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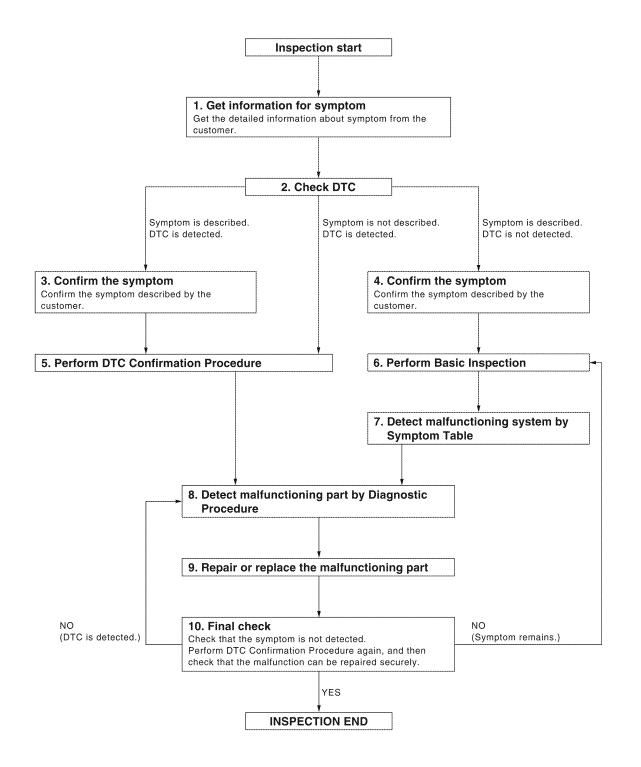
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

WORK FLOW



DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

${f 1}$. GET INFORMATION FOR SYMPTOM Α Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred). В >> 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? D 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 Е 3. CONFIRM THE SYMPTOM Try to confirm the symptom described by the customer. F >> 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-150, "Description". Is the incident normal operation? >> Inspection End. YES NO >> GO TO 6 ADP 6. PERFORM BASIC INSPECTION Isolate the malfunctioning point with the basic inspection. Refer to ADP-7, "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 M NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident". $8.\,$ PERFORM COMPONENT FUNCTION CHECK Perform the component function check for the isolated malfunctioning point. >> GO TO 9 $oldsymbol{9}.$ 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

ADP-5

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

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α **Preliminary Check** INFOID:0000000003709324 1. FOREIGN OBJECTS В 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. D NO >> GO TO 2 2. WIRING CONNECTIONS Disconnect harness connectors. Check terminals for damage or loose connections. Reconnect harness connectors. F Are any connectors damaged or loose? >> 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-43, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure". Н Is the inspection result normal? YES >> Refer to ADP-116, "DTC Index". NO >> Repair or replace as necessary.

Special Repair Requirement

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

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PRE-INSPECTION FOR DIAGNOSTIC

< BASIC INSPECTION >

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

1. CHECK POWER SUPPLY AND DROUND CIRCUIT

Check the power supply and ground circuit as shown below.

- Driver seat control unit: Refer to <u>ADP-43, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure"</u>.
- Automatic drive positioner control unit: Refer to <u>ADP-43</u>, "<u>AUTOMATIC DRIVE POSITIONER CONTROL</u> UNIT: Diagnosis Procedure".

Is the inspection result normal?

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 <u>ADP-148, "Symptom Table"</u>. 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, steering wheel 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 <u>ADP-148</u>, "Symptom Table".

No (memory indicator operates normally)>> Go to SYMPTOM 2, refer to ADP-148. "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-37, "Intermittent Incident".

NO >> GO TO 7

${f 5}$. CHECK SEAT MEMORY SWITCH/MEMORY INDICATOR

Check the seat memory switch/memory switch indicator of the SYMPTOM 5, refer to <u>ADP-148, "Symptom Table"</u>.

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 <u>ADP-11, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Description"</u>).

Are all operation conditions fulfilled?

YES >> Go to SYMPTOM 6, refer to ADP-148, "Symptom Table".

NO >> Fulfill the operation conditions. Refer to <u>ADP-11</u>, "<u>AUTOMATIC DRIVE POSITIONER SYSTEM</u>:

System Description".

7. CHECK MECHANISM

Check for the following.

Mechanism deformation or pinched foreign materials.

PRE-INSPECTION FOR DIAGNOSTIC

< BASIC INSPECTION >

• Interference with other parts because of poor installation. Is any malfunction present in the relevant parts?

>> Go to SYMPTOM 3, refer to <u>ADP-148. "Symptom Table"</u>. >> Repair or replace the malfunctioning part. YES

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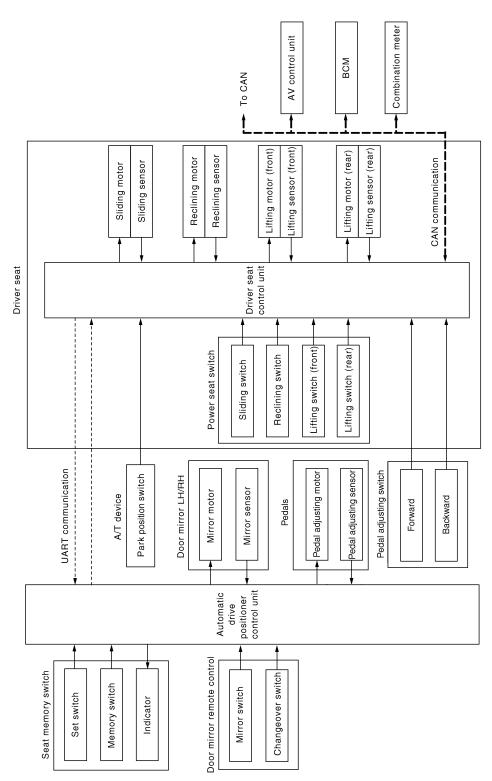
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FUNCTION DIAGNOSIS

AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram

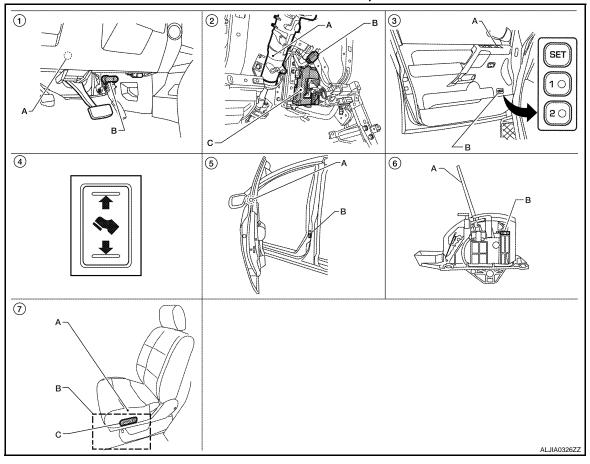


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< FUNCTION DIAGNOSIS >

AUTOMATIC DRIVE POSITIONER SYSTEM: Component Parts Location INFOID:00000003709327



- A. Automatic drive positioner control 2. unit M33, M34 B. Pedal adjusting motor assembly E109, E110
- Pedal adjusting switch M96
- A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
 - B. Driver seat control unit B202, B203
 - C. Power seat switch LH B208

- A. Steering column
 - B. Key switch and key lock solenoid
 - C. BCM M18, M19, M20 (view with instrument panel removed)
- A. Door mirrror LH D4, RH D107
 - B. Front door switch LH B8
 - C. Front door lock assembly LH (key cylinder switch) D14
- A. Door mirror remote control switch
 - B. Seat memory switch D5
- A. A/T selector lever
- B. A/T device (park position switch) M203

AUTOMATIC DRIVE POSITIONER SYSTEM: System Description

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.

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< FUNCTION DIAGNOSIS >

Function Description		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).
Entry/Evit againt function	Exit	On exit, the seat moves backward.
Entry/Exit assist function Entry		On entry, the seat returns from exiting position to the previous driving position.
Intelligent Key interlock function		Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000003709329

CONTROL UNITS

Item	Function
Driver seat control unit	 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	 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.
ВСМ	Transmit the following status to the driver seat control unit via CAN communication. 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. Reclining switch Lifting switch (front) Lifting switch (rear) Sliding switch The specific parts can be operated with the operation of each switch.		

< FUNCTION DIAGNOSIS >

Item	Function	
Pedal adjusting switch	The following switch is installed. • 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. • 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 upward/downward and leftward/rightward.	
Pedal adjusting motor	Move the pedal assembly forward/backward.	
Lifting motor (front)	Move the seat lifting (front) upward/downward.	
Lifting motor (rear)	Move the seat lifting (rear) upward/downward.	
Reclining motor	Tilt and raise up the seatback.	
Sliding motor	Slide the seat forward/backward.	
Seat memory indicator	Illuminates or flashes according to the registration/operation status.	

MANUAL FUNCTION

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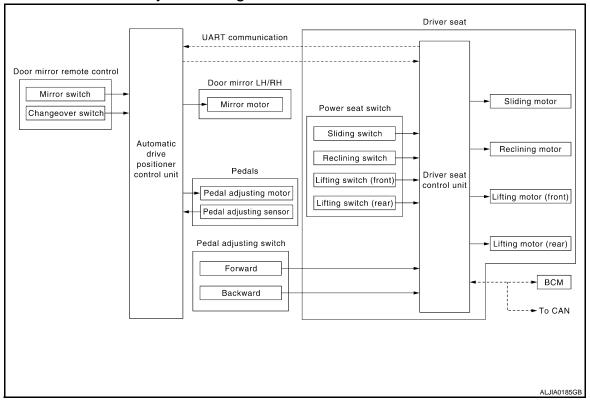
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< FUNCTION DIAGNOSIS >

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

- 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 inputted to the driver seat control unit when the power seat switch is operated.
2	_	Motors (sliding, lifting, reclining)	The driver seat control unit outputs signals to each motor according to the power seat switch input signal.

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.

< 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.

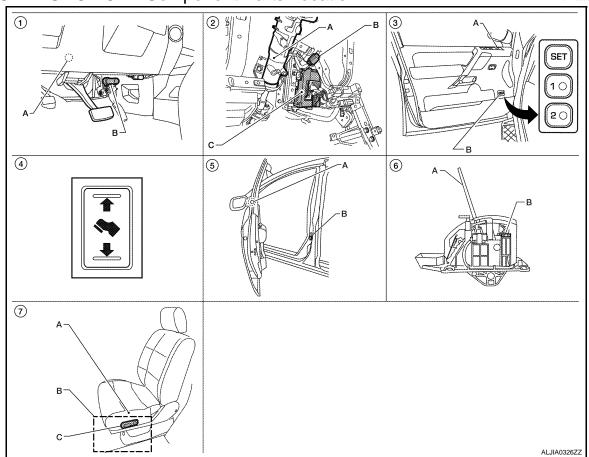
Door Mirror

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

NOTE:

The door mirrors can be operated manually when ignition switch is in either ACC or ON position. The ignition switch signal (ACC/ON) is transmitted from BCM to the driver seat control unit via CAN communication and from the driver seat control unit to the automatic drive positioner control unit via UART communication.

MANUAL FUNCTION: Component Parts Location



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< FUNCTION DIAGNOSIS >

- A. Automatic drive positioner control 2. unit M33, M34
 - B. Pedal adjusting motor assembly E109, E110
- 4. Pedal adjusting switch M96
- 2. A. Steering column
 - B. Key switch and key lock solenoid M27
 - C. BCM M18, M19, M20 (view with instrument panel removed)
- 5. A. Door mirrror LH D4, RH D107
 - B. Front door switch LH B8
 - C. Front door lock assembly LH (key cylinder switch) D14
- A. Door mirror remote control switch D10
 - B. Seat memory switch D5
- . A. A/T selector lever
 - B. A/T device (park position switch) M203

- A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
 - B. Driver seat control unit B202, B203
 - C. Power seat switch LH B208

MANUAL FUNCTION: Component Description

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CONTROL UNITS

Item	Function	
Driver seat control unit	 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.	
ВСМ	Recognizes the following status and transmits it to the driver seat control unit via CAN communication. • Ignition position: ACC/ON	

INPUT PARTS

Switches

Item	Function	
Power seat switch	The following switch is installed. 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. • 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. • 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.

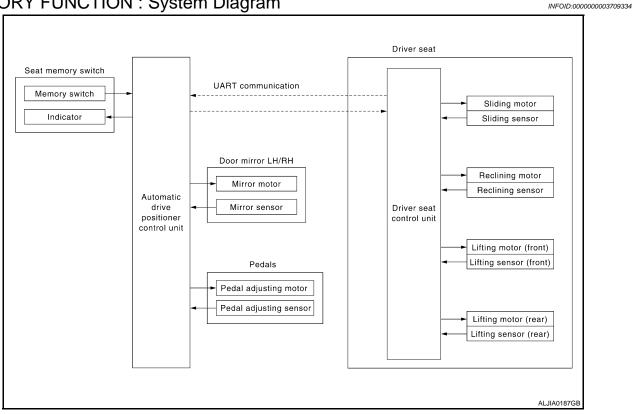
OUTPUT PARTS

< FUNCTION DIAGNOSIS >

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

MEMORY FUNCTION

MEMORY FUNCTION: System Diagram



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

- Turn ignition switch ON.
- Press desired memory switch for more than 0.5 second.
- 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.

< FUNCTION DIAGNOSIS >

Item	Request status
Ignition position	ON
Switch inputs • Power seat switch	OFF
 Pedal adjusting switch Door mirror control switch Set switch 	OFF (Not operated)
Seat memory switch	
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 adjust- ing, 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.

< FUNCTION DIAGNOSIS >

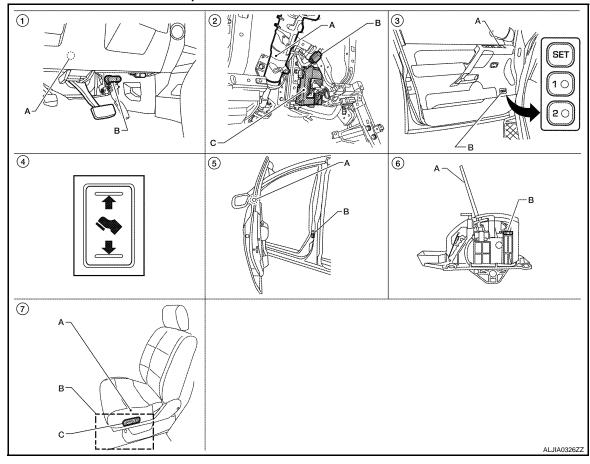
MEMORY FUNCTION: Component Parts Location

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- A. Automatic drive positioner control 2. unit M33, M34
 - B. Pedal adjusting motor assembly E109, E110
- Pedal adjusting switch M96
- A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
 - B. Driver seat control unit B202, B203
 - C. Power seat switch LH B208

- A. Steering column
 - B. Key switch and key lock solenoid
 - C. BCM M18, M19, M20 (view with instrument panel removed)
- A. Door mirrror LH D4, RH D107
 - B. Front door switch LH B8
 - C. Front door lock assembly LH (key cylinder switch) D14
- A. Door mirror remote control switch
 - B. Seat memory switch D5
- A. A/T selector lever
 - B. A/T device (park position switch) M203

MEMORY FUNCTION: Component Description

CONTROL UNITS

Item **Function** • The address of each part is recorded. Operates each motor of seat to the registered position. Driver seat control unit Requests the operations of pedal assembly and door mirror to automatic drive positioner control unit. Operates the pedal adjusting motor and door mirror with the instructions from the Automatic drive positioner control unit driver seat control.

INPUT PARTS

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< 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.

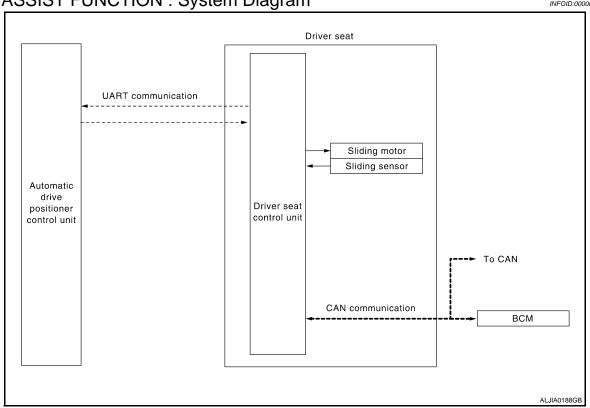
OUTPUT PARTS

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

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION: System Diagram

INFOID:0000000003709338



< FUNCTION DIAGNOSIS >

EXIT ASSIST FUNCTION: System Description

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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 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.

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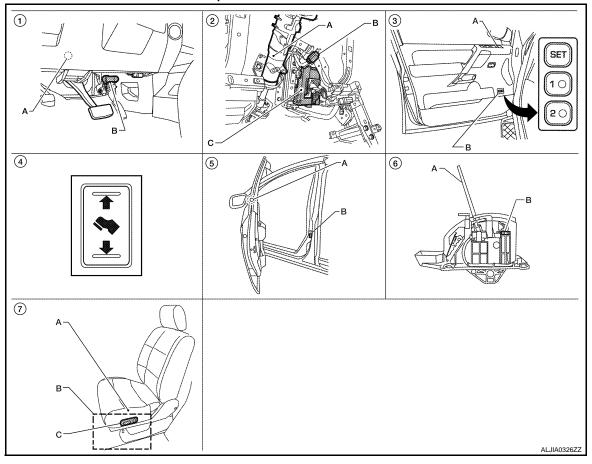
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< FUNCTION DIAGNOSIS >

EXIT ASSIST FUNCTION: Component Parts Location

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- A. Automatic drive positioner control 2. unit M33, M34

 P. Rodal adjusting meter assembly.
 - B. Pedal adjusting motor assembly E109, E110
- 4. Pedal adjusting switch M96
- A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor
 - B. Driver seat control unit B202, B203
 - C. Power seat switch LH B208

- . A. Steering column
 - B. Key switch and key lock solenoid M27
 - C. BCM M18, M19, M20 (view with instrument panel removed)
- 5. A. Door mirrror LH D4, RH D107
 - B. Front door switch LH B8
 - C. Front door lock assembly LH (key cylinder switch) D14
- A. Door mirror remote control switch D10
 - B. Seat memory switch D5
- A. A/T selector lever
 B. A/T device (park position switch)
 M203

EXIT ASSIST FUNCTION: Component Description

INFOID:0000000003709341

CONTROL UNITS

(rear) B207

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

INPUT PARTS

Switches

< FUNCTION DIAGNOSIS >

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

Sensors

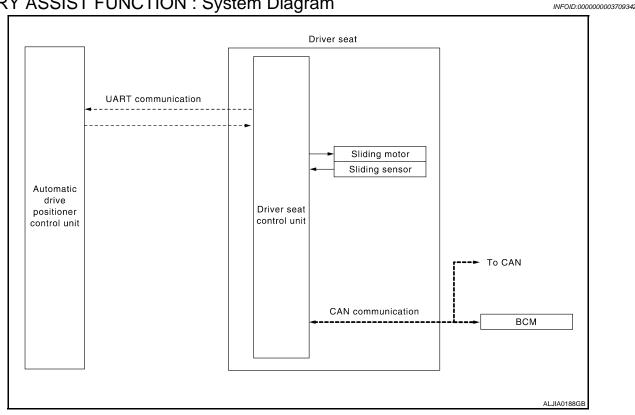
Item	Function
Sliding sensor	Detect the front/rear position of seat.

OUTPUT PARTS

Item	Function
Sliding motor	Slide the seat forward/backward.

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION: System Diagram



ENTRY ASSIST FUNCTION: System Description

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.

NOTĚ:

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

OPERATION PROCEDURE

- A: Turn the ignition switch ON.
 - B: Turn the ignition switch from OFF to ACC after closing the driver door.
- 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.

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< FUNCTION DIAGNOSIS >

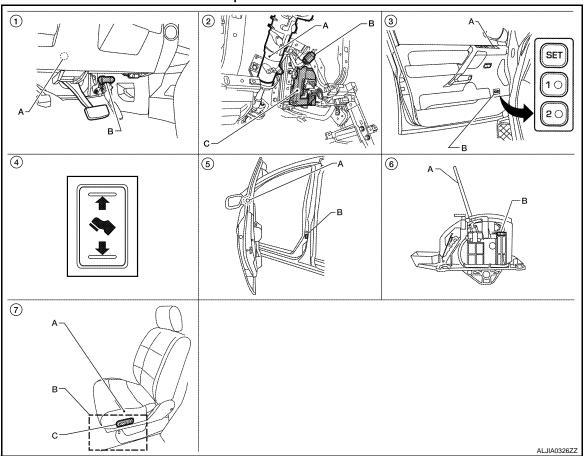
Item	Request status
Seat	The vehicle is not moved after performing the exit assist function.
Switch inputs Power seat switch Pedal adjusting switch Door mirror control switch Set switch Memory switch	OFF (Not operated)
A/T selector lever	P position

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:0000000004040197



< FUNCTION DIAGNOSIS >

- A. Automatic drive positioner control 2. unit M33, M34
 - B. Pedal adjusting motor assembly E109, E110
- 4. Pedal adjusting switch M96
- A. Steering column
 B. Key switch and key lock solenoid
 M27
 - C. BCM M18, M19, M20 (view with instrument panel removed)
- 5. A. Door mirrror LH D4, RH D107 B. Front door switch LH B8
 - C. Front door lock assembly LH (key cylinder switch) D14
- A. Door mirror remote control switch D10
 - B. Seat memory switch D5
- 6. A. A/T selector lever
 - B. A/T device (park position switch) M203

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 A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207

B. Driver seat control unit B202, B203

C. Power seat switch LH B208

ENTRY ASSIST FUNCTION: Component Description

INFOID:0000000003709345

CONTROL UNITS

Item	Function
Driver seat control unit	According to the ignition signal and front door switch LH signal from BCM, 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 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.

