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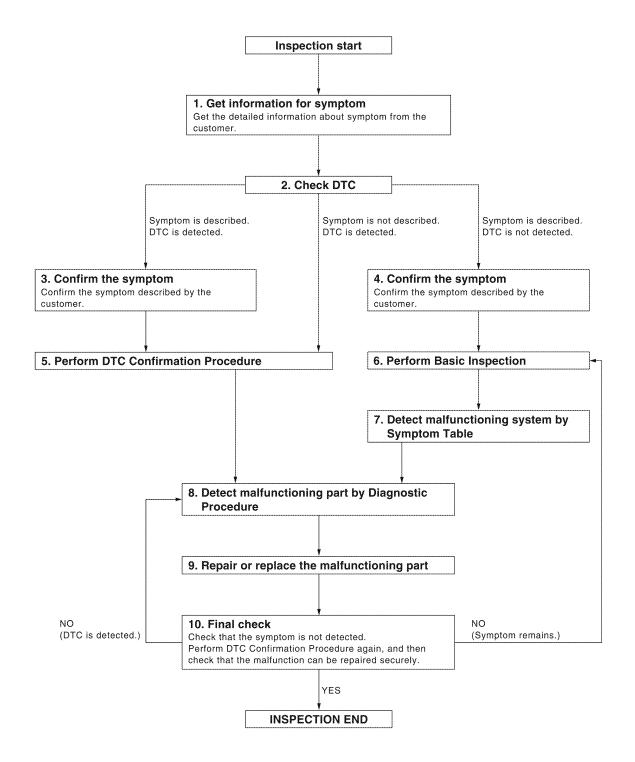
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

WORK FLOW



DIAGNOSIS AND REPAIR WORKFLOW < BASIC INSPECTION > $1.\mathsf{GET}$ 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-113, "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. Н 5. CHECK NORMAL OPERATING CONDITION Check normal operating condition. Refer to ADP-120, "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.

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

8. PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 9.

9. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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

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>> GO TO 10.

10. REPAIR OR REPLACE

Repair or replace the malfunctioning part.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 11.

11. FINAL CHECK

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

Are all malfunctions corrected?

YES >> INSPECTION END Symptom is detected.>> GO TO 4. DTC is detected.>> GO TO 7.

INSPECTION AND ADJUSTMENT < BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α **Preliminary Check** INFOID:0000000001710955 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-40, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure". Н Is the inspection result normal? YES >> Refer to ADP-113, "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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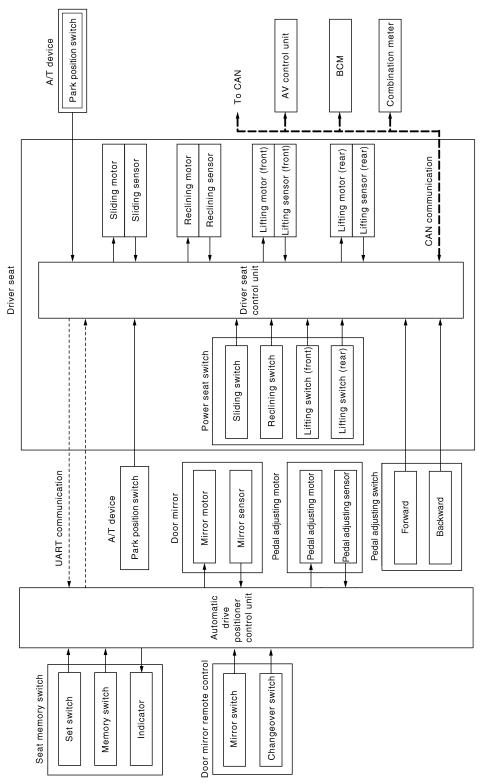
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FUNCTION DIAGNOSIS

AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram

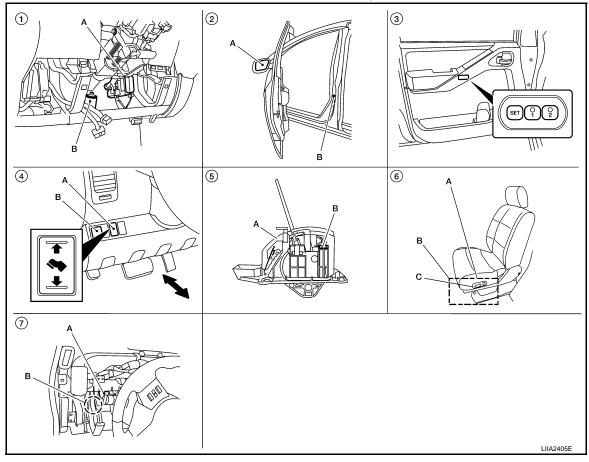
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< FUNCTION DIAGNOSIS >

AUTOMATIC DRIVE POSITIONER SYSTEM: Component Parts Location INFOID:000000001710958



- A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH
- A. Pedal adjusting switch M96 B. Door mirror remote control switch M159
- A. Door mirror LH D4. RH D107 B. Front door switch LH B8
 - A. A/T device B. A/T device (park position switch)
- Seat memory switch D5
- A. Sliding motor LH B204, 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 (front seat LH view)

- A. Automatic drive positioner control unit M33, M34
 - B. Circuit breaker-2 (view with instrument panel removed)

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.

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

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< FUNCTION DIAGNOSIS >

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

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000001710960

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.		
BCM	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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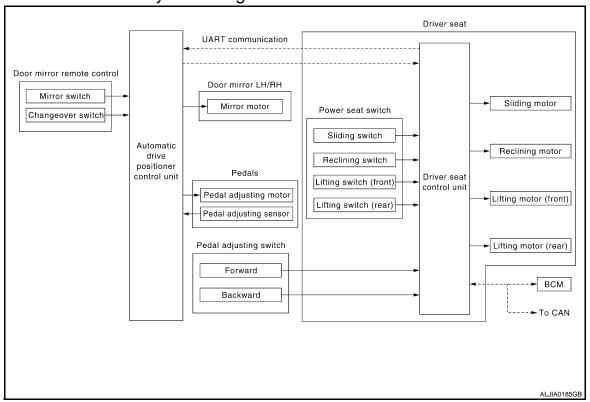
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< FUNCTION DIAGNOSIS >

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.

