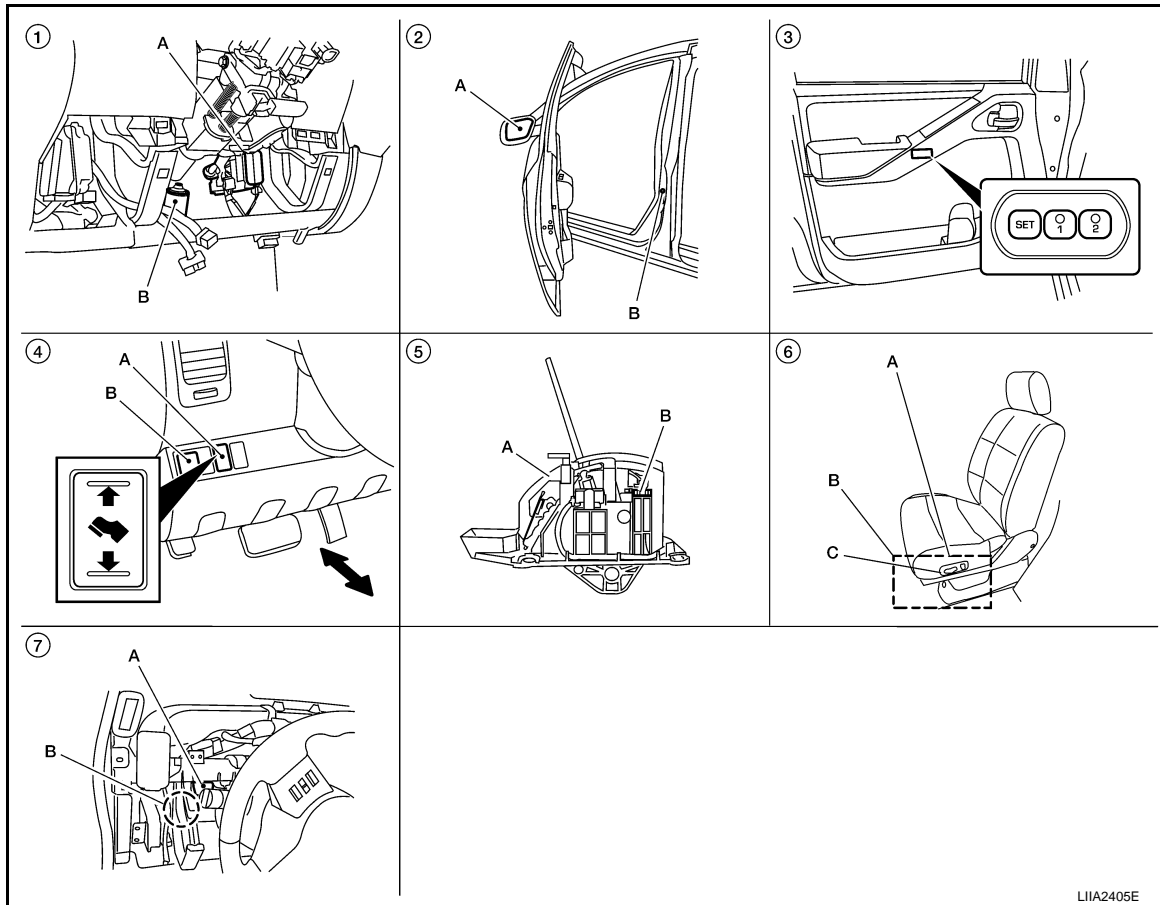
| Order | Input | Output | Control unit condition |
|-------|----------------------|----------------------|---|
| 1 | Front door switch LH | — | Driver seat control unit receives front door switch LH signal (open) from BCM via CAN communication. |
| 2 | — | Motor (seat sliding) | Driver seat control unit operates the seat sliding motor, which recognizes that the front door LH is opened with ignition switch OFF. |

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

EXIT ASSIST FUNCTION : Component Parts Location

INFOID:000000004449388



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|--|---|---|
| <p>1. A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH removed)</p> <p>4. A. Pedal adjusting switch M96 B. Door mirror remote control switch M163</p> <p>7. A. Automatic drive positioner control unit M33, M34 B. Circuit breaker-2 M82 (view with instrument panel removed)</p> | <p>2. A. Door mirror LH D18, RH D118 B. Front door switch LH B8</p> <p>5. A. A/T device B. A/T device (park position switch) M156</p> | <p>3. Seat memory switch D5</p> <p>6. A. Sliding motor LH B204, reclining motor LH B232, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 (front seat LH view)</p> |
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EXIT ASSIST FUNCTION : Component Description

INFOID:0000000003935468

CONTROL UNITS

| Item | Function |
|--------------------------|--|
| Driver seat control unit | Operates the seat sliding motor for a constant amount. |
| BCM | Recognizes the following status and transmits it to the driver seat control unit via CAN communication. • Front door LH: OPEN/CLOSE |

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INPUT PARTS

Switches

AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

| Item | Function |
|----------------------|---|
| Front door switch LH | Detect front door LH open/close status. |

Sensors

| Item | Function |
|----------------|---|
| Sliding sensor | Detect the front/rear position of seat. |

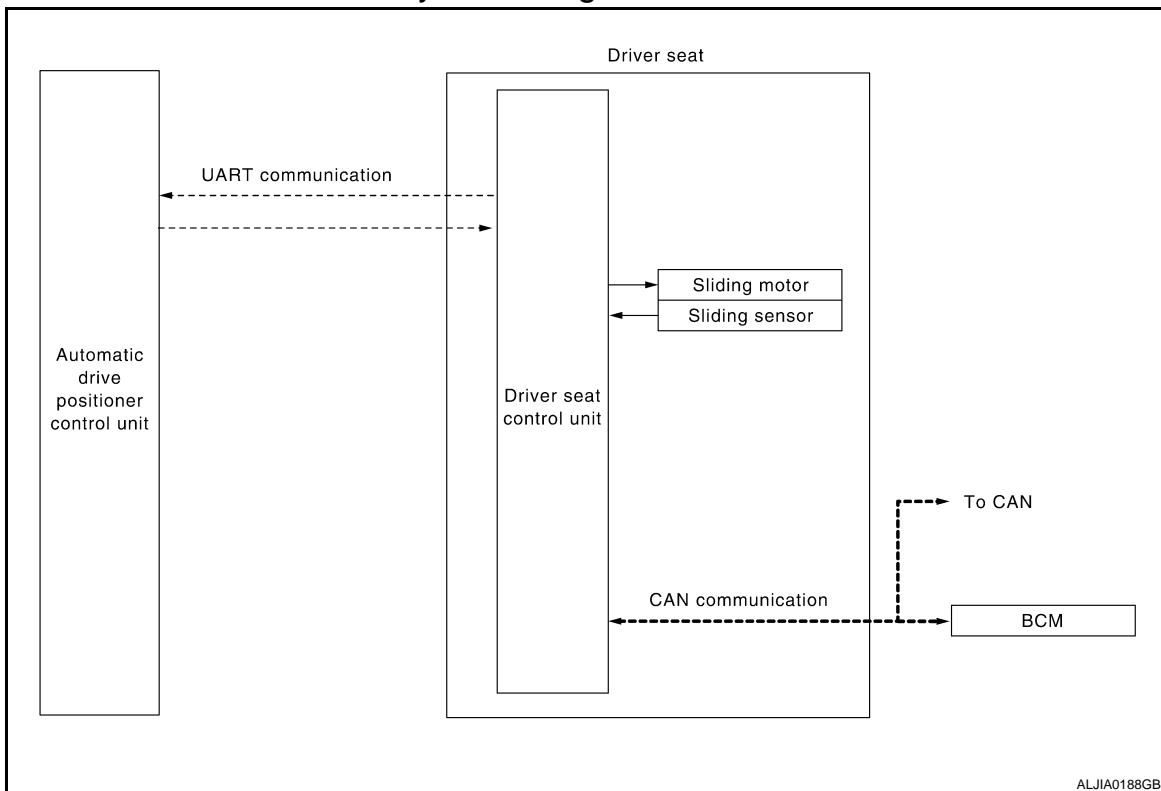
OUTPUT PARTS

| Item | Function |
|---------------|----------------------------------|
| Sliding motor | Slide the seat forward/backward. |

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Diagram

INFOID:000000003935469



ENTRY ASSIST FUNCTION : System Description

INFOID:000000003935470

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 OFF before delivery (initial setting).
- Further information for the system setting procedure. Refer to Owner's Manual.

OPERATION PROCEDURE

1. A: Turn the ignition switch ON.
B: Turn the ignition switch from OFF to ACC after closing the driver door.
2. Front seat LH 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

< FUNCTION DIAGNOSIS >

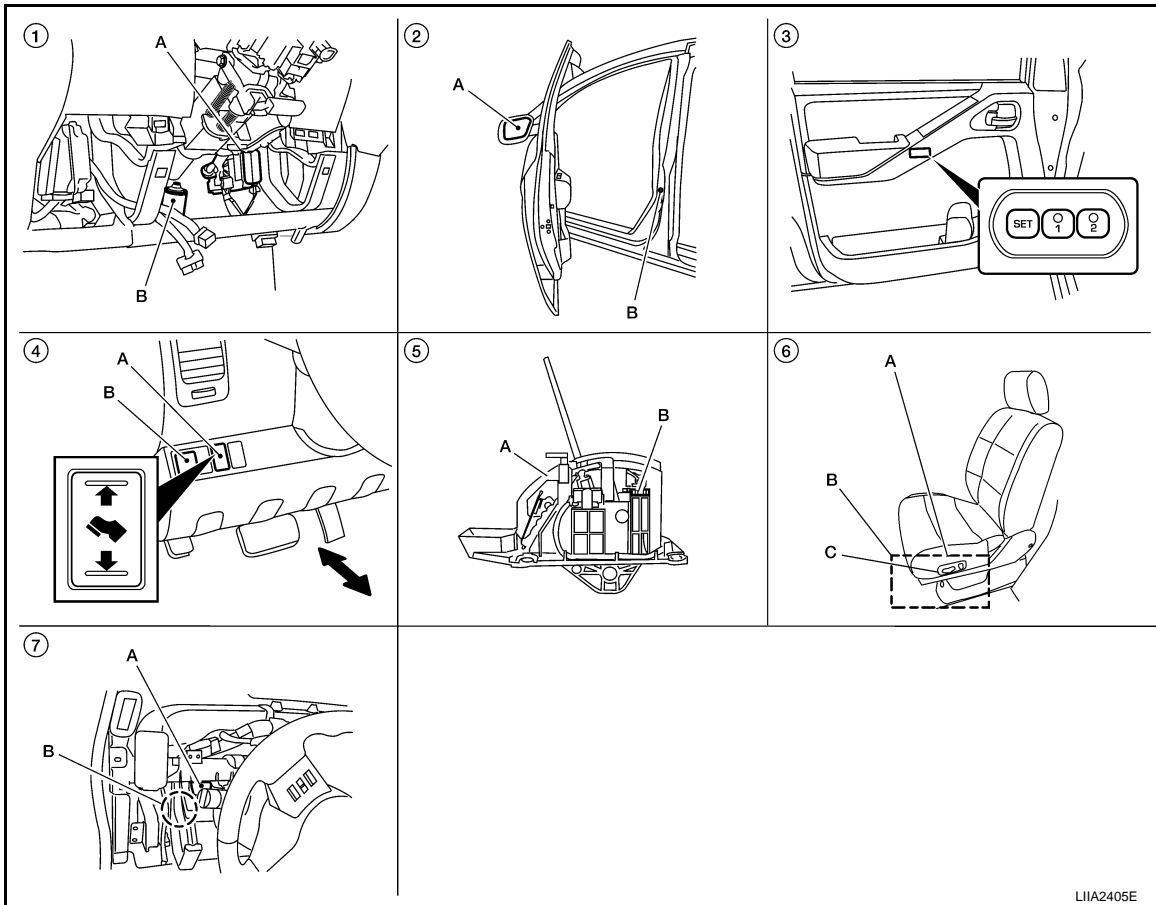
| Item | Request status |
|--|---|
| Seat | The vehicle is not moved after performing the exit assist function. |
| Switch inputs <ul style="list-style-type: none"> • Power seat switch • Pedal adjusting switch • Door mirror control switch • Set switch • Memory switch | OFF (Not operated) |
| A/T selector 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 front door switch from BCM via CAN communication. |
| 2 | — | Motor (sliding) | Driver seat control unit operates the sliding motor when the operating conditions are satisfied. |
| | Sensor (sliding) | — | Sensor monitors the operating positions of seat and then stops the operation of motor when seat reaches the recorded address. |

ENTRY ASSIST FUNCTION : Component Parts Location

INFOID:000000004449389



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AUTOMATIC DRIVE POSITIONER SYSTEM

< FUNCTION DIAGNOSIS >

- | | | |
|---|---|---|
| <p>1. A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH removed)</p> | <p>2. A. Door mirror LH D18, RH D118 B. Front door switch LH B8</p> | <p>3. Seat memory switch D5</p> |
| <p>4. A. Pedal adjusting switch M96 B. Door mirror remote control switch M163</p> | <p>5. A. A/T device B. A/T device (park position switch) M156</p> | <p>6. A. Sliding motor LH B204, reclining motor LH B232, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 (front seat LH view)</p> |
| <p>7. A. Automatic drive positioner control unit M33, M34 B. Circuit breaker-2 M82 (view with instrument panel removed)</p> | | |

ENTRY ASSIST FUNCTION : Component Description

INFOID:000000003935472

CONTROL UNITS

| Item | Function |
|--------------------------|---|
| Driver seat control unit | According to the ignition signal and front door switch LH signal from BCM, <ul style="list-style-type: none"> • Operates the seat sliding motor for a constant amount. |
| BCM | Recognizes the following status and transmits it to the driver seat control unit via CAN communication. <ul style="list-style-type: none"> • Front door LH: OPEN/CLOSE • Ignition switch position: ACC/ON |

INPUT PARTS

Switches

| Item | Function |
|----------------------|---|
| Front door switch LH | Detect front door LH open/close status. |

Sensors

| Item | Function |
|----------------|---|
| Sliding sensor | Detect the front/rear position of seat. |

OUTPUT PARTS

| Item | Function |
|---------------|----------------------------------|
| Sliding motor | Slide the seat forward/backward. |

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:000000003935473

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

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-III Function

INFOID:000000003935474

SELF-DIAGNOSIS RESULTS

Refer to [ADP-116, "DTC Index"](#).

DATA MONITOR

| Monitor Item | Unit | Main Signals | Selection From Menu | Contents |
|---------------|----------|--------------|---------------------|--|
| SET SW | "ON/OFF" | × | × | ON/OFF status judged from the setting switch signal. |
| MEMORY SW1 | "ON/OFF" | × | × | ON/OFF status judged from the seat memory switch 1 signal. |
| MEMORY SW2 | "ON/OFF" | × | × | ON/OFF status judged from the seat memory switch 2 signal. |
| SLIDE SW-FR | "ON/OFF" | × | × | ON/OFF status judged from the sliding switch (forward) signal. |
| SLIDE SW-RR | "ON/OFF" | × | × | ON/OFF status judged from the sliding switch (backward) signal. |
| RECLN SW-FR | "ON/OFF" | × | × | ON/OFF status judged from the reclining switch (forward) signal. |
| RECLN SW-RR | "ON/OFF" | × | × | ON/OFF status judged from the reclining switch (backward) signal. |
| LIFT FR SW-UP | "ON/OFF" | × | × | ON/OFF status judged from the lifting switch front (up) signal. |
| LIFT FR SW-DN | "ON/OFF" | × | × | ON/OFF status judged from the lifting switch front (down) signal. |
| LIFT RR SW-UP | "ON/OFF" | × | × | ON/OFF status judged from the lifting switch rear (up) signal. |
| LIFT RR SW-DN | "ON/OFF" | × | × | ON/OFF status judged from the lifting switch rear (down) signal. |
| MIR CON SW-UP | "ON/OFF" | × | × | ON/OFF status judged from the mirror switch (up) signal. |
| MIR CON SW-DN | "ON/OFF" | × | × | ON/OFF status judged from the mirror switch (down) signal. |
| MIR CON SW-RH | "ON/OFF" | × | × | ON/OFF status judged from the door mirror remote control switch (passenger side) signal. |
| MIR CON SW-LH | "ON/OFF" | × | × | ON/OFF status judged from the door mirror remote control switch (driver side) signal. |

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

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

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

| Test item | Description |
|------------------|--|
| SEAT SLIDE | Activates/deactivates the sliding motor. |
| SEAT RECLINING | Activates/deactivates the reclining motor. |
| SEAT LIFTER FR | Activates/deactivates the lifting motor (front). |
| SEAT LIFTER RR | Activates/deactivates the lifting motor (rear). |
| ADJ PEDAL MOTOR | Activates/deactivates the pedal adjusting motor. |
| MIRROR MOTOR RH | Activates/deactivates the mirror motor (passenger side). |
| MIRROR MOTOR LH | Activates/deactivates the mirror motor (driver side). |
| MEMORY SW INDCTR | Turns ON/OFF the memory indicator. |

WORK SUPPORT

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

| 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 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

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000003935475

Refer to [LAN-4, "System Description"](#).

DTC Logic

INFOID:000000003935476

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-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to [ADP-28, "Diagnosis Procedure"](#).

NO >> Inspection End.

Diagnosis Procedure

INFOID:000000003935477

Refer to [LAN-14, "Trouble Diagnosis Flow Chart"](#).

Special Repair Requirement

INFOID:000000003935478

Refer to Owner's Manual.

B2112 SLIDING MOTOR

< COMPONENT DIAGNOSIS >

B2112 SLIDING MOTOR

Description

INFOID:000000003935479

- The seat sliding motor is installed to the seat frame assembly.
- 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:000000003935480

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 |

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to [ADP-29, "Diagnosis Procedure"](#).

NO >> Inspection End.

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to [ADP-37, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935481

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-29, "DTC Logic"](#).

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-49, "Intermittent Incident"](#).

2. CHECK COMPONENTS

Refer to [ADP-67, "Component Function Check"](#) and [ADP-81, "Component Function Check"](#).

>> Inspection End.

B2113 RECLINING MOTOR

< COMPONENT DIAGNOSIS >

B2113 RECLINING MOTOR

Description

INFOID:000000003935482

- The seat reclining motor is installed to the seat frame assembly.
- 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:000000003935483

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. | • 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-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to [ADP-30, "Diagnosis Procedure"](#).

NO >> Inspection End.

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to [ADP-37, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935484

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-30, "DTC Logic"](#).

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-49, "Intermittent Incident"](#).

2. CHECK COMPONENTS

Refer to [ADP-69, "Component Function Check"](#) and [ADP-83, "Component Function Check"](#).

>> Inspection End.

B2114 SEAT LIFTER FR

< COMPONENT DIAGNOSIS >

B2114 SEAT LIFTER FR

Description

INFOID:000000003935485

- The lifting motor (front) is installed to the seat frame assembly.
- The lifting motor (front) is activated with the driver seat control unit.
- Tilts the seat front up/down by changing the rotation direction of lifting motor (front).

DTC Logic

INFOID:000000003935486

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|--|
| B2114 | SEAT LIFTER FR | The driver seat control unit detects the output of lifting motor (front) output terminal for 0.1 second or more even if the lifting switch is not input. | <ul style="list-style-type: none">• 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-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to [ADP-31, "Diagnosis Procedure"](#).

NO >> Inspection End.

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to [ADP-37, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935487

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-31, "DTC Logic"](#).

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-49, "Intermittent Incident"](#).

2. CHECK COMPONENTS

Refer to [ADP-71, "Component Function Check"](#) and [ADP-85, "Component Function Check"](#).

>> Inspection End.

B2115 SEAT LIFTER RR

< COMPONENT DIAGNOSIS >

B2115 SEAT LIFTER RR

Description

INFOID:000000003935488

- The lifting motor (rear) is installed to the seat frame assembly.
- The lifting motor (rear) is activated with the driver seat control unit.
- Tilts the seat rear up/down by changing the rotation direction of lifting motor (rear).

DTC Logic

INFOID:000000003935489

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|---|----------------------------|
| B2115 | SEAT LIFTER RR | The driver seat control unit detects the output of lifting motor (rear) output terminal for 0.1 second or more even if the lifting switch is not input. | • 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-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to [ADP-32, "Diagnosis Procedure"](#).

NO >> Inspection End.

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to [ADP-37, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935490

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to [ADP-32, "DTC Logic"](#).

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to [GI-49, "Intermittent Incident"](#).

2. CHECK COMPONENTS

Refer to [ADP-73, "Component Function Check"](#) and [ADP-87, "Component Function Check"](#).

>> Inspection End.

B2117 ADJ PEDAL MOTOR

< COMPONENT DIAGNOSIS >

B2117 ADJ PEDAL MOTOR

Description

INFOID:000000003935491

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

DTC Logic

INFOID:000000003935492

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|--|--|
| B2117 | ADJ PEDAL SENSOR | When any manual or automatic operations are not performed, if motor operation is detected for 0.1 second or more, status is judged "Output error". | <ul style="list-style-type: none">• Harness and connectors (pedal adjusting sensor circuit is opened/shorted, pedal adjusting sensor power supply circuit is opened/shorted.)• Pedal adjusting sensor |

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-33, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:000000003935493

1. CHECK PEDAL ADJUSTING MECHANISM

Check the following.

- Operation malfunction caused by pedal adjusting mechanism deformation or pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

Is the inspection result normal

- YES >> GO TO 2
NO >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

1. Turn ignition switch ON.
2. Check "ADJ PEDAL MOTOR" in "Active test" mode with CONSULT-III.

| Test item | Description |
|-----------------|---|
| ADJ PEDAL MOTOR | The pedal adjusting motor is activated by receiving the drive signal. |

Is the inspection result normal?

- YES >> Pedal adjusting motor circuit is OK.
NO >> GO TO 3

B2117 ADJ PEDAL MOTOR

< COMPONENT DIAGNOSIS >

3. CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
3. Check continuity between automatic drive positioner control unit connector M34 terminals 37, 45 and pedal adjusting motor assembly connector E109 terminals 1, 2.

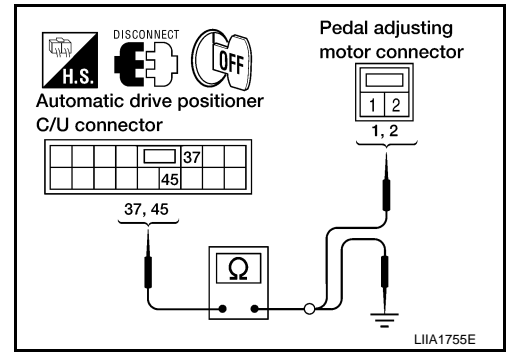
37 - 1 : Continuity should exist.

45 - 2 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M34 terminals 37, 45 and ground.

37 - Ground : Continuity should not exist.

45 - Ground : Continuity should not exist.



Is the inspection result normal?

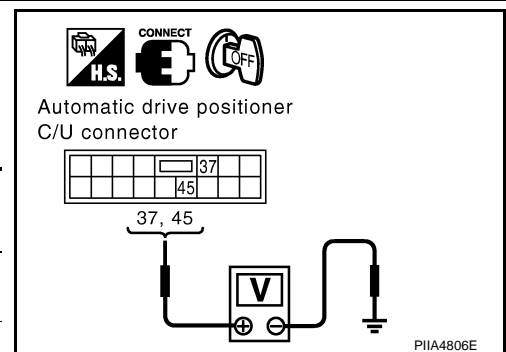
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect the automatic drive positioner control unit and pedal adjusting motor assembly.
2. Check voltage between automatic drive positioner control unit connector and ground.

| Connector | Terminals | | Condition | Voltage (V) (Approx.) |
|-----------|-----------|--------|--|--------------------------|
| | (+) | (-) | | |
| M34 | 37 | Ground | Pedal adjusting switch ON (FORWARD operation) | Battery voltage |
| | | | Other than above | 0 |
| | 45 | | Pedal adjusting switch ON (BACKWARD operation) | Battery voltage |
| | | | Other than above | 0 |



Is the inspection result normal?

YES >> Replace pedal adjusting motor assembly. Refer to [BR-23. "Removal and Installation"](#).

NO >> GO TO 5

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

B2120 ADJ PEDAL SENSOR

< COMPONENT DIAGNOSIS >

B2120 ADJ PEDAL SENSOR

Description

INFOID:000000003935494

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

DTC Logic

INFOID:000000003935495

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|---|--|
| B2120 | ADJ PEDAL SENSOR | The input voltage of pedal adjusting sensor is 0.5V or less or 4.5V or higher, for 0.5 seconds or more. | <ul style="list-style-type: none">• Harness and connectors (Pedal adjusting sensor circuit is opened/shorted, pedal adjusting sensor power supply circuit is opened/shorted.)• Pedal adjusting sensor |

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC is detected?

YES >> Perform diagnosis procedure. Refer to [ADP-35, "Diagnosis Procedure"](#).

NO >> Inspection End.

Diagnosis Procedure

INFOID:000000003935496

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Select "PEDAL SEN" in "Data monitor" mode with CONSULT-III.
3. Check the pedal adjusting sensor signal under the following condition.

| Monitor item | Condition | Value |
|--------------|-----------|-------|
| PEDAL SEN | Forward | 0.5V |
| | Backward | 4.5V |

Is the value normal?

YES >> Pedal adjusting circuit is OK.

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT HARNESS CONTINUITY

B2120 ADJ PEDAL SENSOR

< COMPONENT DIAGNOSIS >

1. Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
2. Check continuity between automatic drive positioner connector and pedal adjusting motor connector.

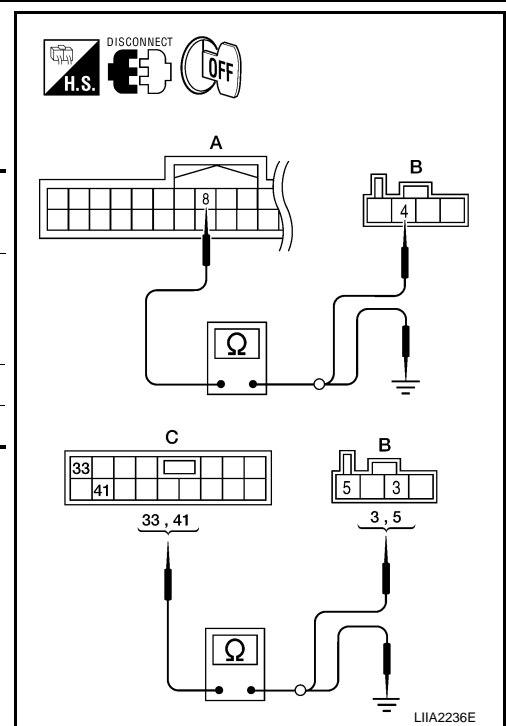
| Connector | Terminal | Connector | Terminal | Continuity |
|--|----------|--------------------------------------|----------|------------|
| A | | B | | Yes |
| Automatic drive positioner control unit: M33 | 8 | Pedal adjusting motor assembly: E110 | 4 | |
| C | | | 5 | Yes |
| Automatic drive positioner control unit: M34 | 33 | | | |
| | 41 | 3 | Yes | |

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

| Connector | Terminal | Ground | Continuity |
|--|----------|--------|------------|
| A | | | No |
| Automatic drive positioner control unit: M33 | 8 | | |
| B | | | No |
| Automatic drive positioner control unit: M34 | 33 | | |
| | 41 | No | |

Is the inspection result normal?

- YES >> Replace pedal adjusting motor assembly. Refer to [BR-23. "Removal and Installation"](#).
 NO >> Repair or replace harness.



B2126 DETENT SW

< COMPONENT DIAGNOSIS >

B2126 DETENT SW

Description

INFOID:000000003935497

- Park position switch is installed on A/T device. It is turned OFF when the A/T selector lever is in P position.
- The driver seat control unit judges that the A/T selector lever is in P position if continuity does not exist in this circuit.

DTC Logic

INFOID:000000003935498

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|---|--|
| B2126 | DETENT SW | A/T selector lever is in P position and the vehicle speed of 7±4km/h is detected. | <ul style="list-style-type: none"> • Harness and connectors (Park position switch circuit is opened/shorted.) • Park position switch • Combination meter (CAN communication) |

DTC CONFIRMATION PROCEDURE

1. STEP 1

Drive the vehicle at 7±4km/h or more.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-37, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:000000003935499

1. CHECK DTC

Check "Self diagnostic result" for BCM with CONSULT-III.

Are other DTCs detected?

- YES >> Check The DTC.
- NO >> GO TO 2

2. CHECK DETENTION SWITCH SIGNAL

1. Turn ignition switch ON.
2. Select "DETENT SW" in "Data Monitor" mode with CONSULT-III.
3. Check detention switch signal under the following condition.

| Monitor item | Condition | | Status |
|--------------|--------------------|------------------|--------|
| DETENT SW | A/T selector lever | P position | OFF |
| | | Other than above | ON |

Is the status normal?

- YES >> A/T device (park position switch) circuit is OK.
- NO >> GO TO 3

3. CHECK A/T DEVICE (PARK POSITION SWITCH) HARNESS

B2126 DETENT SW

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect A/T device and driver seat control unit.
3. Check continuity between A/T device connector M158 terminal 4 and driver seat control unit connector B203 terminal 21.

4 - 21 : Continuity should exist.

4. Check continuity between A/T device connector M158 terminal 4 and ground.

4 - Ground : Continuity should not exist.

Is the inspection result normal?

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

4. CHECK PARK POSITION SWITCH

Check continuity between A/T device (park position switch) terminals as follows.

| Terminals | | Condition | Continuity |
|-----------|---|-----------------------|------------|
| 2 | 4 | P position | Yes |
| | | Other than P position | No |

Is the inspection result normal?

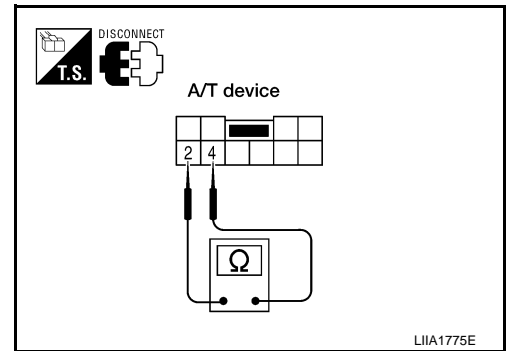
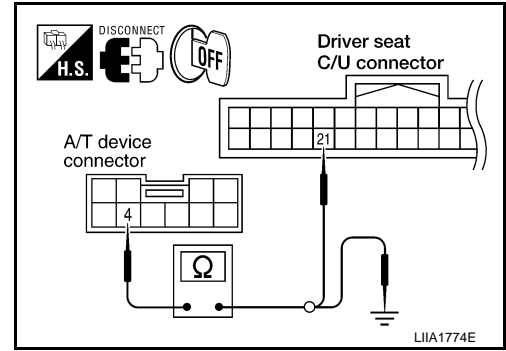
- YES >> GO TO 5
 NO >> Replace A/T device. Refer to [TM-195. "Removal and Installation"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25. "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



B2128 UART COMMUNICATION LINE

< COMPONENT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description

INFOID:000000003935500

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 pedal adjusting switch, door mirror remote control switch, set switch and memory switch and the position signals of adjustable pedal sensor and door mirror sensor from the automatic drive positioner control unit and transmits the operation request signal.

DTC Logic

INFOID:000000003935501

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|------------------------|---|---|
| B2128 | UART COMM | The communication between driver seat control unit and automatic 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. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Operate pedal adjusting switch for more than 2 seconds.

>> GO TO 3

3. PROCEDURE 3

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to [ADP-39, "Diagnosis Procedure"](#).
 NO >> Inspection End.