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:0000000003709346

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:0000000003709347

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-116</u>, "DTC <u>Index"</u>.

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.

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

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< 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	"√"	-	×	Voltage input from door mirror sensor (passenger side) up/down is displayed.
MIR/SEN RH R-L	"√"	-	×	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	"√"	-	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
PEDAL SEN	"√"	-	×	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
		40 mm
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	80 mm
		150 mm
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON
EXIT SEAT SLIDE SETTING	ON (operated) – OFF (not operated)	OFF

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000003709348 B

Refer to LAN-4, "System Description".

DTC Logic

DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC detecting condition	Possible cause
U1000	CAN COMM CIR- CUIT	 Driver seat control unit cannot communicate to other control units. Driver seat control unit cannot communicate for more than the specified time. 	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 LAN-14, "Trouble Diagnosis Procedure".

NO >> Inspection End.

Special Repair Requirement

Refer to Owner's Manual.

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B2112 SLIDING MOTOR

< COMPONENT DIAGNOSIS >

B2112 SLIDING MOTOR

Description

- The seat sliding motor is installed to the power 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

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.	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 <u>ADP-30. "Diagnosis Procedure"</u>.

NO >> Inspection End.

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003709354

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-37, "Intermittent Incident".

$oldsymbol{2}$. CHECK COMPONENTS

Refer to ADP-68, "Component Function Check" and ADP-82, "Component Function Check".

>> Inspection End.

B2113 RECLINING MOTOR < COMPONENT DIAGNOSIS > **B2113 RECLINING MOTOR** Α Description INFOID:0000000003709355 The seat reclining motor is installed to the seatback assembly. В 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:0000000003709356 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of re-Е B2113 SEAT RECLINING clining motor output terminal for 0.1 second or more Driver seat control unit even if the reclining switch is not input. DTC CONFIRMATION PROCEDURE F 1. STEP 1 Turn ignition switch ON. >> GO TO 2 2.STEP 2 Н Check "Self diagnostic result" with CONSULT-III. Is the DTC detected? YES >> Perform diagnosis procedure. Refer to <u>ADP-31, "Diagnosis Procedure"</u>. NO >> Inspection End. NOTE: ADP First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-38, "Diagnosis Procedure". Diagnosis Procedure INFOID:0000000003709357 K PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT-III. Erase the DTC. Perform DTC confirmation procedure. Refer to ADP-31, "DTC Logic". Is the DTC displayed again? M YES >> GO TO 2 NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

Refer to ADP-70, "Component Function Check" and ADP-84, "Component Function Check".

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2. CHECK COMPONENTS

>> Inspection End.

B2114 SEAT LIFTER FR

< COMPONENT DIAGNOSIS >

B2114 SEAT LIFTER FR

Description

- The lifting motor (front) is installed to the power 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

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.	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 <u>ADP-32, "Diagnosis Procedure"</u>.

NO >> Inspection End.

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003709360

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-37, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-72, "Component Function Check" and ADP-86, "Component Function Check".

>> Inspection End.

B2115 SEAT LIFTER RR < COMPONENT DIAGNOSIS > **B2115 SEAT LIFTER RR** Α Description INFOID:0000000003709361 The lifting motor (rear) is installed to the power seat frame assembly. В 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:0000000003709362 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of lift-Е B2115 SEAT LIFTER RR ing motor (rear) output terminal for 0.1 second or · Driver seat control unit more even if the lifting switch is not input. DTC CONFIRMATION PROCEDURE F 1. STEP 1 Turn ignition switch ON. >> GO TO 2 $\mathbf{2}$. STEP 2 Н Check "Self diagnostic result" with CONSULT-III. Is the DTC detected? YES >> Perform diagnosis procedure. Refer to ADP-33, "Diagnosis Procedure". NO >> Inspection End. NOTE: First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-38, "Diagnosis Procedure". Diagnosis Procedure INFOID:0000000003709363

- Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT-III.
- Erase the DTC.
- Perform DTC confirmation procedure. Refer to ADP-33, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-74, "Component Function Check" and ADP-88, "Component Function Check".

>> Inspection End.

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B2117 ADJ PEDAL MOTOR

Description INFOID:0000000003709364

- 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

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2117	ADJ PEDAL MOTOR	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".	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-34, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000003709366

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

- Turn ignition switch ON.
- 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 assembly circuit is OK.

NO >> GO TO 3

B2117 ADJ PEDAL MOTOR

< COMPONENT DIAGNOSIS >

3. CHECK PEDAL ADJUSTING MOTOR ASSEMBLY CIRCUIT HARNESS CONTINUITY

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

37 - 1 : Continuity should exist.45 - 2 : Continuity should exist.

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

37 - Ground : Continuity should not exist.45 - Ground : Continuity should not exist.

Is the inspection result normal?

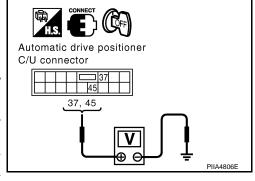
YES >> GO TO 4

NO >> Repair or replace harness.

f 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.

Connec- Termin		inals	Condition	Voltage (V)
tor	(+)	(-)	Condition	(Approx.)
	37		Pedal adjusting switch ON (FORWARD operation)	Battery voltage
M34		Ground	Other than above	0
IVIO 4	45	Ground	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 ADP-157, "Removal and Installation".

NO >> GO TO 5

5. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-154, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

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B2120 ADJ PEDAL SENSOR

< COMPONENT DIAGNOSIS >

B2120 ADJ PEDAL SENSOR

Description INFOID:000000003709367

- 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 adjusting motor 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

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.	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-36, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000003709369

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 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 PE	Pedal position	Forward	0.5V
	r edai position	Backward	4.5V

Is the value normal?

YES >> Pedal adjusting circuit is OK.

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING MOTOR ASSEMBLY CIRCUIT HARNESS CONTINUITY

B2120 ADJ PEDAL SENSOR

< COMPONENT DIAGNOSIS >

- 1. Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
- Check continuity between automatic drive positioner connector M33 (A) terminal 8, M34 (C) terminals 33 and 41 and pedal adjusting motor assembly connector E110 (B) terminals 3, 4, 5.

8 - 4 : Continuity should exist. 33 - 3 : Continuity should exist. 41 - 5 : Continuity should exist.

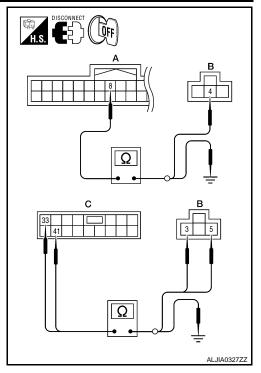
 Check continuity between automatic drive positioner control unit connector M33 (A) terminal 8, M34 (C) terminals 33 and 41 and ground.

8 - Ground : Continuity should not exist.
33 - Ground : Continuity should not exist.
41 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> Replace pedal adjusting motor assembly. Refer to <u>ADP-157</u>, "Removal and Installation".

NO >> Repair or replace harness.



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B2126 DETENT SW

Description INFOID:000000003709370

- 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

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.	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-38, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000003709372

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

- 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	Col	Status	
DETENT SW	A/T selector lever	P position	OFF
	A) I Selector level	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.
- Check continuity between A/T device connector M203 terminal 6 and driver seat control unit connector B202 terminal 21.

6 - 21

: Continuity should exist.

4. Check continuity between A/T device connector M203 terminal 6 and ground.

6 - 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
5	6	P position	Yes
	U	Other than P position	No

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace A/T device. Refer to <u>TM-203</u>, "Control <u>Device</u> Removal and Installation".

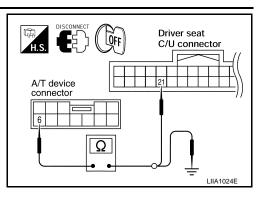
5. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-154, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.



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B2128 UART COMMUNICATION LINE

< COMPONENT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description INFOID:000000003709373

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:000000003709374

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.	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-40, "Diagnosis Procedure".

NO >> Inspection End.

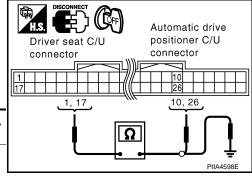
Diagnosis Procedure

INFOID:0000000003709375

1. CHECK UART COMMUNICATION LINE CONTINUITY

- Turn ignition switch OFF.
- Disconnect driver seat control unit and automatic drive positioner control unit.
- 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
D202	17	IVIOO	26	162



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

B2128 UART COMMUNICATION LINE

< COMPONENT DIAGNOSIS >

Driver seat control unit con- nector	Terminal	0	Continuity
B202	1	Ground	No
D202	17		NO

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Is the inspection result normal?

>> Repair or replace harness.

NO

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000004040199

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	Pattory power cupply	22 (15A)	
70	Battery power supply	F (50A)	
11	Ignition ACC or ON	4 (10A)	
38	Ignition ON or START	59 (10A)	

Is the fuse blown?

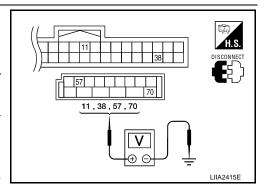
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

Connector	Terminals		Power	Condition	Voltage (V) (Ap-	
Connector	(+)	(-)	source	Condition	prox.)	
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	
IVIZU	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

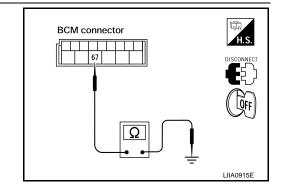
Check continuity between BCM harness connector and ground.

В	СМ		Continuity
Connector	Connector Terminal		Continuity
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

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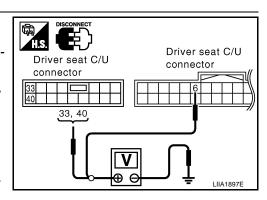
NOTE:

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

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

•		Terminals					
-	(+)			Power		Voltage (V)	
-	Driver seat control unit connector	Terminal	(–)	source	Condition	(Approx.)	
_	B202	6	Ground	START power sup- ply	Ignition switch START	Battery	
	D 000	33	Giodila	Battery	Ignition	voltage	
	B203	40		power sup- ply	switch OFF		



Is the inspection result normal?

YES >> GO TO 2

NO

- >> Check the following.
 - · Repair or replace harness.
 - · Circuit breaker.

2. CHECK GROUND CIRCUIT

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

Driver seat control unit connector	Terminal		Continuity
B202	32	Ground	Yes
B203	48		162

Driver seat C/U connector Driver seat C/U connector Driver seat C/U connector Driver seat C/U connector

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

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

NOTE

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

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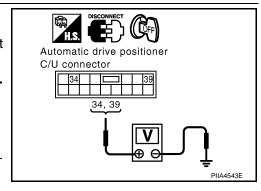
POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

1. CHECK POWER SUPPLY CIRCUIT

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

Te			
(+)	Voltage (V)		
Automatic drive positioner control unit connector	(-)	(Approx.)	
M34	34	Ground	Battery voltage
	39	Giodila	Battery voltage



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK GROUND CIRCUIT

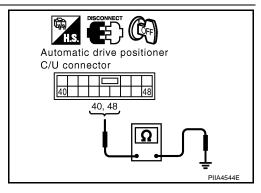
Check continuity between the automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal		Continuity	
M34	40	Ground	Yes	
IVI34	48		res	

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:0000000003709381

1. PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

SLIDING SWITCH

Description

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

Component Function Check

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	Condition	
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
SLIDE SW-FR	Silding Switch (lorward)	Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
OLIDE OW-NN	Silding Switch (Dackward)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-45, "Diagnosis Procedure"</u>.

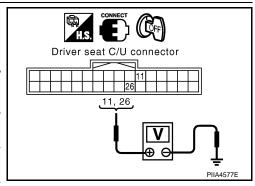
Diagnosis Procedure

1. CHECK SLIDING SWITCH SIGNAL

1. Turn ignition switch OFF.

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

Driver seat control unit connector	Termi	nals (-)	Condition		Voltage (V) (Approx.)
	11			Operate (backward)	0
R202	R202 Ground Slic	0	Sliding	Release	Battery voltage
BZUZ		switch	Operate (forward)	0	
				Release	Battery voltage



Is the inspection result normal?

YES >> GO TO 5

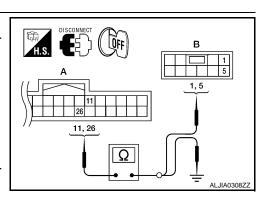
NO >> GO TO 2

2. CHECK SLIDING SWITCH CIRCUIT

- 1. Disconnect driver seat control unit and power seat switch LH.
- 2. 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
B202 (A)	26	B200 (B)	5	163

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



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< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal	0	Continuity
D000 (A)	11	Ground	No
B202 (A)	26		No

Is the inspection result normal?

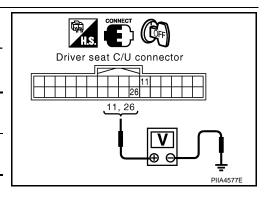
YES >> GO TO 3

NO >> Repair or replace harness.

${f 3.}$ 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	Term	Voltage (V)	
connector	(+)	(-)	(Approx.)
B202	11	Ground	Battery voltage
D202	26	Giouna	Dattery Voltage



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK SLIDING SWITCH

Refer to ADP-46, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH. Refer to <u>SE-74</u>, "<u>Disassembly and Assembly</u>".

CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-153, "Removal and Installation"</u>.

NO >> Repair or replace malfunctioning part.

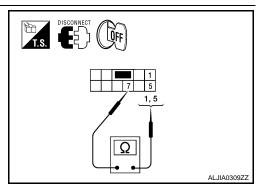
Component Inspection

INFOID:0000000003709385

1. CHECK SLIDING SWITCH

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

Ter	minal	- Condition		Continuity
Power sea	at switch LH			Continuity
	1	Sliding switch (backward)	Operate	Yes
7	'	Silding Switch (backward)	Release	No
,	5	Sliding switch (forward)	Operate	Yes
	5	Siluling Switch (lorward)	Release	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>SE-74, "Disassembly and Assembly"</u>.

RECLINING SWITCH

< COMPONENT DIAGNOSIS >

RECLINING SWITCH

Description

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

Component Function Check

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	Condition	
RECLN SW-FR	Reclining switch (forward)	Operate	ON
RECEIN OW-I IX	Reciling Switch (lorward)	Release	OFF
RECLN SW-RR	Reclining switch (backward)	Operate	ON
RECLIN SW-RR	Reclining Switch (backward)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-47</u>, "<u>Diagnosis Procedure</u>".

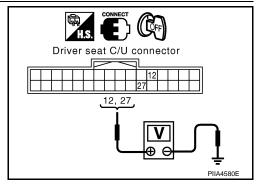
Diagnosis Procedure

1. CHECK RECLINING SWITCH SIGNAL

1. Turn ignition switch OFF.

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

Driver seat	Tern	ninals	Condition		Voltage (V)			
control unit connector	(+)	(-)			(Approx.)			
	12	Ground	Ground	Ground		Operate (backward)	0	
B202	Ground 27				Ground	Reclining	Release	Battery voltage
B202						0.04.14	switch	Operate (forward)
				Release	Battery voltage			



Is the inspection result normal?

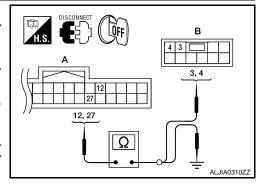
YES >> GO TO 5 NO >> GO TO 2

2. CHECK RECLINING SWITCH CIRCUIT

- 1. Disconnect driver seat control unit and power seat switch LH.
- 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
D202 (A)	27	В200 (В)	4	165

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



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< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal	0	Continuity
B202 (A)	12	Ground	No
B202 (A)	27	1	

Is the inspection result normal?

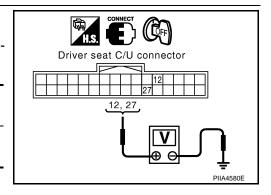
YES >> GO TO 3

NO >> Repair or replace harness.

${f 3.}$ CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

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



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK RECLINING SWITCH

Refer to ADP-48, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH. Refer to SE-74, "Disassembly and Assembly".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

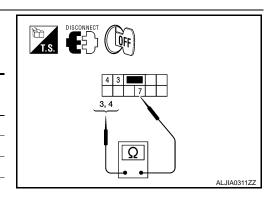
Component Inspection

INFOID:0000000003709389

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 sea	at switch LH	Condi	iion	Continuity	
	3	Reclining switch	Operate	Yes	
7	3	(backward)	Release	No	
,	4	Reclining switch	Operate	Yes	
	7	(forward)	Release	No	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>SE-74, "Disassembly and Assembly"</u>.

LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description

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

Component Function Check

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
LIFT FR 3W-OF	Litting Switch Horit (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
LIFT FR SW-DIN	Litting switch from (down)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-49</u>, "<u>Diagnosis Procedure</u>".

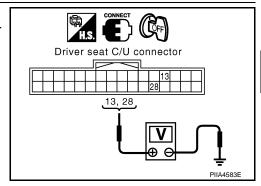
Diagnosis Procedure

1. CHECK LIFTING SWITCH SIGNAL

1. Turn ignition switch OFF.

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

Driver seat	Terminals		O a maliti a m		Voltage (V)
control unit connector	(+)	(-)	Condition		(Approx.)
	13			Operate (down)	0V
B202	15	Ground	Lifting switch	Release	Battery voltage
	28		(front)	Operate (up)	0V
				Release	Battery voltage



Is the inspection result normal?

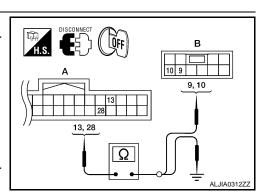
YES >> GO TO 5 NO >> GO TO 2

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

- 1. Disconnect driver seat control unit and power seat switch LH.
- 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
D202 (A)	28	D200 (D)	10	163

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



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LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal	0 1	Continuity
B202 (A)	13	Ground	No
	28	-	NO

Is the inspection result normal?

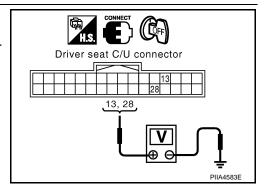
YES >> GO TO 3

NO >> Repair or replace harness.

${f 3.}$ CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit	Term	Voltage (V)	
connector	(+)	(-)	(Approx.)
B202	13	Ground	Battery voltage
B202	28	Giodila	Ballery Vollage



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK LIFTING SWITCH (FRONT)

Refer to ADP-50, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH. Refer to <u>SE-74. "Disassembly and Assembly"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-153, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

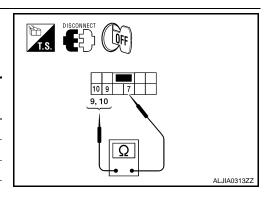
Component Inspection

INFOID:0000000003709393

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 sea	at switch LH	Condition		Continuity
	9	Lifting switch front (down)	Operate	Yes
7		Litting Switch Horit (down)	Release	No
,	10	Lifting switch front (up)	Operate	Yes
	10	Litting Switch Horit (up)	Release	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to SE-74, "Disassembly and Assembly".

LIFTING SWITCH (REAR)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description

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

Component Function Check

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
LIFT KK SW-OF	Litting Switch real (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
LIFT NA SW-DIN	Litting Switch real (down)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-51, "Diagnosis Procedure"</u>.

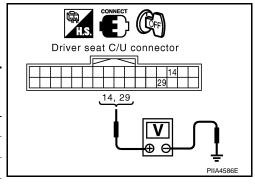
Diagnosis Procedure

1. CHECK LIFTING SWITCH (REAR) SIGNAL

1. Turn ignition switch OFF.

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

Driver seat	Term	ninals	Condition		Voltage (V)
control unit connector	(+)	(-)			(Approx.)
	14 Ground			Operate (down)	0
B202		Ground	Lifting switch	Release	Battery voltage
D202		29		(rear)	Operate (up)
	29	, ,		Release	Battery voltage



Is the inspection result normal?

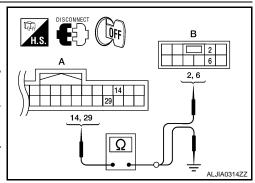
YES >> GO TO 5 NO >> GO TO 2

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

- 1. Disconnect driver seat control unit and power seat switch LH.
- Check continuity between driver seat control unit harness connector and power seat switch LH harness connector.

Driver seat control unit connector	Terminal	Power sear switch LH connector	Terminal	Continuity
B202 (A)	14	B208 (B)	2	Yes
B202 (A)	29	D200 (B)	6	165

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



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< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal	0	Continuity	
B202 (A)	14	Ground	No	
B202 (A)	29		NO	

Is the inspection result normal?

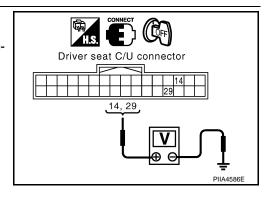
YES >> GO TO 3

NO >> Repair or replace harness.

${f 3.}$ CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit	Ter	minals	Voltage (V)	
connector	(+)	(–)	(Approx.)	
B202	14	Ground	Battery voltage	
D202	29	Ground	Battery voltage	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK LIFTING SWITCH (REAR)

Refer to ADP-52, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH. Refer to <u>SE-74. "Disassembly and Assembly"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-153, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

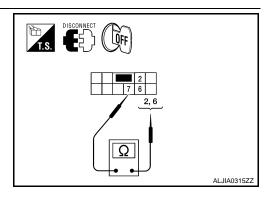
Component Inspection

INFOID:0000000003709397

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.

Terr	minal	Condition		Continuity
Power seat switch LH		Condition		Continuity
	2	Lifting switch rear (down)	Operate	Yes
7	2	Litting Switch real (down)	Release	No
,	6	Lifting switch rear (up)	Operate	Yes
0	Litting Switch rear (up)	Release	No	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to SE-74, "Disassembly and Assembly".

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SWITCH

Description

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

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	Podal adjusting switch (fanyard)	Operate	ON
PEDAL SW-FR	Pedal adjusting switch (forward)	Release	OFF
PEDAL SW-RR	Pedal adjusting switch (backward)	Operate	ON
	redai adjusting switch (backward)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to ADP-53, "Diagnosis Procedure".