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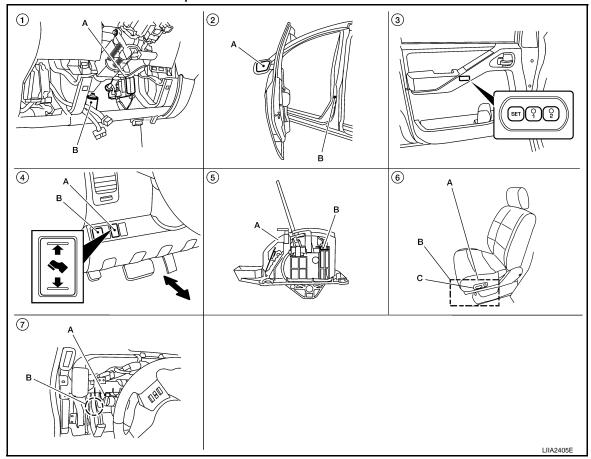
Door Mirror

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. BCM M18, M19, M20
 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH removed)
- A. Door mirror LH D4, RH D107 B. Front door switch LH B8
- 3. Seat memory switch D5

- A. Pedal adjusting switch M96
 B. Door mirror remote control switch
- A. A/T device
 B. A/T device (park position switch)
 M156
- A. Sliding motor LH B204, 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 (front seat LH view)

 A. Automatic drive positioner control unit M33, M34
 B. Circuit breaker-2 (view with instrument panel removed)

MANUAL FUNCTION: Component Description

INFOID:0000000001710964

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.	
BCM	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.

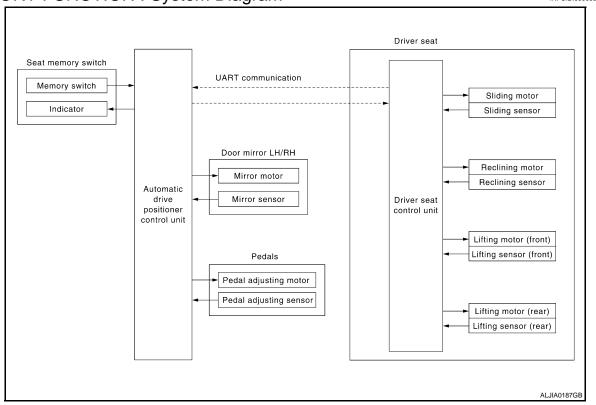
OUTPUT PARTS

< FUNCTION DIAGNOSIS >

Item	Function
Door mirror motor (LH/RH)	Move the outside mirror face upward/downward and leftward/rightward.
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

INFOID:0000000001710966

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.

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< 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

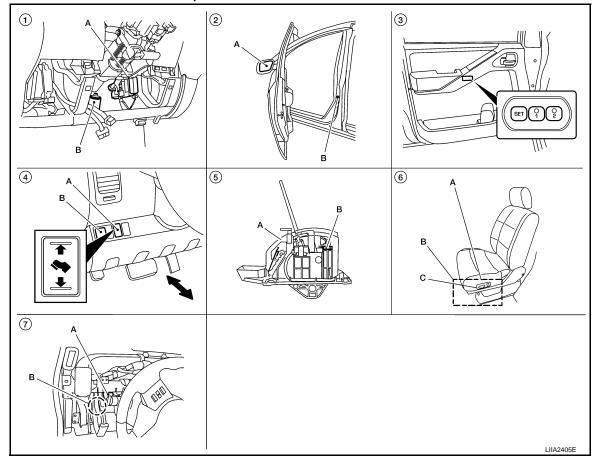
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- A. BCM M18, M19, M20 B. Pedal adjusting motor E109, E110 (view with lower instrument panel LH
- A. Pedal adjusting switch M96 B. Door mirror remote control switch M159
- A. Door mirror LH D4, RH D107 B. Front door switch LH B8
 - A. A/T selector lever B. A/T device (park position switch)
- Seat memory switch D5
- A. Sliding motor LH B204, 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 (front seat LH view)

A. Automatic drive positioner control unit M33, M34

B. Circuit breaker-2 (view with instrument panel removed)

MEMORY FUNCTION: Component Description

INFOID:0000000001710968

CONTROL UNITS

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

INPUT PARTS

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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.

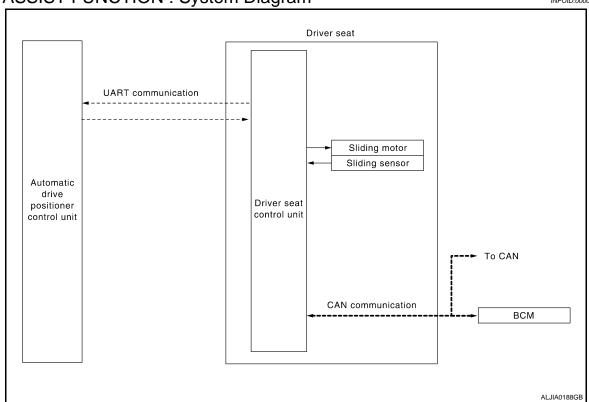
OUTPUT PARTS

Item	Function
Door mirror motor (LH/RH)	Move the outside mirror face upward/downward and leftward/rightward.
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