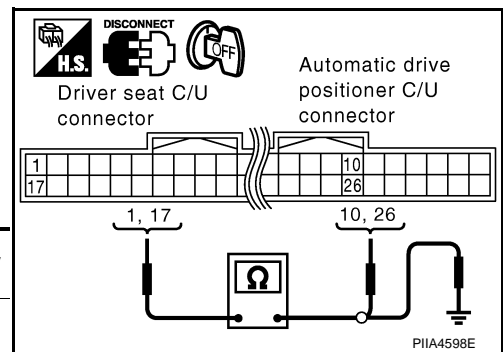
Diagnosis Procedure

INFOID:000000003935502

1. CHECK UART COMMUNICATION LINE CONTINUITY

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

| Driver seat control unit connector | Terminal | Automatic drive positioner control unit connector | Terminal | Continuity |
|------------------------------------|----------|---|----------|------------|
| B202 | 1 | M33 | 10 | Yes |
| | 17 | | 26 | |



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

B2128 UART COMMUNICATION LINE

< COMPONENT DIAGNOSIS >

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 | 1 | | Ground |
| | 17 | | |

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-49. "Intermittent Incident"](#).
NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000004428648

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

| Terminal No. | Signal name | Fuses and fusible link No. |
|--------------|----------------------|----------------------------|
| 57 | Battery power supply | 18 (10A) |
| 70 | | G (50A) |
| 11 | Ignition ACC or ON | 4 (10A) |
| 38 | Ignition ON or START | 1 (10A) |

Is the fuse blown?

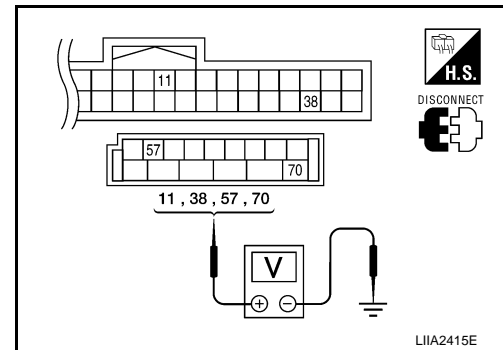
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM.
- Check voltage between BCM harness connector and ground.

| Connector | Terminals | | Power source | Condition | Voltage (V) (Approx.) |
|-----------|-----------|--------|-----------------------|-----------------------------|-----------------------|
| | (+) | (-) | | | |
| M18 | 11 | Ground | ACC power supply | Ignition switch ACC or ON | Battery voltage |
| | 38 | Ground | Ignition power supply | Ignition switch ON or START | Battery voltage |
| M20 | 57 | Ground | Battery power supply | Ignition switch OFF | Battery voltage |
| | 70 | Ground | Battery power supply | Ignition switch OFF | Battery voltage |



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

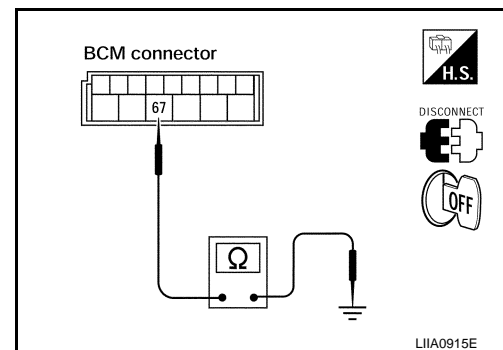
Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M20 | 67 | | Yes |

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



DRIVER SEAT CONTROL UNIT

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000003935505

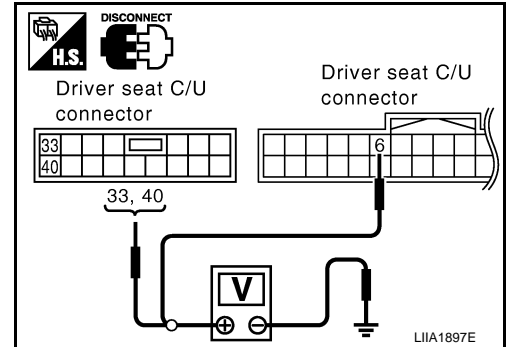
NOTE:

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

1. CHECK POWER SUPPLY CIRCUIT

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

| Terminals | | Power source | Condition | Voltage (V) (Approx.) |
|------------------------------------|----------|----------------------|-----------------------|-----------------------|
| (+) | (-) | | | |
| Driver seat control unit connector | Terminal | | | |
| B202 | 6 | START power supply | Ignition switch START | Battery voltage |
| B203 | 33 | Battery power supply | Ignition switch OFF | |
| | 40 | | | |



Is the inspection result normal?

YES >> GO TO 2.

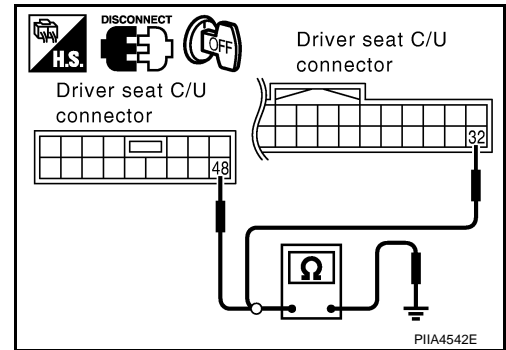
NO >> Check the following.

- 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 connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 | 32 | Ground | Yes |
| B203 | 48 | | |



Is the inspection result normal?

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

NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:000000003935506

1. PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000003935507

NOTE:

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

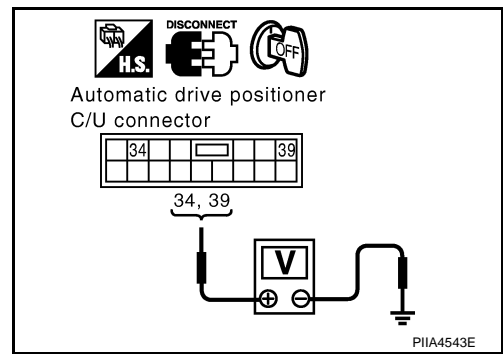
1. CHECK POWER SUPPLY CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

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

| Terminals | | (-) | Voltage (V) (Approx.) |
|---|----------|--------|--------------------------|
| (+) | | | |
| Automatic drive positioner control unit connector | Terminal | Ground | Battery voltage |
| M33 | 34 | | |
| | 39 | | |



Is the inspection result normal?

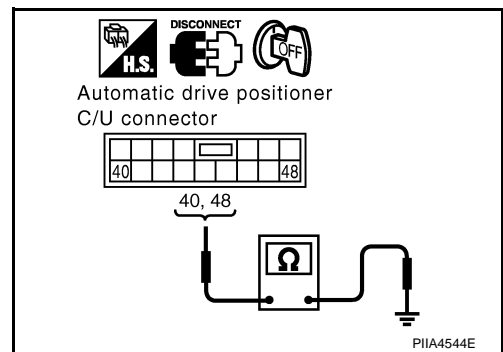
YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK GROUND CIRCUIT

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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 40 | | Ground |
| | 48 | | |



Is the inspection result normal?

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

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Special Repair Requirement

INFOID:000000003935508

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

A
B
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ADP

SLIDING SWITCH

< COMPONENT DIAGNOSIS >

SLIDING SWITCH

Description

INFOID:000000003935509

Sliding switch is equipped to the power seat switch LH on the seat cushion trim. The operation signal is input to the driver seat control unit when the sliding switch is operated.

Component Function Check

INFOID:000000003935510

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to [ADP-44, "Diagnosis Procedure"](#).

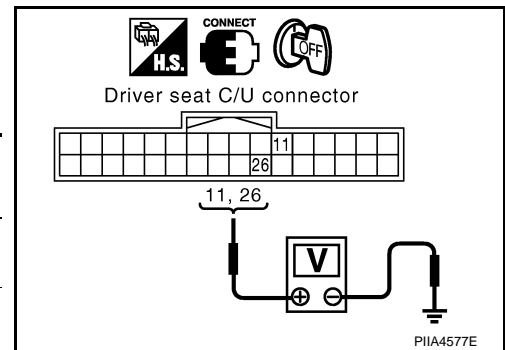
Diagnosis Procedure

INFOID:000000003935511

1. CHECK SLIDING SWITCH SIGNAL

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

| Driver seat control unit connector | Terminals | | Condition | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------|-----------------------|
| | (+) | (-) | | |
| B202 | 11 | Ground | Operate (backward) | 0 |
| | | | Release | Battery voltage |
| | 26 | | Operate (forward) | 0 |
| | | | Release | Battery voltage |



Is the inspection result normal?

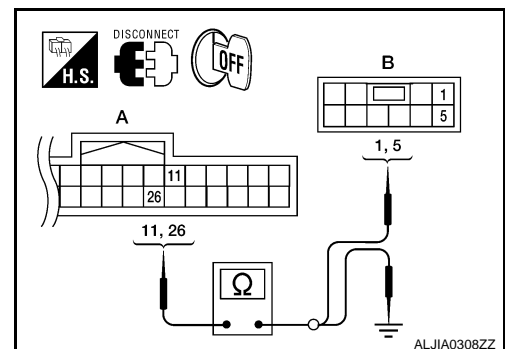
YES >> GO TO 5

NO >> GO TO 2

2. CHECK SLIDING SWITCH CIRCUIT

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

| Driver seat control unit connector | Terminal | Power seat switch LH connector | Terminal | Continuity |
|------------------------------------|----------|--------------------------------|----------|------------|
| B202 (A) | 11 | B208 (B) | 1 | Yes |
| | 26 | | 5 | |



SLIDING SWITCH

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 11 | | |
| | 26 | | |

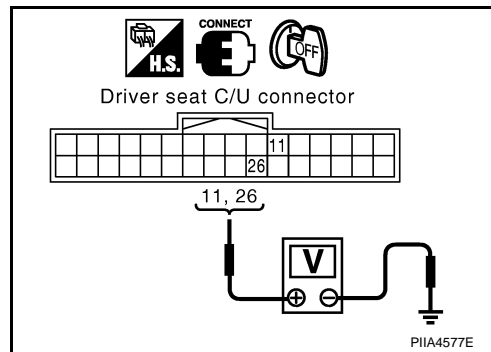
Is the inspection result normal?

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

- Connect the driver seat control unit.
- Turn ignition switch ON.
- Check voltage between driver seat control unit harness connector and ground.

| Driver seat control unit connector | Terminals | | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------------|
| | (+) | (-) | |
| B202 | 11 | Ground | Battery voltage |
| | 26 | | |



Is the inspection result normal?

- YES >> GO TO 4
- NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK SLIDING SWITCH

Refer to [ADP-45, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5
- NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
- NO >> Repair or replace malfunctioning part.

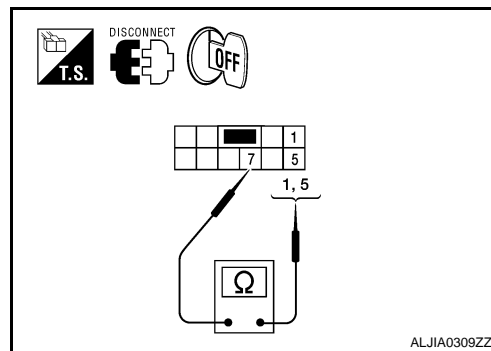
Component Inspection

INFOID:000000003935512

1. CHECK SLIDING SWITCH

- Turn ignition switch OFF.
- Disconnect power seat switch LH.
- Check continuity between power seat switch LH terminals.

| Terminal | Condition | | Continuity |
|----------|-----------|---------------------------|-----------------------------|
| 7 | 1 | Sliding switch (backward) | Operate: Yes Release: No |
| | | 5 | Sliding switch (forward) |



Is the inspection result normal?

- YES >> Inspection End.
- NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

RECLINING SWITCH

< COMPONENT DIAGNOSIS >

RECLINING SWITCH

Description

INFOID:000000003935513

Reclining switch is equipped to the power seat switch LH on the seat cushion trim. The operation signal is input to the driver seat control unit when the reclining switch is operated.

Component Function Check

INFOID:000000003935514

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Inspection End.

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

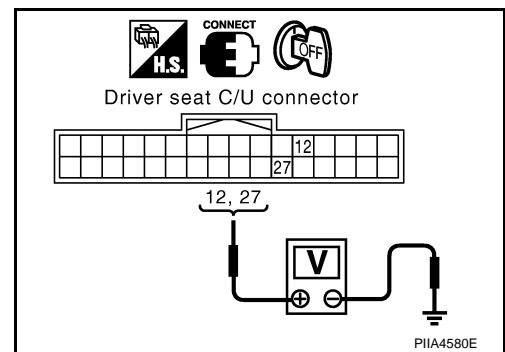
Diagnosis Procedure

INFOID:000000003935515

1. CHECK RECLINING SWITCH SIGNAL

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

| Driver seat control unit connector | Terminals | | Condition | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------|-----------------------|
| | (+) | (-) | | |
| B202 | 12 | Ground | Operate (forward) | 0 |
| | | | Release | Battery voltage |
| | 27 | | Operate (backward) | 0 |
| | | | Release | Battery voltage |



Is the inspection result normal?

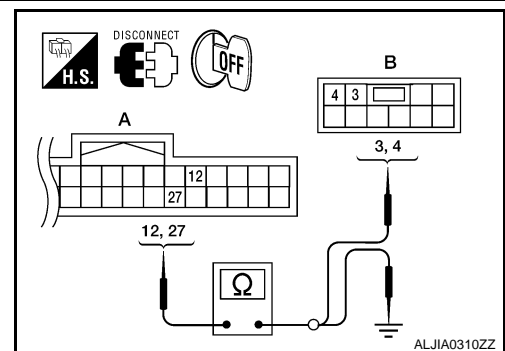
YES >> GO TO 5

NO >> GO TO 2

2. CHECK RECLINING SWITCH CIRCUIT

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

| Driver seat control unit connector | Terminal | Power seat switch LH connector | Terminal | Continuity |
|------------------------------------|----------|--------------------------------|----------|------------|
| B202 (A) | 12 | B208 (B) | 3 | Yes |
| | 27 | | 4 | |



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

RECLINING SWITCH

< COMPONENT DIAGNOSIS >

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 12 | | Ground |
| | 27 | | |

Is the inspection result normal?

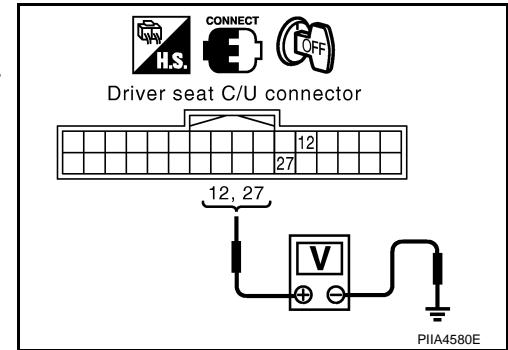
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

| Driver seat control unit connector | Terminals | | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|-----------------------|
| | (+) | (-) | |
| B202 | 12 | Ground | Battery voltage |
| | 27 | | |



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK RECLINING SWITCH

Refer to [ADP-47, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

NO >> Repair or replace the malfunctioning part. Refer to [SE-25, "Exploded View"](#).

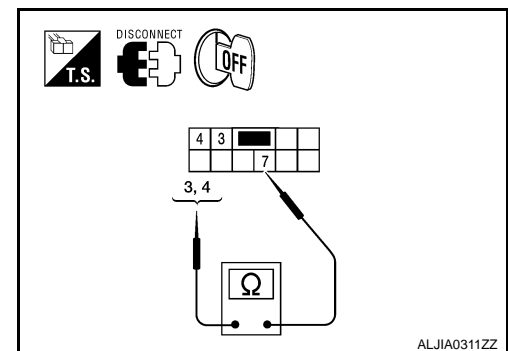
Component Inspection

INFOID:000000003935516

1. CHECK RECLINING SWITCH

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

| Terminals | | Condition | | Continuity |
|----------------------|---|-----------------------------|---------|------------|
| Power seat switch LH | | | | |
| 7 | 3 | Reclining switch (backward) | Operate | Yes |
| | | | Release | No |
| | 4 | Reclining switch (forward) | Operate | Yes |
| | | | Release | No |



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description

INFOID:000000003935517

Lifting switch (front) is equipped to the power seat switch LH on the seat cushion trim. The operation signal is input to the driver seat control unit when the lifting switch (front) is operated.

Component Function Check

INFOID:000000003935518

1. CHECK FUNCTION

1. Select "LIFT FR SW-UP", "LIFT FR SW-DN" in "DATA MONITOR" mode with CONSULT-III.
2. 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-48, "Diagnosis Procedure"](#).

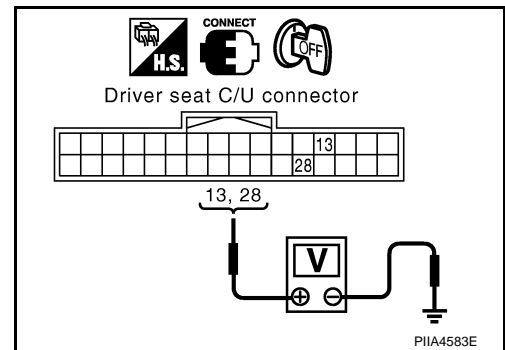
Diagnosis Procedure

INFOID:000000003935519

1. CHECK LIFTING SWITCH SIGNAL

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

| Driver seat control unit connector | Terminals | | Condition | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|----------------|-----------------------|
| | (+) | (-) | | |
| B202 | 13 | Ground | Operate (down) | 0V |
| | | | Release | Battery voltage |
| | 28 | | Operate (up) | 0V |
| | | | Release | Battery voltage |



Is the inspection result normal?

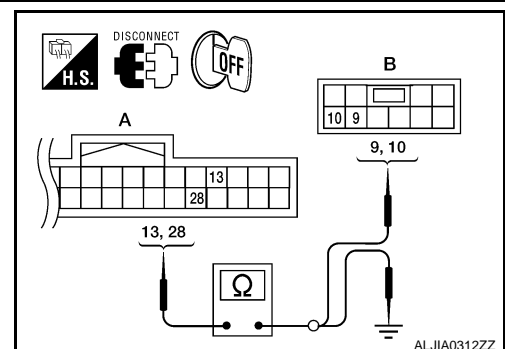
YES >> GO TO 5

NO >> GO TO 2

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

| Driver seat control unit connector | Terminal | Power seat switch LH connector | Terminal | Continuity |
|------------------------------------|----------|--------------------------------|----------|------------|
| B202 (A) | 13 | B208 (B) | 9 | Yes |
| | 28 | | 10 | |



LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 13 | | |
| | 28 | | |

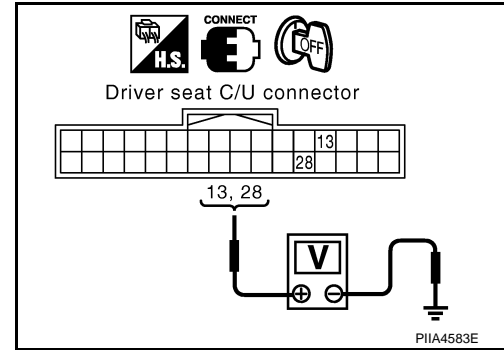
Is the inspection result normal?

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

| Driver seat control unit connector | Terminals | | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------------|
| | (+) | (-) | |
| B202 | 13 | Ground | Battery voltage |
| | 28 | | |



Is the inspection result normal?

- YES >> GO TO 4
 NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK LIFTING SWITCH (FRONT)

Refer to [ADP-49, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5
 NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.

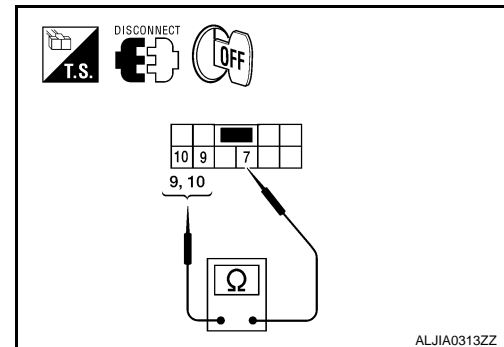
Component Inspection

INFOID:000000003935520

1. CHECK LIFTING SWITCH (FRONT)

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

| Terminal | | Condition | Continuity | |
|----------------------|----|-----------------------------|------------|-----|
| Power seat switch LH | | | | |
| 7 | 9 | Lifting switch front (down) | Operate | Yes |
| | | | Release | No |
| | 10 | Lifting switch front (up) | Operate | Yes |
| | | | Release | No |



Is the inspection result normal?

- YES >> Inspection End.
 NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

LIFTING SWITCH (REAR)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description

INFOID:000000003935521

Lifting switch (rear) is equipped to the power seat switch LH on the seat cushion trim. The operation signal is input to the driver seat control unit when the lifting switch (rear) is operated.

Component Function Check

INFOID:000000003935522

1. CHECK FUNCTION

1. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in "Data monitor" mode with CONSULT-III.
2. 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-50, "Diagnosis Procedure"](#).

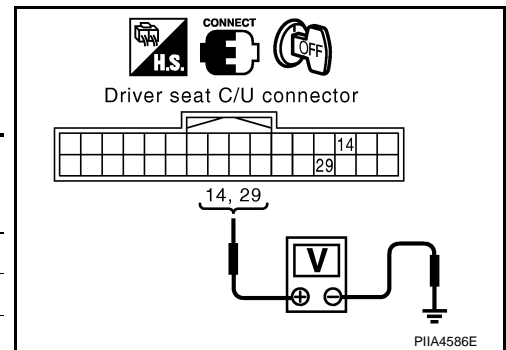
Diagnosis Procedure

INFOID:000000003935523

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

| Driver seat control unit connector | Terminals | | Condition | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|----------------|-----------------------|
| | (+) | (-) | | |
| B202 | 14 | Ground | Operate (down) | 0 |
| | | | Release | Battery voltage |
| | 29 | | Operate (up) | 0 |
| | | | Release | Battery voltage |



Is the inspection result normal?

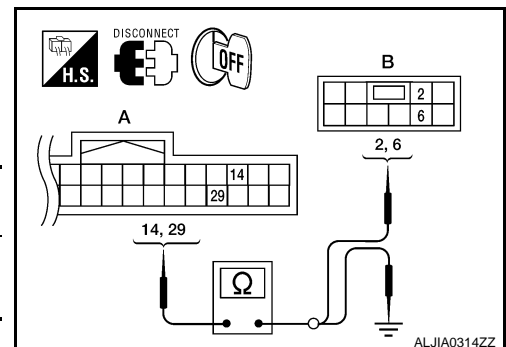
YES >> GO TO 5

NO >> GO TO 2

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

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

| Driver seat control unit connector | Terminal | Power seat switch LH connector | Terminal | Continuity |
|------------------------------------|----------|--------------------------------|----------|------------|
| B202 (A) | 14 | B208 (B) | 2 | Yes |
| | 29 | | 6 | |



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

LIFTING SWITCH (REAR)

< COMPONENT DIAGNOSIS >

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 14 | | Ground |
| | 29 | | |

Is the inspection result normal?

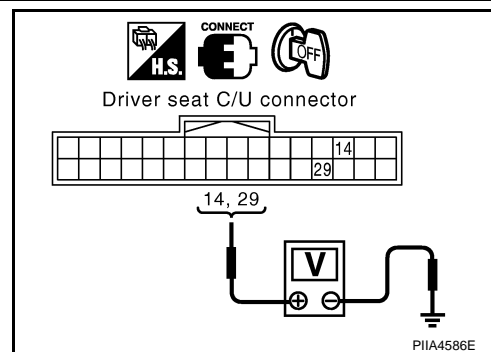
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

| Driver seat control unit connector | Terminals | | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------------|
| | (+) | (-) | |
| B202 | 14 | Ground | Battery voltage |
| | 29 | | |



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK LIFTING SWITCH (REAR)

Refer to [ADP-51, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

NO >> Repair or replace the malfunctioning part.

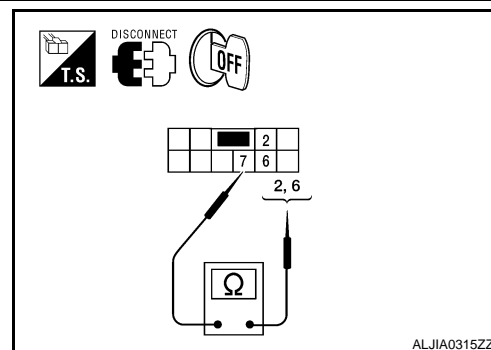
Component Inspection

INFOID:0000000003935524

1. CHECK LIFTING SWITCH (REAR)

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

| Terminal | | Condition | Continuity | |
|----------------------|---|----------------------------|------------|-----|
| Power seat switch LH | | | | |
| 7 | 2 | Lifting switch rear (up) | Operate | Yes |
| | | | Release | No |
| | 6 | Lifting switch rear (down) | Operate | Yes |
| | | | Release | No |



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to [SE-25, "Exploded View"](#).

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SWITCH

Description

INFOID:000000003935525

Pedal adjusting switch is on the instrument panel. The operation signal is input to the driver seat control unit when the pedal adjusting switch is operated. The pedal adjusting switch signal is sent to the automatic drive positioner control unit via UART communication.

Component Function Check

INFOID:000000003935526

1. CHECK FUNCTION

1. Select "PEDAL SW-FR", "PEDAL SW-RR" in "Data monitor" mode with CONSULT-III.
2. Check pedal adjusting switch signal under the following conditions.

| Monitor item | Condition | Status | |
|--------------|-----------------------------------|---------|-----|
| PEDAL SW-FR | Pedal adjusting switch (forward) | Operate | ON |
| | | Release | OFF |
| PEDAL SW-RR | Pedal adjusting switch (backward) | Operate | ON |
| | | Release | OFF |

Is the indication normal?

YES >> Inspection End.

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

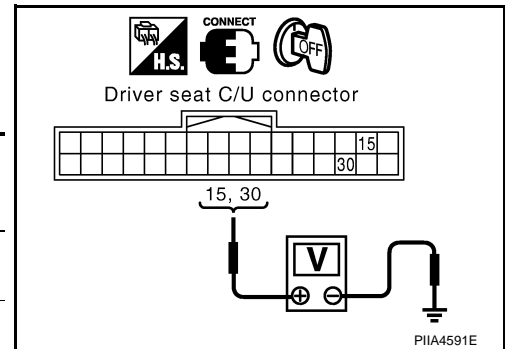
Diagnosis Procedure

INFOID:000000003935527

1. CHECK PEDAL ADJUSTING SWITCH SIGNAL

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

| Driver seat control unit connector | Terminals | | Condition | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------|-----------------------|
| | (+) | (-) | | |
| B202 | 15 | Ground | Operate (backward) | 0 |
| | | | Release | Battery voltage |
| | 30 | | Operate (forward) | 0 |
| | | | Release | Battery voltage |



Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

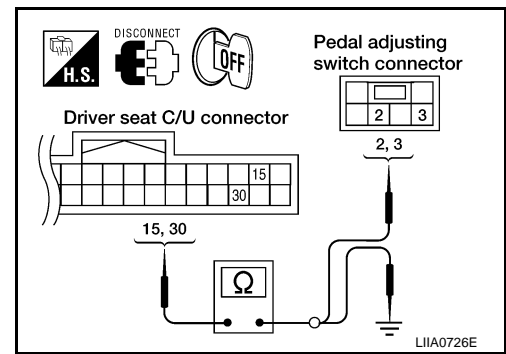
2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Pedal adjusting switch connector | Terminal | Continuity |
|------------------------------------|----------|----------------------------------|----------|------------|
| B202 | 15 | M96 | 2 | Yes |
| | 30 | | 3 | |



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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 | 15 | Ground | No |
| | 30 | | |

Is the inspection result normal?

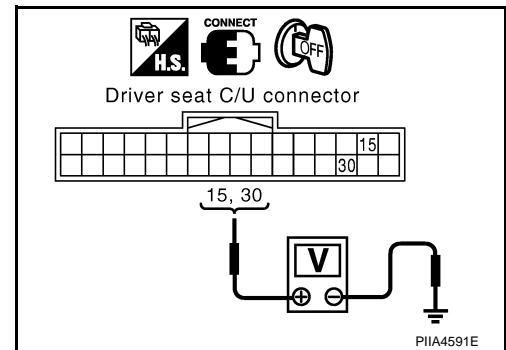
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

| Driver seat control unit connector | Terminals | | Voltage (V) (Approx.) |
|------------------------------------|-----------|--------|--------------------------|
| | (+) | (-) | |
| B202 | 15 | Ground | Battery voltage |
| | 30 | | |



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK PEDAL ADJUSTING SWITCH

Refer to [ADP-54, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace pedal adjusting switch.

5. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

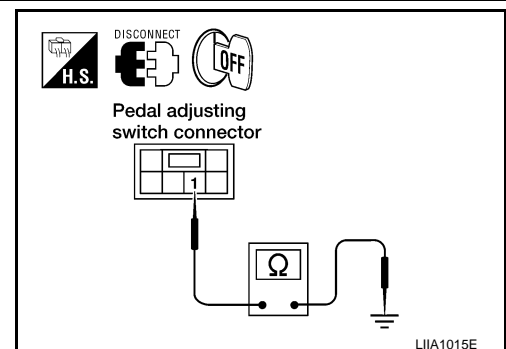
Check continuity between pedal adjusting switch connector M96 terminal 1 and ground.

1 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace or replace harness.



6. CHECK INTERMITTENT INCIDENT

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).
 NO >> Repair or replace the malfunctioning part.

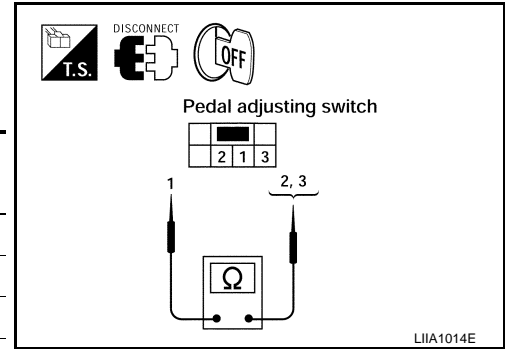
Component Inspection

INFOID:000000003935528

1. CHECK PEDAL ADJUSTING SWITCH

1. Turn ignition switch OFF.
2. Disconnect pedal adjusting switch.
3. Check continuity between pedal adjusting switch terminals.

| Terminal | | Condition | | Continuity |
|------------------------|---|-----------------------------------|---------|------------|
| Pedal adjusting switch | | | | |
| 1 | 2 | Pedal adjusting switch (backward) | Operate | Yes |
| | | | Release | No |
| 1 | 3 | Pedal adjusting switch (forward) | Operate | Yes |
| | | | Release | No |



Is the inspection result normal?

- YES >> Inspection End.
 NO >> Replace pedal adjusting switch.

SEAT MEMORY SWITCH

< COMPONENT DIAGNOSIS >

SEAT MEMORY SWITCH

Description

INFOID:000000003935529

Memory switch is equipped on the seat memory switch installed to the front door LH trim. The operation signal is input to the automatic drive positioner control unit when the memory switch is operated.

Component Function Check

INFOID:000000003935530

1. CHECK FUNCTION

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

| Monitor item | Condition | Status | |
|--------------|-----------------|---------|-----|
| MEMORY SW1 | Memory switch 1 | Push | ON |
| | | Release | OFF |
| MEMORY SW2 | Memory switch 2 | Push | ON |
| | | Release | OFF |
| SET SW | Set switch | Push | ON |
| | | Release | OFF |

Is the indication normal?

YES >> Inspection End.