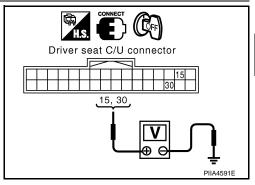
Diagnosis Procedure

1. CHECK PEDAL ADJUSTING SWITCH SIGNAL

1. Turn ignition switch OFF.

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

Driver seat	Terminals		0 - 177		Voltage (V)	
control unit connector	(+)	(-)	Condition		(Approx.)	
	15			Operate (forward)	0	
B202	13	Ground	Pedal ad- justing	Release	Battery voltage	
D202	30	Ground	switch	Operate (backward)	0	
	30			Release	Battery voltage	



Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT

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PEDAL ADJUSTING SWITCH

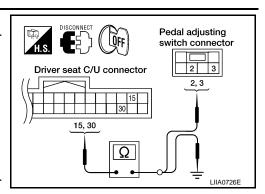
< COMPONENT DIAGNOSIS >

- 1. Disconnect driver seat control unit and pedal adjusting switch.
- 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
B202	30	10190	3	165

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

B202 15 Ground No	Driver seat control unit connector	Terminal	_	Continuity
	B202	15	Ground	No
		30		NO



Is the inspection result normal?

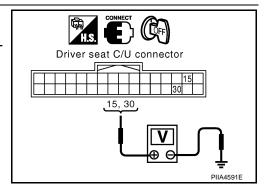
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit	Terminals		Voltage (V)	
connector	(+)	(–)	(Approx.)	
B202	15	Ground	Battery voltage	
D202	30	Giodila	Ballery Vollage	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK PEDAL ADJUSTING SWITCH

Refer to ADP-55, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace pedal adjusting switch. Refer to <u>IP-10, "Exploded View"</u>.

$oldsymbol{5}$. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

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

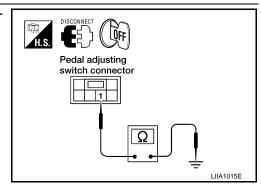
1 - Ground

: Continuity should exist.

Is the inspection result normal?

YES >> GO TO 6

NO >> Repair or replace harness.



6. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-154, "Removal and Installation"</u>.

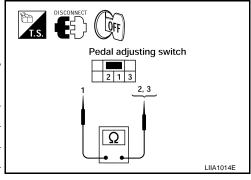
NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK PEDAL ADJUSTING SWITCH

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

Ter	minal	Condition		Continuity
Pedal adjusting switch		Condition		Continuity
	2	Pedal adjusting switch	Operate	Yes
1	(forward)	Release	No	
'	Pedal adjusting	Pedal adjusting switch	Operate	Yes
3	3	(backward)	Release	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace pedal adjusting switch. Refer to IP-10, "Exploded View".

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SEAT MEMORY SWITCH

Description INFOID:000000003709402

The seat memory switch is installed on 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:0000000003709403

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
	Memory Switch 1	Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
		Release	OFF
SET SW	Set switch	Push	ON
	Set Switch	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to ADP-56. "Diagnosis Procedure".

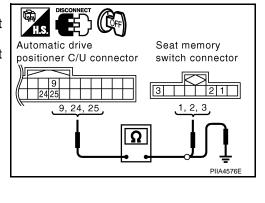
Diagnosis Procedure

INFOID:0000000003709404

1. CHECK MEMORY SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 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
	9		1	
M33	24	D5	3	Yes
	25		2	



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

Automatic drive positioner control unit connector	Terminal		Continuity
	9	Ground	
M33	24		No
	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

Seat memory switch connector

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK SEAT MEMORY SWITCH

Refer to ADP-57, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace seat memory switch. Refer to ADP-155, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

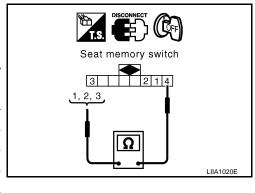
NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK SEAT MEMORY SWITCH

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

Term		Condition		Continuity	
Seat memory switch					
	1	Memory switch 1	Push	Yes	
	i Wemory switch	Welliory Switch	Release	No	
3	2	Memory switch 2	Push	Yes	
	2		Release	No	
	2	Set switch	Push	Yes	
	3		Release	No	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace seat memory switch. Refer to ADP-155, "Removal and Installation".

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DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

CHANGEOVER SWITCH: Description

INFOID:0000000003709406

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:0000000003709407

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-26, "CONSULT-III Function".

Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to ADP-58, "CHANGEOVER SWITCH: Diagnosis Procedure".

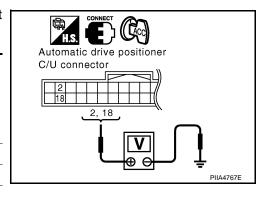
CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000003709408

1. CHECK CHANGEOVER SWITCH SIGNAL

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

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



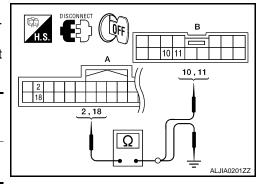
Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 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 re- mote control switch connector	Terminal	Continuity
M33 (A) 2 D10 (B)		D10 (B)	11	Yes
M33 (A)	18	D10 (B)	10	165



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

< COMPONENT DIAGNOSIS >

Automatic drive positioner control unit connector	Terminal	01	Continuity
M33 (A)	2	Ground	No
MOS (A)	18		INO

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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
D10	7		Yes

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Is the inspection result normal?

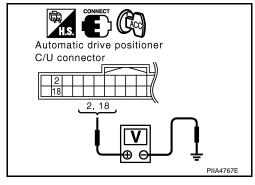
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

Termi				
(+)			Voltage (V)	
Automatic drive positioner control unit connector		(-)	(Approx.)	
M33	2	Ground	5	
IVIOO	18	Giouna	3	



Is the inspection result normal?

YES >> GO TO 5.

>> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation". NO

5. CHECK CHANGEOVER SWITCH

Check changeover switch.

Refer to ADP-59, "CHANGEOVER SWITCH: Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-37, "Intermittent Incident".

NO >> Replace door mirror remote control switch. Refer to ADP-156, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

NO >> Repair or replace the malfunctioning parts.

CHANGEOVER SWITCH: Component Inspection

INFOID:0000000003709409

1. CHECK CHANGEOVER SWITCH

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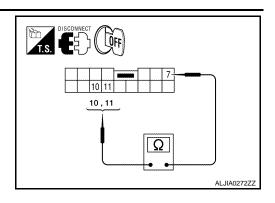
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< COMPONENT DIAGNOSIS >

Check door mirror remote control switch.

Terminal		Change over switch	Continuity	
Door mirror remote	control switch	condition	Continuity	
10	7	LEFT	Yes	
11		Other than above	No	
		RIGHT	Yes	
		Other than above	No	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to ADP-156, "Removal and Installation".

MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000003709410

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:0000000003709411

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-26, "CONSULT-III Function".

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to ADP-60, "MIRROR SWITCH: Diagnosis Procedure".

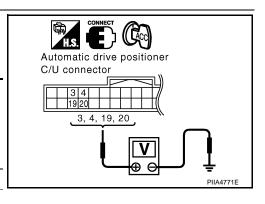
MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000003709412

1. CHECK MIRROR SWITCH FUNCTION

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

Terminals				
(+)	(+)		Mirror switch	Voltage (V)
Automatic drive positioner control unit connector	Terminal	(–)	Condition	(Approx.)
	3		UP	0
	3	•	Other than above	5
	4		LEFT	0
M33	4	Ground	Other than above	5
IVISS	19	Giodila	DOWN	0
	19		Other than above	5
	00		RIGHT	0
	20		Other than above	5



Is the inspection result normal?

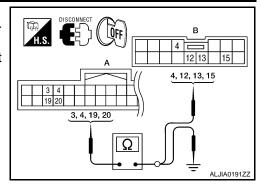
YES >> GO TO 6 NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

< 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 (A)	3		15		
	4	D10 (B)	13	Yes	
	19		12	res	
	20		4		



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

Automatic drive positioner control unit connector	Terminal		Continuity
M33 (A)	3		
	4	Ground	No
	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
D10	7		Yes

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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.
- Turn ignition switch to ACC.
- 3. Check voltage between automatic drive positioner control unit and ground.

Te			
(+)		Voltage (V) (Approx.)	
Automatic drive positioner control unit connector	Terminal	Terminal (-)	
	3		
M33	4	Cround	5
IVISS	19	Ground	
	20		



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Is the inspection result normal?

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YES >> GO TO 5

NO >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

5. CHECK MIRROR SWITCH

Check mirror switch.

Refer to ADP-62, "MIRROR SWITCH: Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-37, "Intermittent Incident".

NO >> Replace door mirror remote control switch. Refer to ADP-156, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

NO >> Repair or replace the malfunctioning parts.

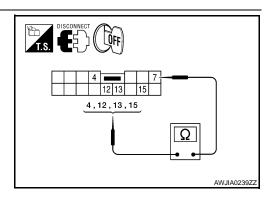
MIRROR SWITCH: Component Inspection

INFOID:0000000003709413

1. CHECK MIRROR SWITCH

Check door mirror remote control switch.

Terminal Door mirror remote control switch		Mirror switch condition	Continuity
4		RIGHT	Yes
		Other than above	No
13		LEFT	Yes
	7	Other than above	No
15		UP	Yes
		Other than above	No
12		DOWN	Yes
12		Other than above	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to ADP-156, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

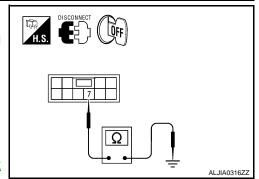
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch LH.
- 3. Check continuity between power seat switch LH connector and ground.

Power seat switch LH connector	Terminal	Ground	Continuity
B208	7		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-37</u>, "<u>Intermittent Incident"</u>.

NO >> Repair or replace harness.



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DETENTION SWITCH

Description INFOID:0000000003709415

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:0000000003709416

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	
		P position	OFF
DETENT SW	A/T selector lever	Other than above	ON

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-64, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000003709417

1. CHECK DTC WITH "BCM"

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

Is any other DTC detected?

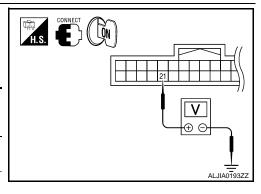
YES >> Check the DTC.

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	Terr	minal	Condition		Voltage (V)
control unit connector	(+)	(-)			(Approx.)
B202	3202 21 Ground	B202 21 Ground A/T selector lever	A/T selec-	P position	Battery volt- age
D202			Ground	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 (A) and A/T device harness connector (B).

А		В	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B202	21	M203	6	Yes

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

H.S. DISCONNECT OFF	
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Α			Continuity	
Connector	Connector Terminal		Continuity	
B202	B202 21		No	

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-153</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

FRONT DOOR SWITCH (DRIVER SIDE)

Description

Detects front door LH open/close condition.

Component Function Check

INFOID:0000000003709419

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	Con	Status	
DOOR SW-DR	Front door switch LH	Open	ON
DOOK GW-DK	1 TOTAL GOOF SWILCH LIT	Close	OFF

Is the inspection result normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-66, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000003709420

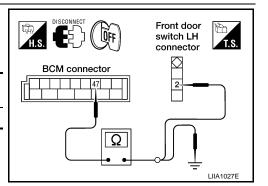
1. CHECK FRONT DOOR SWITCH LH CIRCUIT

- 1. Disconnect BCM and front door switch LH.
- 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	Glodila	No



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

$2.\,$ CHECK FRONT DOOR SWITCH LH

Refer to ADP-66, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace front door switch LH.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-56. "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000003709421

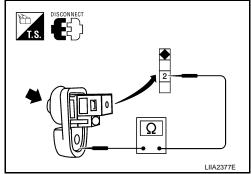
1. CHECK FRONT DOOR SWITCH LH

FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

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

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



Is the inspection result normal?

YES

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

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SLIDING SENSOR

Description

- The sliding sensor is installed to the power 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:0000000003709423

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-68</u>, "<u>Diagnosis Procedure</u>".

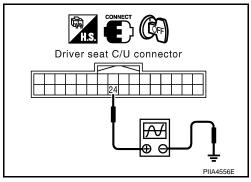
Diagnosis Procedure

INFOID:0000000003709424

1. CHECK SLIDING SENSOR SIGNAL

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

	Terminals						
(+)							
Driver's seat control unit	Termi- nal	(–)	Condition		(–) Condition Vol		Voltage signal
B202	24	Ground	Seat sliding	Operate	(V) 6 4 2 0 50 ms		
				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. Disconnect driver seat control unit and sliding motor LH.
- 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
	16		3	
B202 (A)	24	B204 (B)	4	Yes
	31		2	

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16, 24, 31

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

Driver seat control unit connector	Terminal		Continuity	
	16	Ground		
B202 (A)	24		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 sliding motor LH.
- 2. Check seat operation (except sliding operation) with memory function.

Is the inspection result normal?

- YES >> Replace sliding motor LH. (Built in power seat frame assembly). Refer to <u>SE-74, "Disassembly and Assembly"</u>.
- NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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RECLINING SENSOR

Description

- The reclining motor is installed to the seatback 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:0000000003709426

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	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 <u>ADP-70, "Diagnosis Procedure"</u>.

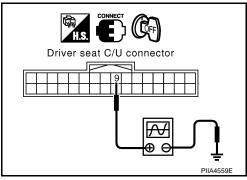
Diagnosis Procedure

INFOID:0000000003709427

1. CHECK RECLINING SENSOR SIGNAL

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

Terminals						
(+)			0	100	Voltage signal	
Driver seat con- trol unit	Termi- nal	(-)	Condition			
B202	9	Ground	Seat reclin- ing	Operate	(V) 6 4 2 0 + 50ms SIIA0692J	
				Other than above	0 or 5	



Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2. CHECK RECLINING SENSOR CIRCUIT

RECLINING SENSOR

< COMPONENT DIAGNOSIS >

- 1. Disconnect driver seat control unit and reclining motor LH.
- 2. 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	B205 (B)	1	Yes	
D202 (A)	31	B203 (B)	4		

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

H.S. DISCONNECT OFF
A 1, 4
9, 31 Ω = ALJIA0318ZZ

Driver seat control unit connector	Terminal		Continuity	
B202 (A)	9	Ground	No	
D202 (A)	31		NO	

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. (Built in power seat frame assembly). Refer to <u>SE-74, "Disassembly and Assembly"</u>.

NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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LIFTING SENSOR (FRONT)

Description

- The lifting sensor (front) is installed to the power 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:0000000003709429

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		Operate (up)	Change (increase)	
	Seat lifting (front)	Operate (down)	Change (decrease)	
		Release	No change	

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-72, "Diagnosis Procedure"</u>.

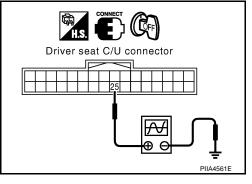
Diagnosis Procedure

INFOID:0000000003709430

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

Terminals (+)					
Driver seat con- trol unit connector	Termi- nal	(–)	Condition		Voltage signal
B202	25	Ground	Seat lifting (front)	Oper- ate	(V) 6 4 2 0 + 50ms SIIA0691J
				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 >

- Disconnect driver seat control unit and lifting motor (front).
- 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
	16		3	
B202 (A)	25	B206 (B)	4	Yes
	31		2	

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

H.S. DISCONNECT OFF
A 2, 3, 4 2, 3, 4 16 25, 31
Ω = ALJIA0319ZZ

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

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

Is the operation normal?

- YES >> Replace lifting motor (front). (Built in power seat frame assembly). Refer to SE-74, "Disassembly and Assembly".
- NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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LIFTING SENSOR (REAR)

Description

- The lifting sensor (rear) is installed to the power 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:0000000003709432

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
		Operate (up)	Change (increase)
LIFT RR PULSE	Seat lifting (rear)	Operate (down)	Change (decrease)
		Release	No change

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-74, "Diagnosis Procedure"</u>.

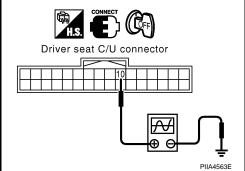
Diagnosis Procedure

INFOID:0000000003709433

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.

Т	erminals						
(+))						
Driver seat con- trol unit connector	Termi- nal	(-)	Condition		(-) Condition Voltage		Voltage signal
B202	10	Ground	Seat lifting (rear)	Oper- ate	(V) 6 4 2 0 ****50ms		
				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 >

- Disconnect driver seat control unit and lifting motor (rear).
- 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
	10		4	
B202 (A)	16	B207 (B)	3	Yes
	31		2	

2, 3, 4 10, 16, 31 Ω ALJIA0320ZZ

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

- 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). (Built in power seat frame assembly). Refer to SE-74, "Disassembly and Assembly".
- NO >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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PEDAL ADJUSTING SENSOR

Description INFOID:0000000003709434

- 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:0000000003709435

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	0.5V
FEDAL GEN	r edai position	Backward	4.5V

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-76, "Diagnosis Procedure"</u>.

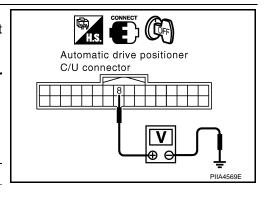
Diagnosis Procedure

INFOID:0000000003709436

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

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

Terminal						
(+)	(+)				Voltage (V)	
Automatic drive position- er control unit	Terminal	(-)	Con	dition	(Approx.)	
Moo	0	0	Pedal as-	Forward	0.5	
M33	8	Ground	Ground sembly position	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

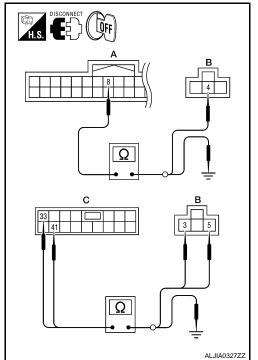
< COMPONENT DIAGNOSIS >

- Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
- 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		4	
M24 (C)	33	E110 (B)	3	Yes
M34 (C)	41		5	

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

Automatic drive positioner control unit connector	Terminal		Continuity
M33 (A)	8	Ground	
M34 (C)	33		No
IVI34 (C)	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 <u>ADP-157, "Removal and Installation"</u>.
- NO >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".
- NO >> Repair or replace the malfunctioning part.

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< COMPONENT DIAGNOSIS >

MIRROR SENSOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000003709437

- 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:0000000003709438

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
	Dana miman III	Close to valley	0.6V
MIR/SEN LH R-L	Door mirror LH	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 <u>ADP-78</u>, "DRIVER SIDE: Diagnosis Procedure".

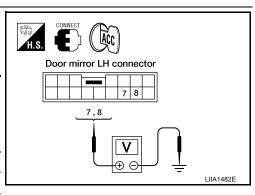
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000003709439

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.)
Door mirror LH connector	Terminal	(–)			
	7 Gro	Ground		Close to peak	3.4
D4			Door mirror	Close to valley	0.6
D4			LH	Close to right edge	3.4
	0			Close to left edge	0.6



Is the inspection result normal?

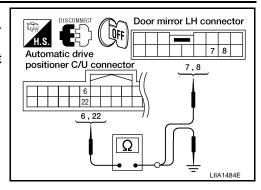
YES >> GO TO 5. NO >> GO TO 2.

2. CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

< COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror LH connector.
- 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	D4	7	Yes
IVISS	22	D4	8	163



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

Automatic drive positioner control unit connector	Terminal	0	Continuity
M33	6	Ground	No
IVIOO	22	INO	INO

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

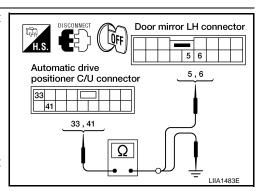
${f 3.}$ CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

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	D4	5	Yes
10134	41	υ 4	6	res

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

Automatic drive positioner control unit connector	Terminal		Continuity
M34	33	Ground	No
IVI3 4	41	-	INO



Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

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

Is the operation normal?

YES >> Replace door mirror actuator LH. Refer to MIR-19, "Door Mirror Assembly".

>> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation". NO

CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

>> Repair or replace the malfunctioning part. NO

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< COMPONENT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000003709440

- 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:0000000003709441

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	Con	Value	
MIR/SEN RH U-D	Close to peak		3.4V
	Door mirror RH	Close to valley	0.6V
MIR/SEN RH R-L	DOOL HIIITOLKH	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 <u>ADP-80, "PASSENGER SIDE : Diagnosis Procedure"</u>.

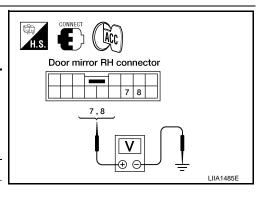
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000003709442

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							
(+)				N 1949	Voltage (V)		
Doormirror RH con- nector	Terminal	(–)	Condition		(Approx.)		
	7			Close to peak	3.4		
D107	,	Ground	Door mirror	Close to valley	0.6		
D101	8 Ground	RH	Close to right edge	3.4			
	8)		Close to left edge	0.6



Is the inspection result normal?

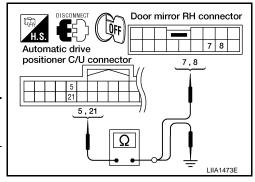
YES >> GO TO 5 NO >> GO TO 2

2. CHECK DOOR MIRROR RH SENSOR HARNESS CONTINUITY

< COMPONENT DIAGNOSIS >

- 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 posi- tioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M33	5	D107	7	Yes
IVIOS	21	D107	8	163



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

Automatic drive positioner control unit connector	Terminal	0	Continuity
M33	5	Ground	No
IVIOO	21		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.check door mirror rh sensor power supply circuit

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	D107	5	Yes
10134	41	טיוטי	6	res

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

Door mirror RH connector H.S. DISCONNECT Door mirror RH connector
Automatic drive
positioner C/U connector
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Automatic drive positioner control unit connector	Terminal		Continuity
M34	33	Ground	No
	41		INU
·			

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

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

Is the operation normal?