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< 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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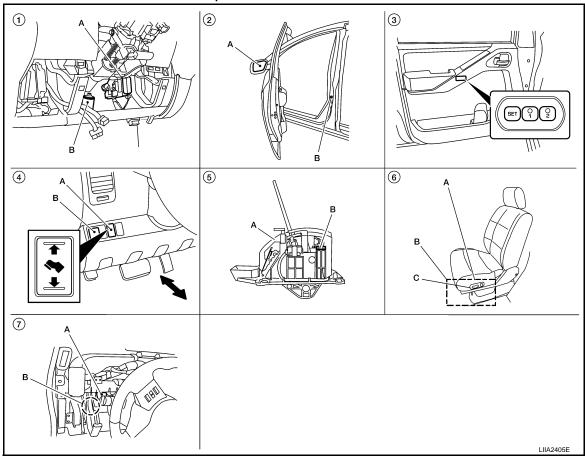
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< FUNCTION DIAGNOSIS >

EXIT ASSIST FUNCTION: Component Parts Location

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- A. BCM M18, M19, M20
 B. Pedal adjusting motor E109, E110
 (view with lower instrument panel LH removed)
- A. Pedal adjusting switch M96
 B. Door mirror remote control switch
 M159
- A. Door mirror LH D4, RH D107 B. Front door switch LH B8
- A. A/T selector lever
 B. A/T device (park position switch)
- 3. Seat memory switch D5

(front seat LH view)

 A. Sliding motor LH B204, 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. Automatic drive positioner control unit M33, M34
 B. Circuit breaker-2 (view with instrument panel removed)

EXIT ASSIST FUNCTION : Component Description

INFOID:0000000001710972

CONTROL UNITS

Item	Function
Driver seat control unit	Operates the seat sliding motor for a constant amount.
ВСМ	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

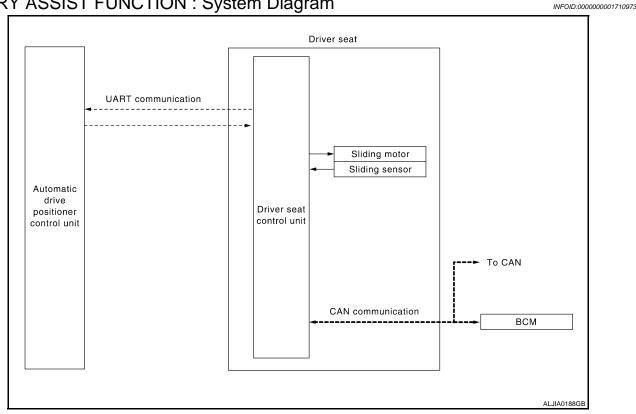
ltem	Function
Sliding sensor	Detect the front/rear position of seat.

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.

ADP-21

INFOID:0000000001710974

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< FUNCTION DIAGNOSIS >

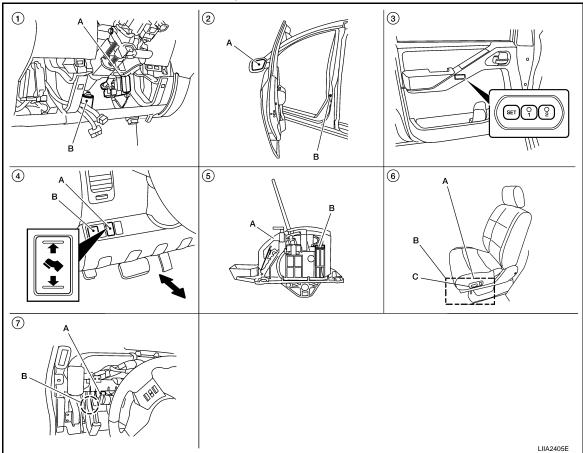
Item	Request status
Seat	The vehicle is not moved after performing the exit assist function.
Switch inputs Power seat switch Pedal adjusting switch Door mirror control switch Set switch Memory switch	OFF (Not operated)
A/T selector lever	P position

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.	
2	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:0000000001710975



< FUNCTION DIAGNOSIS >

- A. BCM M18, M19, M20
 B. Pedal adjusting motor E109, E110
 (view with lower instrument panel LH removed)
- A. Door mirror LH D4, RH D107 B. Front door switch LH B8
- 3. Seat memory switch D5
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- A. Pedal adjusting switch M96
 B. Door mirror remote control switch
- A. A/T selector lever
 B. A/T device (park position switch)
 M156
- A. Sliding motor LH B204, 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 (front seat LH view)

- 7. A. Automatic drive positioner control unit M33, M34
 - B. Circuit breaker-2 (view with instrument panel removed)

ENTRY ASSIST FUNCTION: Component Description

INFOID:0000000001710976

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.
ВСМ	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)

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:0000000001710977

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:0000000001710978

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-113</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	"V"	-	×	Voltage input from door mirror sensor (passenger side) left/right is displayed.
MIR/SEN LH U-D	"V"	-	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
PEDAL SEN	"V"	-	×	Pedal position (voltage) judged from the pedal adjusting sensor signal is displayed.

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

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

WORK SUPPORT

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

Work item	Content	Item
		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

U1000 CAN COMM CIRCUIT

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COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description NPFOID:000000001710979

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 <u>ADP-27</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

Refer to LAN-14, "Trouble Diagnosis Flow Chart".

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

DTC Logic

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 ADP-28, "Diagnosis Procedure".

NO >> INSPECTION END

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001710985

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-28, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-65, "Component Function Check" and ADP-79, "Component Function Check".

>> INSPECTION END

B2113 RECLINING MOTOR < COMPONENT DIAGNOSIS > **B2113 RECLINING MOTOR** Α Description INFOID:0000000001710986 The seat reclining motor is installed to the seatback frame. 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:0000000001710987 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 ADP-29, "Diagnosis Procedure". NO >> INSPECTION END NOTE: ADP First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure". Diagnosis Procedure INFOID:0000000001710988 K PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT-III. L Erase the DTC. Perform DTC confirmation procedure. Refer to ADP-29, "DTC Logic". Is the DTC displayed again? M YES >> GO TO 2 NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

Refer to ADP-67, "Component Function Check" and ADP-81, "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 seat cushion frame.
- The lifting motor (front) is activated with the driver seat control unit.
- Tilts the seat front up/down by changing the rotation direction of lifting motor (front).