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

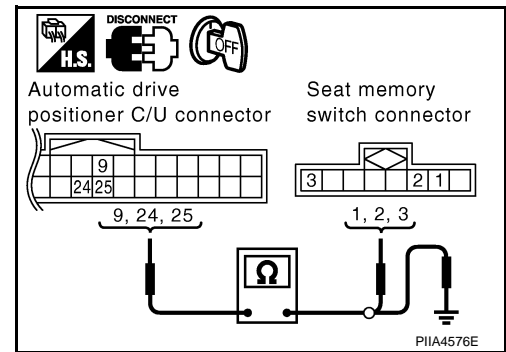
Diagnosis Procedure

INFOID:000000003935531

1. CHECK MEMORY SWITCH CIRCUIT

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

| Automatic drive positioner control unit connector | Terminal | Seat memory switch connector | Terminal | Continuity |
|---|----------|------------------------------|----------|------------|
| M33 | 9 | D5 | 1 | Yes |
| | 24 | | 3 | |
| | 25 | | 2 | |



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

| Automatic drive positioner control unit connector | Terminal | Continuity |
|---|----------|------------|
| M33 | 9 | No |
| | 24 | |
| | 25 | |

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK MEMORY SWITCH GROUND CIRCUIT

SEAT MEMORY SWITCH

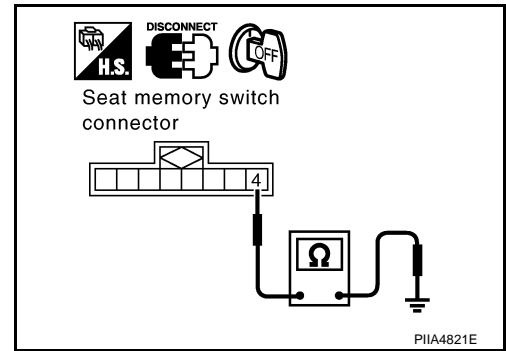
< COMPONENT DIAGNOSIS >

Check continuity between seat memory switch harness connector and ground.

| Seat memory switch connector | Terminal | Ground | Continuity |
|------------------------------|----------|--------|------------|
| D5 | 4 | | Yes |

Is the inspection result normal?

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



3. CHECK SEAT MEMORY SWITCH

Refer to [ADP-56, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4
 NO >> Replace seat memory switch. Refer to [INT-14, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).
 NO >> Repair or replace the malfunctioning part.

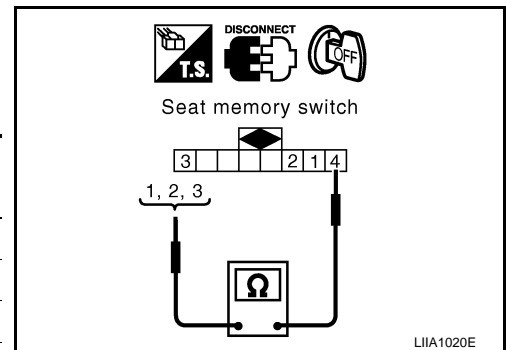
Component Inspection

INFOID:000000003935532

1. CHECK SEAT MEMORY SWITCH

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

| Terminal | | Condition | | Continuity |
|--------------------|---|-----------------|---------|------------|
| Seat memory switch | | | | |
| 4 | 1 | Memory switch 1 | Push | Yes |
| | | | Release | No |
| | 2 | Memory switch 2 | Push | Yes |
| | | | Release | No |
| | 3 | Set switch | Push | Yes |
| | | | Release | No |



Is the inspection result normal?

- YES >> Inspection End.
 NO >> Replace seat memory switch.

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

INFOID:000000003935533

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:000000003935534

1. CHECK CHANGEOVER SWITCH FUNCTION

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

Refer to [ADP-25, "CONSULT-III Function"](#).

Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to [ADP-57, "CHANGEOVER SWITCH : Diagnosis Procedure"](#).

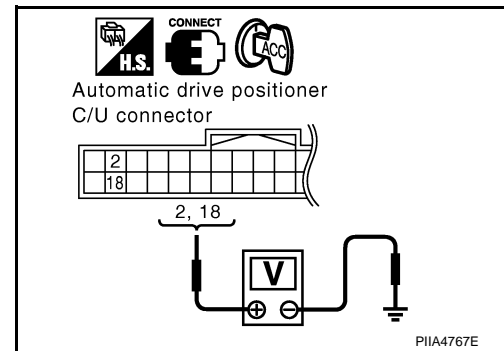
CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000003935535

1. CHECK CHANGEOVER SWITCH SIGNAL

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

| Terminals | | (-) | Change over switch condition | Voltage (V) (Approx.) |
|--|----------|--------|------------------------------|--------------------------|
| (+) | Terminal | | | |
| Automatic drive positioner control unit connector M33 | 2 | Ground | RIGHT | 0 |
| | | | Other than above | 5 |
| | 18 | | LEFT | 0 |
| | | | Other than above | 5 |



Is the inspection result normal?

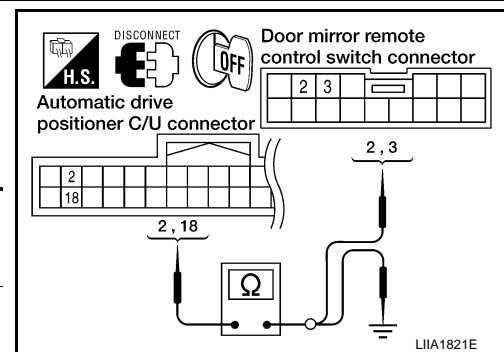
YES >> GO TO 6

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

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

| Automatic drive positioner control unit connector | Terminal | Door mirror remote control switch connector | Terminal | Continuity |
|---|----------|---|----------|------------|
| M33 | 2 | M163 | 3 | Yes |
| | 18 | | 2 | |



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

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 2 | | |
| | 18 | | |

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

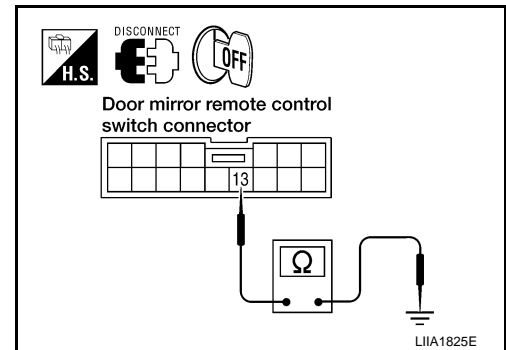
Check continuity between door mirror remote control switch connector and ground.

| Door mirror remote control switch connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M163 | 13 | | Yes |

Is the inspection result normal?

YES >> GO TO 4

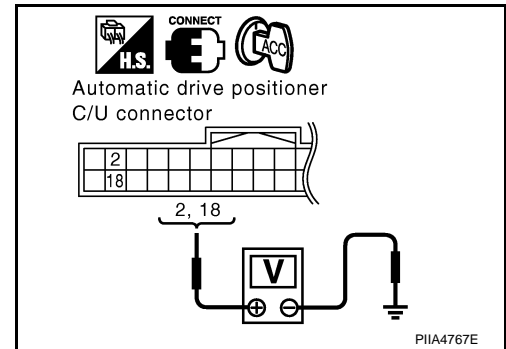
NO >> Repair or replace harness.



4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

| Terminals | | (-) | Voltage (V) (Approx.) |
|---|----------|--------|--------------------------|
| (+) | Terminal | | |
| Automatic drive positioner control unit connector | 2 | Ground | 5 |
| | 18 | | |



Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).

5. CHECK CHANGEOVER SWITCH

Check changeover switch.

Refer to [ADP-58, "CHANGEOVER SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-49, "Intermittent Incident"](#).

NO >> Replace door mirror remote control switch. Refer to [INT-14, "Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

CHANGEOVER SWITCH : Component Inspection

1. CHECK CHANGEOVER SWITCH

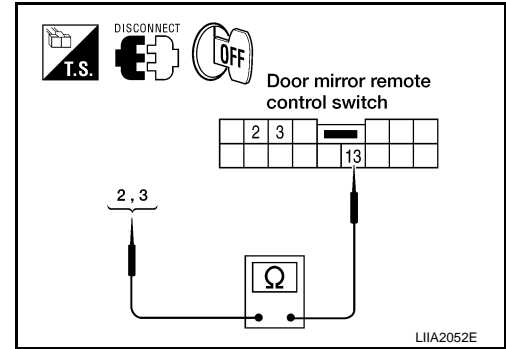
INFOID:000000003935536

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

Check door mirror remote control switch.

| Terminal | | Change over switch condition | Continuity |
|-----------------------------------|----|------------------------------|------------|
| Door mirror remote control switch | | | |
| 2 | 13 | LEFT | Yes |
| | | Other than above | No |
| 3 | | RIGHT | Yes |
| | | Other than above | No |



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to [ADP-161, "Removal and Installation"](#).

MIRROR SWITCH

MIRROR SWITCH : Description

INFOID:000000003935537

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:000000003935538

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-III.

Refer to [ADP-25, "CONSULT-III Function"](#).

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to [ADP-59, "MIRROR SWITCH : Diagnosis Procedure"](#).

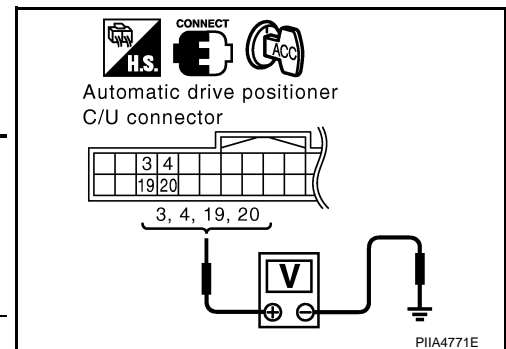
MIRROR SWITCH : Diagnosis Procedure

INFOID:000000003935539

1. CHECK MIRROR SWITCH FUNCTION

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

| Terminals | | Mirror switch Condition | Voltage (V) (Approx.) |
|---|----------|-------------------------|-----------------------|
| (+) | (-) | | |
| Automatic drive positioner control unit connector | Terminal | | |
| M33 | Ground | UP | 0 |
| | | Other than above | 5 |
| | | LEFT | 0 |
| | | Other than above | 5 |
| | Ground | DOWN | 0 |
| | | Other than above | 5 |
| | | RIGHT | 0 |
| | | Other than above | 5 |



Is the inspection result normal?

YES >> GO TO 6

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

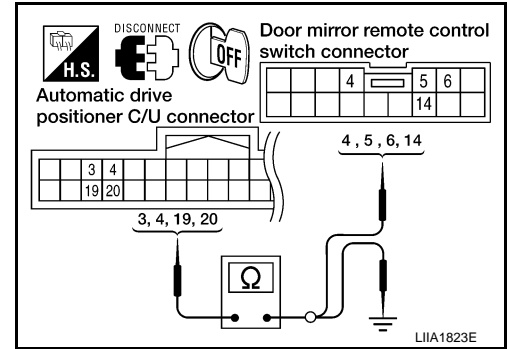
A
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DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

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

| Automatic drive positioner control unit connector | Terminal | Door mirror remote control switch connector | Terminal | Continuity |
|---|----------|---|----------|------------|
| M33 | 3 | M163 | 6 | Yes |
| | 4 | | 5 | |
| | 19 | | 14 | |
| | 20 | | 4 | |



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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 3 | Ground | No |
| | 4 | | |
| | 19 | | |
| | 20 | | |

Is the inspection result normal?

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

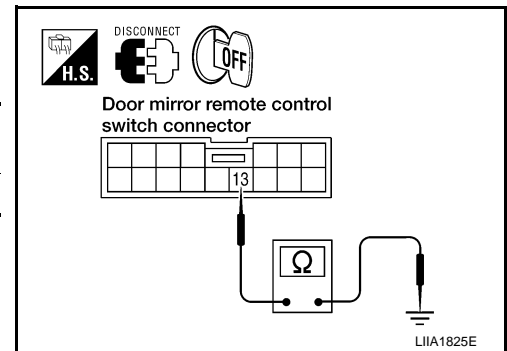
3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

| Door mirror remote control switch connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M163 | 13 | Ground | Yes |

Is the inspection result normal?

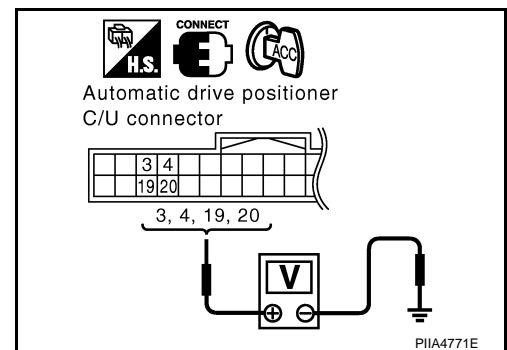
- YES >> GO TO 4
 NO >> Repair or replace harness.



4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

| Terminals | | (-) | Voltage (V) (Approx.) |
|---|----------|--------|--------------------------|
| (+) | Terminal | | |
| Automatic drive positioner control unit connector | 3 | Ground | 5 |
| | 4 | | |
| | 19 | | |
| | 20 | | |



Is the inspection result normal?

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

YES >> GO TO 5

NO >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).

5. CHECK MIRROR SWITCH

Check mirror switch.

Refer to [ADP-61, "MIRROR SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-49, "Intermittent Incident"](#).

NO >> Replace door mirror remote control switch. Refer to [ADP-161, "Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

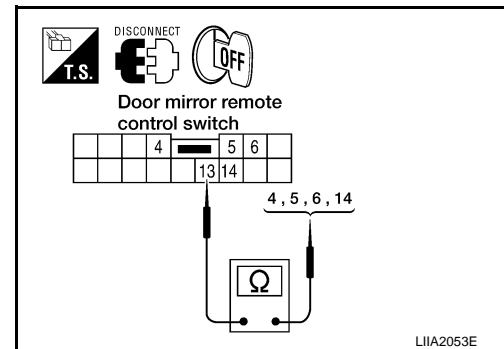
MIRROR SWITCH : Component Inspection

INFOID:000000003935540

1. CHECK MIRROR SWITCH

Check door mirror remote control switch.

| Terminal | | Mirror switch condition | Continuity |
|-----------------------------------|------------------|-------------------------|------------|
| Door mirror remote control switch | | | |
| 4 | 13 | RIGHT | Yes |
| | | Other than above | No |
| 5 | | LEFT | Yes |
| | | Other than above | No |
| 6 | | UP | Yes |
| | | Other than above | No |
| 14 | DOWN | Yes | |
| | Other than above | No | |



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to [ADP-161, "Removal and Installation"](#).

POWER SEAT SWITCH GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000003935541

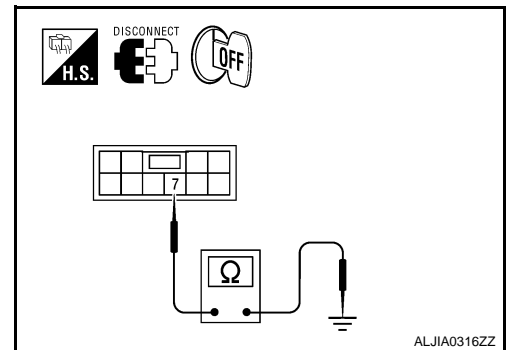
1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

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

| Power seat switch LH connector | Terminal | Ground | Continuity |
|--------------------------------|----------|--------|------------|
| B208 | 7 | | Yes |

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-49. "Intermittent Incident"](#).
- NO >> Repair or replace harness.



DETENTION SWITCH

< COMPONENT DIAGNOSIS >

DETENTION SWITCH

Description

INFOID:000000003935542

Park position switch is installed on A/T device. It is turned OFF when the A/T selector lever is in P position. The driver seat control unit judges that the A/T selector lever is in P position if continuity does not exist in this circuit.

Component Function Check

INFOID:000000003935543

1. CHECK FUNCTION

1. Select "DETENT SW" signal in "Data monitor" mode with CONSULT-III.
2. Check park position switch signal under the following conditions.

| Monitor item | Condition | | Status |
|--------------|--------------------|------------------|--------|
| DETENT SW | A/T selector lever | P position | OFF |
| | | Other than above | ON |

Is the indication normal?

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

Diagnosis Procedure

INFOID:000000003935544

1. CHECK DTC WITH "BCM"

Check "Self Diagnostic Result" for BCM with CONSULT-III.

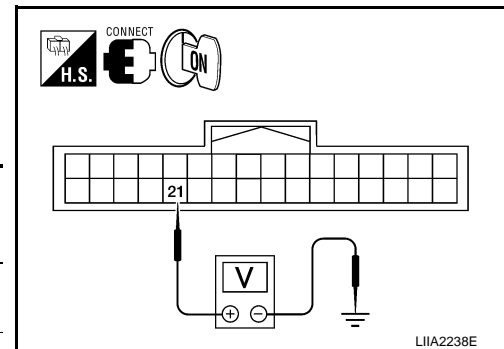
Is any other DTC detected?

- YES >> Check the DTC.
 NO >> GO TO 2

2. CHECK PARK POSITION SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Mechanical key must be removed from the key switch.
3. Check voltage between driver seat control unit harness connector and ground.

| Driver seat control unit connector | Terminal | | Condition | Voltage (V) (Approx.) |
|------------------------------------|----------|--------|--------------------|-----------------------|
| | (+) | (-) | | |
| B202 | 21 | Ground | A/T selector lever | Battery voltage |
| | | | Other than above | 0V |



Is the inspection result normal?

- YES >> GO TO 4
 NO >> GO TO 3

3. CHECK PARK POSITION SWITCH CIRCUIT

DETENTION SWITCH

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and A/T device.
3. Check continuity between driver seat control unit harness connector and A/T device harness connector.

| Driver seat control unit | | A/T device | | Continuity |
|--------------------------|----------|------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B202 | 21 | M158 | 4 | Yes |

4. Check continuity between A/T device harness connector and ground.

| A/T device | | Ground | Continuity |
|------------|----------|--------|------------|
| Connector | Terminal | | |
| M158 | 4 | | No |

Is the inspection result normal?

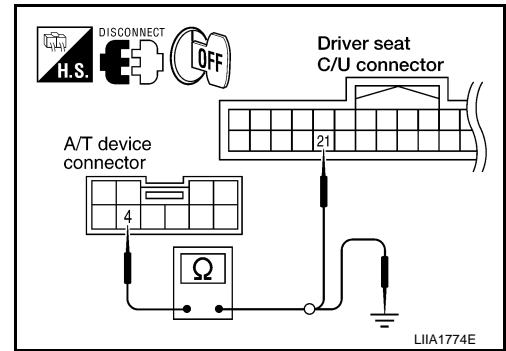
- YES >> GO TO 4
 NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

FRONT DOOR SWITCH (DRIVER SIDE)

Description

INFOID:000000003935545

Detects front door LH open/close condition.

Component Function Check

INFOID:000000003935546

1. CHECK FUNCTION

1. Select "DOOR SW-DR" in "Data monitor" mode with CONSULT-III.
2. Check the front door switch LH signal under the following conditions.

| Monitor item | Condition | | Status |
|--------------|----------------------|-------|--------|
| DOOR SW-DR | Front door switch LH | Open | ON |
| | | Close | OFF |

Is the inspection result normal?

YES >> Inspection End.

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

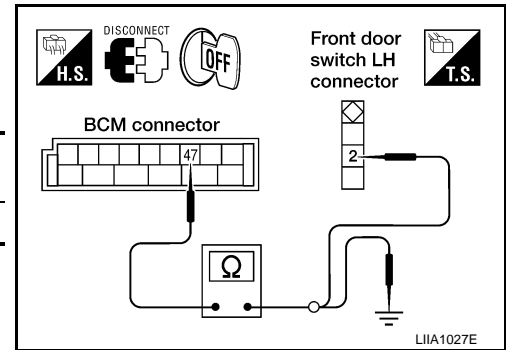
Diagnosis Procedure

INFOID:000000003935547

1. CHECK FRONT DOOR SWITCH LH CIRCUIT

1. Disconnect BCM.
2. Check continuity between BCM connector and front door switch LH connector.

| BCM connector | Terminal | Front door switch LH connector | Terminal | Continuity |
|---------------|----------|--------------------------------|----------|------------|
| M19 | 47 | B8 | 2 | Yes |



3. Check continuity between BCM connector and ground.

| BCM connector | Terminal | Ground | Continuity |
|---------------|----------|--------|------------|
| M19 | 47 | | No |

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK FRONT DOOR SWITCH LH

Refer to [ADP-65, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace front door switch LH.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-59, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:000000003935548

1. CHECK FRONT DOOR SWITCH LH

FRONT DOOR SWITCH (DRIVER SIDE)

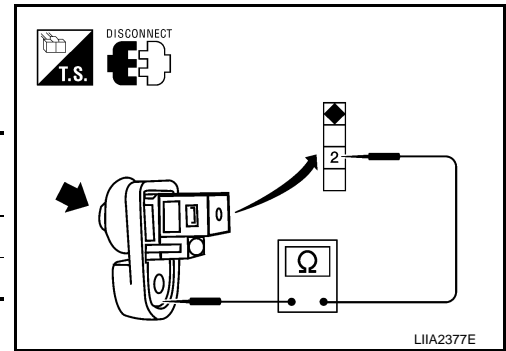
< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect front door switch LH.
3. Check continuity between front door switch LH terminals.

| Terminal | | Condition | | Continuity |
|----------------------|----------------------------|----------------------|----------|------------|
| Front door switch LH | | | | |
| 2 | Ground part of door switch | Front door switch LH | Pushed | No |
| | | | Released | Yes |

Is the inspection result normal?

- YES >> Inspection End.
 NO >> Replace front door switch LH.



SLIDING SENSOR

< COMPONENT DIAGNOSIS >

SLIDING SENSOR

Description

INFOID:000000003935549

- The sliding sensor is installed to the seat frame assembly.
- The pulse signal is input 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:000000003935550

1. CHECK FUNCTION

1. Select "SLIDE PULSE" in "Data monitor" mode with CONSULT-III.
2. Check sliding sensor signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

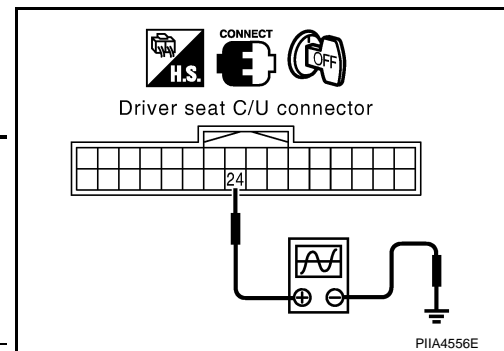
NO >> Perform diagnosis procedure. Refer to [ADP-67, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935551

1. CHECK SLIDING SENSOR SIGNAL

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



| Terminals | | | Condition | Voltage signal |
|----------------------------|----------|--------|------------------|----------------|
| (+) | | (-) | | |
| Driver's seat control unit | Terminal | | | |
| B202 | 24 | Ground | Seat sliding | |
| | | | Other than above | 0 or 5 |

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

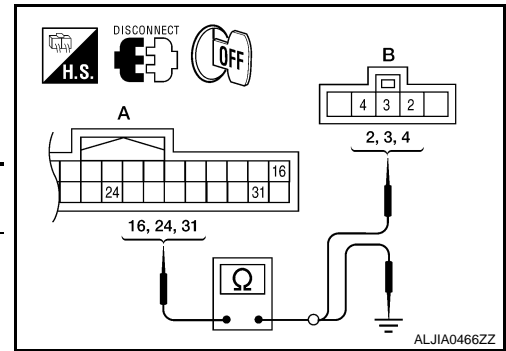
2. CHECK SLIDING SENSOR CIRCUITS

SLIDING SENSOR

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Sliding motor LH connector | Terminal | Continuity |
|------------------------------------|----------|----------------------------|----------|------------|
| B202 (A) | 16 | B204 (B) | 3 | Yes |
| | 24 | | 4 | |
| | 31 | | 2 | |



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

| Driver seat control unit connector | Terminal | | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 16 | Ground | No |
| | 24 | | |
| | 31 | | |

Is the inspection result normal?

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

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and sliding motor LH.
2. Check seat operation (except sliding operation) with memory function.

Is the inspection result normal?

- YES >> Replace sliding motor LH. Refer to [SE-25, "Exploded View"](#).
 NO >> Replace driver seat control unit. Referr to [SE-25, "Exploded View"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.

RECLINING SENSOR

< COMPONENT DIAGNOSIS >

RECLINING SENSOR

Description

INFOID:000000003935552

- The reclining motor is installed to the seat frame assembly.
- 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:000000003935553

1. CHECK FUNCTION

1. Select "RECLN PULSE" in "Data monitor" mode with CONSULT-III.
2. Check reclining sensor signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

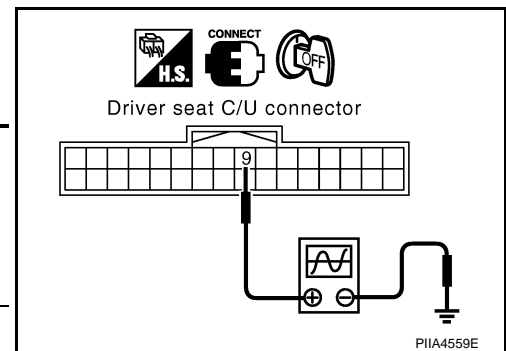
NO >> Perform diagnosis procedure. Refer to [ADP-69, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935554

1. CHECK RECLINING SENSOR SIGNAL

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



| Terminals | | Condition | Voltage signal |
|--------------------------|----------|-----------|---|
| (+) | (-) | | |
| Driver seat control unit | Terminal | | |
| B202 | 9 | Ground | <p>Operate</p> <p>Other than above</p> <p>0 or 5</p> <p>SIIA0692J</p> |

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

2. CHECK RECLINING SENSOR CIRCUIT

RECLINING SENSOR

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Reclining motor connector | Terminal | Continuity |
|------------------------------------|----------|---------------------------|----------|------------|
| B202 (A) | 9 | B232 (B) | 1 | Yes |
| | 31 | | 4 | |

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 9 | | No |
| | 31 | | |

Is the inspection result normal?

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

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and reclining motor LH connector.
2. Check seat operation (except reclining operation) with memory function.

Is the operation normal?

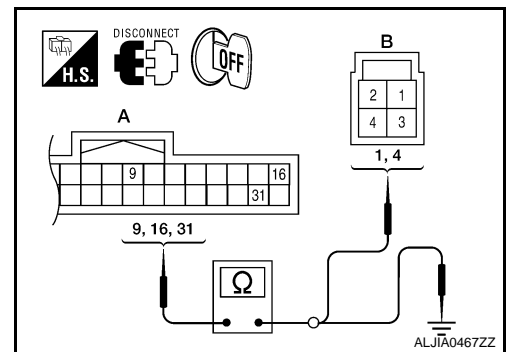
- YES >> Replace reclining motor LH. Refer to [SE-25. "Exploded View"](#).
 NO >> Replace driver seat control unit. Refer to [SE-25. "Exploded View"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25. "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



LIFTING SENSOR (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description

INFOID:000000003935555

- The lifting sensor (front) is installed to the seat frame assembly.
- The pulse signal is input 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:000000003935556

1. CHECK FUNCTION

1. Select "LIFT FR PULSE" in "Data monitor" mode with CONSULT-III.
2. Check the lifting sensor (front) signal under the following conditions.

| Monitor item | Condition | | Value |
|---------------|----------------------|----------------|-------------------|
| LIFT FR PULSE | Seat lifting (front) | Operate (up) | Change (increase) |
| | | Operate (down) | Change (decrease) |
| | Release | No change | |

Is the indication normal?

YES >> Inspection End.

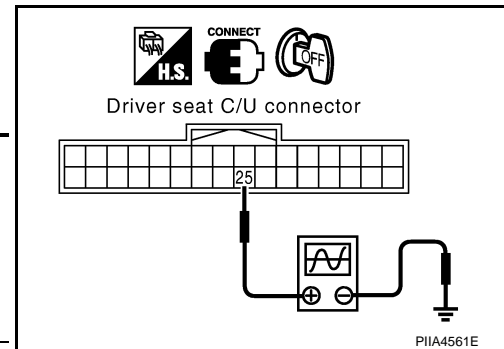
NO >> Perform diagnosis procedure. Refer to [ADP-71, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935557

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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



| Terminals | | (-) | Condition | Voltage signal |
|------------------------------------|----------|--------|----------------------|------------------|
| (+) | Terminal | | | |
| Driver seat control unit connector | | | | |
| B202 | 25 | Ground | Seat lifting (front) | <p>SIIA0691J</p> |
| | | | Other than above | 0 or 5 |

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

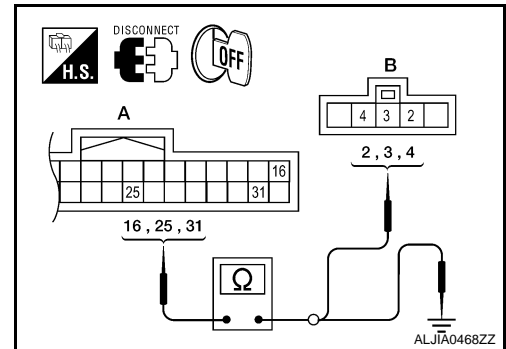
2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

LIFTING SENSOR (FRONT)

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Lifting motor (front) connector | Terminal | Continuity |
|------------------------------------|----------|---------------------------------|----------|------------|
| B202 (A) | 16 | B206 (B) | 3 | Yes |
| | 25 | | 4 | |
| | 31 | | 2 | |



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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 16 | Ground | No |
| | 25 | | |
| | 31 | | |

Is the inspection result normal?

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

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and lifting motor (front).
2. Check seat operation [except lifting (front) operation] with memory function.

Is the operation normal?

- YES >> Replace lifting motor (front). Refer to [SE-25, "Exploded View"](#).
 NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.

LIFTING SENSOR (REAR)

< COMPONENT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description

INFOID:000000003935558

- The lifting sensor (rear) is installed to the seat frame assembly.
- The pulse signal is input 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:000000003935559

1. CHECK FUNCTION

1. Select "LIFT RR PULSE" in "Data monitor" mode with CONSULT-III.
2. Check lifting sensor (rear) signal under the following conditions.

| Monitor item | Condition | | Value |
|---------------|---------------------|----------------|-------------------|
| LIFT RR PULSE | Seat lifting (rear) | Operate (up) | Change (increase) |
| | | Operate (down) | Change (decrease) |
| | | Release | No change |

Is the indication normal?

YES >> Inspection End.

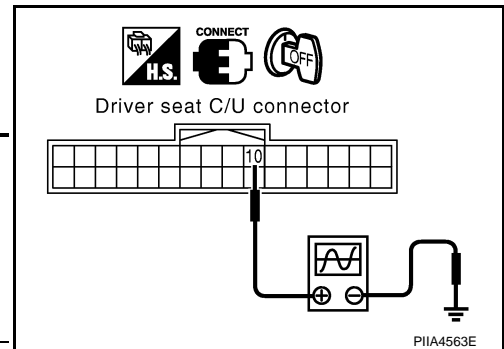
NO >> Perform diagnosis procedure. Refer to [ADP-73, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935560

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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



| Terminals | | (-) | Condition | Voltage signal |
|------------------------------------|----------|--------|---------------------|------------------|
| (+) | Terminal | | | |
| Driver seat control unit connector | | | | |
| B202 | 10 | Ground | Seat lifting (rear) | <p>SIIA0693J</p> |
| | | | Other than above | 0 or 5 |

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

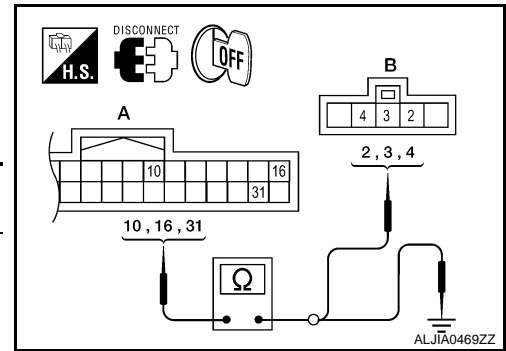
2. CHECK LIFTING SENSOR (REAR) CIRCUIT

LIFTING SENSOR (REAR)

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Lifting motor (rear) connector | Terminal | Continuity |
|------------------------------------|----------|--------------------------------|----------|------------|
| B202 (A) | 10 | B207 (B) | 4 | Yes |
| | 16 | | 3 | |
| | 31 | | 2 | |



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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B202 (A) | 10 | Ground | No |
| | 16 | | |
| | 31 | | |

Is the inspection result normal?