YES >> Replace door mirror actuator. Refer to MIR-19, "Door Mirror Assembly".

>> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation". NO

CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

>> Repair or replace the malfunctioning part. NO

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SLIDING MOTOR

Description INFOID:000000003709443

- The sliding motor LH is installed to the power 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:0000000003709444

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-82, "Diagnosis Procedure"</u>.

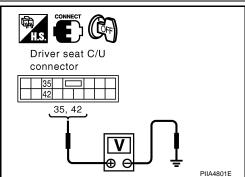
Diagnosis Procedure

INFOID:0000000003709445

1. CHECK SLIDING MOTOR LH POWER SUPPLY

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

	Terminal				
(+)			-	and the second	Voltage (V)
Driver seat control unit connector	Terminal	(-)			(Approx.)
				OFF	0
	35			FR (forward)	Battery voltage
B203		Ground	SEAT	RR (backward)	0
D203		Giodila	SLIDE	OFF	0
	42			FR (forward)	0
				RR (backward)	Battery voltage



Is the inspection result normal?

YES >> Replace sliding motor LH. (Built in power seat frame assembly). Refer to <u>SE-74, "Disassembly and Assembly"</u>.

NO >> GO TO 2

2. CHECK SLIDING MOTOR LH CIRCUIT

SLIDING MOTOR

< COMPONENT DIAGNOSIS >

- 1. Disconnect driver seat control unit and sliding motor LH.
- 2. 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
D200 (A)	42	D204 (D)	1	163

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

	H.S. DISCONNECT OFF
•	A B 1, 5 1, 5 1, 5 1, 5 1, 5 1, 5 1, 5 1,

Driver seat control unit connector	Terminal		Continuity
B303 (A)	35	Ground	No
B203 (A)	42		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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RECLINING MOTOR

Description INFOID:000000003709446

- The reclining motor LH is installed to the seatback assembly.
- 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:0000000003709447

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-84, "Diagnosis Procedure"</u>.

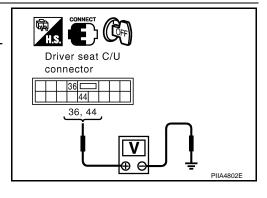
Diagnosis Procedure

INFOID:0000000003709448

1. CHECK RECLINING MOTOR LH POWER SUPPLY

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

	Terminal				
(+	-)		Test Item		Voltage (V) (Approx.)
Driver seat con- trol unit connector	Terminal	(-)			
				OFF	0
	36			FR (forward)	Battery voltage
B203		Ground	SEAT RE-	RR (backward)	0
D203	44 Ground	CLINING	OFF	0	
				FR (forward)	0
			RR (backward)	Battery voltage	



Is the inspection result normal?

YES >> Replace reclining motor LH. (Built in seatback assembly). Refer to <u>SE-74, "Disassembly and Assembly"</u>.

NO >> GO TO 2

$2.\,$ CHECK RECLINING MOTOR LH CIRCUIT

RECLINING MOTOR

< COMPONENT DIAGNOSIS >

- Disconnect driver seat control unit connector and reclining motor
 I H
- 2. 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	B205 (B)	2	Yes
6203 (A)	44	B205 (B)	3	res

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

•	H.S. DISCONNECT OFF
-	A B

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-153</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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< COMPONENT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description INFOID:000000003709449

- The lifting motor (front) is installed to the power 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:0000000003709450

1. CHECK FUNCTION

- Select "SEAT LIFTER FR" in "Active test" mode with CONSULT-III.
- 2. Check the lifting motor (front) operation.

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

Is the operation of relevant parts normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-86, "Diagnosis Procedure"</u>.

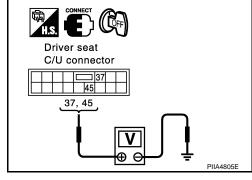
Diagnosis Procedure

INFOID:0000000003709451

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

Terminal					
(+)					Voltage (V)
Driver seat control unit connector	Terminal	(-)	Test Item		(Approx.)
		Ground	Ground SEAT LIFTER FR	OFF	0
	45			UP	0
B203				DWN (down)	Battery voltage
D203				OFF	0
				UP	Battery voltage
				DWN (down)	0
s the increation regult normal?					



Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in power seat frame assembly). Refer to <u>SE-74, "Disassembly and Assembly"</u>.

NO >> GO TO 2

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

- Disconnect driver seat control unit and lifting motor (front) connectors.
- 2. 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
B203 (A)	45	B200 (B)	5	165

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

	H.S. DISCONNECT OFF
-	A B 1 1 5
-	37, 45 Ω 1, 5
	ALJIA0323ZZ

Driver seat control unit connector	Terminal	0 1	Continuity
P202 (A)	37	Ground	No
B203 (A)	45		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-153, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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LIFTING MOTOR (REAR)

Description

- The lifting motor (rear) is installed to the power 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:0000000003709453

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	
	OFF		Stop
SEAT LIFTER RR	UP	Seat lifting (rear)	Upward
	DWN		Downward

Is the operation of relevant parts normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-88, "Diagnosis Procedure"</u>.

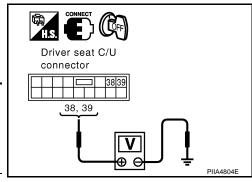
Diagnosis Procedure

INFOID:0000000003709454

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					
(+)			-		Voltage (V)
Driver seat control unit connector	Terminal	(-)	Test Item		(Approx.)
	38 B203 — G	Ground	SEAT LIFTER RR	OFF	0
				UP	Battery voltage
B203				DWN (down)	0
D203		Ground		OFF	0
				UP	0
				DWN (down)	Battery voltage



Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in power seat frame assembly). Refer to <u>SE-74, "Disassembly and Assembly"</u>.

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
B200 (A)	39	D207 (D)	1	163

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

H.S. DISCONNECT OFF
A B 1 5
38, 39 <u>1, 5</u>
ALJIA0324ZZ

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-153, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

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PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING MOTOR

Description INFOID:000000003709455

- 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:0000000003709456

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		
	OFF		Stop	
ADJ PEDAL MOTOR	FR	Pedal adjusting motor	Forward	
	RR		Backward	

Is the operation of relevant parts normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-90, "Diagnosis Procedure"</u>.

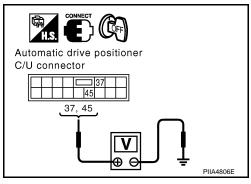
Diagnosis Procedure

INFOID:0000000003709457

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					
(+)		-			Maltana
Automatic drive posi- tioner con- trol unit connector	Terminal	(-)	Test Item		Voltage (V) (Approx.)
	37	Ground	ADJ PED- AL MOTOR	OFF	0
				RR (backward)	0
M34				FR (forward)	Battery voltage
IVIO		Giodila		OFF	0
	45	45		RR (backward)	Battery voltage
				FR (forward)	0



Is the inspection result normal?

YES >> Replace pedal adjusting motor assembly. Refer to ADP-157, "Removal and Installation".

NO >> GO TO 2

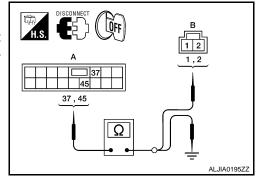
2. CHECK PEDAL ADJUSTING MOTOR CIRCUIT

PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

- Disconnect automatic drive positioner control unit and pedal adjusting motor assembly.
- 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
M34 (A)	37	E109 (B)	1	Yes
WI34 (A)	45	L 109 (B)	2	163



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

Automatic drive positioner control unit connector	Terminal	0	Continuity
M34 (A)	37	Ground	No
1VI34 (A)	45		INU

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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DOOR MIRROR MOTOR

Description INFOID:000000003709458

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:0000000003709459

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-26, "CONSULT-III Function".

Is the inspection result normal?

YES >> Door mirror motor function is OK.

NO >> Refer to ADP-92, "Diagnosis Procedure".

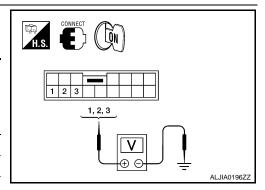
Diagnosis Procedure

INFOID:0000000003709460

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

	Terminals				
(+)	(+)		Door mirror re- mote control	Voltage (V)	
Door mirror connector	Terminal	(-)	switch condition	(Approx.)	
	1		UP	Battery voltage	
	'		Other than above	0	
D4 (LH)	2	Ground	LEFT	Battery voltage	
D107 (RH)	2	Oloulia	Other than above	0	
	3		DOWN / RIGHT	Battery voltage	
	5		Other than above	0	



Is the inspection result normal?

YES >> Refer to ADP-94, "Component Inspection".

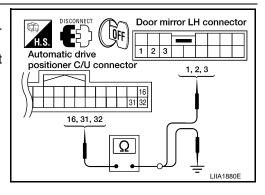
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit 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
	16		3	
M33	31	D4	1	Yes
	32		2	



DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

Door mirror RH				
Automatic drive posi- tioner control unit con- nector	Terminal	Door mirror RH connector	Terminal	Continuity
	14		1	
M33	15	D107	2	Yes
	30		3	

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

Door mirror LH

Automatic drive position- er control unit connector	Terminal		Continuity
	16	Ground	
M33	31		No
	32		
Door mirror RH			
Automatic drive position- er control unit connector	Terminal		Continuity
	14	Ground	
M33	15		No
	30		

Is the inspection result normal?

YES >> GO TO 3

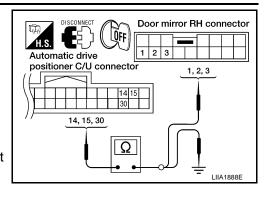
NO >> Repair or replace harness.

 $\bf 3.$ 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	Voltage (V)
Automatic drive positioner control unit connector	Terminal	(-)	condition	(Approx.)
	16		DOWN / RIGHT	Battery voltage
	10		Other than above	0
M33	31	Ground	UP	Battery voltage
IVIOO	31	Giodila	Other than above	0
	32		LEFT	Battery voltage
	32		Other than above	0



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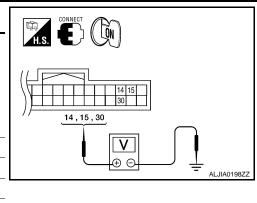
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DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

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



Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic drive positioner control unit. Refer to ADP-154, "Removal and Installation".

4. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-94, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-37, "Intermittent Incident".

NO >> Replace door mirror actuator. Refer to MIR-19, "Door Mirror Assembly".

Component Inspection

INFOID:0000000003709461

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-19, "Door Mirror Assembly".

Is the inspection result normal?

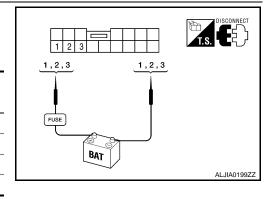
YES >> GO TO 2

NO >> Replace door mirror actuator. Refer to MIR-19, "Door Mirror Assembly".

2. CHECK DOOR MIRROR MOTOR-II

- 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	
Door militor connector	(+)	(-)	Operational direction	
	3	2	RIGHT	
D4 (LH) D107 (RH)	2	3	LEFT	
	1	3	UP	
	3	1	DOWN	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror actuator. Refer to MIR-19, "Door Mirror Assembly".

SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

SEAT MEMORY INDICATOR LAMP

Description

- The seat memory switch is installed on 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

1. CHECK FUNCTION

- 1. Select "MEMORY SW INDCTR" in "Active test" mode with CONSULT-III.
- 2. Check the memory indicator operation.

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

Is the operation of relevant parts normal?

YES >> Inspection End.

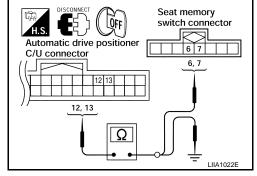
NO >> Perform diagnosis procedure. Refer to <u>ADP-95. "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEAT MEMORY INDICATOR CIRCUIT

- 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
IVIOO	13	Б3	7	165



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

Automatic drive position- er connector	Terminal		Continuity
M33	12	Ground	No
IVI33	13		INO

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

 $2.\,$ CHECK MEMORY INDICATOR POWER SUPPLY

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SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

Check voltage between seat memory switch harness connector and ground.

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

Seat memory switch connector

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-96, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace seat memory switch. Refer to ADP-155, "Removal and Installation".

f 4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-154, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

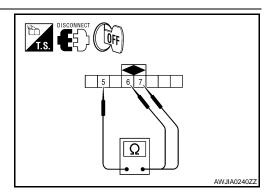
Component Inspection

INFOID:0000000003709465

1. CHECK SEAT MEMORY INDICATOR

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

Terminal			
Seat mem	Continuity		
(+)	(-)		
6	5	Yes	
7	3	163	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace seat memory switch. Refer to ADP-155, "Removal and Installation".

< ECU DIAGNOSIS >

ECU DIAGNOSIS

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Cond	lition	Value/Status
ET SW	Set switch	Push	ON
DET GVV	OCI SWILLII	Release	OFF
AEMODY SWA	Momory quitch 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
AEMODY CWO	Mamany quitab O	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
NIDE OW ED	Cliding quitab (frant)	Operate	ON
SLIDE SW-FR	Sliding switch (front)	Release	OFF
NIDE OW DD	Oliding quitab (room)	Operate	ON
SLIDE SW-RR	Sliding switch (rear)	Release	OFF
DECLIN OW ED	Declining a societale (for set)	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
DECLIN OW DD	Deslining of the Control	Operate	ON
RECLN SW-RR	Reclining switch (rear)	Release	OFF
IET ED OW LID	Lifeting project for the A	Operate	ON
IFT FR SW-UP	Lifting switch front (up)	Release	OFF
IET ED OW DY	176	Operate	ON
IFT FR SW-DN	Lifting switch front (down)	Release	OFF
IET DD OW US	Lifting quitelenes ()	Operate	ON
IFT RR SW-UP	Lifting switch rear (up)	Release	OFF
IET DD OW DV	Lifeting a society of the A	Operate	ON
IFT RR SW-DN	Lifting switch rear (down)	Release	OFF
AID CON CW LID	Mirror owitak	Up	ON
MIR CON SW-UP	Mirror switch	Other than above	OFF
AID CON CW/ DN	Mirror quitab	Down	ON
MIR CON SW-DN	Mirror switch	Other than above	OFF
MIR CON SW-RH	Mirror quitab	Right	ON
IIN CON SW-KH	Mirror switch	Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
TIN CON SVV-LM	IVIIITOI SWILCII	Other than above	OFF
AID CHNC CW B	Changaquar awitch	Right	ON
IIR CHNG SW-R	Changeover switch	Other than above	OFF
MD CHNC CW I	Changaquar awitch	Left	ON
IIR CHNG SW-L	Changeover switch	Other than above	OFF
DEDAL SW.FD	Dodal adjusting switch	Forward	ON
PEDAL SW-FR	Pedal adjusting switch	Other than above	OFF
PEDAL SW-RR	Podal adjusting switch	Backward	ON
EDAL SW-KK	Pedal adjusting switch	Other than above	OFF

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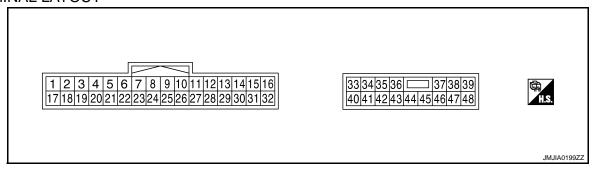
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< ECU DIAGNOSIS >

Monitor Item	Condit	ion	Value/Status			
DETENT SW	AT selector lever	P position	OFF			
DETENT SW	AT Selector lever	Other than above	ON			
STARTER SW	Ignition position	Cranking	ON			
STARTER SW	Ignition position	Other than above	OFF			
		Forward	The numeral value decreases			
SLIDE PULSE	Seat sliding	Backward	The numeral value increases			
		Other than above	No change to numeral value			
		Forward	The numeral value decreases			
RECLN PULSE	Seat reclining	Backward	The numeral value increases			
		Other than above	No change to numeral value			
		Up	The numeral value decreases			
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases			
		Other than above	No change to numeral value			
		Up	The numeral value decreases			
LIFT RR PULSE	Seat lifter (rear)	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			
WIR/SEN KH U-D	Door militor (passenger side)	Close to valley	0.6			
MIR/SEN RH R-L	Door mirror (pageonger side)	Close to left edge	3.4			
WIR/SEN KH K-L	Door mirror (passenger side)	Close to right edge	0.6			
MIR/SEN LH U-D	Door mirror (driver side)	Close to peak	3.4			
WIR/SEN LH U-D	Door militor (univer side)	Close to valley	0.6			
MIR/SEN LH R-L	Door mirror (driver side)	Close to left edge	0.6			
WIIIVOEN LA N-L	Door militor (arriver side)	Close to right edge	3.4			
PEDAL SEN	nodal position	Forward	0.5			
FEDAL SEIN	pedal position	Backward	4.5			

TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS >

Tern	ninal No.	Wire	Description				Voltage (V)
+	-	color	Signal name	Input/ Output	Condition	1	(Approx)
1	Ground	W	UART LINE (RX)	Input	Ignition switch ON		(V) 6 4 2 0 1 ms
3	_	L/B	CAN-H	_	_		_
6	Ground	R	Ignition switch (START)I	Input	Ignition switch	OFF START	0 Battery voltage
9	Ground	R/B	Reclining sensor signal	Input	Seat reclining	Operate	(V) 6 4 2 0 ***50ms
						Stop	0 or 5
10	Ground	B/R	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	(V) 6 4 2 0 **50ms
						Stop	0 or 5
11	Ground	Y/R	Sliding switch back- ward signal	Input	Sliding switch	Operate (back- ward)	0
						Release	Battery voltage
12	Ground	L/W	Reclining switch back- ward signal	Input	Reclining switch	Operate (back- ward)	0
						Release	Battery voltage
13	Ground	V	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
					,	Release	Battery voltage
14	Ground	P/L	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
						Release	Battery voltage
15	Ground	SB	Pedal switch backward signal	Input	Pedal switch	Operate (back- ward)	0
						Release	Battery voltage
16	Ground	R/W	Sensor power supply	Output	_		5

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Term	ninal No.	\ <i>\(\tau\)</i> :	Description				V-lt () ()
+	-	Wire color	Signal name	Input/ Output	Condition	า	Voltage (V) (Approx)
17	Ground	Y/R	UART LINE (TX)	Output	Ignition switch ON		(V) 6 4 2 0 2 ms
19	_	G	CAN-L		_		_
21	Ground	L	A/T device (park position switch)	Input	A/T selector lever	P position Except P position	0 Battery voltage
24	Ground	R/L	Sliding sensor signal	Input	Seat sliding	Operate	(V) 6 4 2 0 50 ms
					Stop		0 or 5
25	Ground	Y/G	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	(V) 6 4 2 0 ****50ms
						Stop	0 or 5
26	Ground	L/R	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
			o.ga.			Release	Battery voltage
27	Ground	V/W	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
						Release	Battery voltage
28	Ground	BR/Y	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
						Release	Battery voltage
29	Ground	G/R	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up) Release	O Dottom viole as
30	Ground	L/Y	Pedal switch forward signal	Input	Pedal switch Ope (forw		Battery voltage 0
	0	05/5				Release	Battery voltage
31	Ground	GR/R	Sensor ground	_			0
32	Ground	G/W	Ground (signal)	_	_		0
33	Ground	W/B	Battery power source (C/B)	Input	ut —		Battery voltage

< ECU DIAGNOSIS >

Term	ninal No.	Wire	Description				\/altaga /\/\
+	-	color	Signal name	Input/ Output	Condition	1	Voltage (V) (Approx)
35	Ground	R/G	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
			output signal			Release	0
36	Ground	L	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
			ward output signal			Release	0
37	Ground	В	Lifting motor (front) down output signal	Output	Seat lifting (front) Operate (down)		Battery voltage
			down output signal		Stop		0
38	Ground	GR	Lifting motor (rear) up output signal	Output	Seat lifting (rear) Operate (up)		Battery voltage
			output signal			Stop	0
39	Ground	R	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
			down output signal			Stop	0
40	Ground	G	Power source (Fuse)	Input	_		Battery voltage
42	Ground	R/Y	Sliding motor back- ward output signal	Output	Seat sliding	Operate (back- ward)	Battery voltage
						Stop	0
44	Ground	G/B	Reclining motor back- ward output signal	Output	Seat reclining Operate (backward)		Battery voltage
						Stop	0
45	Ground	G/Y	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
			output signal			Stop	0
48	Ground	В	Ground (power)	_	_		0