DTC Logic (INFOID:000000001710990

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

NO >> INSPECTION END

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001710991

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT-III.
- 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-51, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-69, "Component Function Check" and ADP-83, "Component Function Check".

>> INSPECTION END

B2115 SEAT LIFTER RR

< COMPONENT DIAGNOSIS >

B2115 SEAT LIFTER RR

Description INFOID:000000001710992

- The lifting motor (rear) is installed to the seat cushion frame.
- 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

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2.STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-31, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

NOTE:

First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure".

Diagnosis Procedure

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-71, "Component Function Check" and ADP-85, "Component Function Check".

>> INSPECTION END

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B2117 ADJ PEDAL MOTOR

Description INFOID:0000000001710995

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

DTC Logic (INFOID:000000001710996

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2117	ADJ PEDAL SENSOR	When any manual or automatic operations are not performed, if motor operation is detected for 0.1 second or more, status is judged "Output error".	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 <u>ADP-32, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001710997

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 circuit is OK.

NO >> GO TO 3

B2117 ADJ PEDAL MOTOR

< COMPONENT DIAGNOSIS >

$\overline{\bf 3.}$ CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

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

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

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

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

Is the inspection result normal?

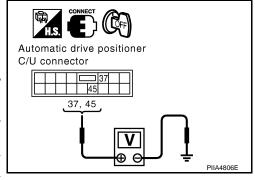
YES >> GO TO 4

NO >> Repair or replace harness.

f 4 . CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

Connec- Terr		inals	Condition	Voltage (V)
tor	(+)	(-)	Condition	(Approx.)
	37		Pedal adjusting switch ON (FORWARD operation)	Battery voltage
M34		Ground 45	Other than above	0
	45		Pedal adjusting switch ON (BACKWARD operation)	Battery voltage
			Other than above	0



Is the inspection result normal?

YES >> Replace pedal adjusting motor.

NO >> GO TO 5

$oldsymbol{5}$. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning part.

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Automatic drive positioner

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motor connector

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B2120 ADJ PEDAL SENSOR

< COMPONENT DIAGNOSIS >

B2120 ADJ PEDAL SENSOR

Description INFOID:0000000001710998

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

DTC Logic

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 <u>ADP-34, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001711000

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

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

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

Is the value normal?

YES >> Pedal adjusting circuit is OK.

NO >> GO TO 2

2.CHECK PEDAL ADJUSTING SENSOR CIRCUIT HARNESS CONTINUITY

B2120 ADJ PEDAL SENSOR

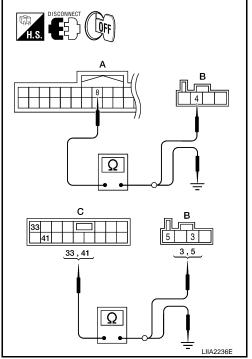
< COMPONENT DIAGNOSIS >

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

Connector	Terminal	Connector	Terminal	Continuity
A		В		Continuity
Automatic drive positioner control unit: M33	8		4	Yes
С		Pedal adjust- ing motor: E110		
Automatic drive positioner	33	ing motor. Erro	5	Yes
control unit: M34	41		3	Yes

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

Connector	Terminal		Continuity
А			Continuity
Automatic drive positioner control unit: M33	8	Ground	No
В			
Automatic drive positioner control	33		No
unit: M34	41		No



OK or NG

OK >> Replace pedal adjusting motor.

NG >> Repair or replace harness.

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B2126 DETENT SW

Description INFOID:000000001711001

• 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-36, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001711003

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

Is the status normal?

YES >> A/T device (park position switch) circuit is OK.

NO >> GO TO 3

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

B2126 DETENT SW

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect A/T device and driver seat control unit.
- 3. Check continuity between A/T device connector M203 terminal 6 and driver seat control unit connector B203 terminal 21.

4 - 21

: Continuity should exist.

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

4 - Ground

: Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PARK POSITION SWITCH

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

Term	inals	Condition	Continuity
2	4	P position	Yes
	2 4	Other than P position	No

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace A/T device. Refer to <u>TM-195, "Removal and Installation".</u>

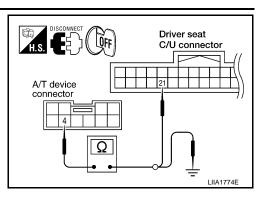
5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.



A/T device

A/T device

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B2128 UART COMMUNICATION LINE

< COMPONENT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description INFOID:000000001711004

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:000000001711005

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-38, "Diagnosis Procedure".

NO >> INSPECTION END

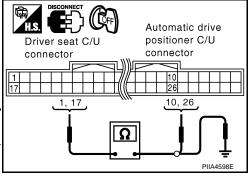
Diagnosis Procedure

INFOID:0000000001711006

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		INO	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-51, "Intermittent Incident".

NO >> Repair or replace harness.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000001711007

Refer to BCS-32, "Diagnosis Procedure".

BCM: Special Repair Requirement

INFOID:0000000001711008

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III Operation Manual.

>> Work end.

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT: Diagnosis Procedure

INFOID:0000000001711009

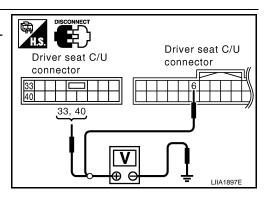
NOTE:

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

1. CHECK POWER SUPPLY CIRCUIT

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

	Terminals						
(+)	(+)		(+)		Power		Voltage (V)
Driver seat control unit connector	Terminal	(–)	source	Condition	(Approx.)		
B202	6	Ground	START power sup- ply	Ignition switch START	Battery		
Door	33	Ground	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 between driver seat control unit and fuse block (J/B).
- · Circuit breaker.