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

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and lifting motor (rear) connector.
2. Check the seat operation [except lifting (rear) operation] with memory function.

Is the operation normal?

- YES >> Replace lifting motor (rear). Refer to [SE-25, "Exploded View"](#).
 NO >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.

PEDAL ADJUSTING SENSOR

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SENSOR

Description

INFOID:000000003935561

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

Component Function Check

INFOID:000000003935562

1. CHECK FUNCTION

1. Select "PEDAL SEN" in "Data monitor" mode with CONSULT-III.
2. Check the pedal sensor signal under the following condition.

| Monitor item | Condition | Value |
|--------------|----------------|----------|
| PEDAL SEN | Pedal position | Forward |
| | | Backward |
| | | 0.5V |
| | | 4.5V |

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to [ADP-75, "Diagnosis Procedure"](#).

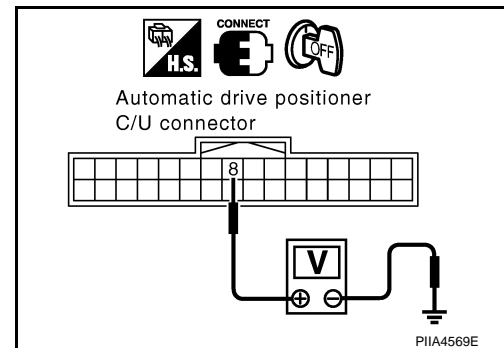
Diagnosis Procedure

INFOID:000000003935563

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

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

| Terminal | | (-) | Condition | Voltage (V) (Approx.) |
|---|----------|--------|-------------------------|--------------------------|
| (+) | Terminal | | | |
| Automatic drive positioner control unit | | | | |
| M33 | 8 | Ground | Pedal assembly position | |
| | | | Forward | 0.5 |
| | | | Backward | 4.5 |



Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT

PEDAL ADJUSTING SENSOR

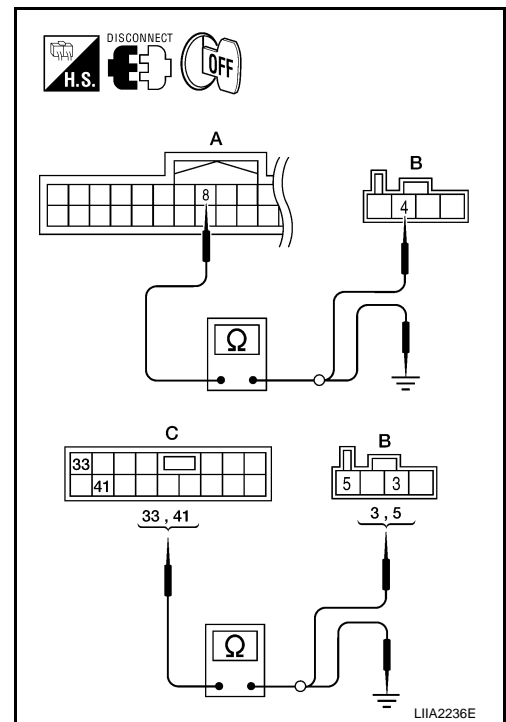
< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
3. Check continuity between automatic drive positioner control unit harness connector and pedal adjusting motor assembly harness connector.

| Automatic drive positioner control unit connector | Terminal | Pedal adjusting motor assembly connector | Terminal | Continuity |
|---|----------|--|----------|------------|
| M33 (A) | 8 | E110 (B) | 4 | Yes |
| M34 (C) | 33 | | 5 | |
| | 41 | | 3 | |

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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 (A) | 8 | Ground | No |
| M34 (C) | 33 | | |
| | 41 | | |



Is the inspection result normal?

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

3. CHECK DOOR MIRROR OPERATION

1. Connect automatic drive positioner control unit and pedal adjusting motor assembly.
2. Turn ignition switch ON.
3. Check door mirror operation with memory function.

Is the operation normal?

- YES >> Replace pedal adjusting motor assembly. Refer to [BR-23. "Removal and Installation"](#).
 NO >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).
 NO >> Repair or replace the malfunctioning part.

MIRROR SENSOR

< COMPONENT DIAGNOSIS >

MIRROR SENSOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000003935564

- The mirror sensor LH is installed to the door mirror LH.
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror LH 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:000000003935565

1. CHECK FUNCTION

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

| Monitor item | Condition | Value |
|----------------|---------------------|-------|
| MIR/SEN LH U-D | Close to peak | 3.4V |
| | Close to valley | 0.6V |
| MIR/SEN LH R-L | Close to right edge | 3.4V |
| | Close to left edge | 0.6V |

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to [ADP-77, "DRIVER SIDE : Diagnosis Procedure"](#).

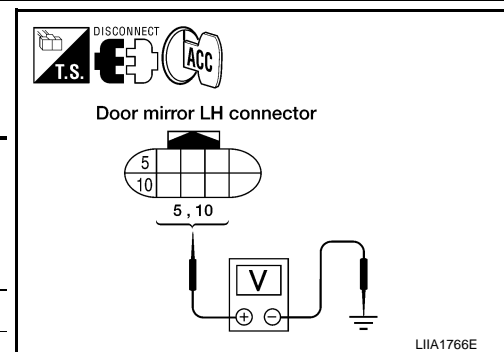
DRIVER SIDE : Diagnosis Procedure

INFOID:000000003935566

1. CHECK DOOR MIRROR LH SENSOR SIGNAL

1. Turn ignition switch to ACC.
2. Check voltage between door mirror LH harness connector and ground.

| Terminals | | (-) | Condition | Voltage (V) (Approx.) | |
|-----------------------------|----------|--------|--------------------|--------------------------|-----|
| (+) | Terminal | | | | |
| Door mirror LH connector | 10 | Ground | Door mirror LH | Close to peak | 3.4 |
| | D18 | | 5 | Close to valley | 0.6 |
| Close to right edge | | | | 3.4 | |
| | | | Close to left edge | 0.6 | |



Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

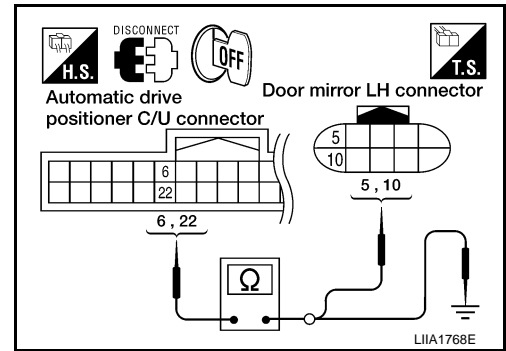
2. CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

MIRROR SENSOR

< COMPONENT DIAGNOSIS >

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

| Automatic drive positioner control unit connector | Terminal | Door mirror LH connector | Terminal | Continuity |
|---|----------|--------------------------|----------|------------|
| M33 | 6 | D18 | 10 | Yes |
| | 22 | | 5 | |



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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 6 | Ground | No |
| | 22 | | |

Is the inspection result normal?

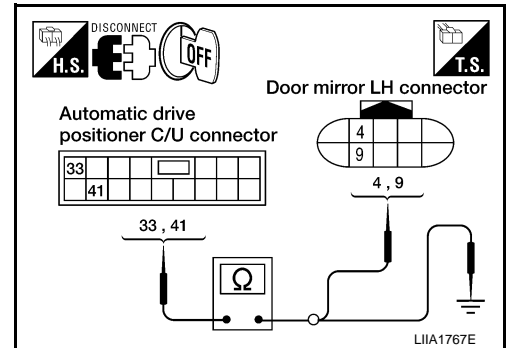
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

1. Check continuity between automatic drive positioner control unit harness connector and door mirror LH harness connector.

| Automatic drive positioner control unit connector | Terminal | Door mirror LH connector | Terminal | Continuity |
|---|----------|--------------------------|----------|------------|
| M34 | 33 | D18 | 4 | Yes |
| | 41 | | 9 | |



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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M34 | 33 | Ground | No |
| | 41 | | |

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

1. Connect driver seat control unit connector and door mirror LH connector.
2. Turn ignition switch ON.
3. Check pedal adjusting operation with memory function.

Is the operation normal?

YES >> Replace door mirror actuator LH. Refer to [MIR-15. "Door Mirror Assembly"](#).

NO >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

MIRROR SENSOR

< COMPONENT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000003935567

- The mirror sensor RH is installed to the door mirror RH.
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror RH 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:000000003935568

1. CHECK FUNCTION

1. Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in "Data monitor" with CONSULT-III.
2. Check the mirror sensor RH signal under the following conditions.

| Monitor item | Condition | Value |
|----------------|---------------------|-------|
| MIR/SEN RH U-D | Close to peak | 3.4V |
| | Close to valley | 0.6V |
| MIR/SEN RH R-L | Close to right edge | 3.4V |
| | Close to left edge | 0.6V |

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to [ADP-79, "PASSENGER SIDE : Diagnosis Procedure"](#).

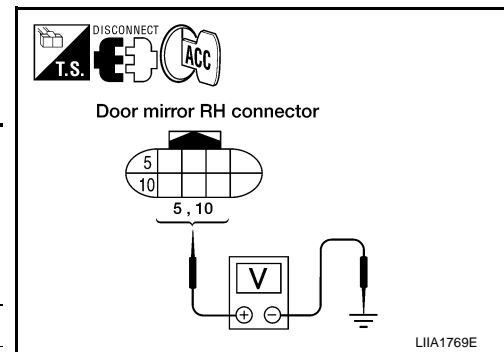
PASSENGER SIDE : Diagnosis Procedure

INFOID:000000003935569

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

1. Turn ignition switch to ACC.
2. Check voltage between door mirror RH harness connector and ground.

| Terminals | | (-) | Condition | Voltage (V) (Approx.) |
|--------------------------|----------|--------|----------------------------|--------------------------|
| (+) | Terminal | | | |
| Door mirror RH connector | | Ground | Door mirror RH | Close to peak 3.4 |
| | 10 | | Close to valley 0.6 | |
| | 5 | | Close to right edge 3.4 | |
| | | | Close to left edge 0.6 | |



Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

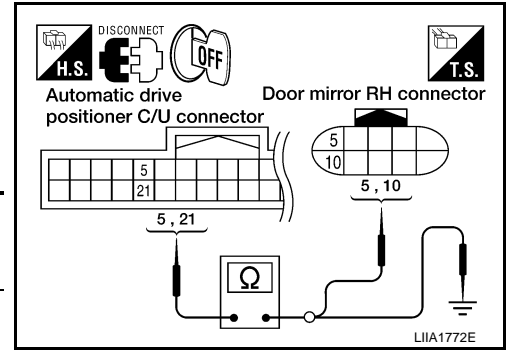
2. CHECK DOOR MIRROR RH SENSOR HARNESS CONTINUITY

MIRROR SENSOR

< COMPONENT DIAGNOSIS >

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

| Automatic drive positioner control unit connector | Terminal | Door mirror RH connector | Terminal | Continuity |
|---|----------|--------------------------|----------|------------|
| M33 | 5 | D118 | 10 | Yes |
| | 21 | | 5 | |



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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 5 | Ground | No |
| | 21 | | |

Is the inspection result normal?

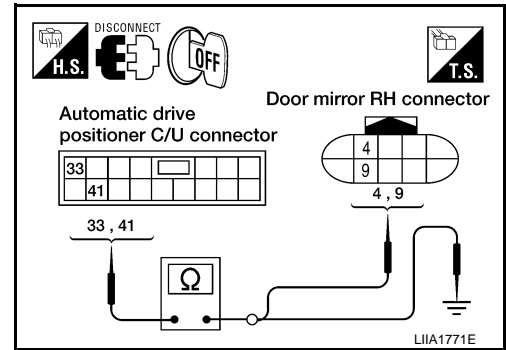
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR RH SENSOR POWER SUPPLY CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror RH harness connector.

| Automatic drive positioner control unit connector | Terminal | Door mirror RH connector | Terminal | Continuity |
|---|----------|--------------------------|----------|------------|
| M34 | 33 | D118 | 4 | Yes |
| | 41 | | 9 | |



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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M34 | 33 | Ground | No |
| | 41 | | |

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

1. Connect driver seat control unit connector and door mirror RH connector.
2. Turn ignition switch ON.
3. Check pedal adjusting operation with memory function.

Is the operation normal?

YES >> Replace door mirror actuator RH. Refer to [MIR-15, "Door Mirror Assembly"](#).

NO >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-159, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

SLIDING MOTOR

< COMPONENT DIAGNOSIS >

SLIDING MOTOR

Description

INFOID:000000003935570

- The sliding motor LH is installed to the seat frame assembly.
- The sliding motor LH is installed with the driver seat control unit.
- The seat is slid forward/backward by changing the rotation direction of sliding motor LH.

Component Function Check

INFOID:000000003935571

1. CHECK FUNCTION

1. Select "SEAT SLIDE" in "Active test" mode with CONSULT-III.
2. Check the sliding motor LH operation.

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

Is the operation of relevant parts normal?

YES >> Inspection End.

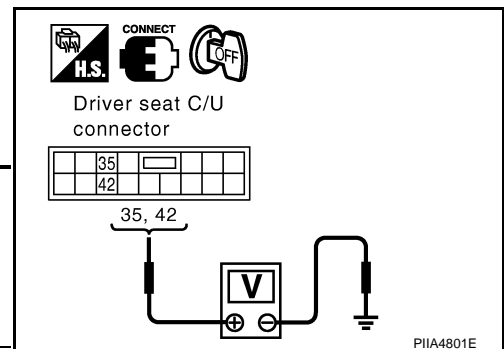
NO >> Perform diagnosis procedure. Refer to [ADP-81, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935572

1. CHECK SLIDING MOTOR LH POWER SUPPLY

1. Turn the ignition switch to ACC.
2. Perform "Active test" ("SEAT SLIDE") with CONSULT-III
3. Check voltage between driver seat control unit harness connector and ground.



| Terminal (+) | | Terminal (-) | Test Item | Voltage (V) (Approx.) |
|------------------------------------|----------|--------------|--------------------------|-----------------------|
| Driver seat control unit connector | Terminal | | | |
| B203 | 35 | Ground | SEAT SLIDE OFF | 0 |
| | | | SEAT SLIDE FR (forward) | Battery voltage |
| | | | SEAT SLIDE RR (backward) | 0 |
| | 42 | | SEAT SLIDE OFF | 0 |
| | | | SEAT SLIDE FR (forward) | 0 |
| | | | SEAT SLIDE RR (backward) | Battery voltage |

Is the inspection result normal?

YES >> Replace sliding motor LH. Refer to [SE-25, "Exploded View"](#).

NO >> GO TO 2

2. CHECK SLIDING MOTOR LH CIRCUIT

SLIDING MOTOR

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Sliding motor LH connector | Terminal | Continuity |
|------------------------------------|----------|----------------------------|----------|------------|
| B203 (A) | 35 | B204 (B) | 5 | Yes |
| | 42 | | 1 | |

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B203 (A) | 35 | | No |
| | 42 | | |

Is the inspection result normal?

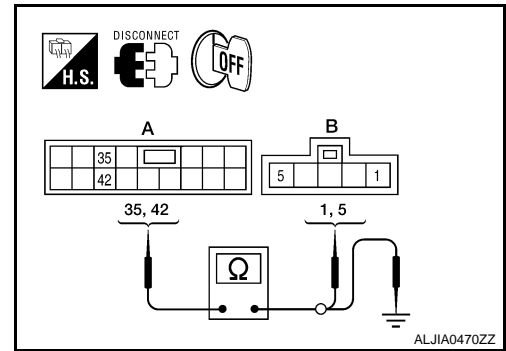
- YES >> GO TO 3
 NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



RECLINING MOTOR

< COMPONENT DIAGNOSIS >

RECLINING MOTOR

Description

INFOID:000000003935573

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

Component Function Check

INFOID:000000003935574

1. CHECK FUNCTION

1. Select "SEAT RECLINING" in "Active test" mode with CONSULT-III.
2. Check the reclining motor LH operation.

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

Is the operation of relevant parts normal?

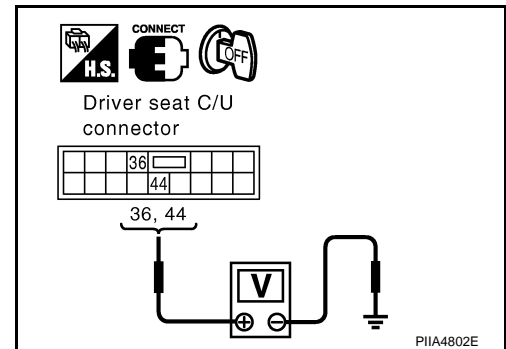
- YES >> Inspection End.
 NO >> Perform diagnosis procedure. Refer to [ADP-83, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935575

1. CHECK RECLINING MOTOR LH POWER SUPPLY

1. Turn the ignition switch to ACC.
2. Perform "Active test" ("SEAT RECLINING") with CONSULT-III
3. Check voltage between driver seat control unit harness connector and ground.



| Terminal (+) | | Terminal (-) | Test Item | Voltage (V) (Approx.) |
|------------------------------------|----------|--------------|------------------------------|-----------------------|
| Driver seat control unit connector | Terminal | | | |
| B203 | 36 | Ground | SEAT RECLINING OFF | 0 |
| | | | SEAT RECLINING FR (forward) | Battery voltage |
| | | | SEAT RECLINING RR (backward) | 0 |
| | 44 | | SEAT RECLINING OFF | 0 |
| | | | SEAT RECLINING FR (forward) | 0 |
| | | | SEAT RECLINING RR (backward) | Battery voltage |

Is the inspection result normal?

- YES >> Replace reclining motor LH. Refer to [SE-25, "Exploded View"](#).
 NO >> GO TO 2

2. CHECK RECLINING MOTOR LH CIRCUIT

RECLINING MOTOR

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Reclining motor LH connector | Terminal | Continuity |
|------------------------------------|----------|------------------------------|----------|------------|
| B203 (A) | 36 | B232 (B) | 2 | Yes |
| | 44 | | 3 | |

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B203 (A) | 36 | | No |
| | 44 | | |

Is the inspection result normal?

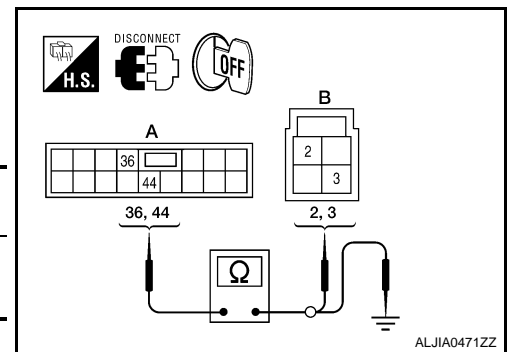
- YES >> GO TO 3
 NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description

INFOID:000000003935576

- The lifting motor (front) is installed to the seat frame assembly.
- 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:000000003935577

1. CHECK FUNCTION

1. Select "SEAT LIFTER FR" in "Active test" mode with CONSULT-III.
2. 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?

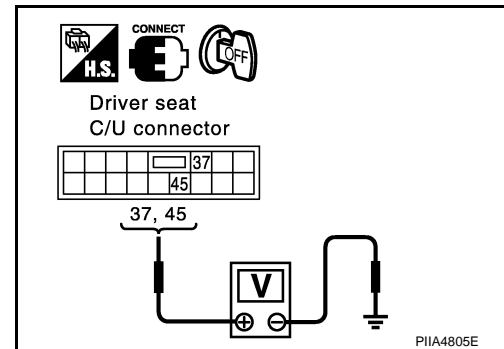
- YES >> Inspection End.
 NO >> Perform diagnosis procedure. Refer to [ADP-85. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935578

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

1. Turn the ignition switch to ACC.
2. Perform "Active test" ("SEAT LIFTER FR") with CONSULT-III.
3. Check voltage between driver seat control unit harness connector and ground.



| Terminal (+) | | Terminal (-) | Test Item | Voltage (V) (Approx.) |
|------------------------------------|----------|--------------|---------------------------|-----------------------|
| Driver seat control unit connector | Terminal | | | |
| B203 | 37 | Ground | SEAT LIFTER FR OFF | 0 |
| | | | SEAT LIFTER FR UP | 0 |
| | | | SEAT LIFTER FR DWN (down) | Battery voltage |
| | 45 | | SEAT LIFTER FR OFF | 0 |
| | | | SEAT LIFTER FR UP | Battery voltage |
| | | | SEAT LIFTER FR DWN (down) | 0 |

Is the inspection result normal?

- YES >> Replace lifting motor (front). Refer to [SE-25. "Exploded View"](#).
 NO >> GO TO 2

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

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

| Driver seat control unit connector | Terminal | Lifting motor (front) connector | Terminal | Continuity |
|------------------------------------|----------|---------------------------------|----------|------------|
| B203 (A) | 37 | B206 (B) | 1 | Yes |
| | 45 | | 5 | |

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B203 (A) | 37 | Ground | No |
| | 45 | | |

Is the inspection result normal?

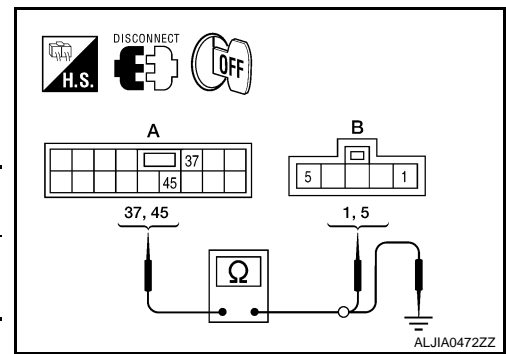
- YES >> GO TO 3
 NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-49, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25, "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



LIFTING MOTOR (REAR)

< COMPONENT DIAGNOSIS >

LIFTING MOTOR (REAR)

Description

INFOID:000000003935579

- The lifting motor (rear) is installed to the seat frame assembly.
- 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:000000003935580

1. CHECK FUNCTION

1. Select "SEAT LIFTER RR" in "Active test" mode with CONSULT-III.
2. 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?

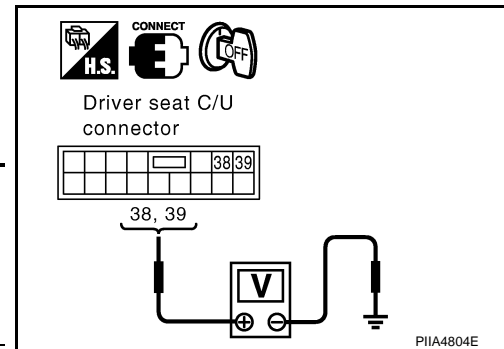
- YES >> Inspection End.
 NO >> Perform diagnosis procedure. Refer to [ADP-87, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935581

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn the ignition switch OFF.
2. Perform "Active test" ("SEAT LIFTER RR") with CONSULT-III
3. Check voltage between driver seat control unit harness connector and ground.



| Terminal (+) | | Terminal (-) | Test Item | Voltage (V) (Approx.) |
|------------------------------------|----------|--------------|---------------------------|-----------------------|
| Driver seat control unit connector | Terminal | | | |
| B203 | 38 | Ground | SEAT LIFTER RR OFF | 0 |
| | | | SEAT LIFTER RR UP | Battery voltage |
| | | | SEAT LIFTER RR DWN (down) | 0 |
| | 39 | | SEAT LIFTER RR OFF | 0 |
| | | | SEAT LIFTER RR UP | 0 |
| | | | SEAT LIFTER RR DWN (down) | Battery voltage |

Is the inspection result normal?

- YES >> Replace lifting motor (rear). Refer to [SE-25, "Exploded View"](#).
 NO >> GO TO 2

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

LIFTING MOTOR (REAR)

< COMPONENT DIAGNOSIS >

1. Disconnect driver seat control unit and lifting motor (rear).
2. Check continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

| Driver seat control unit connector | Terminal | Lifting motor (rear) connector | Terminal | Continuity |
|------------------------------------|----------|--------------------------------|----------|------------|
| B203 (A) | 38 | B207 (B) | 5 | Yes |
| | 39 | | 1 | |

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

| Driver seat control unit connector | Terminal | Ground | Continuity |
|------------------------------------|----------|--------|------------|
| B203 (A) | 38 | Ground | No |
| | 39 | | |

Is the inspection result normal?

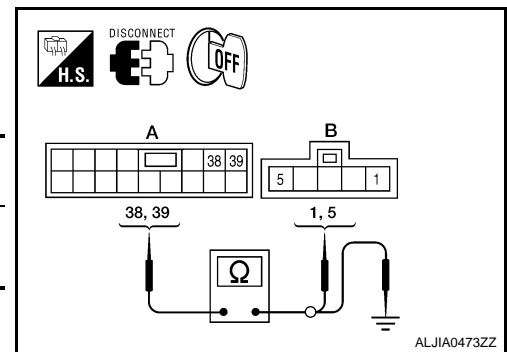
- YES >> GO TO 3
 NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [SE-25. "Exploded View"](#).
 NO >> Repair or replace the malfunctioning part.



PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING MOTOR

Description

INFOID:000000003935582

- The pedal adjusting motor is installed to the pedal adjusting motor assembly.
- The pedal adjusting motor is activated with the automatic drive positioner control unit.
- The pedal assembly is adjusted forward/backward by changing the rotation direction of pedal adjusting motor.

Component Function Check

INFOID:000000003935583

1. CHECK FUNCTION

1. Select "ADJ PEDAL MOTOR" in "Active test" mode with CONSULT-III.
2. Check the pedal adjusting motor operation.

| Test item | | Description | |
|-----------------|-----|-----------------------|----------|
| ADJ PEDAL MOTOR | OFF | Pedal adjusting motor | Stop |
| | FR | | Forward |
| | RR | | Backward |

Is the operation of relevant parts normal?

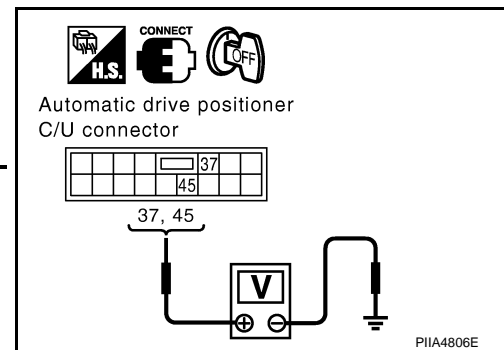
- YES >> Inspection End.
 NO >> Perform diagnosis procedure. Refer to [ADP-89, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003935584

1. CHECK PEDAL ADJUSTING MOTOR POWER SUPPLY

1. Turn the ignition switch OFF.
2. Perform "Active test" ("ADJ PEDAL MOTOR") with CONSULT-III.
3. Check voltage between automatic drive positioner control unit harness connector and ground.



| Terminal (+) | | Terminal (-) | Test Item | Voltage (V) (Approx.) | |
|---|----------|--------------|------------------|-----------------------|---|
| Automatic drive positioner control unit connector | Terminal | | | | |
| M34 | 37 | Ground | ADJ PED-AL MOTOR | OFF | 0 |
| | | | RR (backward) | 0 | |
| | | | FR (forward) | Battery voltage | |
| | 45 | | OFF | 0 | |
| | | | RR (backward) | Battery voltage | |
| | | | FR (forward) | 0 | |

Is the inspection result normal?

- YES >> Replace pedal adjusting motor assembly. Refer to [BR-23, "Removal and Installation"](#).
 NO >> GO TO 2

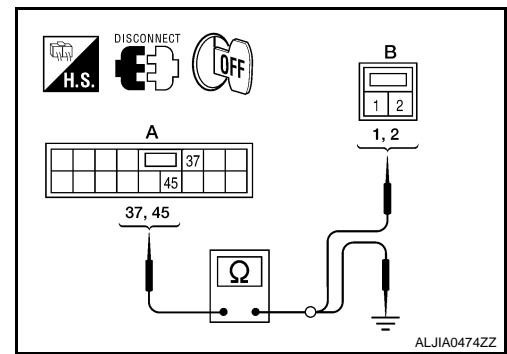
2. CHECK PEDAL ADJUSTING MOTOR CIRCUIT

PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

1. Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
2. Check continuity between automatic drive positioner control unit harness connector and pedal adjusting motor harness connector.

| Automatic drive positioner control unit connector | Terminal | Pedal adjusting motor assembly connector | Terminal | Continuity |
|---|----------|--|----------|------------|
| M34 (A) | 37 | E109 (B) | 2 | Yes |
| | 45 | | 1 | |



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

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M34 (A) | 37 | Ground | No |
| | 45 | | |

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).
 NO >> Repair or replace the malfunctioning part.

DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

DOOR MIRROR MOTOR

Description

INFOID:000000003935585

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:000000003935586

1. CHECK DOOR MIRROR MOTOR FUNCTION

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

Refer to [ADP-25, "CONSULT-III Function"](#).

Is the inspection result normal?

YES >> Door mirror motor function is OK.

NO >> Refer to [ADP-91, "Diagnosis Procedure"](#).

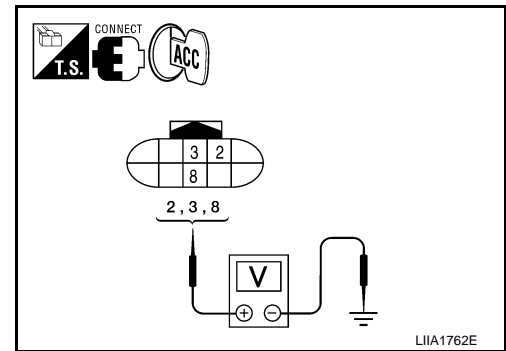
Diagnosis Procedure

INFOID:000000003935587

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

| Terminals (+) | | Terminal (-) | Door mirror remote control switch condition | Voltage (V) (Approx.) |
|-----------------------|----------|--------------|---|-----------------------|
| Door mirror connector | Terminal | | | |
| D18 (LH) D118 (RH) | 3 | Ground | UP | Battery voltage |
| | | | Other than above | 0 |
| | 2 | | LEFT | Battery voltage |
| | | | Other than above | 0 |
| | 8 | | DOWN / RIGHT | Battery voltage |
| | | | Other than above | 0 |



Is the inspection result normal?

YES >> Refer to [ADP-93, "Component Inspection"](#).

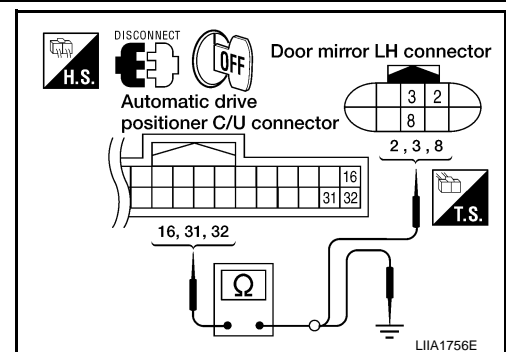
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

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

Door mirror LH

| Automatic drive positioner control unit connector | Terminal | Door mirror LH connector | Terminal | Continuity |
|---|----------|--------------------------|----------|------------|
| M33 | 16 | D18 | 8 | Yes |
| | 31 | | 3 | |
| | 32 | | 2 | |



DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

Door mirror RH

| Automatic drive positioner control unit connector | Terminal | Door mirror RH connector | Terminal | Continuity |
|---|----------|--------------------------|----------|------------|
| M33 | 14 | D118 | 3 | Yes |
| | 15 | | 2 | |
| | 30 | | 8 | |

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

Door mirror LH

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 16 | Ground | No |
| | 31 | | |
| | 32 | | |

Door mirror RH

| Automatic drive positioner control unit connector | Terminal | Ground | Continuity |
|---|----------|--------|------------|
| M33 | 14 | Ground | No |
| | 15 | | |
| | 30 | | |

Is the inspection result normal?