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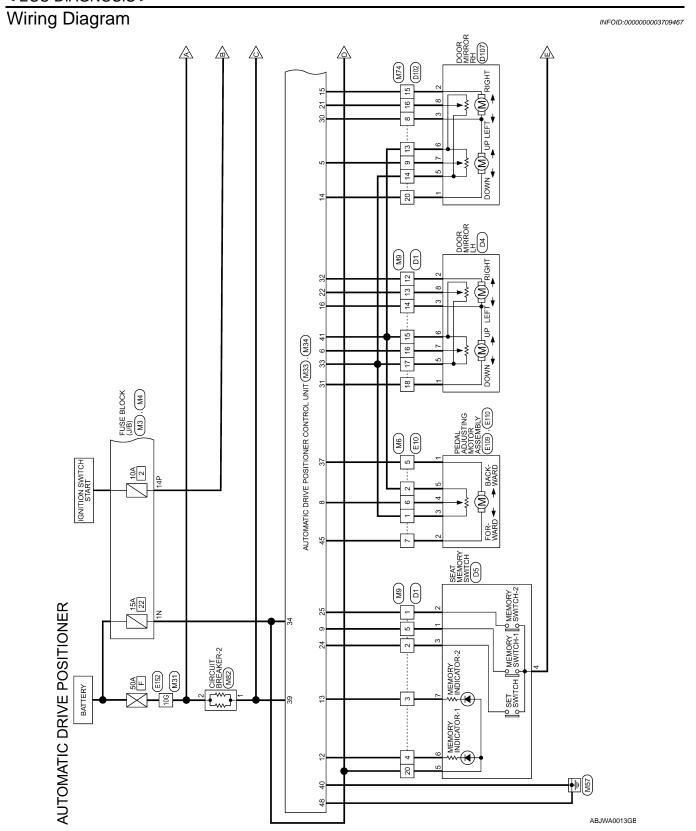
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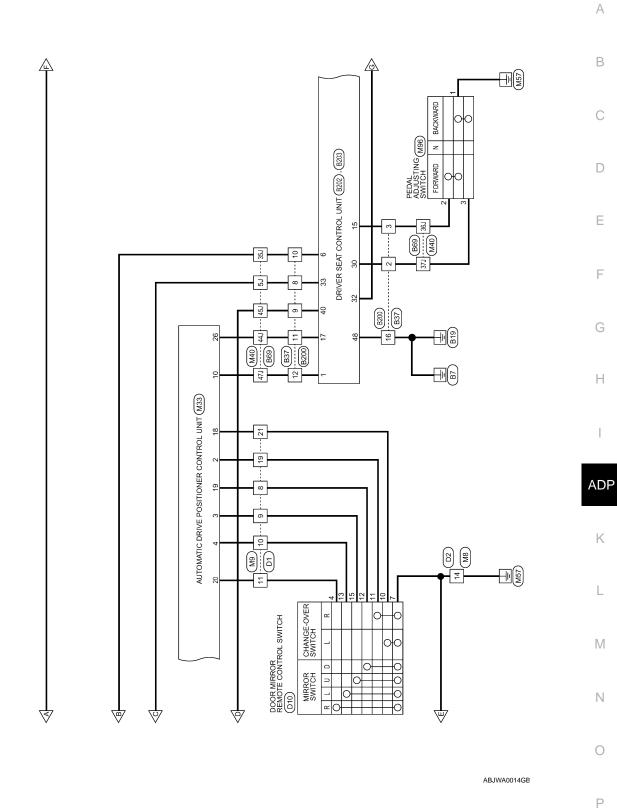
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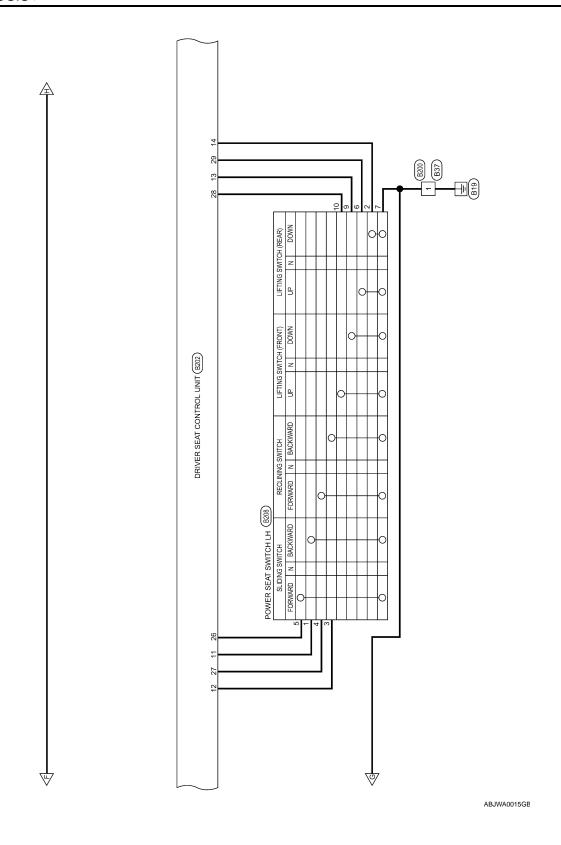
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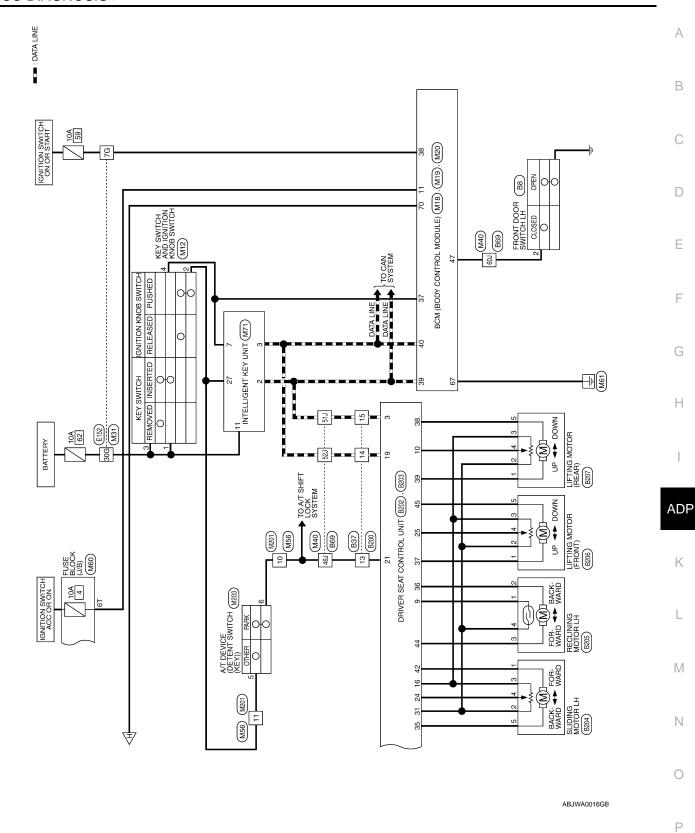
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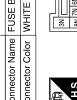
Connector No. M6
Connector Name WIRE TO WIRE

Connector Color WHITE

AUTOMATIC DRIVE POSITIONER CONNECTORS

M3	Connector Name FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name	Connector Color WHITE

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







9 8 7 6 5	Signal Name	1	ı	ı	ı	1
01 01	Color of Wire	M/L	M/G	g	BR/Y	ш
H.S.	Terminal No. Wire	1	2	5	9	7

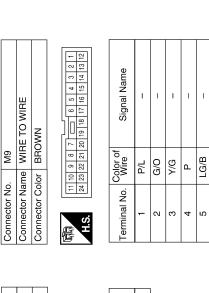
Signal Name

Terminal No. Wire

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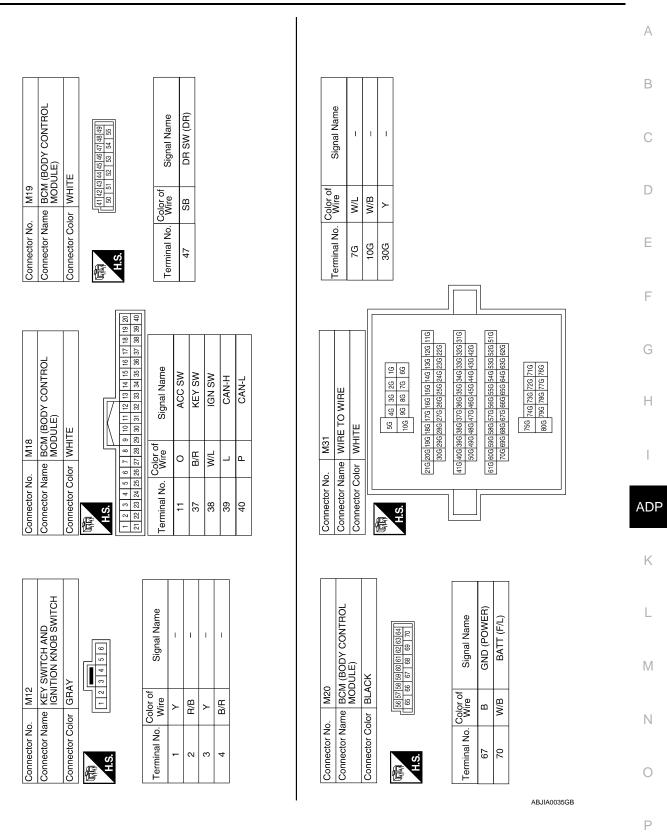
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Omen leaving		I	I	ı	ı	ı	I	ı	ı	ı	I	ı	1	1	ı
Color of	D 	SB	Y/B	W/N	GR	B/R	g	0	W/G	₹	M/L	Ж	ГG	Y/R	BR/W
- Oly Icaimac	d	8	6	10	Ξ	12	13	14	15	16	17	18	19	20	21



	RE TO WIRE	ITE	7 6 5 4 3 12 11 10 9 8	Signal Name	-
W W	me WIF	lor WH	7 6 5 16 15 14	Color of Wire	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	品S.	Terminal No.	14

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Signal Name	HORIZONTAL_SENS	HORIZONTAL_SENS	ı	SET_SW	MEMORY2_SW	RX	_	=	=	RH_MTR_(COM)	LH_MTR_(UP-DWN)	LH_MTR_(LT)
Color of Wire	M	Б	ı	G/O	J/A	Μ	_	_	-	Ь	В	BB
Terminal No.	21	22	23	24	25	56	27	28	29	30	31	32

_														
VERTICAL_SENS_LH	_	PEDAL_POTENTION	MEMORY1_SW	XL	-	MEMORY1_IND	MEMORY2_IND	RH_MTR_(UP-DN)	RH_MTR (LT)	LH_MTR_(COM)	-	MIR_SELECT_SW_LH	MIR_MANU_SW_DN	MIR_MANU_SW_RH
$\Gamma \mathcal{N}$	ı	BR/Y	LG/B	٦	I	Ь	Y/G	GR/R	N/R	0	1	BR/W	SB	GR
9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
	Γ/	٠ -	L/Y BR/Y	L/Y BR/Y LG/B	L/Y = LG/B = LG/B	L/Y BR/Y LG/B LG/B L	LG/B LG/B L C L	LG/B LG/B LG/B - - - - - - - - - - - - - - - - - - -	LA/A BR/A LG/B L L L - - - - - - - - - - -	LG/B LG/B LG/B LG/B L C L C	LG/B LG/B LG/B LG/B LG/B LG/B V/G GR/R V/R	LG/B LG/B LG/B LG/B LG/B V/G P V/G GR/R V/R	LG/B LG/B LG/B LG/B LG/B LG/B LG/B LG/B	LG/B LG/B LG/B LG/B L L LG/B L L LG/B L L L L L L L L L L L L L L L L L L L

Signal Name	1	_	PEDAL RR OUT	-	-	GND(POWER)
Color of Wire	1	_	В	_	-	В
Terminal No. Wire	43	44	45	46	47	48

Connector No.	M33
Connector Name	Connector Name AUTOMATIC DRIVE POSITION CONTROL UNIT
Connector Color WHITE	WHITE



Signal Name	ı	MIR_SELECT_SW_F	MIR_MANU_SW_U	MIR_MANU_SW_L	VERTICAL_SENS_F	
Color of Wire	I	Ыl	A//B	M/Λ	B/B	
Terminal No.	-	2	ဗ	4	5	

. M34	Connector Name AUTOMATIC DRIVE POSITION CONTROL UN	lor WHITE	
Connector No.	Connector Nar	Connector Color WHITE	

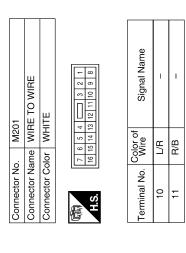


	Signal Name	
	Color of Wire	
<i>6</i>	inal No.	

Signal Name	MEMORY(POT_FEED)	BAT_(FUSE)	UP WARD	-	FORWARD	-	BAT(PTC)	(BIS)GNB	MEMORY(POT_RET)	DOWN WARD
Color of Wire	M/L	Y/R	ш	1	ŋ	ı	L/B	B/W	W/G	>
Terminal No.	33	34	35	36	37	38	39	40	41	42

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		А
		В
WHITE WHITE ### ### ### #### #### #### ##### ######	M74 M74 M74 M74 M75 M75	С
M56 M56 M97	M74 M74 M74 M74 M74 M74 M74 M76 M76	D
M56 Connector No. M56 Connector Name WIRE TO WIRE Connector Color WHITE	M74 Connector No. M74 WIRE TO WIRE Connector Name WIRE TO WI	Е
	4 <u>0</u> 33	F
Signal Name	IGENT KEY UNIT	G
Signa	Sig	Н
Color of Wire of Color of Colo	M70 M70	I
7 Ferminal No. 5J 35J 36J 36J 44J 44J 45J 45J 45J 55J 52J 60J	Connector No. M70	ADP
		K
8. WHE TO WIRE NHITE SI 41 31 21 11 10 91 81 77 64 134 221 12 11 020 193 182 177 164 155 144 133 123 171 30 239 282 277 284 255 244 233 224 11 40 339 283 577 384 354 334 334 324 11 60 83 83 877 384 854 434 433 421 11 60 83 83 877 384 854 854 834 823 11 60 80 80 80 877 884 851 644 834 821 12 80 80 80 877 884 851 773 753 741 13 80 80 80 877 884 851 773 753 741 13 80 80 80 80 877 884 851 773 753 741 14 80 80 80 80 877 884 851 773 753 753 753 753 753 753 753 753 753	OCK (J/B) Signal Name -	L
M40 WHRE TO WIRE SJ 41 31 21 14 10. 31 81 71 63 19. 18. 17. 16. 15. 144 13 19. 18. 17. 16. 15. 144 13 19. 18. 17. 16. 15. 144 13 19. 18. 17. 16. 15. 144 13 19. 18. 17. 16. 15. 144 14 19. 18. 17. 16. 15. 144 14 19. 18. 17. 16. 15. 144 14 19. 18. 17. 16. 16. 16. 16. 16. 16. 16. 16 19. 18. 17. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16	M60 **USE BLOCK WHITE T T T T T T T T	M
nector N nector N	Connector No. M60 Connector Name FUSE BLOCK (J/B) Connector Color WHITE Terminal No. Color of Signal Nar 6T 0 -	N
		0
		Р



DAL ADJUSTING	SWILCH (WITH AUTOMATIC DRIVE POSITIONER)	BROWN	2 1 2	Signal Name	-	_	ı
L			8	Color of Wire	В	$\Gamma \lambda$	Œ
	Connector Name	Connector Color	可 H.S.	Terminal No.	1	2	3

			CIRCUIT BREAKER-2 WHITE
-2		WHITE	
	高 H.S.	Connector Color 雨	Connector Name Connector Color

İ	
Connector No.	E109
onnector Name	Connector Name PEDAL ADJUSTING MOTOR ASSEMBLY
Connector Color GRAY	GRAY
IA.S.	

E TO WIRE	IE	7 8 9 10	Signal Name	ı	-	ı	I	-
ne WIR	Jr WH	2 9	Solor of Wire	M/L	M/G	G	BR/Y	В
Connector Nan	Connector Colc	际和 H.S.	Terminal No.	1	2	5	9	7
	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name WIRE TO WIRE Connector Color WHITE H.S. Terminal No. Wire Signal Name 1 W/L -	Connector Name WIRE TO WIRE Connector Color WHITE H.S. 1 2	Connector Name WIRE TO WIRE Connector Color WHITE H.S.	Connector Name WIRE TO WIRE Connector Color WHITE H.S. I 2 mm 3 4 10 10 10 10 10 10 10

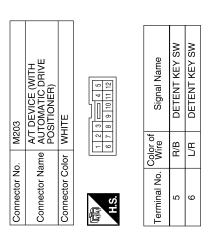
Signal Name

Color of Wire

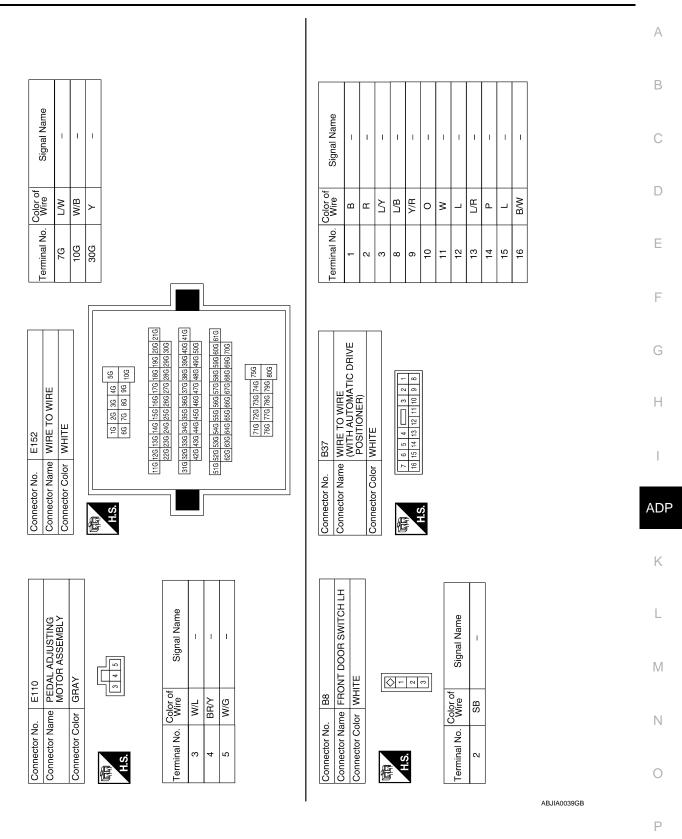
Terminal No.

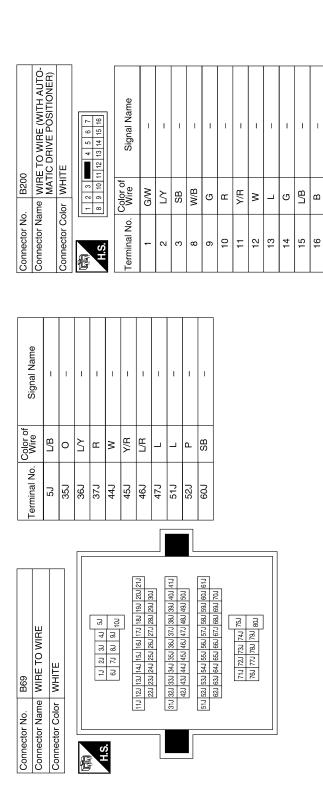
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Signal Name	CAN-L	1	P RANGE SW	I	-	PULSE SLIDE	PULSE FR LIFTER	SLIDE FWD SW	RECLINE FWD SW	FR LIFTER UP SW	RR LIFTER UP SW	PEDAL FORWARD	SENSOR GND	GND (SIGNAL)
Color of Wire	В	ı	_	1	1	R/L	Y/G	L/R	M/N	BR/Y	G/R	$\Gamma \backslash \lambda$	GR/R	G/W
Terminal No.	19	20	21	22	23	24	25	26	22	28	59	30	31	35

Signal Name	ı	ST_SW	ı	1	PULSE RECLING	PULSE RR LIFTER	SLIDE BACKWD SW	RECLINE BACKWD SW	FRONT LIFTER DN SW	REAR LIFTER DN SW	PEDAL_BACK	POWER SUPPLY	XT	-
Color of Wire	ı	В	1	1	B/B	B/R	Y/R	W/I	>	P/L	SB	B/W	Y/R	1
Terminal No.	5	9	7	8	6	10	11	12	13	14	15	16	17	18

12	DRIVER SEAT CONTROL UNIT	WHITE	9 10 11 12 13 14 15 16 25 26 27 28 29 00 31 32	Signal Name	Ж	I	CAN-H	ı
B202	_		2 2 3 24	Color of Wire	>	۱	8	1
Connector No.	Connector Name	Connector Color	LS. H.S. 17 18 19 20 21	Terminal No.	-	2	ဇ	4

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DRIVER SEAT CONTROL UNIT

Connector No.		B204
Connector Name		SLIDING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color		GRAY
H.S.	-	2 3 4 5
Terminal No.	Color of Wire	of Signal Name
1	R/Y	-
5	GR/R	-
3	R/W	-
4	R/L	-
ιc	B/G	ı

Signal Name	BAT (PTC)	ı	SLIDE FWD MTR	RECLINE FWD MTR	FR LIFTER DN MTR	RR LIFTER UP MTR	RR LIFTER DN MTR	BAT (FUSE)	ı	SLIDE BACKWD MTR	I	RECLINE MTR BACKW	FR LIFTER UP MTR	ı	-	GND (POWER)
Color of Wire	M/B	_	R/G	٦	В	GR	В	g	-	R/Υ	1	G/B	G/Y	_	-	В
minal No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

Connector No.	B203
Connector Name	Connector Name DRIVER SEAT CONTROL UNIT
Connector Color WHITE	WHITE
EE 33	33 34 35 36 7 37 38 39
40	40 41 42 43 44 45 46 47 48
7	



B207	Connector Name (WITH AUTOMATIC DRIVE POSITIONER)	зВАУ	2 3 4 5	of Signal Name	I	-	-	1	1
Connector No.	Lector Name (Connector Color GRAY	H.S.	Color of Wire	1 B	2 GR/R	3 R/W	4 Y/G	5 G/Y
Cor	Con	Cor		Ten					
90	Connector Name (WITH AUTOMATIC DRIVE POSITIONER)	AY	3 4 5	Signal Name	ı	ı	-	-	ı
). B206	Ime (WI PC	olor GR		Color of Wire	Я	GR/R	R/W	В	GR
Connector No.	Connector Na	Connector Color GRAY	H.S.	Terminal No. Wire	-	2	3	4	2

Connector No.		B205	2
Connector Name	ıme	E S	RECLINING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color		WHITE	TE
H.S.		~	7
Terminal No.	Color of Wire	re of	Signal Name
-	<u>R</u>	R/B	1
2			I
3	Ġ	G/B	ı
4	GF	GR/R	_

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Signal Name	I	I	ı	1	I	ı	ı	1	ı	1	ı	1	1
Color of Wire	Y/B	W/A	GR	BR	ტ	0	W/G	₹	M/L	ш	ΓG	Y/R	BR/W
Terminal No.	6	10	Ξ	12	13	14	15	16	17	18	19	50	21

			11 54]							
	WIRE TO WIRE	WHITE	5 6		Signal Name	I	ı	-	ı	I	ı
D1		Ĭ.	2 3 4 5 13 14 15 16		Color of Wire	P/L	0/9	Y/G	۵	LG/B	SB
Connector No.	Connector Name	Connector Color	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Terminal No.	-	2	3	4	2	8

D4	Connector Name AUTOMATIC DRIVE POSITIONER)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



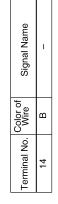


8	POWER SEAT SWITCH LH (WITH AUTOMATIC DRIVE POSITIONER)	TE	8 7 8 8 1 8 1 8	Signal Name	-
B208		or WHI	4 0 0 0	Color of Wire	Y/R
Connector No.	Connector Name	Connector Color WHITE	原 H.S.	Terminal No.	1

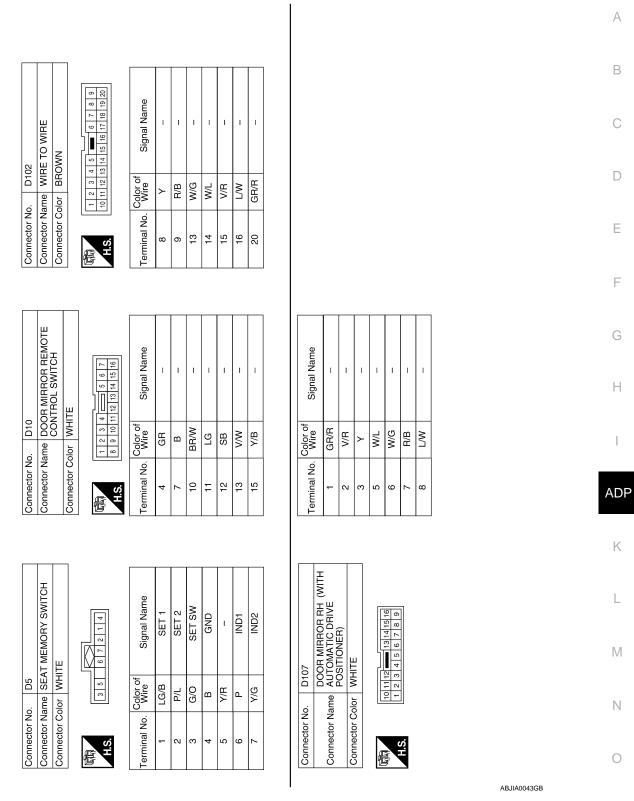
OmcIN Londin	olgilai Naille	I	ı	ı	ı	I	ı	I	i	Ī	_
Color of	wire	Y/R	P/L	Μ	W/A	L/R	G/R	B/W	ı	>	BR/Y
Color of	elilliai NO.	1	2	ε	4	2	9	7	8	6	10

ector No.	D2	ΟI							
ector Name WIRE TO WIRE	8	<u>=</u>	-	0	⋝	꿆			
ector Color WHITE	>	[도	쁘						
[_
_	2	က			4	S	9	7	
8	တ	9 10 11 12 13 14 15 16	Ξ	12	5	4	15	16	
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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".