2. CHECK GROUND CIRCUIT

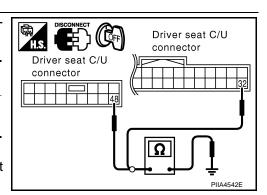
Check continuity between the driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal		Continuity
B202	32	Ground	Yes
B203	48		165

Is the inspection result normal?

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

NO >> Repair or replace harness.



POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

DRIVER SEAT CONTROL UNIT: Special Repair Requirement

INFOID:0000000001711010

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1. PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:0000000001711011

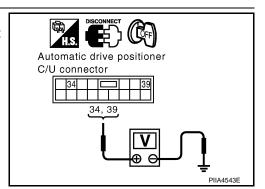
NOTE:

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

1. CHECK POWER SUPPLY CIRCUIT

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

Te				
(+)		Voltage (V)		
Automatic drive positioner control unit connector Terminal		(–)	(Approx.)	
M33	34	Ground	Battery voltage	
IVIOS	39	Ground	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
Maa	40	Ground	Yes
M33	48		res

Automatic drive positioner C/U connector 40, 48

Is the inspection result normal?

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

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Special Repair Requirement

INFOID:0000000017110

1. PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

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SLIDING SWITCH

Description INFOID:0000000001711013

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

Component Function Check

INFOID:0000000001711014

1. CHECK FUNCTION

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

Monitor item	Condition	Status	
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
SLIDE SW-FR	Silding Switch (lorward)	Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
SLIDE SW-KK	Siluling Switch (backward)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-42, "Diagnosis Procedure".

Diagnosis Procedure

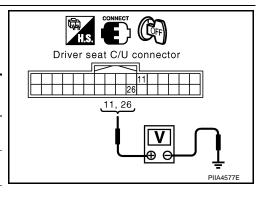
INFOID:0000000001711015

1. CHECK SLIDING SWITCH SIGNAL

1. Turn ignition switch ON.

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

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



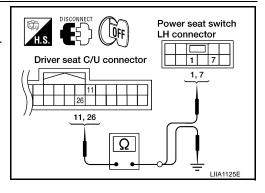
Is the inspection result normal?

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

2. CHECK SLIDING SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. 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	11	B208	7	Yes
BZOZ	26	D200	1	103



SLIDING SWITCH

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	0 1	Continuity	
B202	11	Ground	No	
B202	26		INO	

Is the inspection result normal?

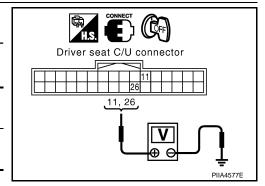
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

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



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK SLIDING SWITCH

Refer to ADP-43, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

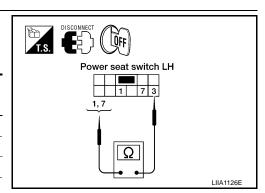
NO >> Repair or replace malfunctioning part.

Component Inspection

1. CHECK SLIDING SWITCH

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

Teri	minal	Condition		Continuity
Power sea	at switch LH			Continuity
	7	Sliding switch (backward)	Operate	Yes
3	,	Silding Switch (backward)	Release	No
1	Sliding switch (forward)	Operate	Yes	
	Silding Switch (lorward)	Release	No	



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.

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RECLINING SWITCH

Description INFOID:000000001711017

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

Component Function Check

INFOID:0000000001711018

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	
RECLIN SW-FR	Recilling 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 ADP-44, "Diagnosis Procedure".

Diagnosis Procedure

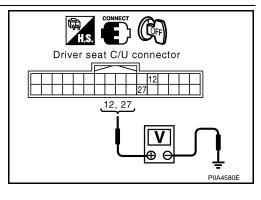
INFOID:0000000001711019

1. CHECK RECLINING SWITCH SIGNAL

1. Turn ignition switch ON.

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

Driver seat	Tern	ninals	Condition		Voltage (V)		
control unit connector	(+)	(-)			(Approx.)		
	12			Operate (forward)	0		
B202	Grou	Ground	Ground	Ground	Reclining	Release	Battery voltage
5202	27	Ground	switch	Operate (backward)	0		
				Release	Battery voltage		



Is the inspection result normal?

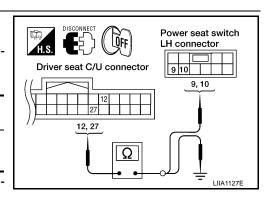
YES >> GO TO 5 NO >> GO TO 2

2. CHECK RECLINING SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and power seat switch LH.
- 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	12	B208	9	Yes
D202	27	D200	10	165

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



RECLINING SWITCH

< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal	Ground	Continuity
B202	12		No
	27		No

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Is the inspection result normal?

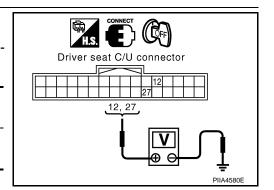
YES >> GO TO 3

NO >> Repair or replace harness.

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

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

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



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK RECLINING SWITCH

Refer to ADP-45, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK RECLINING SWITCH

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

Terr	ninals	Condition		Continuity
Power sea	at switch LH	Condition		Continuity
	9	Reclining switch	Operate	Yes
3	9	(backward)	Release	No
3	10	Reclining switch	Operate	Yes
10	10	(forward)	Release	No

Power seat switch LH 9 10 9, 10 LIIA1128E

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.

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LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description INFOID:000000001711021

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

Component Function Check

INFOID:0000000001711022

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-46, "Diagnosis Procedure"</u>.

Diagnosis Procedure

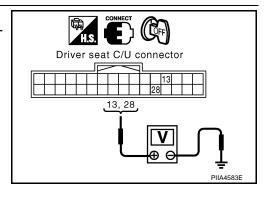
INFOID:0000000001711023

1. CHECK LIFTING SWITCH SIGNAL

1. Turn ignition switch ON.

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

Driver seat	Term	ninals	Co	Condition			
control unit connector	(+)	(-)	Co	Condition			
	13	Ground		3		Operate (down)	0V
B202	13		Lifting switch	Release	Battery voltage		
		(fro	(front)	Operate (up)	0V		
	28			Release	Battery voltage		



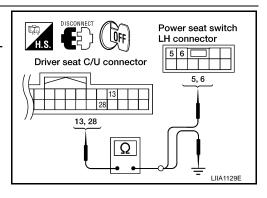
Is the inspection result normal?