YES >> GO TO 3

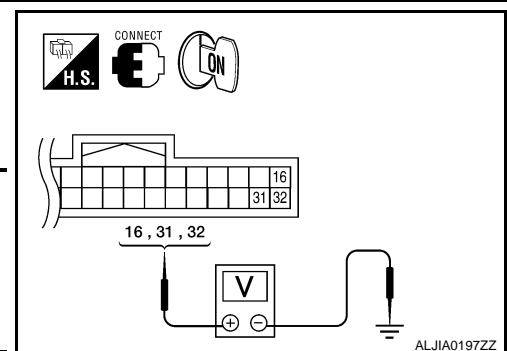
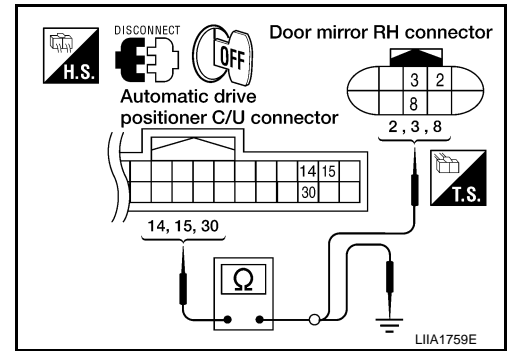
NO >> Repair or replace harness.

3. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

Door mirror LH

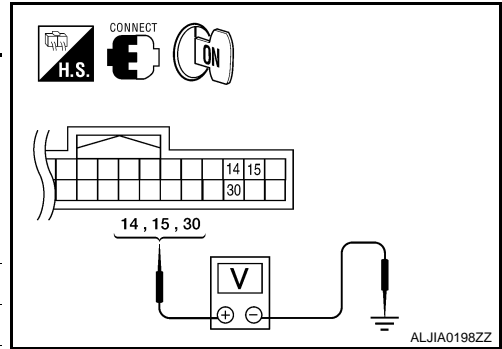
| Terminals | | (-) | Mirror switch condition | Voltage (V) (Approx.) |
|---|----------|--------|-------------------------|-----------------------|
| (+) | Terminal | | | |
| Automatic drive positioner control unit connector | 16 | Ground | DOWN / RIGHT | Battery voltage |
| | | | Other than above | 0 |
| | 31 | | UP | Battery voltage |
| | | | Other than above | 0 |
| | 32 | | LEFT | Battery voltage |
| | | | Other than above | 0 |



DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

| Door mirror RH | | | | |
|--|----------|--------|-------------------------|-----------------------|
| Terminals | | (-) | Mirror switch condition | Voltage (V) (Approx.) |
| (+) | Terminal | | | |
| Automatic drive positioner control unit connector M33 | 14 | Ground | UP | Battery voltage |
| | | | Other than above | 0 |
| | 15 | | LEFT | Battery voltage |
| | | | Other than above | 0 |
| | 30 | | DOWN / RIGHT | Battery voltage |
| | | | Other than above | 0 |



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).

4. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to [ADP-93. "Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-49. "Intermittent Incident"](#).

NO >> Replace door mirror actuator. Refer to [MIR-15. "Door Mirror Assembly"](#).

Component Inspection

INFOID:000000003935588

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-15. "Door Mirror Assembly"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace door mirror actuator. Refer to [MIR-15. "Door Mirror Assembly"](#).

2. CHECK DOOR MIRROR MOTOR-II

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

| Door mirror connector | Terminal | | Operational direction |
|-----------------------|----------|-----|-----------------------|
| | (+) | (-) | |
| D18 (LH) D118 (RH) | 8 | 2 | RIGHT |
| | 2 | 8 | LEFT |
| | 3 | 8 | UP |
| | 8 | 3 | DOWN |

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror actuator. Refer to [MIR-15. "Door Mirror Assembly"](#).

SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

SEAT MEMORY INDICATOR LAMP

Description

INFOID:000000003935589

- 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:000000003935590

1. CHECK FUNCTION

1. Select "MEMORY SW INDCTR" in "Active test" mode with CONSULT-III.
2. 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-94. "Diagnosis Procedure"](#).

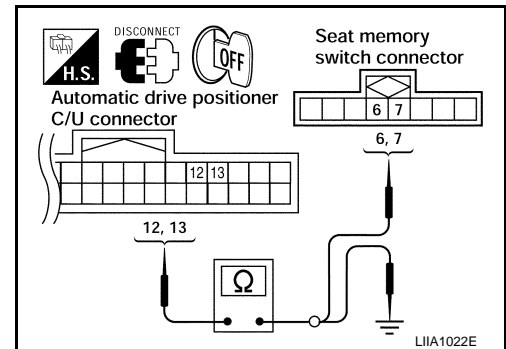
Diagnosis Procedure

INFOID:000000003935591

1. CHECK SEAT MEMORY INDICATOR CIRCUIT

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

| Automatic drive positioner control unit connector | Terminal | Seat memory switch connector | Terminal | Continuity |
|---|----------|------------------------------|----------|------------|
| M33 | 12 | D5 | 6 | Yes |
| | 13 | | 7 | |



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

| Automatic drive positioner connector | Terminal | Ground | Continuity |
|--------------------------------------|----------|--------|------------|
| M33 | 12 | Ground | No |
| | 13 | | |

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK MEMORY INDICATOR POWER SUPPLY

SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

Check voltage between seat memory switch harness connector and ground.

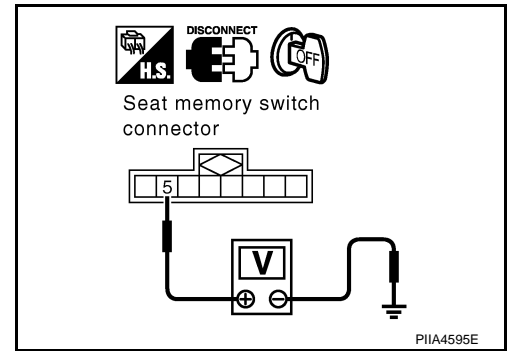
| Seat memory switch connector | Terminals | | Voltage (V) (Approx.) |
|------------------------------|-----------|--------|-----------------------|
| | (+) | (-) | |
| D5 | 5 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3

NO >> Check the following.

- Fuse
- Harness for open or short between memory indicator and fuse.



3. CHECK MEMORY INDICATOR

Refer to [ADP-95. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace seat memory switch. Refer to [INT-14. "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-49. "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-159. "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:000000003935592

1. CHECK SEAT MEMORY INDICATOR

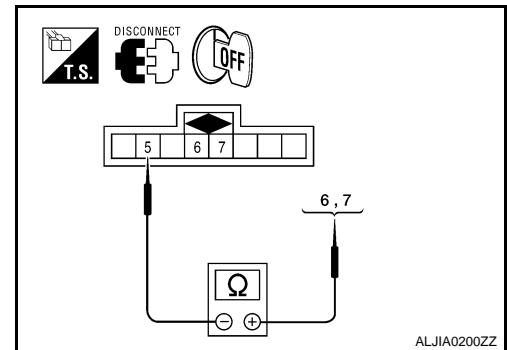
1. Disconnect seat memory switch.
2. Check continuity between seat memory switch terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch. Refer to [INT-14. "Removal and Installation"](#).



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DRIVER SEAT CONTROL UNIT

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DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:000000003935593

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

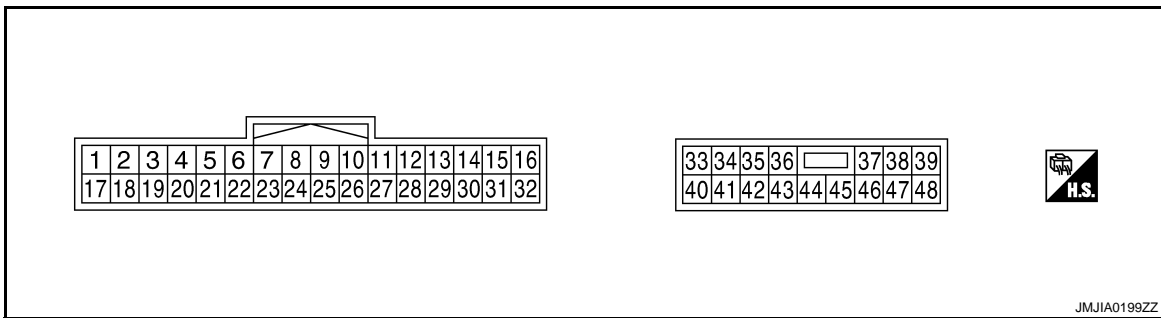
| Monitor Item | Condition | Value/Status | |
|---------------|-----------------------------|------------------|-----|
| SET SW | Set switch | Push | ON |
| | | Release | OFF |
| MEMORY SW1 | Memory switch 1 | Push | ON |
| | | Release | OFF |
| MEMORY SW2 | Memory switch 2 | Push | ON |
| | | Release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

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| Monitor Item | Condition | | Value/Status |
|----------------|------------------------------|---------------------|-----------------------------|
| 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 |
| | | Backward | The numeral value increases |
| | | Other than above | No change to numeral value |
| RECLN PULSE | Seat reclining | Forward | The numeral value decreases |
| | | Backward | The numeral value increases |
| | | Other than above | No change to numeral value |
| LIFT FR PULSE | Seat lifter (front) | Up | The numeral value decreases |
| | | Down | The numeral value increases |
| | | Other than above | No change to numeral value |
| LIFT RR PULSE | Seat lifter (rear) | Up | The numeral value decreases |
| | | Down | The numeral value increases |
| | | Other than above | No change to numeral value |
| MIR/SEN RH U-D | Door mirror (passenger side) | Close to peak | 3.4 |
| | | Close to valley | 0.6 |
| MIR/SEN RH R-L | Door mirror (passenger side) | Close to left edge | 3.4 |
| | | Close to right edge | 0.6 |
| MIR/SEN LH U-D | Door mirror (driver side) | Close to peak | 3.4 |
| | | Close to valley | 0.6 |
| MIR/SEN LH R-L | Door mirror (driver side) | Close to left edge | 0.6 |
| | | Close to right edge | 3.4 |
| PEDAL SEN | Pedal position | Forward | 0.5 |
| | | Backward | 4.5 |

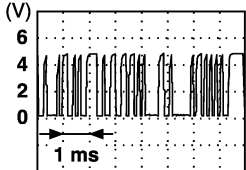
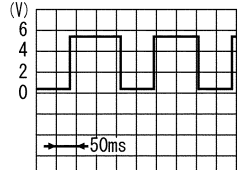
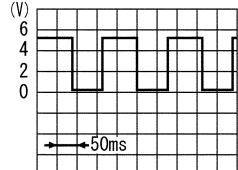
TERMINAL LAYOUT



PHYSICAL VALUES

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

| Terminal No. | | Wire color | Description | | Condition | Voltage (V) (Approx) |
|--------------|--------|------------|------------------------------------|--------------|------------------------|---|
| + | - | | Signal name | Input/Output | | |
| 1 | Ground | R | UART LINE (RX) | Input | Ignition switch ON |  PIIA4813E |
| 3 | — | L | CAN-H | — | — | — |
| 6 | Ground | BR/W | Ignition switch (START) | Input | Ignition switch | OFF 0 |
| | | | | | | START Battery voltage |
| 9 | Ground | L | Reclining sensor signal | Input | Seat reclining |  SIIA0692J |
| | | | | | Operate | 0 or 5 |
| 10 | Ground | L/Y | Lifting sensor (rear) signal | Input | Seat lifting (rear) |  SIIA0693J |
| | | | | | Operate | 0 or 5 |
| 11 | Ground | R/B | Sliding switch backward signal | Input | Sliding switch | Operate (backward) 0 |
| | | | | | | Release Battery voltage |
| 12 | Ground | O/B | Reclining switch backward signal | Input | Reclining switch | Operate (backward) 0 |
| | | | | | | Release Battery voltage |
| 13 | Ground | L/B | Lifting switch (front) down signal | Input | Lifting switch (front) | Operate (down) 0 |
| | | | | | | Release Battery voltage |
| 14 | Ground | G/W | Lifting switch (rear) down signal | Input | Lifting switch (rear) | Operate (down) 0 |
| | | | | | | Release Battery voltage |
| 15 | Ground | L | Pedal switch backward signal | Input | Pedal switch | Operate (backward) 0 |
| | | | | | | Release Battery voltage |
| 16 | Ground | L | Sensor power supply | Output | — | 5 |

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| Terminal No. | | Wire color | Description | | Condition | Voltage (V) (Approx) |
|--------------|--------|------------|-----------------------------------|--------------|-----------------------------|------------------------------------|
| + | - | | Signal name | Input/Output | | |
| 17 | Ground | R/W | UART LINE (TX) | Output | Ignition switch ON | PIIA4814E |
| 19 | — | P | CAN-L | — | — | — |
| 21 | Ground | L | A/T device (park position switch) | Input | A/T selector lever | P position: 0 |
| | | | | | | Except P position: Battery voltage |
| 24 | Ground | Y/G | Sliding sensor signal | Input | Seat sliding | PIIA3277E |
| | | | | | | Operate: 0 or 5 |
| 25 | Ground | R/L | Lifting sensor (front) signal | Input | Seat lifting (front) | SIIA0691J |
| | | | | | | Operate: 0 or 5 |
| 26 | Ground | P/B | Sliding switch forward signal | Input | Sliding switch | Operate (forward): 0 |
| | | | | | | Release: Battery voltage |
| 27 | Ground | G/B | Reclining switch forward signal | Input | Reclining switch | Operate (forward): 0 |
| | | | | | | Release: Battery voltage |
| 28 | Ground | Y/B | Lifting switch (front) up signal | Input | Seat lifting switch (front) | Operate (up): 0 |
| | | | | | | Release: Battery voltage |
| 29 | Ground | R/W | Lifting switch (rear) up signal | Input | Seat lifting switch (rear) | Operate (up): 0 |
| | | | | | | Release: Battery voltage |
| 30 | Ground | L/W | Pedal switch forward signal | Input | Pedal switch | Operate (forward): 0 |
| | | | | | | Release: Battery voltage |
| 31 | Ground | Y | Sensor ground | — | — | 0 |
| 32 | Ground | B | Ground (signal) | — | — | 0 |
| 33 | Ground | W/L | Battery power source (C/B) | Input | — | Battery voltage |

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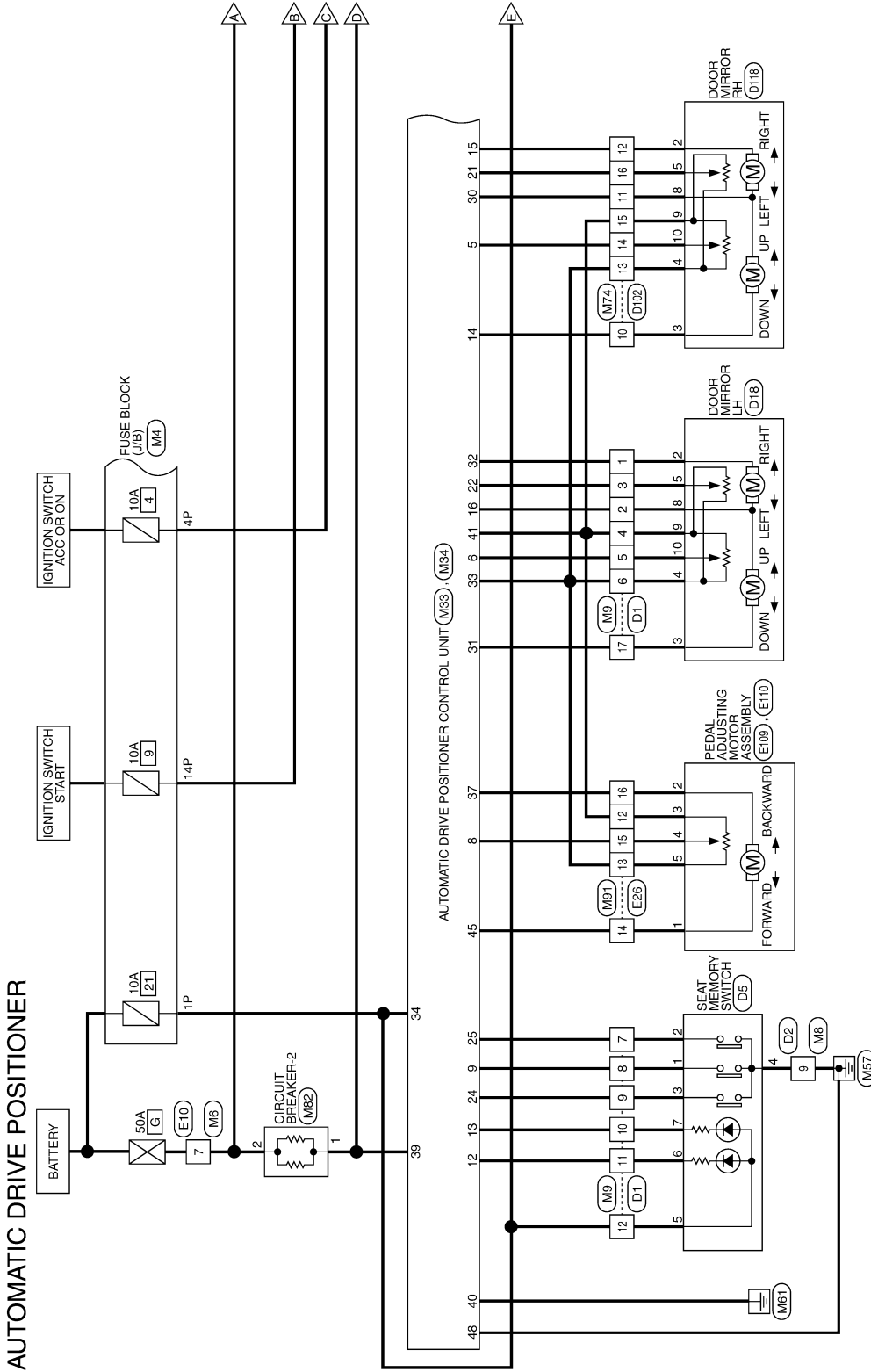
| Terminal No. | | Wire color | Description | | Condition | Voltage (V) (Approx) |
|--------------|--------|------------|--|------------------|----------------------|---------------------------------------|
| + | - | | Signal name | Input/ Output | | |
| 35 | Ground | R | Sliding motor forward output signal | Output | Seat sliding | Operate (forward) Battery voltage |
| | | | | | Release | 0 |
| 36 | Ground | R/W | Reclining motor forward output signal | Output | Seat reclining | Operate (forward) Battery voltage |
| | | | | | Release | 0 |
| 37 | Ground | B | Lifting motor (front) down output signal | Output | Seat lifting (front) | Operate (down) Battery voltage |
| | | | | | Stop | 0 |
| 38 | Ground | L | Lifting motor (rear) up output signal | Output | Seat lifting (rear) | Operate (up) Battery voltage |
| | | | | | Stop | 0 |
| 39 | Ground | L/W | Lifting motor (rear) down output signal | Output | Seat lifting (rear) | Operate (down) Battery voltage |
| | | | | | Stop | 0 |
| 40 | Ground | Y/R | Power source (Fuse) | Input | — | Battery voltage |
| 42 | Ground | G | Sliding motor backward output signal | Output | Seat sliding | Operate (backward) Battery voltage |
| | | | | | Stop | 0 |
| 44 | Ground | G/W | Reclining motor backward output signal | Output | Seat reclining | Operate (backward) Battery voltage |
| | | | | | Stop | 0 |
| 45 | Ground | Y | Lifting motor (front) up output signal | Output | Seat lifting (front) | Operate (up) Battery voltage |
| | | | | | Stop | 0 |
| 48 | Ground | B | Ground (power) | — | — | 0 |

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

Wiring Diagram

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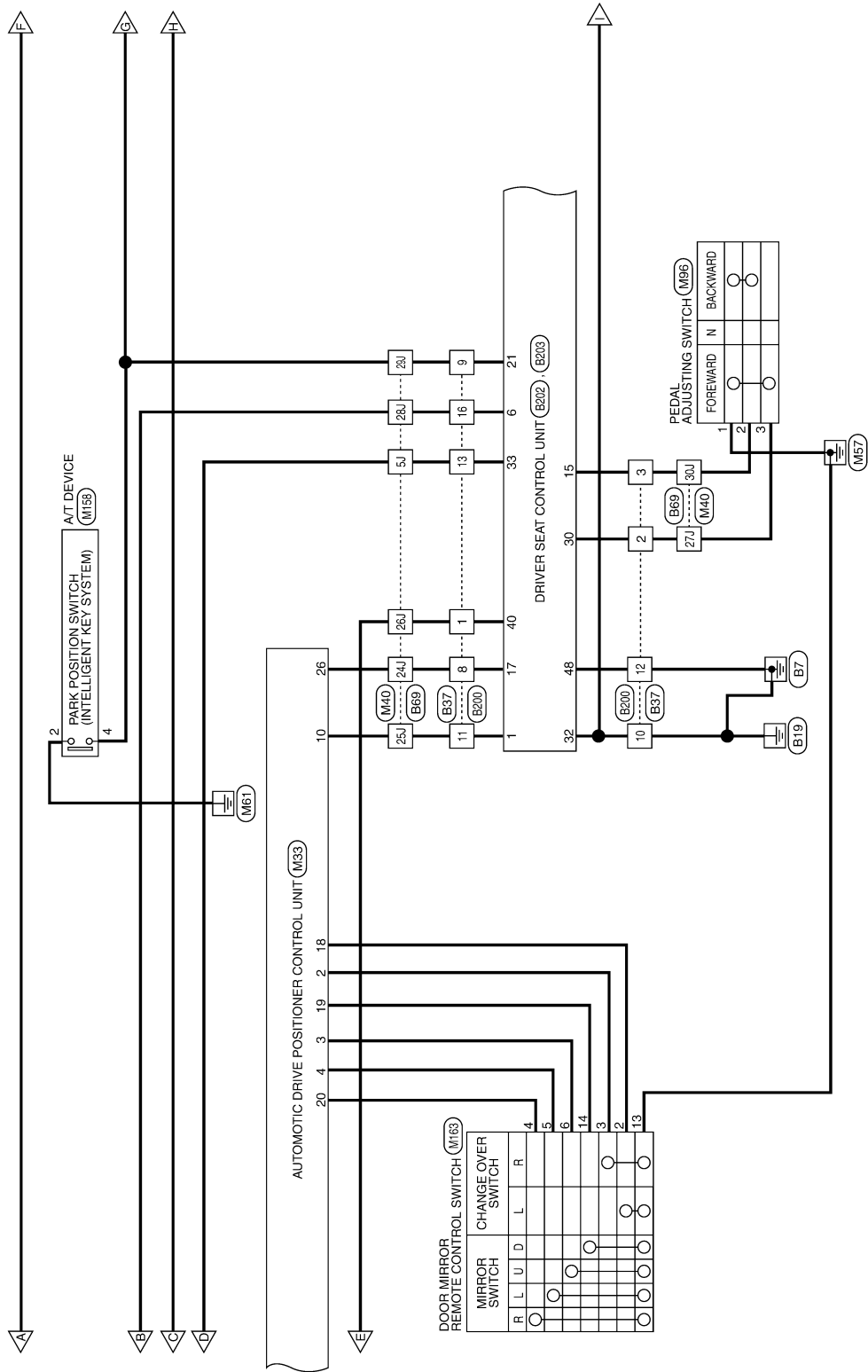


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DRIVER SEAT CONTROL UNIT

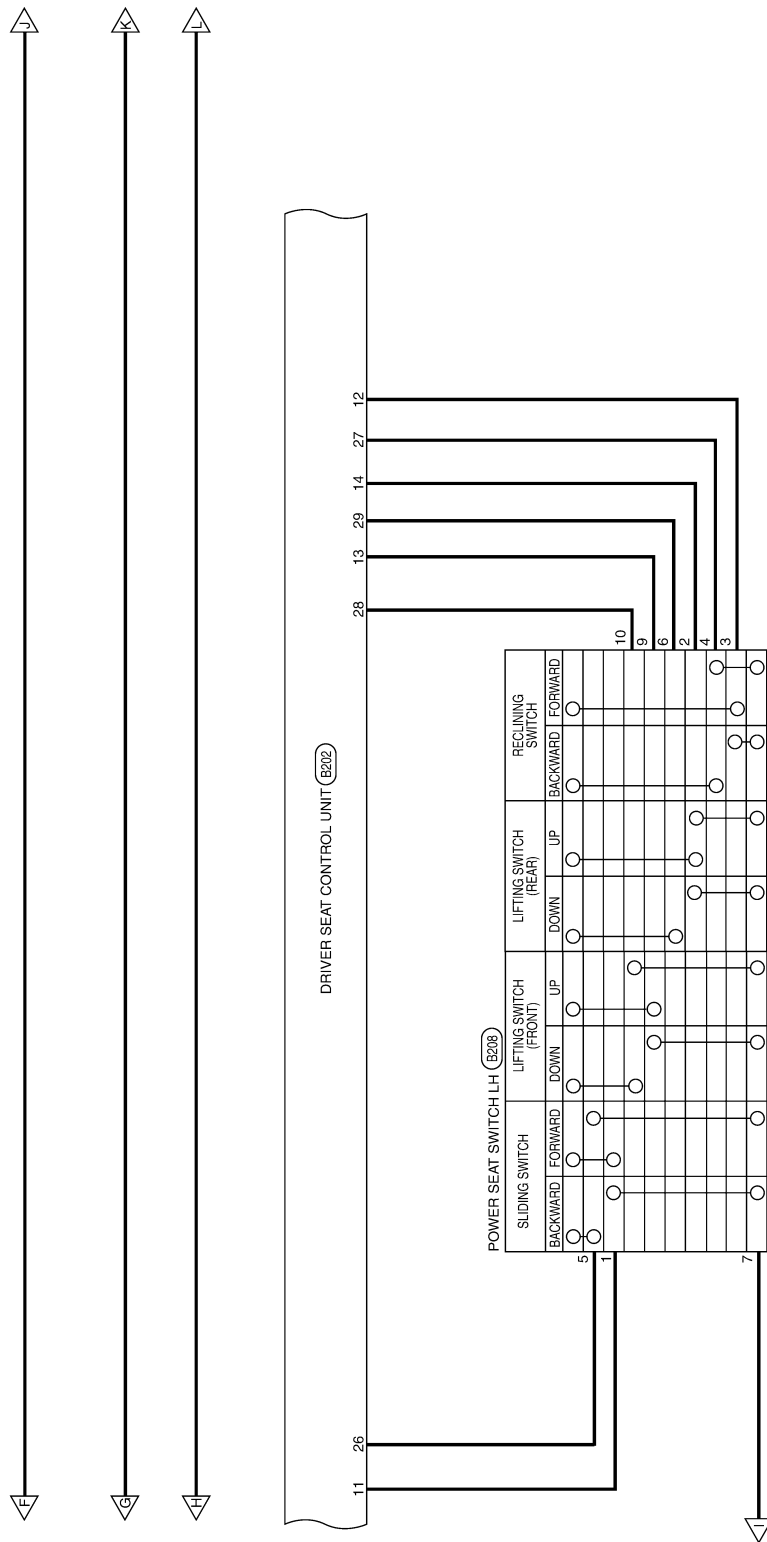
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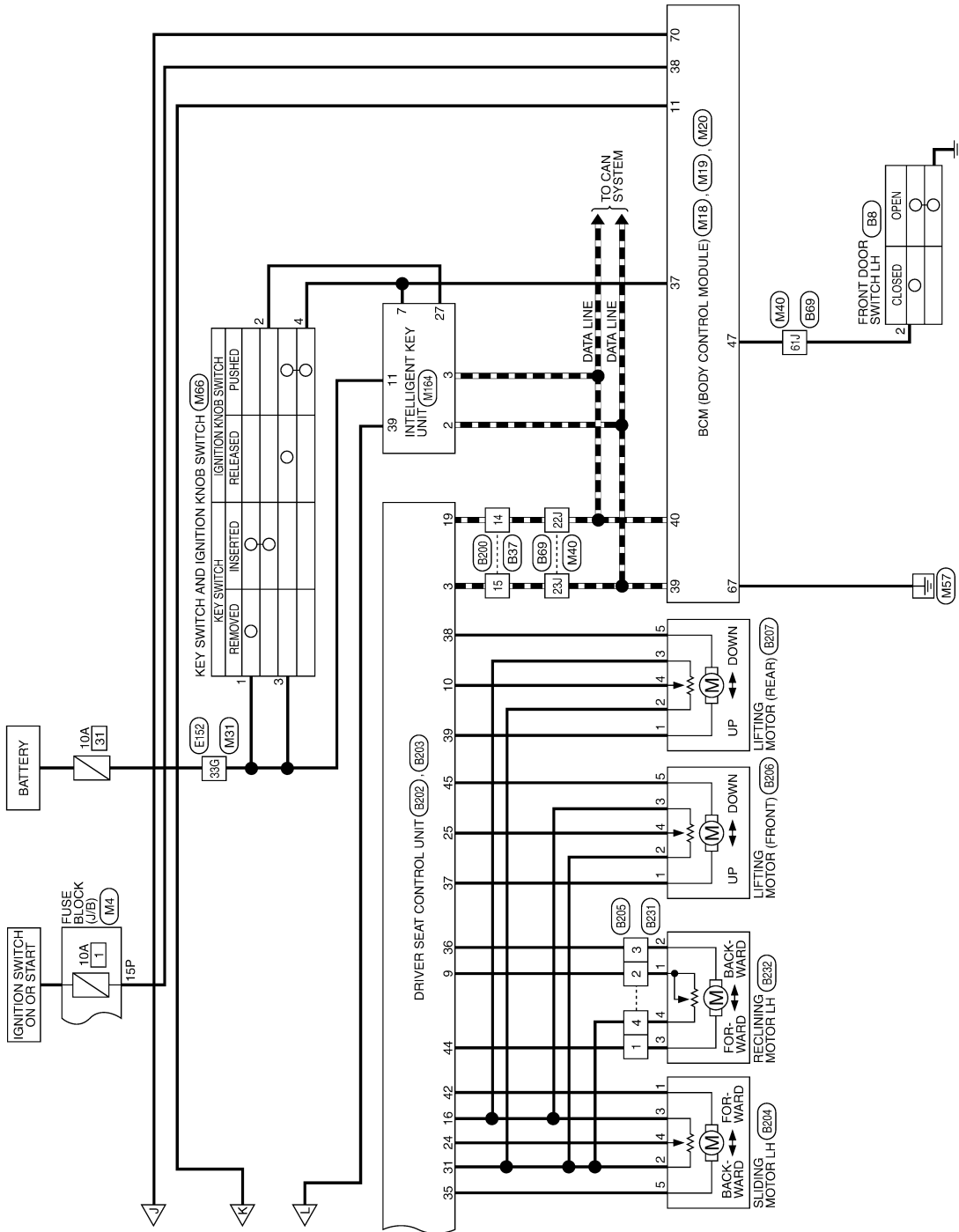
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DRIVER SEAT CONTROL UNIT

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— : DATA LINE



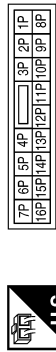
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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

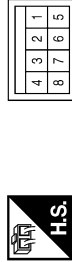
AUTOMATIC DRIVE POSITIONER CONNECTORS

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1P | R/B | - |
| 4P | G/B | - |
| 14P | O | - |
| 15P | W/R | - |

| | |
|-----------------|--------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



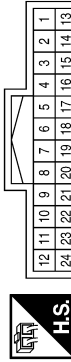
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | W | - |

| | |
|-----------------|--------------|
| Connector No. | M8 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



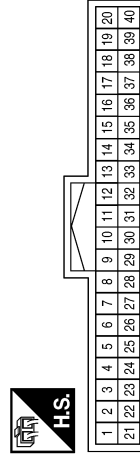
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |

| | |
|-----------------|--------------|
| Connector No. | M9 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