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

CONSULT-III	Tim	ing ^{*1}		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-29
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-30
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-31
SEAT LIFTER FRONT [B2114]	0	1-39	Seat lifting motor front output	ADP-34
SEAT LIFTER REAR [B2115]	0	1-39	Seat lifting motor rear output	ADP-34
ADJ PEDAL MOTOR [B2117]	0	1-39	Pedal adjusting motor output	ADP-34
ADJ PEDAL SENSOR [B2120]	0	1-39	Pedal adjusting sensor input	ADP-34
DETENT SW [B2126]	0	1-39	Park position switch condition	ADP-38
UART COMM [B2128]	0	1-39	UART communication	<u>ADP-40</u>

^{*1:}

^{• 0:} Current malfunction is present

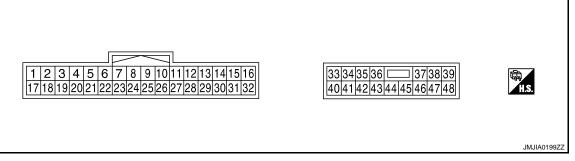
^{• 1-39:} Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected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

< ECU DIAGNOSIS >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Teri	minal No.		Description					
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)	
			Changeover switch RH		Changeover	RH	0	
2	Ground	LG	signal	Input	switch position	Neutral or LH	5	
2	Cround	Y/B	Mirror quitob un aignal	lanut	Mirror switch	Operated (up)	0	
3	Ground	Y/B	Mirror switch up signal	Input	Wilffor Switch	Other than above	5	
4	Ground	V/W	Mirror quitab left aignal	Innut	Mirror switch	Operated (left)	0	
4	Giouria	V/VV	Mirror switch left signal	Input	WIIITOI SWILCTI	Other than above	5	
_	0	D/D	Door mirror sensor (RH)	1	Door mirror RH	Peak	3.4	
5	Ground	R/B	up/down signal	Input	position	Valley	0.6	
	Craund	L/Y	d I/V	Door mirror sensor (LH)	lanus	Door mirror LH	Peak	3.4
6	Ground	L/ Y	up/down signal	Input	position	Valley	0.6	
0	Craund	BR/Y	Pedal sensor input sig-	الم مر دا	Dedel concer	Forward	0.5	
8	Ground	DR/ I	nal	Input	Pedal sensor	Backward	4.5	
						Push	0	
9	Ground	LG/B	Memory switch 1 signal	Input	Memory switch 1	Other than above	5	
10	Ground	L	UART LINE (TX)	Out- put	Ignition switch ON	ı	(V) 6 4 2 0 1 ms	
				_		Illuminate	0	
12	Ground	Р	Memory indictor 1 signal	Out- put	Memory indictor 1	Other than above	Battery voltage	

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Teri	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Condition	on	Voltage (V) (Approx.)
				Out-	Memory indictor	Illuminate	0
13	Ground	Y/G	Memory indictor 2 signal	put	2	Other than above	Battery voltage
14	Ground	GR/R	Door mirror motor (RH)	Out-	Door mirror RH	Operate (up)	1.5 - Battery voltage
	Cround	Ontine	up output signal	put	Bool Hillion Terr	Other than above	0
15	Ground	V/R	Door mirror motor (RH)	Out-	Door mirror RH	Operate (left)	1.5 - Battery voltage
	Ground	V/IX	left output signal	put	Door million Kill	Other than above	0
			Door mirror motor (LH)			Operate (down)	1.5 - Battery voltage
16	Ground	0	down output signal	Out-	Door mirror (LH)	Other than above	0
10	Giodila	O	Door mirror motor (LH)	put	Door Hillion (EIT)	Operate (right)	1.5 - Battery voltage
			right output signal			Other than above	0
			Changeover switch LH		Changeover	LH	0
18	Ground	BR/W	signal	Input	switch position	Neutral or RH	5
19	Ground	SB	Mirror switch down sig-	Input	Mirror switch	Operate (down)	0
19	Giouna	SB	nal	прис	WIIITOI SWIICII	Other than above	5
20	Ground	GR	Mirror switch right signal	Innut	Mirror switch	Operate (right)	0
20	Giouna	GK	Will of Switch right Signal	Input	WIIITOI SWIICII	Other than above	5
21	Ground	L/W	Door mirror sensor (RH)	Input	Door mirror RH	Left edge	3.4
	Ground	L/ V V	left/right signal	input	position	Right edge	0.6
22	Ground	G	Door mirror sensor (LH)	Input	Door mirror LH	Left edge	0.6
			left/right signal		position	Right edge	3.4
24	Ground	G/O	Set switch signal	Input	Set switch	Push Other than	0 5
						above Push	0
25	Ground	P/L	Memory switch 2 signal	Input	Memory switch 2	Other than above	5
26	Ground	W	UART LINE (RX)	Input	Ignition switch ON	I	(V) 6 4 2 0 2 ms

< ECU DIAGNOSIS >

Terr	minal No.		Description				
+		Wire color	Signal name	Input/ Out- put	Condition	on	Voltage (V) (Approx.)
			Door mirror motor (RH)			Operate (down)	1.5 - Battery voltage
30	Ground	Y	down output signal	Out-	Door mirror (RH)	Other than above	0
30	Ground	Ť	Door mirror motor (RH)	put	Door Hillfor (KH)	Operate (right)	1.5 - Battery voltage
			right output signal			Other than above	0
31	Ground	R	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (up)	1.5 - Battery voltage
31	Ground	ĸ	up output signal	put	Door millior (LH)	Other than above	0
32	Ground	BR	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (left)	1.5 - Battery voltage
32	Giodila	ЫX	left output signal	put	Door Hillion (ETT)	Other than above	0
33	Ground	W/L	Sensor power supply	Input	_		5
34	Ground	Y/R	Battery power source	Input	_		Battery voltage
37	Ground	G	Pedal adjusting motor	Out-	Pedal adjusting	Operate (forward)	Battery voltage
31	Giodila	G	forward output signal	put	motor	Other than above	0
39	Ground	L/B	Battery power source		_		Battery voltage
40	Ground	B/W	Ground	_	_		0
41	Ground	W/G	Sensor ground	_	_		0
45	Ground	R	Pedal adjusting motor backward output signal	Out-	Pedal adjusting	Operate (back- ward)	Battery voltage
			backwaru output signal	pui	motor	Other than above	0
48	Ground	В	Ground	_	_		0

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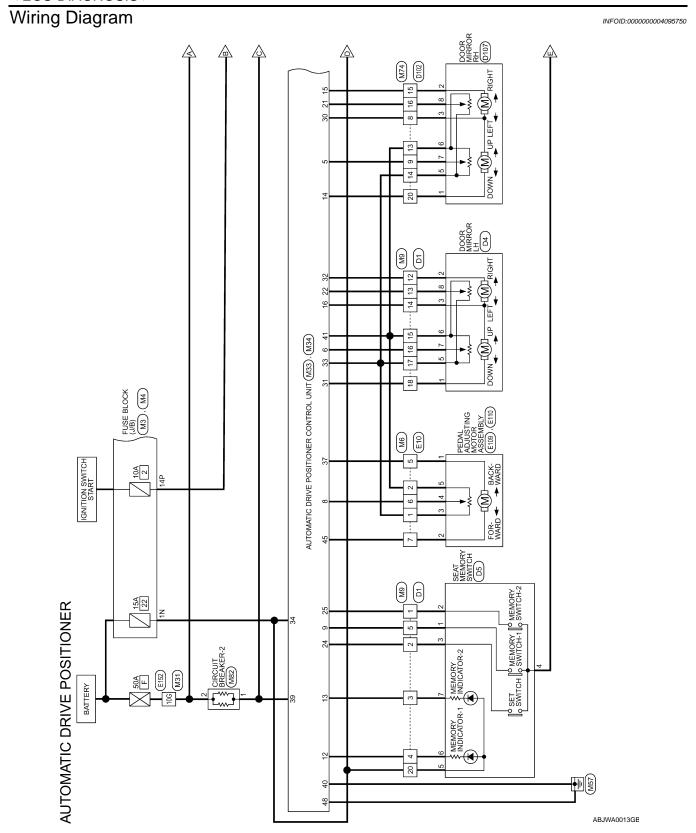
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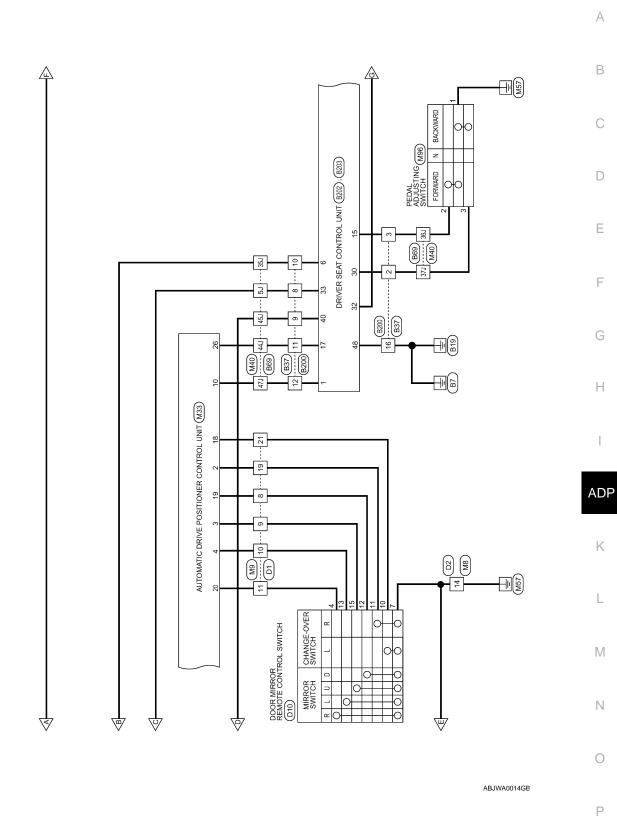
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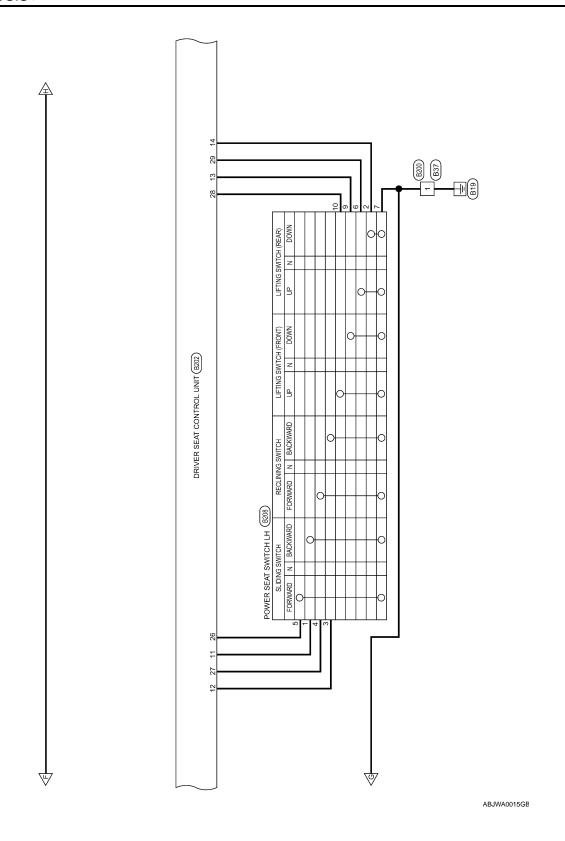
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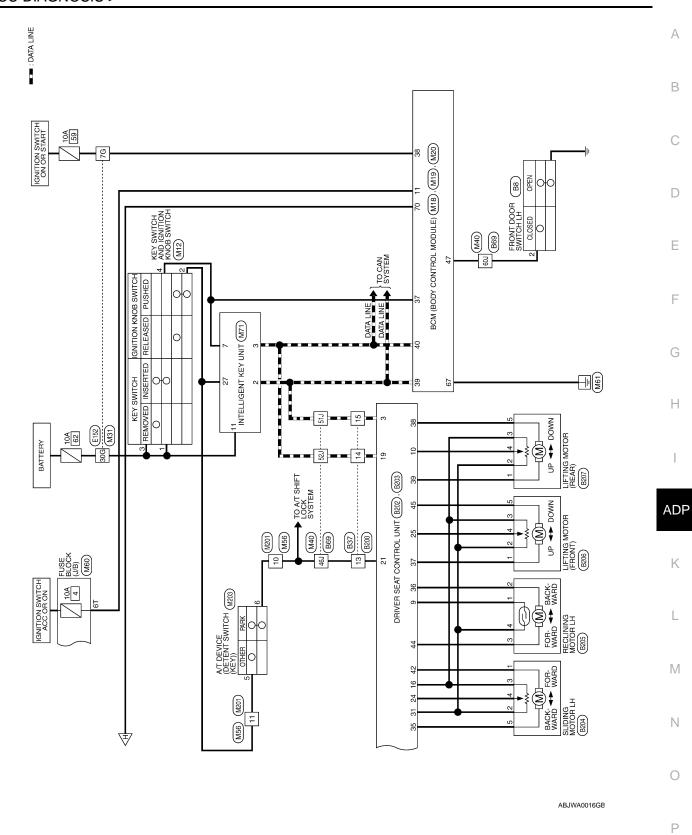
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Connector No. M6
Connector Name WIRE TO WIRE

Connector Color WHITE

AUTOMATIC DRIVE POSITIONER CONNECTORS

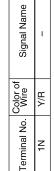
M3	Connector Name FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name	Connector Color WHITE

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









Signal Name

Color of Wire

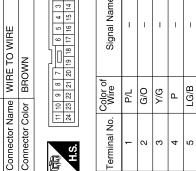
Terminal No. 14P

0

Signal Name	1	1	Ţ	1	1
Color of Wire	M/L	W/G	В	BR/Y	В
Terminal No. Wire	ŀ	2	9	9	7

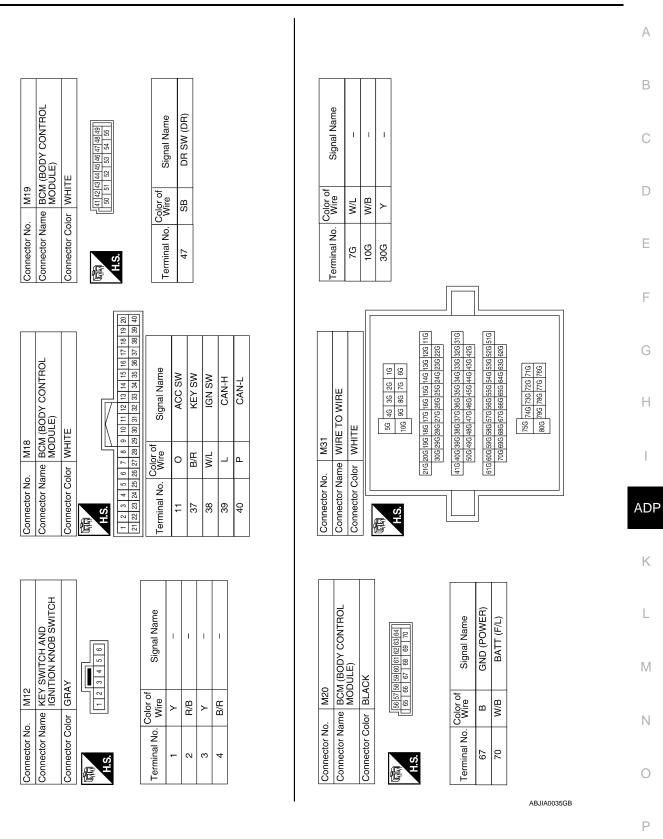
Signal Name	1	1	1	ı	1	ı	ı	ı	1	1	ı	1	1	ı
Color of Wire	SB	Y/B	W/N	GR	B/R	g	0	W/G	7	M/L	В	ГG	Y/R	BR/W
Terminal No.	8	6	10	Ξ	12	13	14	15	16	17	18	19	20	21

Connector No.	. M9	
Connector Name	me WIF	WIRE TO WIRE
Connector Color	lor BROWN	NMC
H.S.	10 9 8 22 22 21	11 10 9 8 7 6 5 4 3 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 2 9 18 7 6 5 4 13 5 2 1 2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3
Terminal No. Wire	Color of Wire	Signal Name



	RE TO WIRE	IITE	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Signal Name	-
Σ	me WIF	lor WH	7 6 5 16 15 14	Color of Wire	В
Confriector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No.	14

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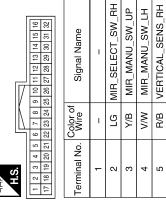


Signal Name	HORIZONTAL_SENS	HORIZONTAL_SENS	I	SET_SW	MEMORY2_SW	RX	1	-	1	RH_MTR_(COM)	LH_MTR_(UP-DWN)	LH_MTR_(LT)
Color of Wire	L/W	В	I	G/O	P/L	Μ	_	_	_	У	Я	BR
Terminal No.	21	22	23	24	25	56	27	28	59	30	31	32

Signal Name	VERTICAL_SENS_LH	I	PEDAL_POTENTION	MEMORY1_SW	XT	ı	MEMORY1_IND	MEMORY2_IND	RH_MTR_(UP-DN)	RH_MTR (LT)	LH_MTR_(COM)	I	MIR_SELECT_SW_LH	MIR_MANU_SW_DN	MIR_MANU_SW_RH
Color of Wire	L/Y	ı	BR/Y	LG/B	٦	ı	۵	Y/G	GR/R	N/R	0	1	BR/W	SB	GR
Terminal No. Color of Wire	9	2	8	6	10	11	12	13	14	15	91	11	18	19	20

Signal Name	I	_	PEDAL RR OUT	-	I	GND(POWER)
Color of Wire	1	1	ш	1	ı	В
Terminal No. Wire	43	44	45	46	47	48

Connector No.	M33
Connector Name	Connector Name AUTOMATIC DRIVE POSITION CONTROL UNIT
Connector Color WHITE	WHITE



M34	Connector Name AUTOMATIC DRIVE POSITION CONTROL UNIT	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

_		
	39	48
	38	47
	37	46
	П	45
	Ш	44
	36	43
	33	42
	34	41
	33	40

Signal Name	MEMORY(POT_FEED	BAT_(FUSE)	UP WARD	ı	FORWARD	ı	BAT(PTC)	
Color of Wire	M/L	Y/R	В	1	G	_	L/B	
ninal No.	33	34	35	36	37	38	39	

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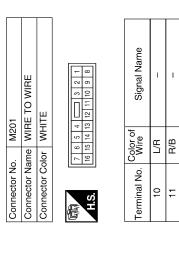
4 4 4

MEMORY(POT_RET)