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

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	13	B208	5	Yes
D202	28	B200	6	163



LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	01	Continuity	
B202	13	Ground	No	
D202	28		No	

Is the inspection result normal?

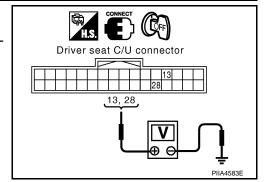
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit	Terminals		Voltage (V)	
connector	(+)	(-)	(Approx.)	
B202	13	Ground	Battery voltage	
D202	28 Ground		battery voltage	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK LIFTING SWITCH (FRONT)

Refer to ADP-47, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

Component Inspection

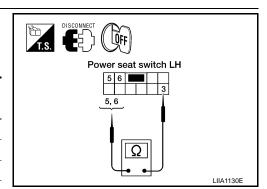
1. CHECK LIFTING SWITCH (FRONT)

1. Turn ignition switch OFF.

Disconnect power seat switch LH.

3. Check continuity between power seat switch LH terminals.

Terminal		Condition		Continuity
Power sea	t switch LH	Condition	Condition	
	5	Lifting switch front (down)	Operate	Yes
3			Release	No
6	Lifting switch front (up)	Operate	Yes	
		Release	No	



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.

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LIFTING SWITCH (REAR)

Description INFOID:000000001711025

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

Component Function Check

INFOID:0000000001711026

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 RR SW-UP	Litting Switch real (up)	Release	OFF
LIFT RR SW-DN	Lifting quitab roor (down)	Operate	ON
LIFT RR SW-DIN	Lifting switch rear (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-48, "Diagnosis Procedure".

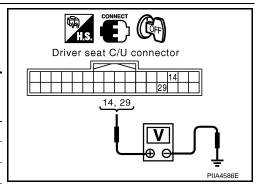
Diagnosis Procedure

INFOID:0000000001711027

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

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



Is the inspection result normal?

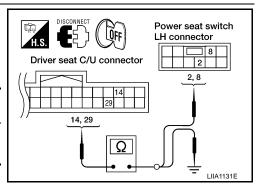
YES >> GO TO 5 NO >> GO TO 2

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and power seat switch LH.
- 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		B208	8	Yes
D202	29	D200	2	165

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



LIFTING SWITCH (REAR)

< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal		Continuity
B202	14	Ground	No
D2U2	29		INO

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Is the inspection result normal?

YES >> GO TO 3

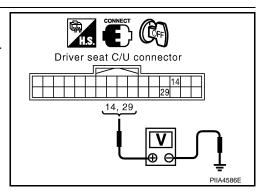
NO >> Repair or replace harness.

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

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

Driver seat control unit	Terminals		Voltage (V)	
connector	(+)	(–)	(Approx.)	
B202	02 Ground		Battery voltage	
D202	29	Glound	Battery voltage	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK LIFTING SWITCH (REAR)

Refer to ADP-49, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK LIFTING SWITCH (REAR)

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

Terminal Power seat switch LH		Condition		Continuity
				Continuity
	2	Lifting switch rear (up)	Operate	Yes
3	2		Release	No
3	8	Lifting switch rear (down)	Operate	Yes
0	Litting switch rear (down)	Release	No	

Power seat switch LH 2,8 LIIA1132E

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.

ADP-49

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PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SWITCH

Description INFOID:0000000001711029

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

Component Function Check

INFOID:0000000001711030

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-50. "Diagnosis Procedure"</u>.

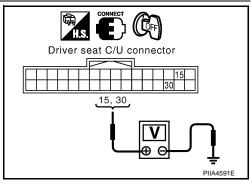
Diagnosis Procedure

INFOID:0000000001711031

1. CHECK PEDAL ADJUSTING SWITCH SIGNAL

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

Driver seat	Term	ninals	0	Condition				
control unit connector	(+)	(-)	Cond					
	15 Pedal ad-	45				45	Operate (backward)	0
B202		Ground		Release	Battery voltage			
5202	30			Operate (forward)	0			
				Release	Battery voltage			



Is the inspection result normal?

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

2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and pedal adjusting switch.
- 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
5202	30	IVI96	3	163

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

H.S. E	switch connector
Driver seat C/U connector	2 3
15, 30	2,3
	LIIA0726E

Podal adjusting

DISCONNECT

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

Is the inspection result normal?

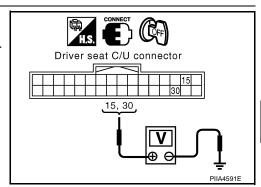
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

- 1. Connect the driver seat control unit.
- 2. Turn ignition switch ON.
- 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	
BZUZ	30		Dattery Voltage	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK PEDAL ADJUSTING SWITCH

Refer to ADP-52, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace pedal adjusting switch.

5. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

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

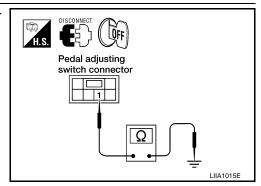
1 - Ground

: Continuity should exist.

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace or replace harness.



6. CHECK INTERMITTENT INCIDENT

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PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning part.

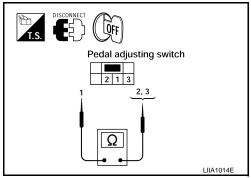
Component Inspection

INFOID:0000000001711032

1.CHECK PEDAL ADJUSTING SWITCH

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

	minal	- Condition		Continuity	
Pedal adju	usting switch				
	₂ Pe	2 Pedal adjusting switch (forward) Pedal adjusting switch (backward)	Operate	Yes	
1	2		(forward)	Release	No
'	3		Operate	Yes	
	3		Release	No	



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace pedal adjusting switch.