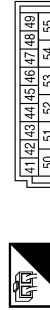
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | O | - |
| 3 | G | - |
| 4 | Y | - |
| 5 | L | - |
| 6 | W | - |
| 7 | P | - |
| 8 | LG | - |
| 9 | GR | - |
| 10 | Y | - |
| 11 | W | - |
| 12 | R | - |
| 17 | R | - |

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 11 | G/B | ACC SW |
| 37 | B | KEY SW |
| 38 | W/R | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 47 | GR | DOOR SW (DR) |

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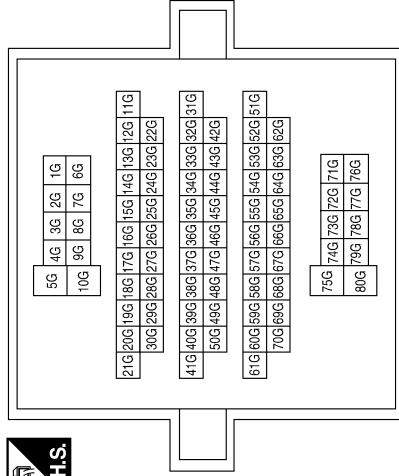
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DRIVER SEAT CONTROL UNIT

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| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 33G | R/B | - |

| | |
|-----------------|--------------|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | |
|-----------------|---------------------------|
| Connector No. | M20 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |

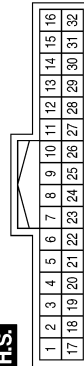


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 67 | B | GND (POWER) |
| 70 | W | BAT (F/L) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 19 | BR | MIRROR SW (DOWN) |
| 20 | GR | MIRROR SW (RIGHT) |
| 21 | P | SENSOR HORIZ (RH) |
| 22 | G | SENSOR HORIZ (LH) |
| 23 | - | - |
| 24 | GR | SET SW |
| 25 | P | ADDRESS 2 |
| 26 | G | RX |
| 27 | - | - |
| 28 | - | - |
| 29 | - | - |
| 30 | G | MOTOR COMMON |
| 31 | R | MOTOR VERT (LH) |
| 32 | B | MOTOR HORIZ (LH) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 5 | R | SENSOR VERT (RH) |
| 6 | L | SENSOR VERT (LH) |
| 7 | - | - |
| 8 | O | PEDAL SENSOR |
| 9 | LG | ADDRESS 1 |
| 10 | SB | TX |
| 11 | - | - |
| 12 | W | IND 1 |
| 13 | Y | IND 2 |
| 14 | GR | MOTOR VERT (RH) |
| 15 | V | MOTOR HORIZ (RH) |
| 16 | O | MOTOR COMMON |
| 17 | - | - |
| 18 | Y | MIRROR SELECT SW (LH) |

| | |
|-----------------|---|
| Connector No. | M33 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 1 | - | - |
| 2 | L | MIRROR SELECT SW (RH) |
| 3 | SB | MIRROR SW (UP) |
| 4 | V | MIRROR SW (LEFT) |

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DRIVER SEAT CONTROL UNIT

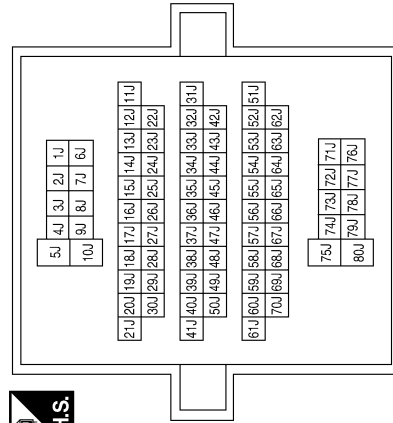
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| | |
|-----------------|---|
| Connector No. | M34 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Color | WHITE |



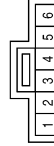
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 33 | W | PWR |
| 34 | R | BAT |
| 35 | - | - |
| 36 | - | - |
| 37 | G | PEDAL MOTOR (FR) |
| 38 | - | - |
| 39 | SB | BAT |
| 40 | B | GND |
| 41 | Y | GND |
| 42 | - | - |
| 43 | - | - |
| 44 | - | - |
| 45 | BR | PEDAL MOTOR (RR) |
| 46 | - | - |
| 47 | - | - |
| 48 | B | GND |

| | |
|-----------------|--------------|
| Connector No. | M40 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5J | G | - |
| 22J | P | - |
| 23J | L | - |
| 24J | G | - |
| 25J | SB | - |
| 26J | R | - |
| 27J | P | - |
| 28J | O | - |
| 29J | V | - |
| 30J | GR | - |
| 61J | GR | - |

| | |
|-----------------|-------------------------------------|
| Connector No. | M66 |
| Connector Name | KEY SWITCH AND IGNITION KNOB SWITCH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | G | - |
| 3 | R/B | - |
| 4 | SB | - |

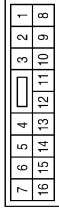
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DRIVER SEAT CONTROL UNIT

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| | |
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| Connector No. | M91 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



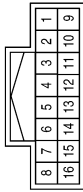
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | Y | - |
| 13 | W | - |
| 14 | BR | - |
| 15 | O | - |
| 16 | G | - |

| | |
|-----------------|---|
| Connector No. | M82 |
| Connector Name | CIRCUIT BREAKER-2 (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



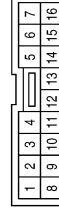
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | SB | - |
| 2 | P | - |

| | |
|-----------------|--------------|
| Connector No. | M74 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



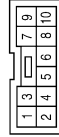
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | GR | - |
| 11 | G | - |
| 12 | V | - |
| 13 | W | - |
| 14 | R | - |
| 15 | Y | - |
| 16 | P | - |

| | |
|-----------------|---|
| Connector No. | M163 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | Y | - |
| 3 | L | - |
| 4 | GR | - |
| 5 | V | - |
| 6 | SB | - |
| 13 | B | - |
| 14 | BR | - |

| | |
|-----------------|---|
| Connector No. | M158 |
| Connector Name | AVT DEVICE (WITH MANUAL MODE SWITCH AND INTELLIGENT KEY SYSTEM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | B | - |
| 4 | V | - |

| | |
|-----------------|--|
| Connector No. | M96 |
| Connector Name | PEDAL ADJUSTING SWITCH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BROWN |



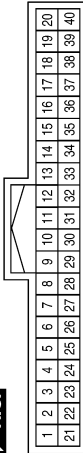
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | GR | - |
| 3 | P | - |

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DRIVER SEAT CONTROL UNIT

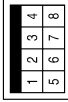
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|-----------------|----------------------|
| Connector No. | M164 |
| Connector Name | INTELLIGENT KEY UNIT |
| Connector Color | WHITE |



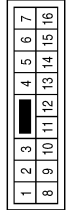
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 2 | L | CAN-H |
| 3 | P | CAN-L |
| 7 | SB | KEY SW INPUT |
| 11 | R/B | BAT |
| 27 | G | PUSH |
| 39 | SB | P RANGE SW |

| | |
|-----------------|--------------|
| Connector No. | E10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | W | - |

| | |
|-----------------|--------------|
| Connector No. | E26 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



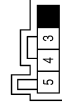
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | Y | - |
| 13 | W | - |
| 14 | BR | - |
| 15 | O | - |
| 16 | G | - |

| | |
|-----------------|--------------------------------|
| Connector No. | E109 |
| Connector Name | PEDAL ADJUSTING MOTOR ASSEMBLY |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | BR | - |
| 2 | G | - |

| | |
|-----------------|--------------------------------|
| Connector No. | E110 |
| Connector Name | PEDAL ADJUSTING MOTOR ASSEMBLY |
| Connector Color | BLACK |

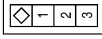


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | Y | - |
| 4 | O | - |
| 5 | W | - |

DRIVER SEAT CONTROL UNIT

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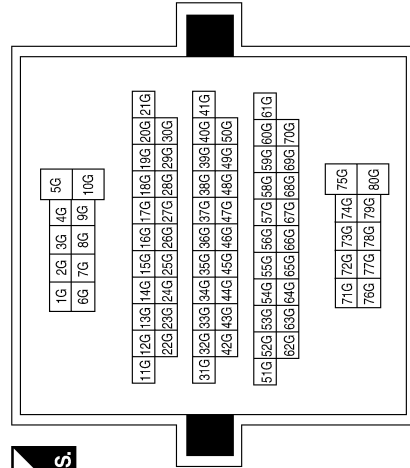
| | |
|-----------------|----------------------|
| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | GR | - |

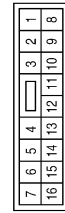
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| Terminal No. | Color of Wire | Signal Name |
| 33G | R/B | - |

| | |
|-----------------|--------------|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 10 | B | - |
| 11 | SB | - |
| 12 | B | - |
| 13 | G | - |
| 14 | P | - |
| 15 | L | - |
| 16 | O | - |

| | |
|-----------------|--------------|
| Connector No. | B37 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | P | - |
| 3 | GR | - |
| 8 | G | - |
| 9 | V | - |

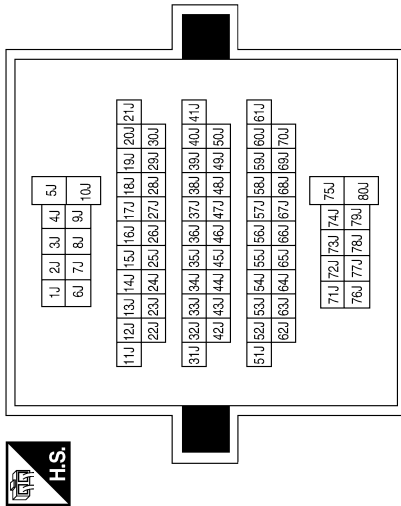
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DRIVER SEAT CONTROL UNIT

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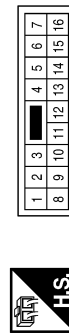
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5J | G | - |
| 22J | P | - |
| 23J | L | - |
| 24J | G | - |
| 25J | SB | - |
| 26J | R | - |
| 27J | P | - |
| 28J | O | - |
| 29J | V | - |
| 30J | GR | - |
| 61J | GR | - |

| | |
|-----------------|--------------|
| Connector No. | B69 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y/R | - |
| 2 | L/W | - |
| 3 | L | - |
| 8 | R/W | - |
| 9 | L | - |
| 10 | B | - |
| 11 | R | - |
| 12 | B | - |
| 13 | W/L | - |
| 14 | P | - |
| 15 | L | - |
| 16 | BR/W | - |

| | |
|-----------------|--------------|
| Connector No. | B200 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



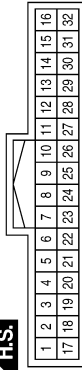
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DRIVER SEAT CONTROL UNIT

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| | |
|-----------------|--------------------------|
| Connector No. | B202 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | RX |
| 2 | - | - |
| 3 | L | CAN-H |
| 4 | - | - |
| 5 | - | - |
| 6 | BR/W | ST SW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 7 | - | - |
| 8 | - | - |
| 9 | L | PULSE RECLINING |
| 10 | L/Y | PULSE RR LIFTING |
| 11 | R/B | SLIDE BACKWD SW |
| 12 | O/B | RECLINE BACKWD SW |
| 13 | L/B | FRONT LIFT DN SW |
| 14 | GW | REAR LIFT DN SW |
| 15 | L | PEDAL BACK |
| 16 | L | POWER SUPPLY |
| 17 | R/W | TX |
| 18 | - | - |
| 19 | P | CAN-L |
| 20 | - | - |
| 21 | L | P RANGE SW |
| 22 | - | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 23 | - | - |
| 24 | Y/G | PULSE SLIDE |
| 25 | R/L | PULSE FR LIFTING |
| 26 | P/B | SLIDE FWD SW |
| 27 | G/B | RECLINE FWD SW |
| 28 | Y/B | FR LIFTER UP SW |
| 29 | R/W | RR LIFTER UP SW |
| 30 | L/W | PEDAL FORWARD |
| 31 | Y | SENSOR GND |
| 32 | B | GND (SIGNAL) |

| | |
|-----------------|--------------------------|
| Connector No. | B203 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 33 | W/L | BAT (PTC) |
| 34 | - | - |
| 35 | R | SLIDING FWD MTR |
| 36 | R/W | RECLINING FWD MTR |
| 37 | B | FR LIFTER DN MTR |
| 38 | L | RR LIFTER UP MTR |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------|
| 39 | L/W | RR LIFTER DN MTR |
| 40 | Y/R | BAT (FUSE) |
| 41 | - | - |
| 42 | G | SLIDE BACKWD MTR |
| 43 | - | - |
| 44 | G/W | RECLINE BACKWD MTR |
| 45 | Y | FR LIFTER UP MTR |
| 46 | - | - |
| 47 | - | - |
| 48 | B | GND (POWER) |

| | |
|-----------------|--|
| Connector No. | B204 |
| Connector Name | SLIDING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | GRAY |




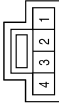
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | Y/G | - |
| 3 | L | - |
| 4 | Y | - |
| 5 | G | - |

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DRIVER SEAT CONTROL UNIT


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|-----------------|--------------|
| Connector No. | B205 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | G/W | - |
| 3 | R/W | - |
| 4 | L | - |

| | |
|-----------------|--|
| Connector No. | B206 |
| Connector Name | LIFTING MOTOR (FRONT) (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | GRAY |




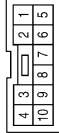

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | R/L | - |
| 3 | L | - |
| 4 | Y | - |
| 5 | B | - |

| | |
|-----------------|---|
| Connector No. | B207 |
| Connector Name | LIFTING MOTOR (REAR) (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | GRAY |




| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L/Y | - |
| 3 | L | - |
| 4 | Y | - |
| 5 | L/W | - |



| | |
|-----------------|---|
| Connector No. | B208 |
| Connector Name | POWER SEAT SWITCH LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/B | - |
| 2 | G/W | - |
| 3 | O/B | - |
| 4 | G/B | - |
| 5 | P/B | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | R/W | - |
| 7 | B | - |
| 8 | - | - |
| 9 | L/B | - |
| 10 | Y/B | - |

| | |
|-----------------|--------------|
| Connector No. | B231 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | G/W | - |
| 3 | R/W | - |
| 4 | L | - |

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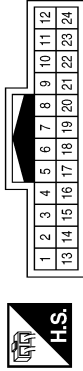
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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | P/L | - |
| 8 | LG/B | - |
| 9 | V/W | - |
| 10 | Y/G | - |
| 11 | GR/R | - |
| 12 | R/Y | - |
| 17 | R | - |

| | |
|-----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | BR | - |
| 2 | O | - |
| 3 | G | - |
| 4 | Y | - |
| 5 | L/Y | - |
| 6 | W/L | - |

| | |
|-----------------|--|
| Connector No. | B232 |
| Connector Name | RECLINING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BLACK |



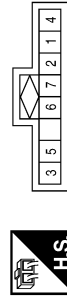
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G/W | - |
| 2 | R/W | - |
| 3 | Y | - |
| 4 | L | - |

| | |
|-----------------|--|
| Connector No. | D18 |
| Connector Name | DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BLACK |



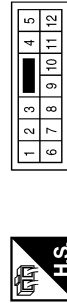
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | BR | - |
| 3 | R | - |
| 4 | W/L | - |
| 5 | G | - |
| 8 | O | - |
| 9 | Y | - |
| 10 | L/Y | - |

| | |
|-----------------|--------------------|
| Connector No. | D5 |
| Connector Name | SEAT MEMORY SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LG/B | - |
| 2 | P/L | - |
| 3 | V/W | - |
| 4 | B | - |
| 5 | R/Y | - |
| 6 | GR/R | - |
| 7 | Y/G | - |

| | |
|-----------------|--------------|
| Connector No. | D2 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |

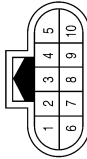
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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

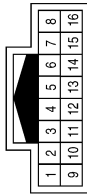
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|-----------------|--|
| Connector No. | D118 |
| Connector Name | DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | V/W | - |
| 3 | GR/R | - |
| 4 | W/L | - |
| 5 | L/W | - |
| 8 | Y | - |
| 9 | Y | - |
| 10 | R/B | - |

| | |
|-----------------|--------------|
| Connector No. | D102 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | GR/R | - |
| 11 | Y | - |
| 12 | V/W | - |
| 13 | W/L | - |
| 14 | R/B | - |
| 15 | Y | - |
| 16 | L/W | - |

ADP

Fail Safe

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

FAIL-SAFE MODE

When any manual and automatic operations are not performed, if any motor operations of front seat LH or pedals are detected for T2 or more, status is judged "Output error".

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

| OPERATED PORTION | T2 |
|----------------------|------------------|
| Seat sliding | Approx. 0.1 sec. |
| Seat reclining | Same as above |
| Seat lifting (Front) | Same as above |
| Seat lifting (Rear) | Same as above |
| Pedal adjust | Same as above |

NOTE:

The front seat LH position and pedal adjustment functions (see the following table) operate simultaneously in the order of priority.

| Priority | Function | Priority | Function |
|----------|------------------------------------|----------|----------------|
| 1 | Seat sliding, (door mirror LH/RH)* | 4 | Seat lifter-FR |
| 2 | Pedal | 5 | Seat lifter-RR |
| 3 | Seat reclining | | |

*: In conjunction with sliding the seat, the door mirrors are positioned.

CANCEL OF FAIL-SAFE MODE

The mode is cancelled when the A/T selector lever is shifted to P position from any other position.

DTC Index

INFOID:000000003935596

| CONSULT-III display | Timing*1 | | Item | Reference page |
|---------------------------|----------------------|-----------------------|---------------------------------|------------------------|
| | Current mal-function | Previous mal-function | | |
| CAN COMM CIRCUIT [U1000] | 0 | 1-39 | CAN communication | ADP-28 |
| SEAT SLIDE [B2112] | 0 | 1-39 | Seat slide motor output | ADP-29 |
| SEAT RECLINING [B2113] | 0 | 1-39 | Seat reclining motor output | ADP-30 |
| SEAT LIFTER FRONT [B2114] | 0 | 1-39 | Seat lifting motor front output | ADP-33 |
| SEAT LIFTER REAR [B2115] | 0 | 1-39 | Seat lifting motor rear output | ADP-33 |
| ADJ PEDAL MOTOR [B2117] | 0 | 1-39 | Pedal adjusting motor output | ADP-33 |
| ADJ PEDAL SENSOR [B2120] | 0 | 1-39 | Pedal adjusting sensor input | ADP-33 |
| DETENT SW [B2126] | 0 | 1-39 | Park position switch condition | ADP-37 |
| UART COMM [B2128] | 0 | 1-39 | UART communication | ADP-39 |

*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

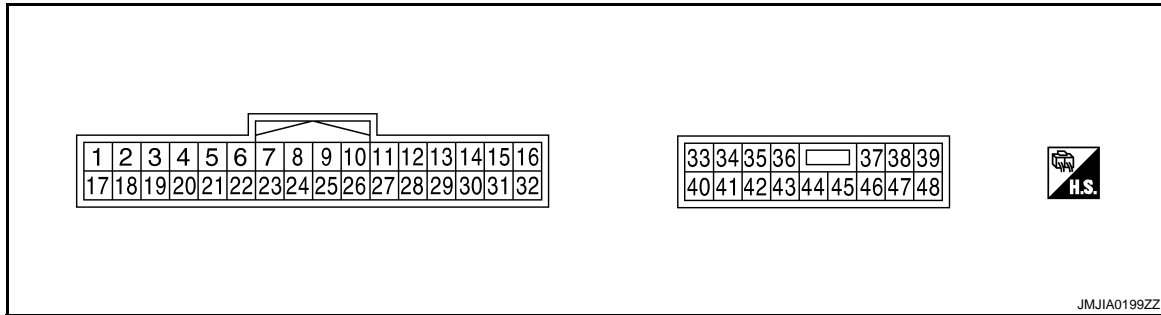
< ECU DIAGNOSIS >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000003935597

TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal No. | | Wire color | Description | | Condition | Voltage (V) (Approx.) | |
|--------------|--------|------------|--|--------------|----------------------------|---|-----------------|
| + | - | | Signal name | Input/Output | | | |
| 2 | Ground | L | Changeover switch RH signal | Input | Changeover switch position | RH | 0 |
| | | | | | | Neutral or LH | 5 |
| 3 | Ground | SB | Mirror switch up signal | Input | Mirror switch | Operated (up) | 0 |
| | | | | | | Other than above | 5 |
| 4 | Ground | V | Mirror switch left signal | Input | Mirror switch | Operated (left) | 0 |
| | | | | | | Other than above | 5 |
| 5 | Ground | R | Door mirror sensor (RH) up/down signal | Input | Door mirror RH position | Peak | 3.4 |
| | | | | | | Valley | 0.6 |
| 6 | Ground | L | Door mirror sensor (LH) up/down signal | Input | Door mirror LH position | Peak | 3.4 |
| | | | | | | Valley | 0.6 |
| 8 | Ground | O | Pedal sensor input signal | Input | Pedal sensor | Forward | 0.5 |
| | | | | | | Backward | 4.5 |
| 9 | Ground | LG | Memory switch 1 signal | Input | Memory switch 1 | Push | 0 |
| | | | | | | Other than above | 5 |
| 10 | Ground | SB | UART LINE (TX) | Output | Ignition switch ON | <p style="text-align: right; font-size: x-small;">PIIA4813E</p> | |
| 12 | Ground | W | Memory indicator 1 signal | Output | Memory indicator 1 | Illuminate | 0 |
| | | | | | | Other than above | Battery voltage |

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

| Terminal No. | | Wire color | Description | | Condition | Voltage (V) (Approx.) |
|--------------|--------|------------|--|------------------|----------------------------|--|
| + | - | | Signal name | Input/ Output | | |
| 13 | Ground | Y | Memory indicator 2 signal | Output | Memory indicator 2 | Illuminate 0 |
| | | | | | Other than above | Battery voltage |
| 14 | Ground | GR | Door mirror motor (RH) up output signal | Output | Door mirror RH | Operate (up) 1.5 - Battery voltage |
| | | | | | Other than above | 0 |
| 15 | Ground | V | Door mirror motor (RH) left output signal | Output | Door mirror RH | Operate (left) 1.5 - Battery voltage |
| | | | | | Other than above | 0 |
| 16 | Ground | O | Door mirror motor (LH) down output signal | Output | Door mirror (LH) | Operate (down) 1.5 - Battery voltage |
| | | | | | | Other than above |
| | | | Door mirror motor (LH) right output signal | | | Operate (right) 1.5 - Battery voltage |
| | | | | | | Other than above |
| 18 | Ground | Y | Changeover switch LH signal | Input | Changeover switch position | LH 0 |
| | | | | | | Neutral or RH 5 |
| 19 | Ground | BR | Mirror switch down signal | Input | Mirror switch | Operate (down) 0 |
| | | | | | | Other than above 5 |
| 20 | Ground | GR | Mirror switch right signal | Input | Mirror switch | Operate (right) 0 |
| | | | | | | Other than above 5 |
| 21 | Ground | P | Door mirror sensor (RH) left/right signal | Input | Door mirror RH position | Left edge 3.4 |
| | | | | | | Right edge 0.6 |
| 22 | Ground | G | Door mirror sensor (LH) left/right signal | Input | Door mirror LH position | Left edge 0.6 |
| | | | | | | Right edge 3.4 |
| 24 | Ground | GR | Set switch signal | Input | Set switch | Push 0 |
| | | | | | | Other than above 5 |
| 25 | Ground | P | Memory switch 2 signal | Input | Memory switch 2 | Push 0 |
| | | | | | | Other than above 5 |
| 26 | Ground | G | UART LINE (RX) | Input | Ignition switch ON | |

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

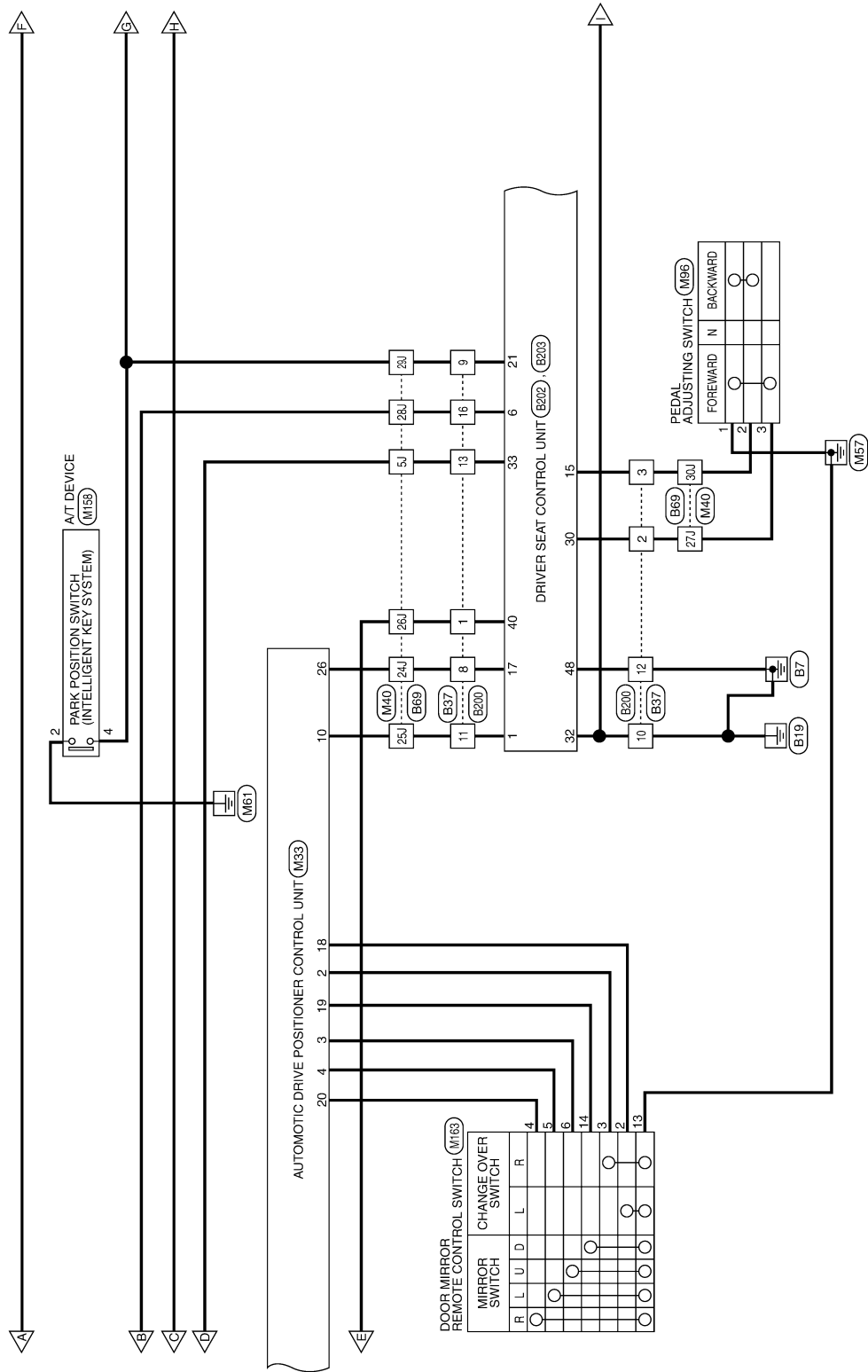
< ECU DIAGNOSIS >

| Terminal No. | | Wire color | Description | | Condition | Voltage (V) (Approx.) | |
|--------------|--------|------------|---|------------------|--------------------------|--------------------------|-----------------------|
| + | - | | Signal name | Input/ Output | | | |
| 30 | Ground | G | Door mirror motor (RH) down output signal | Output | Door mirror (RH) | Operate (down) | 1.5 - Battery voltage |
| | | | | | | Other than above | 0 |
| | | | Door mirror motor (RH) right output signal | | | Operate (right) | 1.5 - Battery voltage |
| | | | | | | Other than above | 0 |
| 31 | Ground | R | Door mirror motor (LH) up output signal | Output | Door mirror (LH) | Operate (up) | 1.5 - Battery voltage |
| | | | | | | Other than above | 0 |
| 32 | Ground | B | Door mirror motor (LH) left output signal | Output | Door mirror (LH) | Operate (left) | 1.5 - Battery voltage |
| | | | | | | Other than above | 0 |
| 33 | Ground | W | Sensor power supply | Input | — | 5 | |
| 34 | Ground | R | Battery power source | Input | — | Battery voltage | |
| 37 | Ground | G | Pedal adjusting motor forward output signal | Output | Pedal adjusting motor | Operate (forward) | Battery voltage |
| | | | | | | Other than above | 0 |
| 39 | Ground | SB | Battery power source | | — | Battery voltage | |
| 40 | Ground | B | Ground | — | — | 0 | |
| 41 | Ground | Y | Sensor ground | — | — | 0 | |
| 45 | Ground | BR | Pedal adjusting motor backward output signal | Output | Pedal adjusting motor | Operate (back-ward) | Battery voltage |
| | | | | | | Other than above | 0 |
| 48 | Ground | B | Ground | — | — | 0 | |

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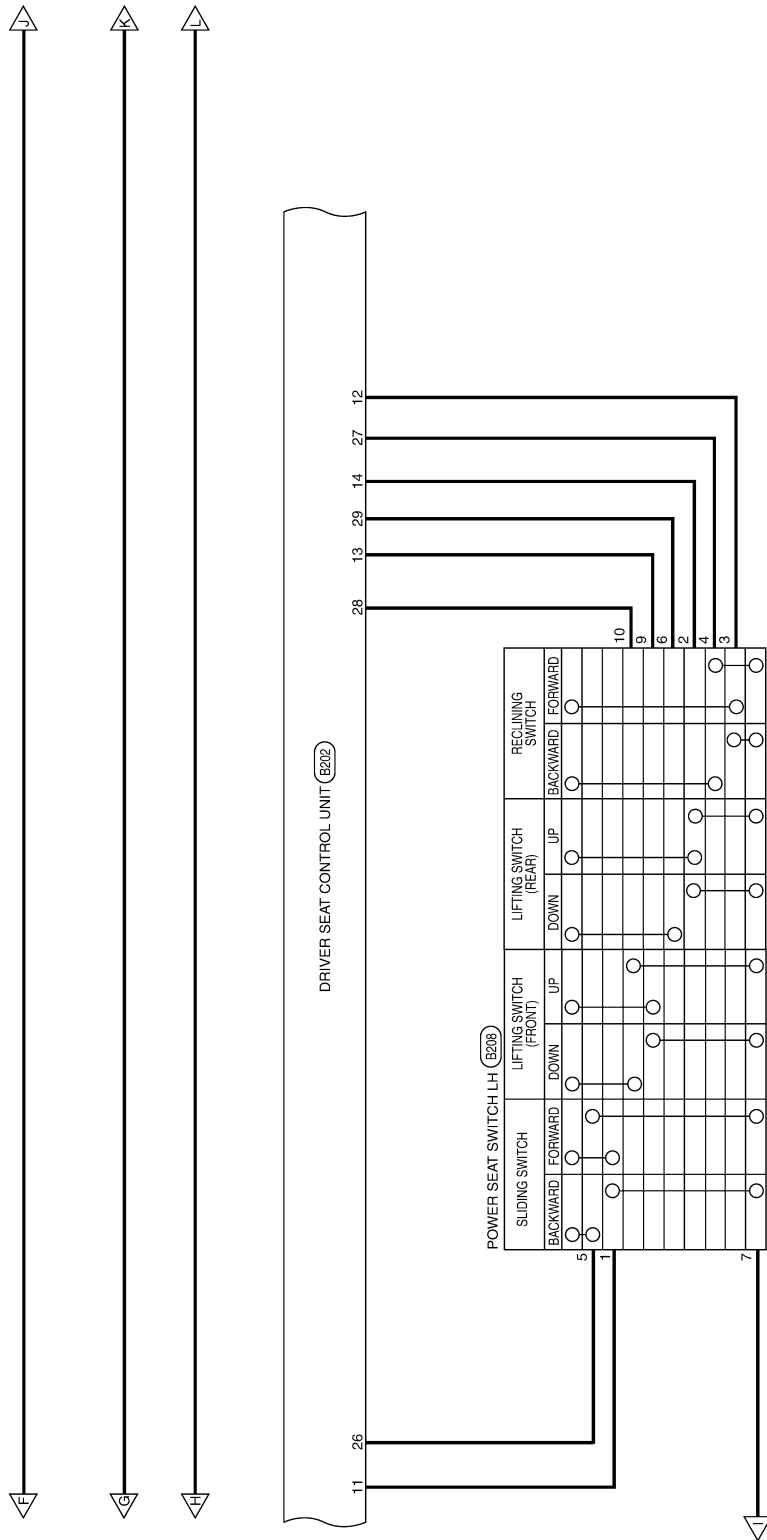