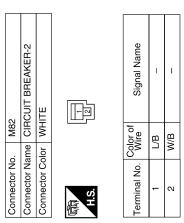
L/B B/W W/G

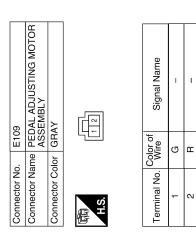
BAT(PTC) GND(SIG) DOWN WARD

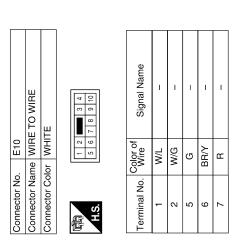
	А
m m m m m m m m m m m m m m m m m m m	В
WIRE TO WIRE WHITE WHITE WHITE WHITE WHITE WHITE WHITE Signal Name WIRE TO WIRE Signal Name WIRE TO WIRE Signal Name WIRE TO WIRE Signal Name WIRE WIRE WIRE Signal Name WIRE WIR	С
0. M56 ame WIRE olor WHITE 1 2 3 4 1 2 3 1 2 3 1 2 3 1 3 3 1 3 3 1 4 1 5 3 1 5	D
M56 Connector No. M56	Е
10 10 10 10 10 10 10 10	F
	G
Signal	Н
Substitute Color of Substitute Substit	1
Su Su Su Su Su Su Su Su	ADP
	K
22 10 70 6.1 81 144 143 123 110 1144 143 123 131 81 144 143 123 110 81 144 143 143 123 110 81 144 143 143 123 110 81 144 143 143 143 143 143 143 143 143 14	L
M40 WIRE TO WIRE	M
Connector Name WIRE TO WIRE	N
Connector No. Connector Name Connector Name Connector Name Connector Name Connector Name Connector Name Connector No. Gitti 60 Fig. 60 Fi	0
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Signal Name	Mire Wire	0
	0 10 1	Color of Wire
4 2 1 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	27 4	
BROWN	m l	Connector Color
PEDAL ADJUSTING SWITCH (WITH AUTOMATIC DRIVE POSITIONER)	140.4	Connector Name
M96	5	Connector No. N

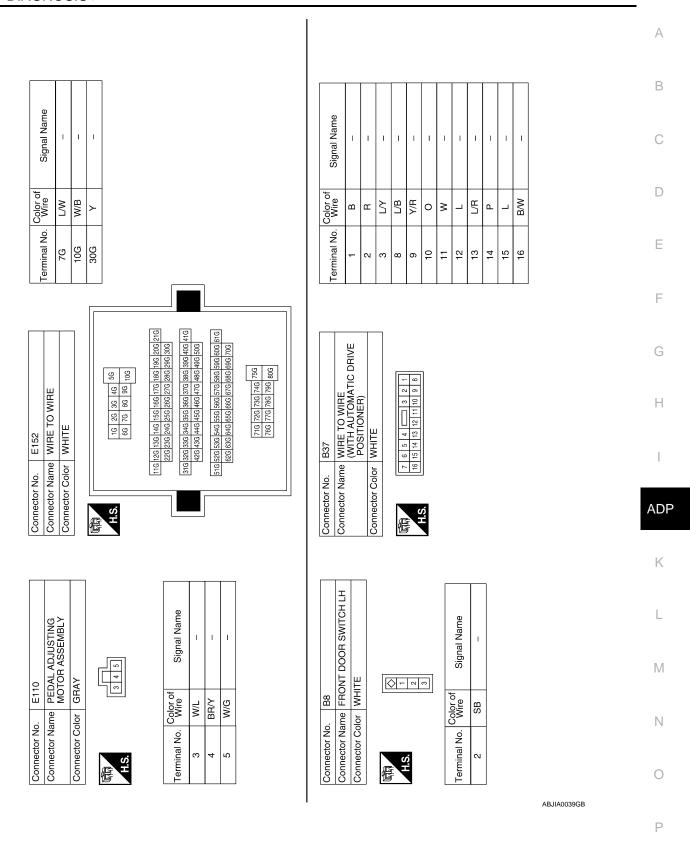


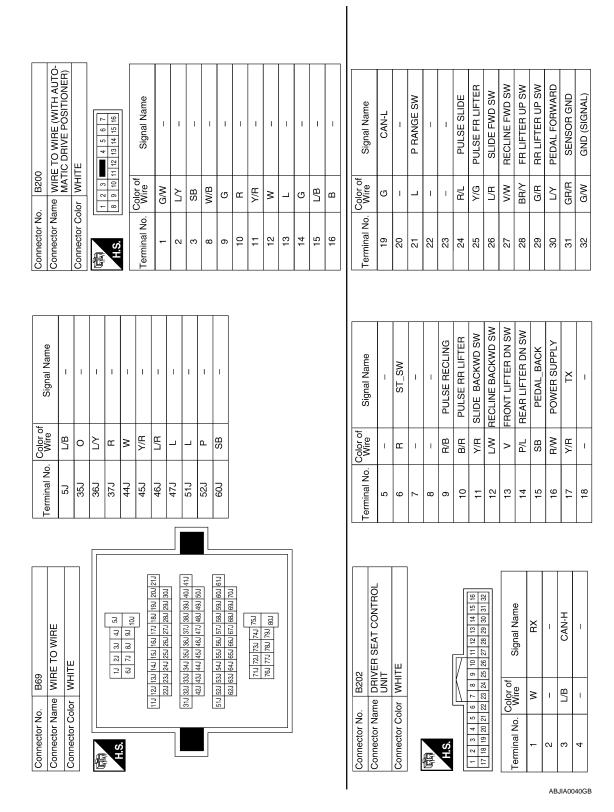




Coppector Name		
		A/T DEVICE (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color		WHITE
H.S.	1 2 8 7 8 8	8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Terminal No.	Color of Wire	Signal Name
2	B/B	DETENT KEY SW
9	L/R	DETENT KEY SW

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	4	Connector Name (WITH AUTOMATIC DRIVE POSITIONER)	АУ		3 4 5	Signal Name	_	-	ı	_	I
	. B204	SLI WI PO	lor GRAY		1 2	Color of Wire	R/Y	GR/R	W/A	B/L	R/G
	Connector No.	Connector Na	Connector Color	á	H.S.	Terminal No.	1	7	3	4	5

Signal Name	BAT (PTC)	ı	SLIDE FWD MTR	RECLINE FWD MTR	FR LIFTER DN MTR	RR LIFTER UP MTR	RR LIFTER DN MTR	BAT (FUSE)	Ι	SLIDE BACKWD MTR	_	RECLINE MTR BACKW	FR LIFTER UP MTR	_	Ι	GND (POWER)
Color of Wire	M/B	ı	R/G	۲	В	GR	ш	D	ı	R/Υ	1	G/B	G/Y	-	1	В
Terminal No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

Connector No.	B203
Connector Name	Connector Name DRIVER SEAT CONTROL UNIT
Connector Color WHITE	WHITE
100	33 34 35 36 6 37 38 39 40 41 42 43 44 45 46 47 48



	ING MOTOR (REAR) FH AUTOMATIC DRIVE SITIONER)	٨t	3 4 5	Signal Name	=	I	-	1	1
B20	e EF	r GR/		olor of Wire	В	3R/R	R/W	Y/G	G/Y
Connector No.	Connector Nam	Connector Colo	明.S.	Terminal No.	1	2	3	4	2
			ı						
90	TING MOTOR (FRONT) ITH AUTOMATIC DRIVE DSITIONER)	3AY	3 4 5	f Signal Name	ı	ı	-	-	1
	ne (W	or GF		Color o Wire	æ	GR/R	B/W	В	GB
Connector No.	Connector Nar	Connector Col	H.S.	Terminal No.	٦	2	3	4	5
	Connector No. B206 Connector No. B207	B206 LIFTING MOTOR (FRONT) IN (WITH AUTOMATIC DRIVE POSITIONER)							

Connector No.		B205
Connector Name		RECLINING MOTOR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color		WHITE
H.S.		2 3 4
Terminal No.	Color of Wire	of Signal Name
-	R/B	ı
2	٦	I
3	G/B	ı
4	GR/R	_

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Signal Name	I	ı	ı	ı	I	I	1	I	ı	ı	ı	_	I
Color of Wire	A//B	W/N	GR	BR	В	0	W/G	$\lambda \Box$	M/L	В	ГС	Y/R	BR/W
Terminal No.	6	10	F	12	13	14	15	16	17	18	19	20	21

Signal Name	1	1	-	-	1	1	I
Color of Wire	В	BR	0	M/L	W/G	L/Y	G
Terminal No.	-	2	8	5	9	7	8

			l									_
	WIRE TO WIRE	WHITE		5 6 7 8 9 10 11	16 17 18 19 20 21 22 23 24	Signal Name	I	ı	ı	ı	I	I
				2 3 4	13 14 15 1	Color of Wire	P/L	0/9	Y/G	۵	LG/B	SB
Connector No.	Connector Name	Connector Color		臣	H.S.	Terminal No.	-	2	က	4	5	8

Connector No.	D4
Connector Name	Connector Name AUTOMATIC DRIVE POSITIONER)
Connector Color WHITE	WHITE



Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE
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Signal Name	-
Color of Wire	В
Terminal No.	14

Connector No. B208	
Connector Name (WITH AUTOMATIC DRIVIPORTIONER)	VITCH LI IC DRIVI
Connector Color WHITE	







Signal Nam	I	I	ı	I	ı	ı	I	I	I	I
Color of Wire	Y/R	P/L	M	W/N	LΆ	G/R	B/W	I	^	BR/Y
Terminal No.	1	2	3	4	5	9	7	8	6	10

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																						А
			50 8																			В
	WIRE TO WIRE		5	Signal Name	ı	1	ı	I	1	1	1											С
. D102	-		10 11 12 13	Color of Wire	>	B/B	D/M	M/L	N/R	M	GR/R											D
Connector No.	Connector Name	Colinector Color	H.S.	Terminal No.	80	6	13	14	15	16	20											Е
	1-1-				1																	F
	MOTE			9									е									G
	DOOR MIRROR REMOTE CONTROL SWITCH	巴	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name	1	1	1	1	ı	ı	1		Signal Name	I	ı	1	1	I	I	1		Н
D10		-	1 2 3 4 8 9 10 11	Color of Wire	GR	В	BR/W	P	SB	M/N	A//B	Color of	Wire	GR/R	N/R	>	M/L	9/M	R/B	ΓW		I
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	4	7	10	=	12	13	15		Terminal No.	-	2	က	വ	9	7	8		ADP
																						K
	SEAT MEMORY SWITCH		2 1 4	Signal Name	SET 1	SET 2	SET SW	GND	ı	IND1	IND2		BROR RH (WITH	AUTOMATIC DRIVE			[]	■ 13141516 5 6 7 8 9				L
D5	SEAT MEN	Д П П М	6		m							D107	DOOR MI	AUTOMA-	POSITION VITE	۱۱ ا ا ا ا		1 2 3 4 5 6 7				M
			3 2	Vo. Color of Wire	LG/B	P/L	G/O	В	Y/R	<u> </u>	A/G			r Name		_		2 -				Ν
Connector No.	Connector Name	Connector Color	品.	Terminal No.	-	2	င	4	2	9	7	Connector No.		Connector Name	rolog rotograd		Œ		Ų.			0
												I									ABJIA0043GB	

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

AIR COND SW	Monitor Item	Condition	Value/Status
ACS switch ON Outside of the room is dark Outside of the room is bright ON AUTO LIGHT SW Lighting switch OFF Lighting switch OFF Back door closed Back door closed Back door lock/unlock switch does not operate OFF Press door lock/unlock switch to the LOCK side ON CDL LOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF ON CDL UNLOCK SW Press door lock/unlock switch does not operate OFF Press 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 Front door RH opened ON Press door lock/unlock switch to the UNLOCK side OFF Press door lock/unlock switch to the UNLOCK side ON ON DOOR SW-RA Pront door RH opened ON Rear door RH opened ON Rear door LH obsed OFF Rear door LH opened ON DOOR SW-RI Rear door LH opened ON Rear door RH closed OFF Rear door RH closed OFF Rear door RH opened ON ON Pront opened ON Pront opened OFF Pront opened OFF Pront opened ON ON Pront opened OFF Pront opened ON ON Pront opened OFF Pront opened ON ON Pront opened ON ON Pront opened OFF Pront opened ON ON ON Pront opened OFF Pront opened ON ON ON Pront opened OFF Pront opened ON ON ON Pront opened OFF Pront opened OFF Pront washer switch OFF OFF Pront washer switch OFF OFF Pront washer switch OFF OFF Pront wiper switch OFF OFF Pront	AIR COND SW	A/C switch OFF	OFF
AUTO LIGHT SYS Outside of the room is bright ON AUTO LIGHT SW Lighting switch OFF OFF Lighting switch OFF OFF Lighting switch OFF ON Back DOOR SW Back door closded OFF Back Abor opened ON CDL LOCK SW Door lock/unlock switch does not operate OFF CDL UNLOCK SW Press door lock/unlock switch to the LOCK side ON DOOR SW-AS Front door RH closed OFF Front door LH closed OFF DOOR SW-AB Front door LH closed OFF DOOR SW-RN Front door LH opened ON DOOR SW-RL Rear door LH opened ON Rear door LH opened ON ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON Engine stopped OFF Engine stopped OFF Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF Front washer switc	AIR COND SW	A/C switch ON	ON
AUTO LIGHT SW	ALIT LIGHT SVS	Outside of the room is dark	OFF
Lighting switch AUTO	AUT LIGHT 313	Outside of the room is bright	ON
Lighting switch AUTO	ALITO LICHT SW	Lighting switch OFF	OFF
Back door opened	AUTO LIGHT SW	Lighting switch AUTO	ON
Back door opened	BVCK DOOD S/M	Back door closed	OFF
CDL LOCK SW 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 LH closed OFF DOOR SW-DR Front door LH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON ON BOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine stopped OFF OFF Engine stopped OFF OFF Front fog lamp switch OFF OFF Front glamp switch OFF OFF Front washer switch ON ON FR WASHER SW Front wiper switch OFF OFF Front wi	DACK DOOK SW	Back door opened	ON
CDL UNLOCK SW Press door lock/unlock switch does not operate OFF DOOR SW-AS Front door RH closed OFF DOOR SW-AS Front door RH closed OFF DOOR SW-DR Front door LH closed OFF DOOR SW-DR Front door LH closed OFF DOOR SW-RL Rear door LH closed OFF Rear door LH closed OFF Rear door LH closed OFF Rear door RH closed OFF Bengine stopped OFF Engine stopped OFF Engine stopped OFF Engine running ON Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF Front washer switch OFF OFF Front wiper switch OFF	CDL LOCK SW	Door lock/unlock switch does not operate	OFF
CDL UNLOCK SW 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 ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON ON DOOR SW-RR Rear door RH closed OFF Rear door RH closed OFF OFF Rear door RH closed OFF OFF Bengine stopped OFF OFF Engine stopped OFF OFF Engine stopped OFF OFF Front fog lamp switch OFF OFF OFF Front of glamp switch OFF OFF OFF Front washer switch OFF OFF OFF Front washer switch OFF OFF OFF Front wiper switch OFF OFF OFF Front wiper switch OFF OFF OFF Front wiper switch OFF OFF OFF Fron	CDL LOCK SVV	Press door lock/unlock switch to the LOCK side	ON
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 closed OFF 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 stopped OFF Engine running ON Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF Front washer switch OFF OFF Front wiper switch OFF OFF <td>CDL LINI OCK CW</td> <td>Door lock/unlock switch does not operate</td> <td>OFF</td>	CDL LINI OCK CW	Door lock/unlock switch does not operate	OFF
DOOR SW-AS Front door RH opened ON DOOR SW-DR Front door LH closed OFF Front door LH opened ON OFF DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON OFF BOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine stopped OFF OFF Engine running ON ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON ON FR WISHER SW Front washer switch OFF OFF Front washer switch OFF OFF OFF Front wiper switch OFF OFF OFF <	CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	ON
Front door RH opened	DOOD OW AC	Front door RH closed	OFF
DOOR SW-DR Front door LH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON OFF DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine running ON ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON ON FR WASHER SW Front washer switch OFF OFF Front washer switch OFF OFF OFF Front wiper switch OFF OFF OFF	DOOR SW-AS	Front door RH opened	ON
Front door LH opened	DOOD CW DD	Front door LH closed	OFF
DOOR SW-RL 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 ON FR WIPER LOW Front wiper switch OFF OFF Front wiper switch OFF OFF OFF Front wiper switch OFF OFF OFF FR WIPER INT Front wiper switch OFF OFF Front wiper switch INT ON ON FR WIPER STOP Any position other than front wiper stop position OFF Front wiper stop position ON OFF When hazard switch is not pressed OFF When hazard switch is pressed ON Lighting switch OFF OFF	DOOK SW-DK	Front door LH opened	ON
Rear door LH opened	DOOD OW DI	Rear door LH closed	OFF
DOOR SW-RR 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 ON FR WIPER HI Front wiper switch OFF OFF Front wiper switch OFF OFF OFF Front wiper switch INT ON ON Any position other than front wiper stop position OFF Front wiper stop position ON HAZARD SW When hazard switch is not pressed OFF Lighting switch OFF OFF	DOOR SW-RL	Rear door LH opened	ON
Rear door RH opened	DOOD CW DD	Rear door RH closed	OFF
Engine running	DOOK SW-RK	Rear door RH opened	ON
Engine running	ENCINE DUN	Engine stopped	OFF
Front fog lamp switch ON	ENGINE RUN	Engine running	ON
Front fog lamp switch ON	ED EOC CW	Front fog lamp switch OFF	OFF
FR WASHER SW Front washer switch ON FR WIPER LOW Front wiper switch OFF Front wiper switch LO ON FR WIPER HI Front wiper switch OFF Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP HAZARD SW When hazard switch is not pressed When hazard switch off OFF UND ON OFF OFF OFF OFF OFF OFF OFF OFF OF	FR FOG SW	Front fog lamp switch ON	ON
Front washer switch ON	ED WACHED OW	Front washer switch OFF	OFF
FR WIPER LOW Front wiper switch LO ON FR WIPER HI Front wiper switch OFF Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP HAZARD SW When hazard switch is not pressed When hazard switch is pressed ON Lighting switch OFF	FR WASHER SW	Front washer switch ON	ON
Front wiper switch LO Front wiper switch OFF Front wiper switch OFF Front wiper switch HI ON Front wiper switch OFF Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position Front wiper stop position OFF Front wiper stop position ON When hazard switch is not pressed OFF When hazard switch is pressed ON Lighting switch OFF OFF	ED WIDED I OW	Front wiper switch OFF	OFF
FR WIPER HI Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP Any position other than front wiper stop position Front wiper stop position ON When hazard switch is not pressed OFF When hazard switch is pressed ON Lighting switch OFF OFF	FR WIPER LOW	Front wiper switch LO	ON
Front wiper switch HI FR WIPER INT Front wiper switch OFF Front wiper switch INT Any position other than front wiper stop position FR WIPER STOP Any position other than front wiper stop position Front wiper stop position ON When hazard switch is not pressed When hazard switch is pressed ON Lighting switch OFF OFF	ED WIDED III	Front wiper switch OFF	OFF
FR WIPER INT Front wiper switch INT ON Any position other than front wiper stop position Front wiper stop position ON HAZARD SW When hazard switch is not pressed When hazard switch is pressed ON Lighting switch OFF OFF	FR WIPER HI	Front wiper switch HI	ON
Front wiper switch INT ON Any position other than front wiper stop position OFF Front wiper stop position ON When hazard switch is not pressed OFF When hazard switch is pressed ON Lighting switch OFF Front wiper stop position ON OFF When hazard switch is not pressed ON Lighting switch OFF	ED WIDED INT	Front wiper switch OFF	OFF
FR WIPER STOP Front wiper stop position When hazard switch is not pressed When hazard switch is pressed ON Under the provided HAZARD SW Lighting switch OFF Lighting switch OFF ON OFF	FR WIPER INT	Front wiper switch INT	ON
Front wiper stop position ON When hazard switch is not pressed OFF When hazard switch is pressed ON Lighting switch OFF OFF	ED WIDED CTOD	Any position other than front wiper stop position	OFF
HAZARD SW When hazard switch is pressed ON Lighting switch OFF OFF	FR WIPER STOP	Front wiper stop position	ON
When hazard switch is pressed ON Lighting switch OFF OFF	LIAZADD CVA	When hazard switch is not pressed	OFF
LIGHT SW 1ST	HAZAKU SW	When hazard switch is pressed	ON
Lighting switch 1st ON	LICHT OWAST	Lighting switch OFF	OFF
	LIGHT SW 191	Lighting switch 1st	ON

Monitor Item	Condition	Value/Status	
HEADLAMP SW1	Headlamp switch OFF	OFF	
HEADLAWP SWI	Headlamp switch 1st	ON	
LIEADLAMD CWO	Headlamp switch OFF	OFF	
HEADLAMP SW2	Headlamp switch 1st	ON	
LILDEAM CW	High beam switch OFF	OFF	
HI BEAM SW	High beam switch HI	ON	(
H/L WASH SW	NOTE: The item is indicated, but not monitored	OFF	
IONI ONI OM	Ignition switch OFF or ACC	OFF	
IGN ON SW	Ignition switch ON	ON	
	Ignition switch OFF or ACC	OFF	
IGN SW CAN	Ignition switch ON	ON	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	
4	LOCK button of Intelligent Key is not pressed	OFF	
I-KEY LOCK ¹	LOCK button of Intelligent Key is pressed	ON	
	UNLOCK button of Intelligent Key is not pressed	OFF	
I-KEY UNLOCK ¹	UNLOCK button of Intelligent Key is pressed	ON	
	Mechanical key is removed from key cylinder	OFF	
KEY ON SW	Mechanical key is inserted to key cylinder	ON	
	LOCK button of key fob is not pressed	OFF	
KEYLESS LOCK ²	LOCK button of key fob is pressed	ON	
	UNLOCK button of key fob is not pressed	OFF	
KEYLESS UNLOCK ²	UNLOCK button of key fob is pressed	ON	
OIL PRESS SW	Ignition switch OFF or ACC Engine running	OFF	Al
	Ignition switch ON	ON	
	Other than lighting switch PASS	OFF	
PASSING SW	Lighting switch PASS	ON	
	Return to ignition switch to LOCK position	OFF	
PUSH SW ¹	Press ignition switch	ON	
	Rear window defogger switch OFF	OFF	
REAR DEF SW	Rear window defogger switch ON	ON	
RKE LOCK AND	NOTE:	OFF	
UNLOCK ²	The item is indicated, but not monitored	ON	
	Rear washer switch OFF	OFF	
RR WASHER SW	Rear washer switch ON	ON	
	Rear wiper switch OFF	OFF	
RR WIPER INT	Rear wiper switch INT	ON	
	Rear wiper switch OFF	OFF	
RR WIPER ON	Rear wiper switch ON	ON	
	Rear wiper stop position	OFF	
RR WIPER STOP	Other than rear wiper stop position	ON	
	Lighting switch OFF	OFF	
TAIL LAMP SW	Lighting switch Of I	OFF	