SEAT MEMORY SWITCH

< COMPONENT DIAGNOSIS >

SEAT MEMORY SWITCH

Description INFOID:0000000001711033

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

Component Function Check

INFOID:0000000001711034

1. CHECK FUNCTION

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

Monitor item	Condition		Status
MEMORY SW1	Marram switch d	Push	ON
WEWORT SWI	Memory switch 1	Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
WEWORT SWZ	Memory Switch 2	Release	OFF
SET SW	Set switch	Push	ON
		Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

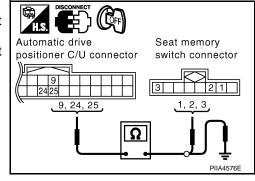
Diagnosis Procedure

INFOID:0000000001711035

1. CHECK MEMORY SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit and seat memory switch.
- 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	



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

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SEAT MEMORY SWITCH

< COMPONENT DIAGNOSIS >

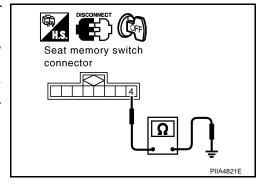
Check continuity between seat memory switch harness connector and ground.

Seat memory switch connector	Terminal	Ground	Continuity
D5	4		Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.



3. CHECK SEAT MEMORY SWITCH

Refer to ADP-54, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace seat memory switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning part.

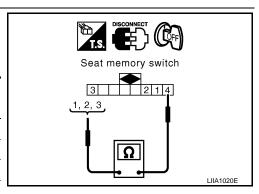
Component Inspection

INFOID:0000000001711036

1. CHECK SEAT MEMORY SWITCH

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

Terminal Seat memory switch		Condition		Continuity
	1	Memory switch 1	Push	Yes
	1			Release
4	2 Memory switch 2	Push	Yes	
7	2	Memory switch 2	Release	No
	3 Set switch	Push	Yes	
	3	GEL SWILLII	Release	No



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch.

< COMPONENT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

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CHANGEOVER SWITCH : Description

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:0000000001711038

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-24, "CONSULT-III Function".

Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to ADP-55, "CHANGEOVER SWITCH: Diagnosis Procedure".

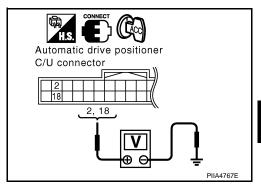
CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:0000000001711039

1. CHECK CHANGEOVER SWITCH SIGNAL

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

Te	erminals			
(+)			Change over switch Voltage	
Automatic drive positioner control unit connector	Terminal	(-)	condition	(Approx.)
	M33 Ground		RIGHT	0
M33		Other than above	5	
IVIOO	10	18	LEFT	0
	10		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.

- 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 re- mote control switch connector	Terminal	Continuity
	M33	2	M159	3	Yes
_	WISS	18	WITS	2	165

Door mirror remote control switch connector

Automatic drive positioner C/U connector

2,3

2,18

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

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< COMPONENT DIAGNOSIS >

Automatic drive positioner control unit connector	Terminal	_	Continuity
M33	2	Ground	No
	18		110

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

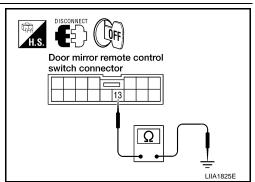
Check continuity between door mirror remote control switch connector and ground.

Door mirror remote control switch connector	Terminal	Ground	Continuity
M159	13		Yes

Is the inspection result normal?

YES >> GO TO 4

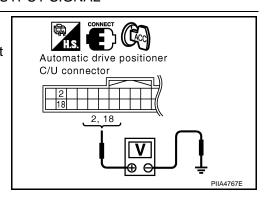
NO >> Repair or replace harness.



4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

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



Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic drive positioner control unit.

5. CHECK CHANGEOVER SWITCH

Check changeover switch.

Refer to ADP-56, "CHANGEOVER SWITCH: Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-51, "Intermittent Incident".

NO >> Replace door mirror remote control switch.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning parts.

CHANGEOVER SWITCH: Component Inspection

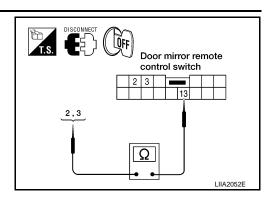
1. CHECK CHANGEOVER SWITCH

INFOID:0000000001711040

< COMPONENT DIAGNOSIS >

Check door mirror remote control switch.

Termin	Terminal Door mirror remote control switch		Continuity
Door mirror remote			
2	2	LEFT	Yes
2		Other than above	No
3	13	RIGHT	Yes
		Other than above	No



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

MIRROR SWITCH

MIRROR SWITCH: Description

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

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-24, "CONSULT-III Function".

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to ADP-57, "MIRROR SWITCH: Diagnosis Procedure".

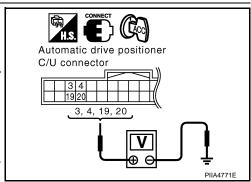
MIRROR SWITCH: Diagnosis Procedure

1. CHECK MIRROR SWITCH FUNCTION

1. Turn ignition switch ON.

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

Terminals			
(+)		Mirror switch	Voltage (V)
Terminal	(–)	Condition	(Approx.)
3		UP	0
	— Ground	Other than above	5
4		LEFT	0
4		Other than above	5
19		DOWN	0
		Other than above	5
20		RIGHT	0
		Other than above	5
	Terminal 3 4	Terminal (–) 3 4 Ground 19	Terminal (-) Mirror switch Condition 3 UP Other than above LEFT Other than above DOWN Other than above RIGHT



Is the inspection result normal?