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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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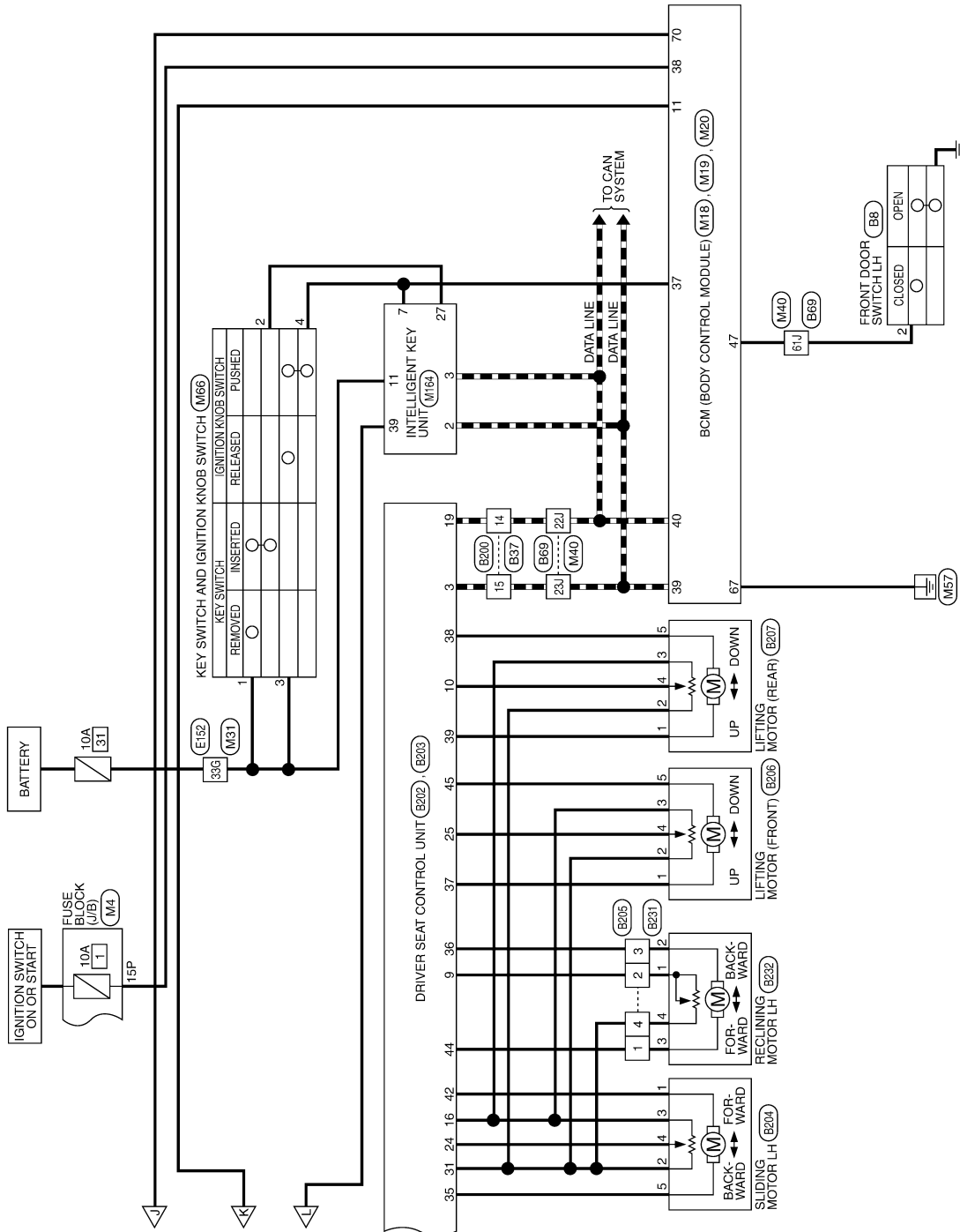


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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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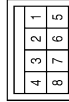
AUTOMATIC DRIVE POSITIONER CONNECTORS

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1P | R/B | - |
| 4P | G/B | - |
| 14P | O | - |
| 15P | W/R | - |

| | |
|-----------------|--------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



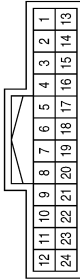
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | W | - |

| | |
|-----------------|--------------|
| Connector No. | M8 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



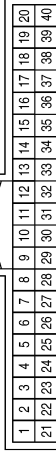
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |

| | |
|-----------------|--------------|
| Connector No. | M9 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



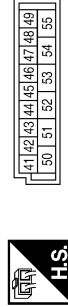
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | O | - |
| 3 | G | - |
| 4 | Y | - |
| 5 | L | - |
| 6 | W | - |
| 7 | P | - |
| 8 | LG | - |
| 9 | GR | - |
| 10 | Y | - |
| 11 | W | - |
| 12 | R | - |
| 17 | R | - |

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 11 | G/B | ACC SW |
| 37 | B | KEY SW |
| 38 | W/R | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 47 | GR | DOOR SW (DR) |

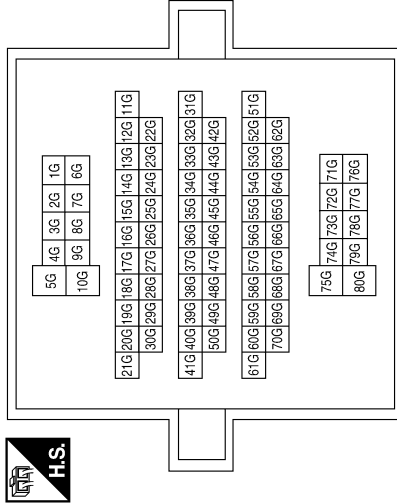
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 33G | R/B | - |

| | |
|-----------------|--------------|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | |
|-----------------|---------------------------|
| Connector No. | M20 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |

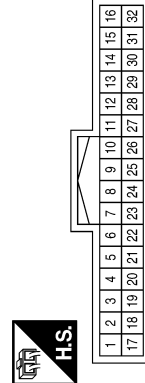


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 67 | B | GND (POWER) |
| 70 | W | BAT (F/L) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 19 | BR | MIRROR SW (DOWN) |
| 20 | GR | MIRROR SW (RIGHT) |
| 21 | P | SENSOR HORIZ (RH) |
| 22 | G | SENSOR HORIZ (LH) |
| 23 | - | - |
| 24 | GR | SET SW |
| 25 | P | ADDRESS 2 |
| 26 | G | RX |
| 27 | - | - |
| 28 | - | - |
| 29 | - | - |
| 30 | G | MOTOR COMMON |
| 31 | R | MOTOR VERT (LH) |
| 32 | B | MOTOR HORIZ (LH) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 5 | R | SENSOR VERT (RH) |
| 6 | L | SENSOR VERT (LH) |
| 7 | - | - |
| 8 | O | PEDAL SENSOR |
| 9 | LG | ADDRESS 1 |
| 10 | SB | TX |
| 11 | - | - |
| 12 | W | IND 1 |
| 13 | Y | IND 2 |
| 14 | GR | MOTOR VERT (RH) |
| 15 | V | MOTOR HORIZ (RH) |
| 16 | O | MOTOR COMMON |
| 17 | - | - |
| 18 | Y | MIRROR SELECT SW (LH) |

| | |
|-----------------|---|
| Connector No. | M33 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 1 | - | - |
| 2 | L | MIRROR SELECT SW (RH) |
| 3 | SB | MIRROR SW (UP) |
| 4 | V | MIRROR SW (LEFT) |

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ADP

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

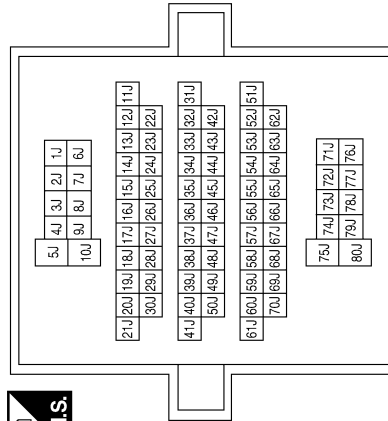
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| | |
|-----------------|---|
| Connector No. | M34 |
| Connector Name | AUTOMATIC DRIVE POSITIONER CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 33 | W | PWR |
| 34 | R | BAT |
| 35 | - | - |
| 36 | - | - |
| 37 | G | PEDAL MOTOR (FR) |
| 38 | - | - |
| 39 | SB | BAT |
| 40 | B | GND |
| 41 | Y | GND |
| 42 | - | - |
| 43 | - | - |
| 44 | - | - |
| 45 | BR | PEDAL MOTOR (RR) |
| 46 | - | - |
| 47 | - | - |
| 48 | B | GND |

| | |
|-----------------|--------------|
| Connector No. | M40 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5J | G | - |
| 22J | P | - |
| 23J | L | - |
| 24J | G | - |
| 25J | SB | - |
| 26J | R | - |
| 27J | P | - |
| 28J | O | - |
| 29J | V | - |
| 30J | GR | - |
| 61J | GR | - |

| | |
|-----------------|-------------------------------------|
| Connector No. | M66 |
| Connector Name | KEY SWITCH AND IGNITION KNOB SWITCH |
| Connector Color | GRAY |



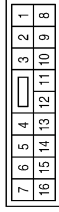
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | G | - |
| 3 | R/B | - |
| 4 | SB | - |

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

| | |
|-----------------|--------------|
| Connector No. | M91 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



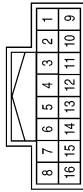
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | Y | - |
| 13 | W | - |
| 14 | BR | - |
| 15 | O | - |
| 16 | G | - |

| | |
|-----------------|---|
| Connector No. | M82 |
| Connector Name | CIRCUIT BREAKER-2 (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



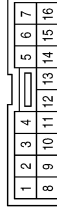
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | SB | - |
| 2 | P | - |

| | |
|-----------------|--------------|
| Connector No. | M74 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



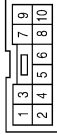
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | GR | - |
| 11 | G | - |
| 12 | V | - |
| 13 | W | - |
| 14 | R | - |
| 15 | Y | - |
| 16 | P | - |

| | |
|-----------------|---|
| Connector No. | M163 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | Y | - |
| 3 | L | - |
| 4 | GR | - |
| 5 | V | - |
| 6 | SB | - |
| 13 | B | - |
| 14 | BR | - |

| | |
|-----------------|---|
| Connector No. | M158 |
| Connector Name | ATT DEVICE (WITH MANUAL MODE SWITCH AND INTELLIGENT KEY SYSTEM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | B | - |
| 4 | V | - |

| | |
|-----------------|--|
| Connector No. | M96 |
| Connector Name | PEDAL ADJUSTING SWITCH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | GR | - |
| 3 | P | - |

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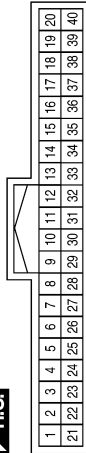
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

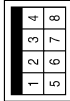
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| | |
|-----------------|----------------------|
| Connector No. | M164 |
| Connector Name | INTELLIGENT KEY UNIT |
| Connector Color | WHITE |



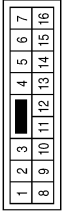
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 2 | L | CAN-H |
| 3 | P | CAN-L |
| 7 | SB | KEY SW INPUT |
| 11 | R/B | BAT |
| 27 | G | PUSH |
| 39 | SB | P RANGE SW |

| | |
|-----------------|--------------|
| Connector No. | E10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | W | - |

| | |
|-----------------|--------------|
| Connector No. | E26 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



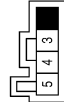
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | Y | - |
| 13 | W | - |
| 14 | BR | - |
| 15 | O | - |
| 16 | G | - |

| | |
|-----------------|--------------------------------|
| Connector No. | E109 |
| Connector Name | PEDAL ADJUSTING MOTOR ASSEMBLY |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | BR | - |
| 2 | G | - |

| | |
|-----------------|--------------------------------|
| Connector No. | E110 |
| Connector Name | PEDAL ADJUSTING MOTOR ASSEMBLY |
| Connector Color | BLACK |

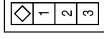


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | Y | - |
| 4 | O | - |
| 5 | W | - |

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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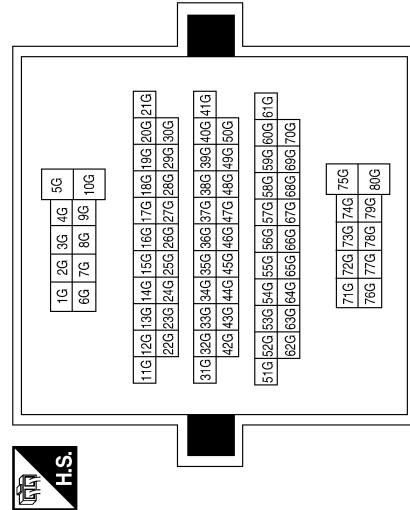
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| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | GR | - |

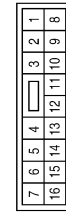
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 33G | R/B | - |

| | |
|-----------------|--------------|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | B | - |
| 11 | SB | - |
| 12 | B | - |
| 13 | G | - |
| 14 | P | - |
| 15 | L | - |
| 16 | O | - |

| | |
|-----------------|--------------|
| Connector No. | B37 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | P | - |
| 3 | GR | - |
| 8 | G | - |
| 9 | V | - |

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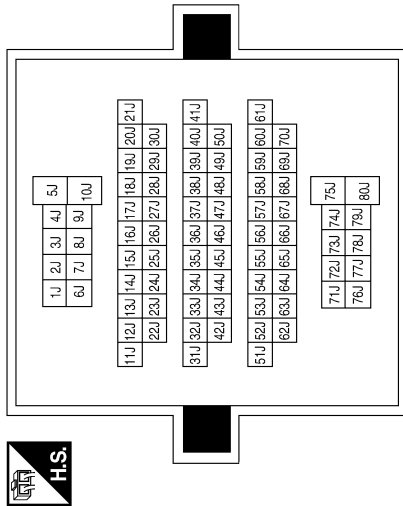
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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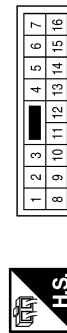
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5J | G | - |
| 22J | P | - |
| 23J | L | - |
| 24J | G | - |
| 25J | SB | - |
| 26J | R | - |
| 27J | P | - |
| 28J | O | - |
| 29J | V | - |
| 30J | GR | - |
| 61J | GR | - |

| | |
|-----------------|--------------|
| Connector No. | B69 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y/R | - |
| 2 | L/W | - |
| 3 | L | - |
| 8 | R/W | - |
| 9 | L | - |
| 10 | B | - |
| 11 | R | - |
| 12 | B | - |
| 13 | W/L | - |
| 14 | P | - |
| 15 | L | - |
| 16 | BR/W | - |

| | |
|-----------------|--------------|
| Connector No. | B200 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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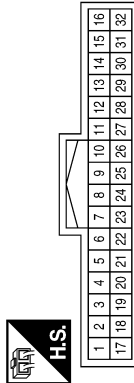
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 23 | - | - |
| 24 | Y/G | PULSE SLIDE |
| 25 | R/L | PULSE FR LIFTING |
| 26 | P/B | SLIDE FWD SW |
| 27 | G/B | RECLINE FWD SW |
| 28 | Y/B | FR LIFTER UP SW |
| 29 | R/W | RR LIFTER UP SW |
| 30 | L/W | PEDAL FORWARD |
| 31 | Y | SENSOR GND |
| 32 | B | GND (SIGNAL) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 7 | - | - |
| 8 | - | - |
| 9 | L | PULSE RECLINING |
| 10 | L/Y | PULSE RR LIFTING |
| 11 | R/B | SLIDE BACKWD SW |
| 12 | O/B | RECLINE BACKWD SW |
| 13 | L/B | FRONT LIFT DN SW |
| 14 | GW | REAR LIFT DN SW |
| 15 | L | PEDAL BACK |
| 16 | L | POWER SUPPLY |
| 17 | R/W | TX |
| 18 | - | - |
| 19 | P | CAN-L |
| 20 | - | - |
| 21 | L | P RANGE SW |
| 22 | - | - |

| | |
|-----------------|--------------------------|
| Connector No. | B202 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | RX |
| 2 | - | - |
| 3 | L | CAN-H |
| 4 | - | - |
| 5 | - | - |
| 6 | BR/W | ST SW |

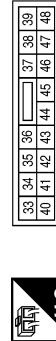
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| Connector No. | B204 |
| Connector Name | SLIDING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | Y/G | - |
| 3 | L | - |
| 4 | Y | - |
| 5 | G | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------|
| 39 | L/W | RR LIFTER DN MTR |
| 40 | Y/R | BAT (FUSE) |
| 41 | - | - |
| 42 | G | SLIDE BACKWD MTR |
| 43 | - | - |
| 44 | GW | RECLINE BACKWD MTR |
| 45 | Y | FR LIFTER UP MTR |
| 46 | - | - |
| 47 | - | - |
| 48 | B | GND (POWER) |

| | |
|-----------------|--------------------------|
| Connector No. | B203 |
| Connector Name | DRIVER SEAT CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 33 | W/L | BAT (PTC) |
| 34 | - | - |
| 35 | R | SLIDING FWD MTR |
| 36 | R/W | RECLINING FWD MTR |
| 37 | B | FR LIFTER DN MTR |
| 38 | L | RR LIFTER UP MTR |


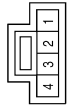
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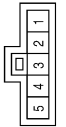
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| Connector No. | B205 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |


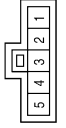
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | G/W | - |
| 3 | R/W | - |
| 4 | L | - |

| | |
|-----------------|--|
| Connector No. | B206 |
| Connector Name | LIFTING MOTOR (FRONT) (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | GRAY |


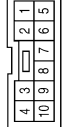
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | R/L | - |
| 3 | L | - |
| 4 | Y | - |
| 5 | B | - |

| | |
|-----------------|---|
| Connector No. | B207 |
| Connector Name | LIFTING MOTOR (REAR) (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | GRAY |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L/Y | - |
| 3 | L | - |
| 4 | Y | - |
| 5 | L/W | - |



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|-----------------|---|
| Connector No. | B208 |
| Connector Name | POWER SEAT SWITCH LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/B | - |
| 2 | G/W | - |
| 3 | O/B | - |
| 4 | G/B | - |
| 5 | P/B | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | R/W | - |
| 7 | B | - |
| 8 | - | - |
| 9 | L/B | - |
| 10 | Y/B | - |

| | |
|-----------------|--------------|
| Connector No. | B231 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | G/W | - |
| 3 | R/W | - |
| 4 | L | - |

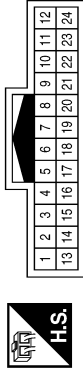
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | P/L | - |
| 8 | LG/B | - |
| 9 | V/W | - |
| 10 | Y/G | - |
| 11 | GR/R | - |
| 12 | R/Y | - |
| 17 | R | - |

| | |
|-----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | BR | - |
| 2 | O | - |
| 3 | G | - |
| 4 | Y | - |
| 5 | L/Y | - |
| 6 | W/L | - |

| | |
|-----------------|--|
| Connector No. | B232 |
| Connector Name | RECLINING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BLACK |



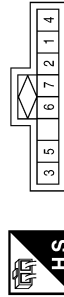
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G/W | - |
| 2 | R/W | - |
| 3 | Y | - |
| 4 | L | - |

| | |
|-----------------|--|
| Connector No. | D18 |
| Connector Name | DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | BR | - |
| 3 | R | - |
| 4 | W/L | - |
| 5 | G | - |
| 8 | O | - |
| 9 | Y | - |
| 10 | L/Y | - |

| | |
|-----------------|--------------------|
| Connector No. | D5 |
| Connector Name | SEAT MEMORY SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LG/B | - |
| 2 | P/L | - |
| 3 | V/W | - |
| 4 | B | - |
| 5 | R/Y | - |
| 6 | GR/R | - |
| 7 | Y/G | - |

| | |
|-----------------|--------------|
| Connector No. | D2 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |

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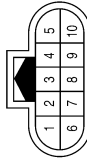
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

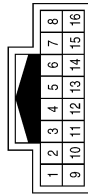
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| Connector No. | D118 |
| Connector Name | DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | V/W | - |
| 3 | GR/R | - |
| 4 | W/L | - |
| 5 | L/W | - |
| 8 | Y | - |
| 9 | Y | - |
| 10 | R/B | - |

| | |
|-----------------|--------------|
| Connector No. | D102 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | GR/R | - |
| 11 | Y | - |
| 12 | V/W | - |
| 13 | W/L | - |
| 14 | R/B | - |
| 15 | Y | - |
| 16 | L/W | - |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000004432032

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|---------------|---|--------------|
| AIR COND SW | A/C switch OFF | OFF |
| | A/C switch ON | ON |
| AUT LIGHT SYS | Outside of the room is dark | OFF |
| | Outside of the room is bright | ON |
| AUTO LIGHT SW | Lighting switch OFF | OFF |
| | Lighting switch AUTO | ON |
| BACK DOOR SW | Back door closed | OFF |
| | Back door opened | ON |
| CDL LOCK SW | Door lock/unlock switch does not operate | OFF |
| | Press door lock/unlock switch to the LOCK side | ON |
| CDL UNLOCK SW | Door lock/unlock switch does not operate | OFF |
| | Press door lock/unlock switch to the UNLOCK side | ON |
| DOOR SW-AS | Front door RH closed | OFF |
| | Front door RH opened | ON |
| DOOR SW-DR | Front door LH closed | OFF |
| | Front door LH opened | ON |
| DOOR SW-RL | Rear door LH closed | OFF |
| | Rear door LH opened | ON |
| DOOR SW-RR | Rear door RH closed | OFF |
| | Rear door RH opened | ON |
| ENGINE RUN | Engine stopped | OFF |
| | Engine running | ON |
| FR FOG SW | Front fog lamp switch OFF | OFF |
| | Front fog lamp switch ON | ON |
| FR WASHER SW | Front washer switch OFF | OFF |
| | Front washer switch ON | ON |
| FR WIPER LOW | Front wiper switch OFF | OFF |
| | Front wiper switch LO | ON |
| FR WIPER HI | Front wiper switch OFF | OFF |
| | Front wiper switch HI | ON |
| FR WIPER INT | Front wiper switch OFF | OFF |
| | Front wiper switch INT | ON |
| FR WIPER STOP | Any position other than front wiper stop position | OFF |
| | Front wiper stop position | ON |
| HAZARD SW | When hazard switch is not pressed | OFF |
| | When hazard switch is pressed | ON |
| LIGHT SW 1ST | Lighting switch OFF | OFF |
| | Lighting switch 1st | ON |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Monitor Item | Condition | Value/Status |
|----------------------------------|--|--------------|
| HEADLAMP SW1 | Headlamp switch OFF | OFF |
| | Headlamp switch 1st | ON |
| HEADLAMP SW2 | Headlamp switch OFF | OFF |
| | Headlamp switch 1st | ON |
| HI BEAM SW | High beam switch OFF | OFF |
| | High beam switch HI | ON |
| H/L WASH SW | NOTE: The item is indicated, but not monitored | OFF |
| IGN ON SW | Ignition switch OFF or ACC | OFF |
| | Ignition switch ON | ON |
| IGN SW CAN | Ignition switch OFF or ACC | OFF |
| | Ignition switch ON | ON |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7 |
| I-KEY LOCK ¹ | LOCK button of Intelligent Key is not pressed | OFF |
| | LOCK button of Intelligent Key is pressed | ON |
| I-KEY UNLOCK ¹ | UNLOCK button of Intelligent Key is not pressed | OFF |
| | UNLOCK button of Intelligent Key is pressed | ON |
| KEY ON SW | Mechanical key is removed from key cylinder | OFF |
| | Mechanical key is inserted to key cylinder | ON |
| KEYLESS LOCK ² | LOCK button of key fob is not pressed | OFF |
| | LOCK button of key fob is pressed | ON |
| KEYLESS UNLOCK ² | UNLOCK button of key fob is not pressed | OFF |
| | UNLOCK button of key fob is pressed | ON |
| OIL PRESS SW | <ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running | OFF |
| | Ignition switch ON | ON |
| PASSING SW | Other than lighting switch PASS | OFF |
| | Lighting switch PASS | ON |
| PUSH SW ¹ | Return to ignition switch to LOCK position | OFF |
| | Press ignition switch | ON |
| REAR DEF SW | Rear window defogger switch OFF | OFF |
| | Rear window defogger switch ON | ON |
| RKE LOCK AND UNLOCK ² | NOTE: The item is indicated, but not monitored | OFF |
| | | ON |
| RR WASHER SW | Rear washer switch OFF | OFF |
| | Rear washer switch ON | ON |
| RR WIPER INT | Rear wiper switch OFF | OFF |
| | Rear wiper switch INT | ON |
| RR WIPER ON | Rear wiper switch OFF | OFF |
| | Rear wiper switch ON | ON |
| RR WIPER STOP | Rear wiper stop position | OFF |
| | Other than rear wiper stop position | ON |
| TAIL LAMP SW | Lighting switch OFF | OFF |
| | Lighting switch 1ST | ON |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Monitor Item | Condition | Value/Status |
|---------------|---|-----------------------------------|
| TRNK OPNR SW | When back door opener switch is not pressed | OFF |
| | When back door opener switch is pressed | ON |
| TURN SIGNAL L | Turn signal switch OFF | OFF |
| | Turn signal switch LH | ON |
| TURN SIGNAL R | Turn signal switch OFF | OFF |
| | Turn signal switch RH | ON |
| VEHICLE SPEED | While driving | Equivalent to speedometer reading |

1: With Intelligent Key

2: With remote keyless entry system

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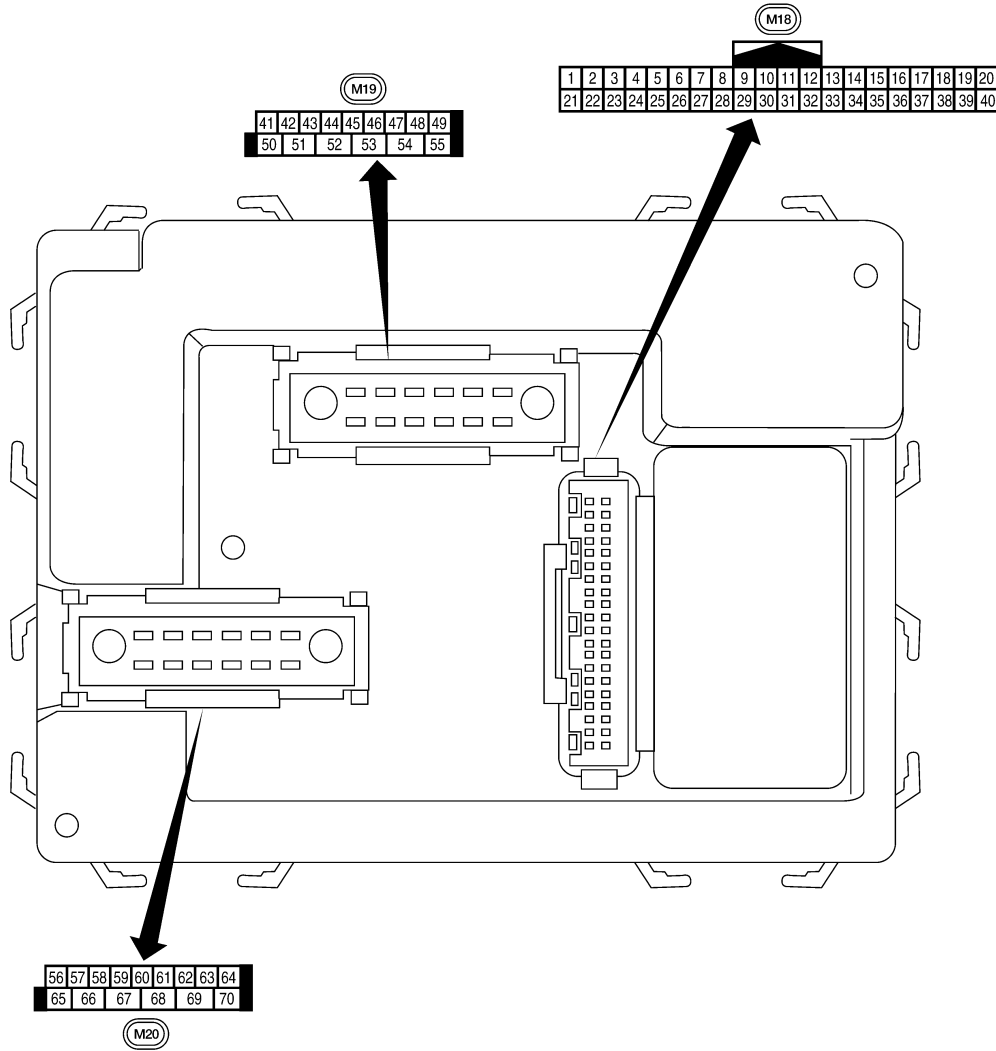
ADP

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal Layout

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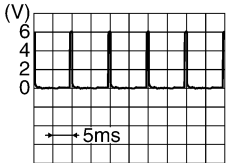

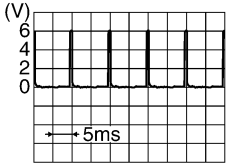
Physical Values

LIA2443E

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BCM (BODY CONTROL MODULE)

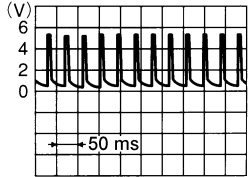
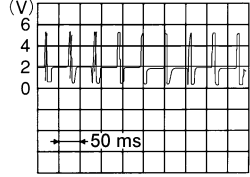
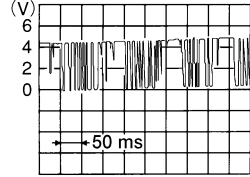
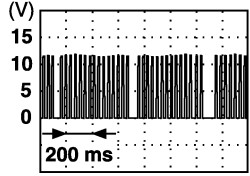
< ECU DIAGNOSIS >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|---|---------------------|---------------------|--|--|
| | | | | Ignition switch | Operation or condition | |
| 1 | BR | Ignition keyhole illumination | Output | OFF | Door is locked (SW OFF) | Battery voltage |
| | | | | | Door is unlocked (SW ON) | 0V |
| 2 | P | Combination switch input 5 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  SKIA5291E |
| 3 | SB | Combination switch input 4 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  SKIA5292E |
| 4 | V | Combination switch input 3 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  SKIA5291E |
| 5 | L | Combination switch input 2 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  SKIA5292E |
| 6 | R | Combination switch input 1 | | | | |
| 9 | Y | Rear window defogger switch | Input | ON | Rear window defogger switch ON | 0V |
| | | | | | Rear window defogger switch OFF | 5V |
| 11 | G/B | Ignition switch (ACC or ON) | Input | ACC or ON | Ignition switch ACC or ON | Battery voltage |
| 12 | LG | Front door switch RH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 13 | L | Rear door switch RH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 15 | W | Tire pressure warning check connector | Input | OFF | — | 5V |
| 18 | BR | Remote keyless entry receiver and optical sensor (ground) | Output | OFF | — | 0V |