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

^{1:} With Intelligent Key

^{2:} With remote keyless entry system

< ECU DIAGNOSIS > **Terminal Layout** INFOID:0000000004095752 Α В C (M18) D 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 Е \bigcirc F G Н _____ _____

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Physical Values

		Signal name	Signal	Measuring condition		
Terminal	Wire color		input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
1	BR/W	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
1	DIV/VV	nation	Output	OFF	Door is unlocked (SW ON)	0V
2	SB	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5291E
3	G/Y	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ++5ms SKIA5292E
4	Y	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms SKIA5291E
5	G/B	Combination switch input 2				(V)
6	V	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
9	GR/R	Rear window defogger switch	Input	ON	Rear window defogger switch ON	0V
	GR/K				Rear window defogger switch OFF	5V
10	G	Hazard lamp flash	Input	OFF	ON (opening or closing)	0V
	J	•	pat		OFF (other than above)	Battery voltage
11	0	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	R/L	Front door switch RH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
13	GR	Rear door switch RH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
15	L/W	Tire pressure warning check connector	Input	OFF	_	5V
18	Р	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	_	0V

_	Wire		Signal		Measuring condition	Reference value or waveform	
Terminal color S		Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)	
19	V/W	Remote keyless entry receiver (power sup- ply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0 •• • 50 ms	
		Remote keyless entry	Input		Stand-by (keyfob buttons released)	(V) 6 4 2 0 *********************************	
20	G/W	receiver (signal)	mput	OFF	When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 4 2 0 + 50 ms LIIA1895E	
21	G	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.	
22	W/V	BUS	_	_	Ignition switch ON or power window timer operates	(V) 15 10 5 0 200 ms	
23	G/O	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 \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.	
					Rise up position (rear wiper arm on stopper)	0V	
					A Position (full clockwise stop position)	0V	
26	Y/L	Rear wiper auto stop switch 2	Input	ON	Forward sweep (counterclockwise direction)	Fluctuating	
					B Position (full counterclockwise stop position)	Battery voltage	
					Reverse sweep (clockwise direction)	Fluctuating	
27	W/R	Compressor ON sig-	Input	ON	A/C switch OFF	5V	
		nal	1		A/C switch ON	0V	

	Wire	Signal name	Signal		Measuring condition	Reference value or waveform
Terminal	color		input/ output	Ignition switch	Operation or condition	(Approx.)
28 L/R		Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
				ON	Front blower motor ON	0V
29	W/B	B Hazard switch	Input	OFF	ON	0V
23	VV/D	Tiazaid Switch	трис		OFF	5V
32	R/G	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 *5ms
33	R/Y	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 +-5ms skia5292i
34	L	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 2 0 *-5ms SKIA5291
35	O/B	Combination switch output 2				(V)
36	R/W	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	6 4 2 0 ****5ms
37 ¹	B/R	/R Key switch and ignition knob switch	Input	OFF	Intelligent Key inserted	Battery voltage
31	D/IX				Intelligent Key inserted	0V
37 ²	B/R	Key switch and key lock solenoid	Input	OFF	Key inserted Key inserted	Battery voltage 0V
38	W/L	Ignition switch (ON)	Input	ON	-	Battery voltage
39	L	CAN-H	_	<u> </u>	_	—
40	P	CAN-L			_	_
• •					Glass hatch open	0
42	GR	Glass hatch ajar switch	Input	ON	Glass hatch closed	Battery
		Back door switch			ON (open)	0V
43	R/B	(without power back door) or back door latch (door ajar switch) (with power back door)	Input	OFF	OFF (closed)	Battery voltage

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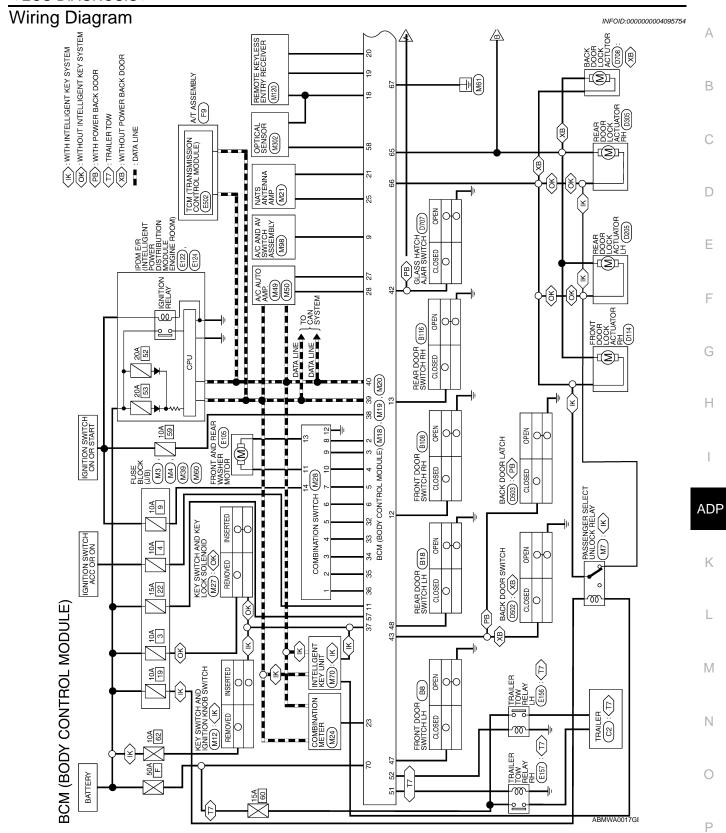
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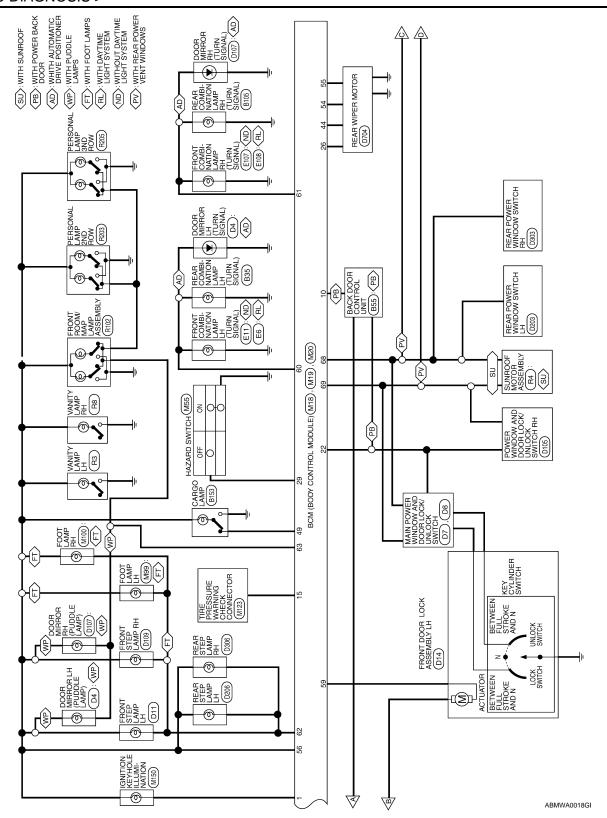
Torminal Wi		Wire .	Signal	Measuring condition		Reference value or waveform	
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)	
		Rear wiper auto stop switch 1	Input	ON	Rise up position (rear wiper arm on stopper)	0V	
					A Position (full clockwise stop position)	Battery voltage	
44	0				Forward sweep (counterclockwise direction)	Fluctuating	
					B Position (full counterclockwise stop position)	0V	
					Reverse sweep (clockwise direction)	Fluctuating	
47	SB	Front door switch LH	Input	OFF	ON (open)	0V	
47	OD	1 TOTA GOOT SWILCT LIT	input	011	OFF (closed)	Battery voltage	
48	R/Y	Rear door switch LH	Input	OFF	ON (open)	VO	
40	10/1	Real door switch En	input	011	OFF (closed)	Battery voltage	
49	R	Cargo lamp	Output	OFF	Any door open (ON)	OV	
43	IX	Cargo lamp	Output	011	All doors closed (OFF)	Battery voltage	
51	G/Y	Trailer turn signal (right)	Output	ON	Turn right ON	(V) 15 10 5 0 500 ms	
52	G/B	Trailer turn signal (left)	Output	ON	Turn left ON	(V) 15 10 500 ms	
		Rear wiper output circuit 2	Input	ON	Rise up position (rear wiper arm on stopper)	0V	
	Y				A Position (full clockwise stop position)	0V	
54					Forward sweep (counterclockwise direction)	0V	
					B Position (full counterclockwise stop position)	Battery voltage	
					Reverse sweep (clockwise direction)	Battery voltage	
55	SB	Rear wiper output cir- cuit 1	Output	ON	OFF ON	0 Battery voltage	
56	R/G	Battery saver output	Output	OFF	30 minutes after ignition switch is turned OFF	OV	
				ON	_	Battery voltage	
57	Y/R	Battery power supply	Input	OFF	_	Battery voltage	

_ Wire		e	Signal	Measuring condition		Reference value or waveform	
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition		(Approx.)
58 W/R	W//D	R Optical sensor	Input	ON	When optical sensor is illuminated		3.1V or more
	VV/K				When optical sensor is not illuminated		0.6V or less
		Front door lock as-	_		OFF (neutral)		0V
59	G	sembly LH actuator (unlock)	Output	OFF	ON (unlock)		Battery voltage
60	G/B	Turn signal (left)	Output	ON	Turn left ON		(V) 15 10 500 ms SKIA3009J
61	G/Y	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 500 ms SKIA3009J
	DAM	R/W Step lamp LH and RH	Output	OFF	ON (any door open)		0V
62 R/V	K/VV				OFF (all doors	closed)	Battery voltage
63		Interior room/map lamp	Output	OFF	Any door	ON (open)	0V
63	L				switch	OFF (closed)	Battery voltage
GE.	V	, All door lock actuators	Output	OFF	OFF (neutral)		0V
65	V	(lock)	Output	OFF	ON (lock)		Battery voltage
		Front door lock actua-			OFF (neutral)		0V
66	G/Y	tor RH, rear door lock actuators LH/RH and back door lock actua- tor (unlock)	Output	OFF	ON (unlock)		Battery voltage
67	В	Ground	Input	ON	_		OV
	<u> </u>				Ignition switch ON		Battery voltage
68	W/L	Power window power supply (RAP)	Output	_	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	W/R	Power window power supply	Output	_	_		Battery voltage
70	W/B	Battery power supply	Input	OFF	_		Battery voltage

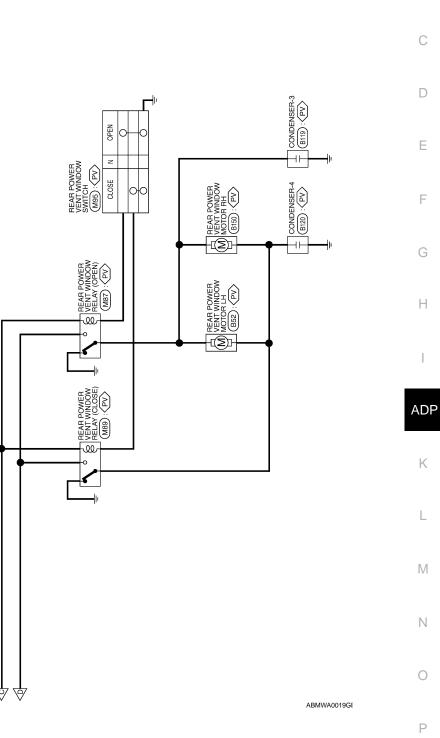
^{1:} With Intelligent Key system

^{2:} With remote keyless entry system





⟨PV⟩: WITH REAR POWER VENT WINDOWS



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BCM (BODY CONTROL MODULE) CONNECTORS

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

Connector No.). M19	
Connector Name		BCM (BODY CONTROL MODULE)
Connector Co	Color WHITE	ITE
Į.		
E SH	41 42 43	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55
Terminal No.	Color of Wire	Signal Name
41	ı	Ι
42	GR	GLASS HATCH SW
43	B/B	BACK DOOR SW
44	0	REAR WIPER AUTO STOP SW1
45	ı	I
46	_	_
47	SB	DOOR SW (DR)
48	R/Y	DOOR SW (RL)
49	В	LUGGAGE LAMP OUTPUT
50	-	_
51	G/Y	TRAILER FLASHER OUTPUT (RIGHT)
52	G/B	TRAILER FLASHER OUTPUT (LEFT)
53	-	-
54	>	REAR WIPER MOTOR OUTPUT 2
55	SB	REARR WIPER MOTOR OUTPUT 1

Signal Name	I	I	KEYLESS AND AUTO LIGHT SENSOR GND	KEYLESS TUNER POWER SUPPLY OUTPUT	KEYLESS TUNER SIGNAL	IMMOBILIZER ANTENNA SIGNAL (CLOCK)	ANTI-PINCH SERIAL LINK (RX,TX)	SECURITY INDICATOR OUTPUT	1	IMMOBILIZER ANTENNA SIGNAL(RX,TX)	REAR WIPER AUTO STOP SW2	AIR CON SW	BLOWER FAN SW	HAZARD SW	_	1	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	KEY SW	MS N9I	CAN-H	CAN-L
Color of Wire	1	1	۵	M/N	G/W	G	N/W	G/O	ı	BB	Y/L	W/R	L/R	M/B	1	ı	B/G	R/Υ	٦	O/B	B/W	B/B	M/L	Г	₫
Terminal No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	32	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	W/H8	KEY RING OUTPUT
2	SB	INPUT 5
3	G/Y	INPUT 4
4	Å	INPUT 3
2	G/B	INPUT 2
9	۸	INPUT 1
7	_	ı
8	-	I
6	GR/R	REAR DEFOGGER SW
10	В	IVCS INPUT
11	0	ACC SW
12	B/L	DOOR SW (AS)
13	В	DOOR SW (RR)
14	-	ı
15	MΠ	TPMS MODE TRIGGER SW

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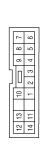
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MZ8	Connector Name COMBINATION SWITCH	MITE	
Connector No. IN	Connector Name C	Connector Color WHITE	



Signal Name	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	OUPUT 1	OUPUT 2	OUPUT 5	OUPUT 4	OUPUT 3	WASHER MOTOR	GND	WASHER MOTOR	NOI
Color of Wire	R/W	O/B	٦	R/Y	R/G	>	G/B	SB	G/Y	>	W/A	В	W/R	B/L
Terminal No.	1	2	3	4	5	9	7	8	6	10	11	12	13	14

M20	Connector Name BCM (BODY CONTROL MODULE)	BLACK		56 57 58 59 60 61 62 63 64	65 66 67 68 69 70
Connector No.	Connector Name	Connector Color BLACK	ą	1991	99





Terminal No.	Color of Wire	Signal Name
56	B/G	BATTERY SAVER OUTPUT
22	Y/R	BAT (FUSE)
58	W/R	AUTO LIGHT SENSOR INPUT 2
59	9	DOOR UNLOCK OUTPUT (DR)
09	G/B	FLASHER OUTPUT (LEFT)
61	G/Y	FLASHER OUTPUT (RIGHT)
62	W/H	STEP LAMP OUTPUT
63	٦	ROOM LAMP
64	_	_
65	^	DOOR LOCK OUTPUT (ALL)
99	G/Y	DOOR UNLOCK OUTPUT (OTHER)
29	В	GND (POWER)
68	W/L	POWER WINDOW POWER SUPPLY (RAP)
69	W/R	POWER WINDOW POWER SUPPLY (BAT)
70	M/B	BATT (F/L)

SYMPTOM DIAGNOSIS

ADP SYSTEM SYMPTOMS

Symptom Table

NOTE:

Always perform the "Basic Inspection" before performing diagnosis in the following table. Refer to <u>ADP-4</u>, "Work Flow".

SYMPTOM 1

Sympton	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding switch.	<u>ADP-45</u>
	Reclining operation	Check reclining switch.	ADP-47
	Lifting operation (front)	Check lifting switch (front).	ADP-49
Manual functions (for specific part) do not operate	Lifting operation (rear)	Check lifting switch (rear).	ADP-51
	Dodal an aration	Check pedal adjusting switch.	ADP-53
	Pedal operation	2. Check pedal adjusting sensor.	ADP-76
	Dear mirror energica	1. Changeover switch.	ADP-58
	Door mirror operation	2. Mirror switch	ADP-60
	All parts of seat	Check power seat switch ground circuit.	ADP-63

SYMPTOM 2

Symptom	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding sensor.	ADP-68
	Reclining operation	Check reclining sensor.	ADP-70
	Lifting operation (front)	Check lifting sensor (front).	ADP-72
Memory functions (for specific part) do not operate	Lifting operation (rear)	Check lifting sensor (rear).	ADP-74
	Pedal operation	Check pedal adjusting sensor.	ADP-76
	Door mirror operation	Check door mirror sensor.	Driver side: ADP-78 Passenger side: ADP-80

SYMPTOM 3

Sympton	າ	Diagnosis procedure	Reference page
	Sliding operation	Check sliding motor.	ADP-82
	Reclining operation	Check reclining motor.	ADP-84
Memory functions and manual functions (for specific part) do not operate	Lifting operation (front)	Check lifting motor (front).	ADP-86
	Lifting operation (rear)	Check lifting motor (rear).	ADP-88
	Pedal operation	Check pedal adjusting motor.	ADP-90
	Door mirror operation	Check door mirror motor.	ADP-92

SYMPTOM 4

ADP SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symptom	Diagnosis procedure	Reference page
	Check system setting.	<u>ADP-21</u>
Entry/Exit assist function does not operate.	2. Perform initialization.	ADP-22
	3. Check front door switch (driver side).	ADP-66
Intelligent Key interlock function does not operate.	Check door lock function.	DLK-23
(Other automatic operations and Intelligent Key system are normal)	2. Perform memory storing.	ADP-11

SYMPTOM 5

Symptom	Diagnosis procedure	Reference page
Memory indicators 1 and/or 2 do not illuminate.	Check seat memory switch.	ADP-56
memory indicators i and/or 2 do not indifinate.	2. Check seat memory indicator.	ADP-95

SYMPTOM 6

Symptom	Diagnosis procedure	Reference page
Memory operation does not operate.	Check A/T device (park position switch).	<u>ADP-64</u>

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NORMAL OPERATING CONDITION

NORMAL OPERATING CONDITION

Description INFOID:000000003709477

The following symptoms are normal operations, and they do not indicate a malfunction.

Symptom	Cause	Action to take	Reference page
	No initialization has been performed.	Perform initialization.	ADP-20
Entry/Exit assist function does not operate.	Entry/exit assist function is disabled. NOTE: The entry/exit assist function is disabled before delivery (initial setting).	Change the settings.	ADP-23
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function excution.	Perform the memory function.	<u>ADP-23</u>
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: <u>ADP-17</u>
			Exit assist function: <u>ADP-21</u>
			Entry assist function: <u>ADP-23</u>
			Intelligent Key interlock function: ADP-11

PRECAUTION

PRECAUTIONS

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

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 for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
 - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000003709481

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	SIIA0993E	Locating the noise
— (J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise

Commercial Service Tool

INFOID:0000000003709482

(Kent-Moore No.) Tool name		Description
(J-39565) Engine ear	SIIA0995E	Locating the noise

DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER SEAT CONTROL UNIT

Removal and Installation

The driver seat control unit is part of the driver seat. Remove the driver seat, then the driver seat control unit. Refer to <u>SE-51</u>, "Removal and Installation".

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

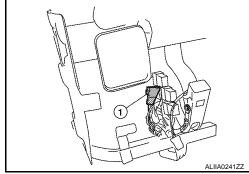
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Disconnect the battery negative terminal.
- 2. Remove the instrument driver lower panel. Refer to IP-11, "Removal and Installation".
- 3. Remove the screw from the automatic drive positioner control unit (1).
- 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 <u>ADP-7</u>, "Special Repair Requirement".

SEAT MEMORY SWITCH

< REMOVAL AND INSTALLATION >

SEAT MEMORY SWITCH

Removal and Installation

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Refer to INT-10, "Removal and Installation" for removal and installation of seat memory switch.

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DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

DOOR MIRROR REMOTE CONTROL SWITCH

Removal and Installation

INFOID:0000000004024119

The door mirror remote control switch is part of the power window switch assembly. Refer to INT-10, "Removal and Installation" for removal and installation of door mirror remote control switch.

PEDAL ADJUSTING MOTOR

< REMOVAL AND INSTALLATION >

PEDAL ADJUSTING MOTOR

Removal and Installation

INFOID:0000000004024120

Refer to <u>ACC-3, "Removal and Installation"</u> for accelerator pedal and <u>BR-18, "Removal and Installation"</u> for brake pedal when removing pedal adjusting motors.

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