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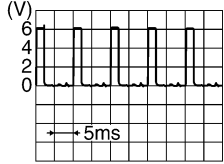

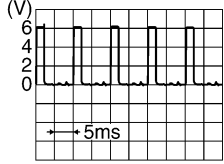
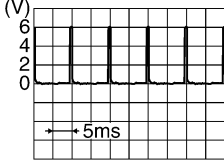
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|-----------------|------------|--|---------------------|---------------------|---|--|
| | | | | Ignition switch | Operation or condition | |
| 19 | V | Remote keyless entry receiver (power supply) | Output | OFF | Ignition switch OFF |  LIA1893E |
| 20 | G | Remote keyless entry receiver (signal) | Input | OFF | Stand-by (keyfob buttons released) |  LIA1894E |
| | | | | | When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed) |  LIA1895E |
| 21 | GR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. |
| 22 | V | BUS | — | — | Ignition switch ON or power window timer operates |  PIIA2344E |
| 23 | G | Security indicator lamp | Output | OFF | Goes OFF → illuminates (Every 2.4 seconds) | Battery voltage → 0V |
| 25 | BR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. |
| 27 | W | Compressor ON signal | Input | ON | A/C switch OFF | 5V |
| | | | | | A/C switch ON | 0V |
| 28 | LG | Front blower monitor | Input | ON | Front blower motor OFF | Battery voltage |
| | | | | | Front blower motor ON | 0V |
| 29 | G | Hazard switch | Input | OFF | ON | 0V |
| | | | | | OFF | 5V |
| 30 ¹ | G | Back door opener switch | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 30 ² | SB | Back door opener switch | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

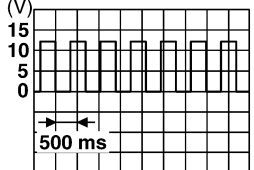
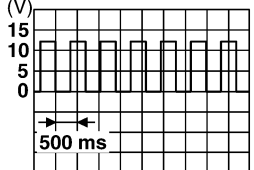
| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|-----------------|------------|-------------------------------------|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 32 | O | Combination switch output 5 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5291E</p> |
| 33 | GR | Combination switch output 4 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5292E</p> |
| 34 | G | Combination switch output 3 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5291E</p> |
| 35 | BR | Combination switch output 2 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5292E</p> |
| 36 | LG | Combination switch output 1 | | | | |
| 37 ¹ | B | Key switch and key lock solenoid | Input | OFF | Key inserted | Battery voltage |
| | | | | | Key inserted | 0V |
| 37 ² | B | Key switch and ignition knob switch | Input | OFF | Intelligent Key inserted | Battery voltage |
| | | | | | Intelligent Key inserted | 0V |
| 38 | W/R | Ignition switch (ON) | Input | ON | — | Battery voltage |
| 39 | L | CAN-H | — | — | — | — |
| 40 | P | CAN-L | — | — | — | — |
| 42 | LG | Glass hatch ajar switch | Input | ON | Glass hatch open | 0 |
| | | | | | Glass hatch closed | Battery |
| 43 | P | Back door latch switch | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |

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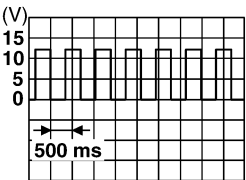
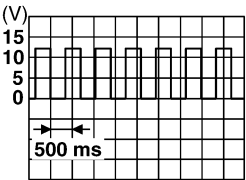
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|---|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 44 | O | Rear wiper auto stop switch | Input | ON | Rise up position (rear wiper arm on stopper) | 0V |
| | | | | | A Position (full clockwise stop position) | Battery voltage |
| | | | | | Forward sweep (counterclockwise direction) | Fluctuating |
| | | | | | B Position (full counterclockwise stop position) | 0V |
| | | | | | Reverse sweep (clockwise direction) | Fluctuating |
| 47 | GR | Front door switch LH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 48 | P | Rear door switch LH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 49 | L | Cargo lamp | Output | OFF | Any door open (ON) | 0V |
| | | | | | All doors closed (OFF) | Battery voltage |
| 51 | G | Trailer turn signal (right) | Output | ON | Turn right ON |  <p style="text-align: right; font-size: small;">SKIA3009J</p> |
| 52 | V | Trailer turn signal (left) | Output | ON | Turn left ON |  <p style="text-align: right; font-size: small;">SKIA3009J</p> |
| 53 | L | Back door latch actuator | Output | OFF | OFF | 0 |
| | | | | | ON | Battery voltage |
| 55 | W | Rear wiper output circuit 1 | Output | ON | OFF | 0 |
| | | | | | ON | Battery voltage |
| 56 | V | Battery saver output | Output | OFF | 30 minutes after ignition switch is turned OFF | 0V |
| | | | | ON | — | Battery voltage |
| 57 | R/Y | Battery power supply | Input | OFF | — | Battery voltage |
| 58 | W | Optical sensor | Input | ON | When optical sensor is illuminated | 3.1V or more |
| | | | | | When optical sensor is not illuminated | 0.6V or less |
| 59 | GR | Front door lock assembly LH actuator (unlock) | Output | OFF | OFF (neutral) | 0V |
| | | | | | ON (unlock) | Battery voltage |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|--|---------------------|---------------------|---|---|
| | | | | Ignition switch | Operation or condition | |
| 60 | LG | Turn signal (left) | Output | ON | Turn left ON |  <small>SKIA3009J</small> |
| 61 | G | Turn signal (right) | Output | ON | Turn right ON |  <small>SKIA3009J</small> |
| 63 | BR | Interior room/map lamp | Output | OFF | Any door switch | ON (open) 0V |
| | | | | | OFF (closed) | Battery voltage |
| 65 | V | All door lock actuators (lock) | Output | OFF | OFF (neutral) | 0V |
| | | | | | ON (lock) | Battery voltage |
| 66 | L | Front door lock actuator RH, rear door lock actuators LH/RH and glass hatch lock actuator (unlock) | Output | OFF | OFF (neutral) | 0V |
| | | | | | ON (unlock) | Battery voltage |
| 67 | B | Ground | Input | ON | — | 0V |
| 68 | O | Power window power supply (RAP) | Output | — | Ignition switch ON | Battery voltage |
| | | | | | Within 45 seconds after ignition switch OFF | Battery voltage |
| | | | | | More than 45 seconds after ignition switch OFF | 0V |
| | | | | | When front door LH or RH is open or power window timer operates | 0V |
| 69 | L | Power window power supply | Output | — | — | Battery voltage |
| 70 | W | Battery power supply | Input | OFF | — | Battery voltage |

1: With remote keyless entry system

2: With Intelligent Key system

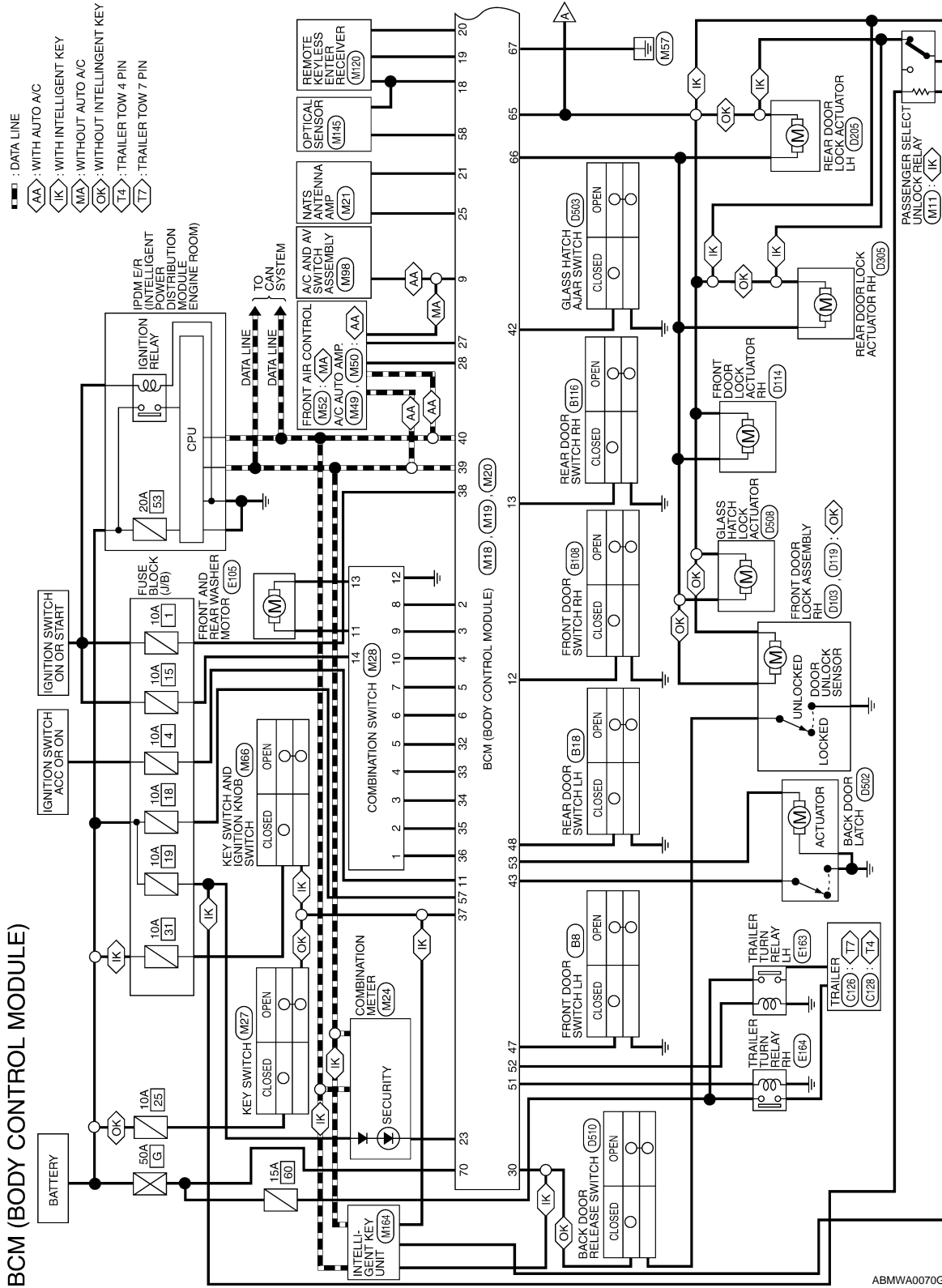
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Wiring Diagram

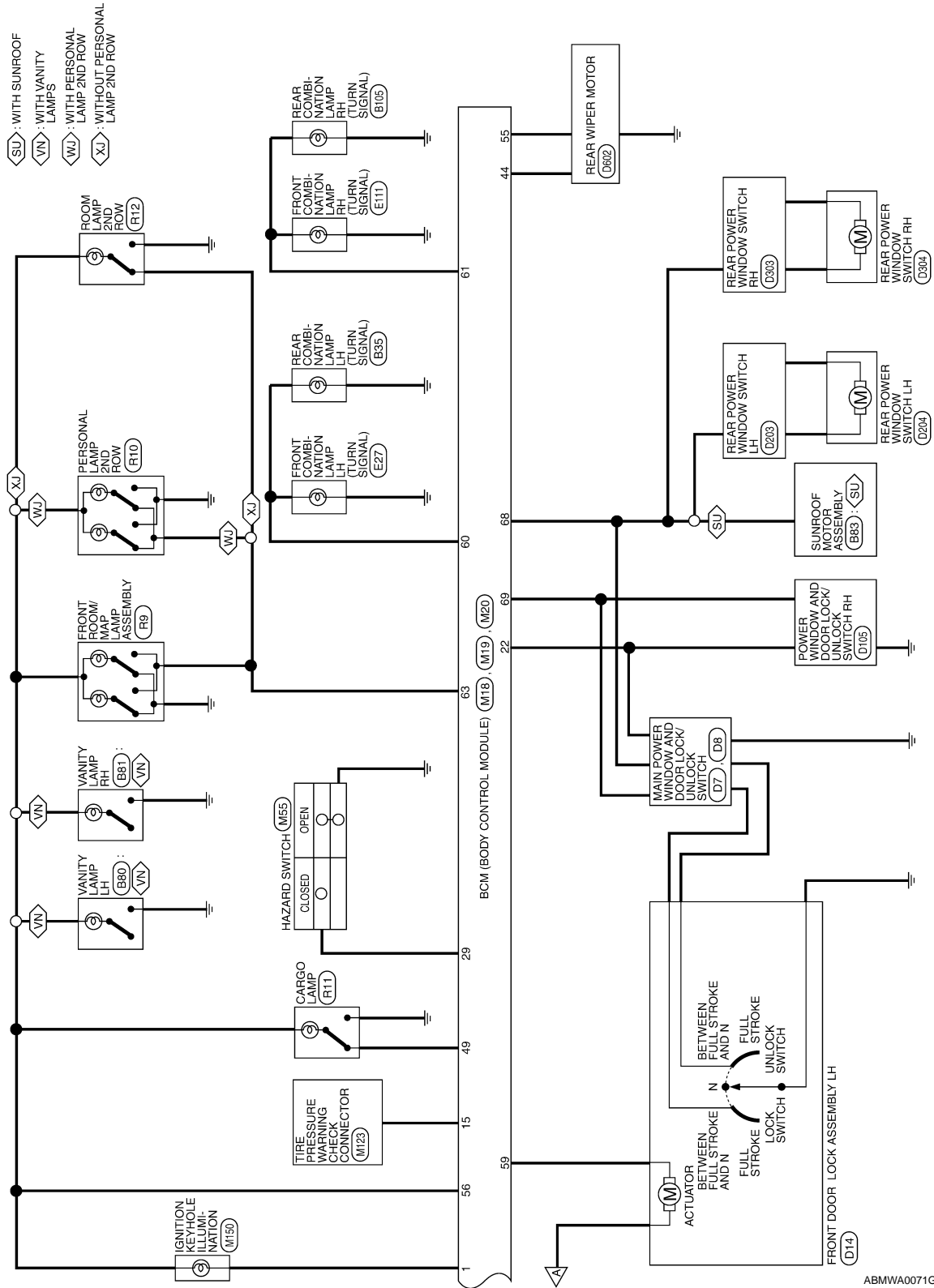
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BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE) CONNECTORS

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 1 | BR | KEY RING OUTPUT |
| 2 | P | INPUT 5 |
| 3 | SB | INPUT 4 |
| 4 | V | INPUT 3 |
| 5 | L | INPUT 2 |
| 6 | R | INPUT 1 |
| 7 | - | - |
| 8 | - | - |
| 9 | Y | REAR DEFOGGER SW |
| 10 | - | - |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 50 | 51 | 52 | 53 | 54 | 55 | | | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------|
| 41 | - | - |
| 42 | LG | GLASS HATCH SW |
| 43 | P | BACK DOOR SW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------------------|
| 11 | G/B | ACC SW |
| 12 | LG | DOOR SW (AS) |
| 13 | L | DOOR SW (RR) |
| 14 | - | - |
| 15 | W | TPMS MODE TRIGGER SW |
| 16 | - | - |
| 17 | - | - |
| 18 | BR | KEYLESS AND AUTOLIGHT SENSOR GND |
| 19 | V | KEYLESS TUNER POWER SUPPLY OUTPUT |
| 20 | G | KEYLESS TUNER SIGNAL |
| 21 | GR | IMMOBILIZER ANTENNA SIG (CLOCK) |
| 22 | V | ANTI-PINCH SERIAL LINK (RX, TX) |
| 23 | G | SECURITY INDICATOR OUTPUT |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--|
| 25 | BR | IMMOBILIZER ANTENNA SIGNAL (TX, RX) |
| 26 | - | - |
| 27 | W | AIRCON SW |
| 28 | LG | BLOWER FAN SW |
| 29 | G | HAZARD SW |
| 30 | SB | BACK DOOR AUTO CLOSURE (WITH INTELLIGENT KEY SYSTEM) |
| 30 | G | LIFTGATE OPENER SW (WITHOUT INTELLIGENT KEY SYSTEM) |
| 31 | - | - |
| 32 | O | OUTPUT 5 |
| 33 | GR | OUTPUT 4 |
| 34 | G | OUTPUT 3 |
| 35 | BR | OUTPUT 2 |
| 36 | LG | OUTPUT 1 |
| 37 | B | KEY SW |
| 38 | W/R | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------------------|
| 44 | O | REAR WIPE AUTO STOP SW1 |
| 45 | - | - |
| 46 | - | - |
| 47 | GR | DOOR SW (DR) |
| 48 | P | DOOR SW (RL) |
| 49 | L | LUGGAGE LAMP OUTPUT |
| 50 | - | - |
| 51 | G | TRAILER FLASHER OUTPUT (RIGHT) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------------|
| 52 | V | TRAILER FLASHER OUTPUT (LEFT) |
| 53 | L | LIFT GATE OPENER OUTPUT |
| 54 | - | - |
| 55 | W | REAR WIPE MOTOR OUTPUT1 |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| | |
|-----------------|---------------------------|
| Connector No. | M20 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |

| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | | | |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------|
| 56 | V | BAT SAVER OUTPUT |
| 57 | R/Y | BAT (FUSE) |
| 58 | W | AUTO LIGHT SENSOR INPUT 2 |
| 59 | GR | DOOR UNLOCK OUTPUT (DR) |
| 60 | LG | FLASHER OUTPUT (LEFT) |

| | |
|-----------------|--------------------|
| Connector No. | M28 |
| Connector Name | COMBINATION SWITCH |
| Connector Color | WHITE |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--|
| 61 | G | FLASHER OUTPUT (RIGHT) |
| 62 | - | - |
| 63 | BR | ROOM LAMP |
| 64 | - | - |
| 65 | V | DOOR LOCK OUTPUT (ALL) |
| 66 | L | DOOR UNLOCK OUTPUT (OTHER) |
| 67 | B | GND (POWER) |
| 68 | O | POWER WINDOW POWER SUPPLY OUTPUT (LINKED TO RAP) |
| 69 | L | POWER WINDOW POWER SUPPLY OUTPUT (BAT) |
| 70 | W | BAT (F/L) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------|
| 1 | LG | INPUT 1 |
| 2 | BR | INPUT 2 |
| 3 | G | INPUT 3 |
| 4 | GR | INPUT 4 |
| 5 | O | INPUT 5 |
| 6 | R | OUTPUT 1 |
| 7 | L | OUTPUT 2 |
| 8 | P | OUTPUT 5 |
| 9 | SB | OUTPUT 4 |
| 10 | V | OUTPUT 3 |
| 11 | O | WASHER MOTOR (RR+) |
| 12 | B | GND |
| 13 | L | WASHER MOTOR (RR-) |
| 14 | W/G | IGN |

Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

ABMIA0162GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|---|
| U1000: CAN COMM CIRCUIT | Inhibit engine cranking | When the BCM re-establishes communication with the other modules. |
| U1010: CONTROL UNIT (CAN) | Inhibit engine cranking | When the BCM re-start communicating with the other modules. |

DTC Inspection Priority Chart

INFOID:000000004432037

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

| Priority | DTC |
|----------|--|
| 1 | <ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) |
| 2 | <ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2013: STRG COMM 1 • B2552: INTELLIGENT KEY • B2590: NATS MALFUNCTION |
| 3 | <ul style="list-style-type: none"> • C1729: VHCL SPEED SIG ERR • C1735: IGNITION SIGNAL |
| 4 | <ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • 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 • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL |

DTC Index

INFOID:000000004432038

NOTE:

- Details of time display
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|--|-----------|------------------------------------|---|---|
| No DTC is detected. further testing may be required. | — | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | — | BCS-33 |
| U1010: CONTROL UNIT (CAN) | — | — | — | BCS-34 |
| B2013: STRG COMM 1 | — | — | — | SEC-27 |
| B2190: NATS ANTENA AMP | — | — | — | SEC-30 (with I- Key), SEC-136 (without I-Key) |
| B2191: DIFFERENCE OF KEY | — | — | — | SEC-33 (with I- Key), SEC-139 (without I-Key) |
| B2192: ID DISCORD BCM-ECM | — | — | — | SEC-34 (with I- Key), SEC-140 (without I-Key) |
| B2193: CHAIN OF BCM-ECM | — | — | — | SEC-36 (with I- Key), SEC-142 (without I-Key) |
| B2552: INTELLIGENT KEY | — | — | — | SEC-38 |
| B2590: NATS MALFUNCTION | — | — | — | SEC-39 |
| C1708: [NO DATA] FL | — | — | — | WT-14 |
| C1709: [NO DATA] FR | — | — | — | WT-14 |
| C1710: [NO DATA] RR | — | — | — | WT-14 |
| C1711: [NO DATA] RL | — | — | — | WT-14 |
| C1712: [CHECKSUM ERR] FL | — | — | — | WT-16 |
| C1713: [CHECKSUM ERR] FR | — | — | — | WT-16 |
| C1714: [CHECKSUM ERR] RR | — | — | — | WT-16 |
| C1715: [CHECKSUM ERR] RL | — | — | — | WT-16 |
| C1716: [PRESSDATA ERR] FL | — | — | — | WT-18 |
| C1717: [PRESSDATA ERR] FR | — | — | — | WT-18 |
| C1718: [PRESSDATA ERR] RR | — | — | — | WT-18 |
| C1719: [PRESSDATA ERR] RL | — | — | — | WT-18 |
| C1720: [CODE ERR] FL | — | — | — | WT-16 |
| C1721: [CODE ERR] FR | — | — | — | WT-16 |
| C1722: [CODE ERR] RR | — | — | — | WT-16 |
| C1723: [CODE ERR] RL | — | — | — | WT-16 |
| C1724: [BATT VOLT LOW] FL | — | — | — | WT-16 |
| C1725: [BATT VOLT LOW] FR | — | — | — | WT-16 |
| C1726: [BATT VOLT LOW] RR | — | — | — | WT-16 |
| C1727: [BATT VOLT LOW] RL | — | — | — | WT-16 |
| C1729: VHCL SPEED SIG ERR | — | — | — | WT-19 |
| C1735: IGNITION SWITCH | — | — | — | — |

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ADP SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

ADP SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003935603

NOTE:

Always perform the "Basic Inspection" before performing diagnosis in the following table. Refer to [ADP-5, "Work Flow"](#).

SYMPTOM 1

| Symptom | Diagnosis procedure | Reference page |
|---|---|--|
| Manual functions (for specific part) do not operate | Sliding operation | Check sliding switch. ADP-44 |
| | Reclining operation | Check reclining switch. ADP-46 |
| | Lifting operation (front) | Check lifting switch (front). ADP-48 |
| | Lifting operation (rear) | Check lifting switch (rear). ADP-50 |
| | Pedal operation | 1. Check pedal adjusting switch. ADP-52 |
| | | 2. Check pedal adjusting sensor. ADP-75 |
| | Door mirror operation | 1. Changeover switch. ADP-57 |
| 2. Mirror switch ADP-59 | | |
| All parts of seat | Check power seat switch ground circuit. ADP-62 | |

SYMPTOM 2

| Symptom | Diagnosis procedure | Reference page |
|---|---------------------------|--|
| Memory functions (for specific part) do not operate | Sliding operation | Check sliding sensor. ADP-67 |
| | Reclining operation | Check reclining sensor. ADP-69 |
| | Lifting operation (front) | Check lifting sensor (front). ADP-71 |
| | Lifting operation (rear) | Check lifting sensor (rear). ADP-73 |
| | Pedal operation | Check pedal adjusting sensor. ADP-75 |
| | Door mirror operation | Check door mirror sensor. Driver side: ADP-77 Passenger side: ADP-79 |

SYMPTOM 3

| Symptom | Diagnosis procedure | Reference page |
|--|---------------------------|--|
| Memory functions and manual functions (for specific part) do not operate | Sliding operation | Check sliding motor. ADP-81 |
| | Reclining operation | Check reclining motor. ADP-83 |
| | Lifting operation (front) | Check lifting motor (front). ADP-85 |
| | Lifting operation (rear) | Check lifting motor (rear). ADP-87 |
| | Pedal operation | Check pedal adjusting motor. ADP-89 |
| | Door mirror operation | Check door mirror motor. ADP-91 |

SYMPTOM 4

ADP SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

| Symptom | Diagnosis procedure | Reference page |
|--|---|------------------------|
| Entry/Exit assist function does not operate. | 1. Check system setting. | ADP-20 |
| | 2. Perform initialization. | ADP-21 |
| | 3. Check front door switch (driver side). | ADP-65 |
| Intelligent Key interlock function does not operate. (Other automatic operations and Intelligent Key system are normal) | 1. Check door lock function. | DLK-22 |
| | 2. Perform memory storing. | ADP-10 |

SYMPTOM 5

| Symptom | Diagnosis procedure | Reference page |
|---|---------------------------------|------------------------|
| Memory indicators 1 and/or 2 do not illuminate. | 1. Check seat memory switch. | ADP-55 |
| | 2. Check seat memory indicator. | ADP-94 |

SYMPTOM 6

| Symptom | Diagnosis procedure | Reference page |
|------------------------------------|--|------------------------|
| Memory operation does not operate. | Check A/T device (park position switch). | ADP-63 |

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ADP

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000003935604

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-19 |
| | Entry/exit assist function is disabled. NOTE: The entry/exit assist function is disabled before delivery (initial setting). | Change the settings. | ADP-22 |
| Entry assist function does not operate. | Manual operation with power seat switch was performed after exit assist function execution. | Perform the memory function. | ADP-22 |
| Memory function, entry/exit assist function or Intelligent Key interlock function does not operate. | The operating conditions are not fulfilled. | Fulfill the operation conditions. | Memory function: ADP-16 |
| | | | Exit assist function: ADP-20 |
| | | | Entry assist function: ADP-22 |
| | | | Intelligent Key interlock function: ADP-10 |

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003935605

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 SR and SB section of this Service Manual.

WARNING:

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

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000004448898

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

Precaution for Work

INFOID:000000003935606

- 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.

PRECAUTIONS

< PRECAUTION >

- 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, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000003935607

1. CHECK POWER SUPPLY AND DROUND CIRCUIT

Check the power supply and ground circuit as shown below.

- Driver seat control unit :Refer to [ADP-42, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure"](#).
- Automatic drive positioner control unit: Refer to [ADP-42, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normally?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2. CHECK MANUAL FUNCTION

Check the manual function operations by operating the relevant switches as shown below.

- Seat (slide, reclining, lifting front, lifting rear)
- Pedal assembly (forward, backward)
- Door mirror

Do all manual functions operate normally?

YES >> GO TO 3

NO (Seat, pedal, door mirror)>>Go to SYMPTOM 1, refer to [ADP-150, "Symptom Table"](#). And, GO TO 4 if the result of SYMPTOM 1 is OK.

3. CHECK MEMORY FUNCTION 1

Register the seat positions (refer to Owner's Manual) and check that all parts of the seat, pedals, and door mirrors move to their memory positions correctly.

Are the operations normal?

YES >> Check each malfunction according to the instruction of the SYMPTOM 4, refer to [ADP-150, "Symptom Table"](#).

NO (memory indicator operates normally)>> Go to SYMPTOM 2, refer to [ADP-150, "Symptom Table"](#).

NO (memory indicator does not operate normally either)>> GO TO 5

4. CHECK MEMORY FUNCTION 2

Register the seat positions (refer to Owner's Manual) and check that all parts of the seat, pedals, and door mirrors move to their memory positions correctly.

Are the operations normal?

YES >> Check intermittent incident. Refer to [GI-49, "Intermittent Incident"](#).

NO >> GO TO 7

5. CHECK SEAT MEMORY SWITCH/MEMORY INDICATOR

Check the seat memory switch/memory switch indicator of the SYMPTOM 5, refer to [ADP-150, "Symptom Table"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Repair or replace the malfunctioning part.

6. CHECK OPERATION CONDITION

Check the memory operation conditions (refer to [ADP-10, "AUTOMATIC DRIVE POSITIONER SYSTEM : System Description"](#)).

Are all operation conditions fulfilled?

YES >> Go to SYMPTOM 6, refer to [ADP-150, "Symptom Table"](#).

NO >> Fulfill the operation conditions. Refer to [ADP-10, "AUTOMATIC DRIVE POSITIONER SYSTEM : System Description"](#).

7. CHECK MECHANISM

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is any malfunction present in the relevant parts?

- YES >> Go to SYMPTOM 3, refer to [ADP-150, "Symptom Table"](#).
- NO >> Repair or replace the malfunctioning part.

PREPARATION

< PREPARATION >

PREPARATION

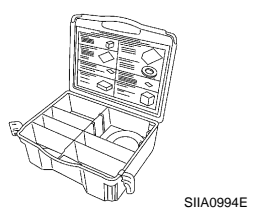
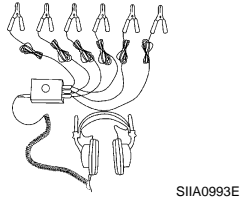
PREPARATION

Special Service Tool

INFOID:000000003935608

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

| Tool number (Kent-Moore No.) Tool name | Description |
|---|------------------------------|
| — (J-39570) Chassis ear | Locating the noise |
| — (J-43980) NISSAN Squeak and Rattle Kit | Repairing the cause of noise |

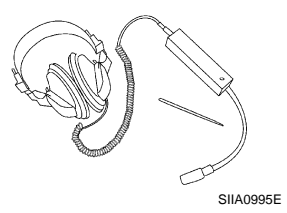


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Commercial Service Tool

INFOID:000000003935609

| (Kent-Moore No.) Tool name | Description |
|-------------------------------|--------------------|
| (J-39565) Engine ear | Locating the noise |



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DRIVER SEAT CONTROL UNIT

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

DRIVER SEAT CONTROL UNIT

Removal and Installation

INFOID:000000003935610

Refer to [SE-33, "Exploded View"](#) for removal and installation of driver seat control unit.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ON-VEHICLE REPAIR >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

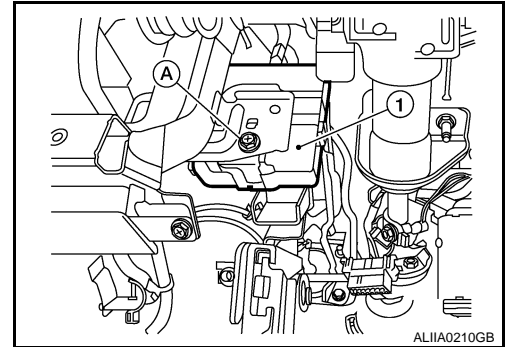
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the battery negative terminal.
2. Remove the instrument driver lower panel. Refer to [IP-11, "Removal and Installation"](#).
3. Remove the screw (A).
4. Remove automatic drive positioner control unit (1) from bracket and disconnect electrical connectors.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Clamp the harness in position.**

NOTE:

After installing the automatic drive positioner control unit, perform additional service when disconnecting battery negative terminal. Refer to [ADP-8, "Special Repair Requirement"](#).

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SEAT MEMORY SWITCH

< ON-VEHICLE REPAIR >

SEAT MEMORY SWITCH

Removal and Installation

INFOID:000000003935612

Refer to [INT-14, "Removal and Installation"](#) for removal and installation of seat memory switch.

DOOR MIRROR REMOTE CONTROL SWITCH

< ON-VEHICLE REPAIR >

DOOR MIRROR REMOTE CONTROL SWITCH

Removal and Installation

INFOID:000000003935613

Refer to [MIR-15. "Door Mirror Assembly"](#) for removal and installation of door mirror remote control switch.

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PEDAL ADJUSTING MOTOR

< ON-VEHICLE REPAIR >

PEDAL ADJUSTING MOTOR

Removal and Installation

INFOID:000000003935614

Refer to [ACC-4. "Removal and Installation"](#) for accelerator pedal and [BR-23. "Removal and Installation"](#) for brake pedal when removing pedal adjusting motors.