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

2. CHECK HARNESS CONTINUITY

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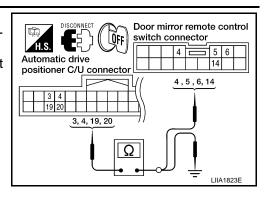
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< COMPONENT DIAGNOSIS >

- 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 remote control switch connector	Terminal	Continuity
M33	3	M159	6	Yes
	4		5	
	19		14	168
	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	Ground		
	4		No	
	19		No	
	20			

Is the inspection result normal?

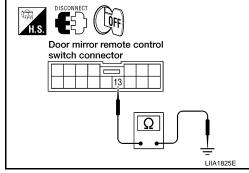
YES >> GO TO 3

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
M159	13		Yes



Is the inspection result normal?

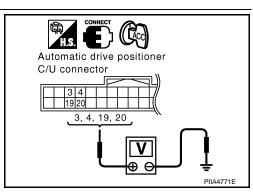
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

Te				
(+)	Voltage (V) (Approx.)			
Automatic drive positioner control unit connector	Terminal	(-)	(Approx.)	
	3			
M33	4	Ground	5	
10133	19			
	20			



Is the inspection result normal?

< COMPONENT DIAGNOSIS >

YES >> GO TO 5

NO >> Replace automatic drive positioner control unit.

5. CHECK MIRROR SWITCH

Check mirror switch.

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

Is the inspection result normal?

YES >> Refer to GI-51, "Intermittent Incident".

NO >> Replace door mirror remote control switch.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

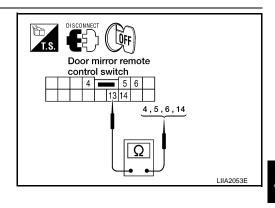
NO >> Repair or replace the malfunctioning parts.

MIRROR SWITCH: Component Inspection

1. CHECK MIRROR SWITCH

Check door mirror remote control switch.

Termir	nal			
Door mirror control s		Mirror switch condition	Continuity	
4		RIGHT	Yes	
4		Other than above	No	
5		LEFT	Yes	
5	13	Other than above	No	
6		UP	Yes	
O		Other than above	No	
14		DOWN	Yes	
14		Other than above	No	



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Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

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POWER SEAT SWITCH GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

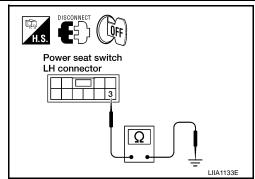
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch LH.
- 3. Check continuity between power seat switch LH connector and ground.

Power seat switch LH connector	Terminal	Ground	Continuity
B208	32		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-51, "Intermittent Incident"</u>.

NO >> Repair or replace harness.



INFOID:0000000001711045

DETENTION SWITCH

< COMPONENT DIAGNOSIS >

DETENTION SWITCH

Description INFOID:000000001711046

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

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-61, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK DTC WITH "BCM"

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

Is any other DTC detected?

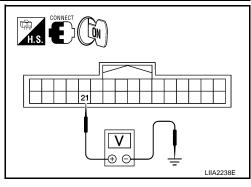
YES >> Check the DTC.

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	21	Ground	A/T selec-	P position	Battery volt- age
D 202	21	Glound	tor lever	Other than above	0V



Is the inspection result normal?

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

 $3.\,$ CHECK PARK POSITION SWITCH CIRCUIT

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DETENTION SWITCH

< COMPONENT DIAGNOSIS >

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

Driver seat cont	rol unit	A/T device		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B202	21	M156	4	Yes

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

H.S. DISCONNECT OFF	Driver seat C/U connector
A/T device connector	

A/T dev	rice		Continuity
Connector	Terminal		Continuity
Mi56	4	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

FRONT DOOR SWITCH (DRIVER SIDE)

Description INFOID:0000000001711049

Detects front door LH open/close condition.

Component Function Check

1. CHECK FUNCTION

- Select "DOOR SW-DR" in "Data monitor" mode with CONSULT-III.
- 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 SW-DK	FIGHT GOOF SWITCH LFI	Close	OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-63, "Diagnosis Procedure".

Diagnosis Procedure

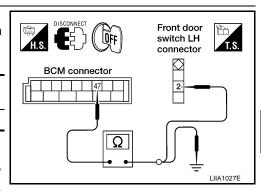
${f 1}$. CHECK FRONT DOOR SWITCH LH CIRCUIT

- Disconnect BCM.
- 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

Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M19	47	Orodria	No



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2 . CHECK FRONT DOOR SWITCH LH

Refer to ADP-63, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace front door switch LH.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-54, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK FRONT DOOR SWITCH LH

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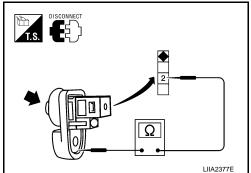
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FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- 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	
	door switch	LH	Released	Yes	



Is the inspection result normal?

YES >> INSPECTION END

>> Replace front door switch LH. NO

SLIDING SENSOR

< COMPONENT DIAGNOSIS >

SLIDING SENSOR

Description INFOID:000000001711053

- The sliding sensor is installed to the seat slide cushion frame.
- 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

1. CHECK FUNCTION

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

Monitor item	Condition		Valve
		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-65, "Diagnosis Procedure"</u>.

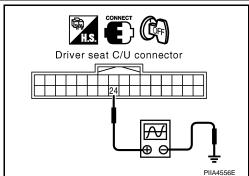
Diagnosis Procedure

1. CHECK SLIDING SENSOR SIGNAL

1. Turn ignition switch ON.

2. Read voltage signal between driver seat control unit harness connector and ground with osiloscope.

	Terminals				
(+	·)		Condition		
Driver's seat control unit	Termi- nal	(–)			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

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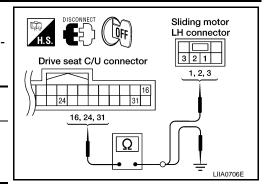
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SLIDING SENSOR

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. 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	24	B204	2	Yes
	31		1	



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

Driver seat control unit connector	Terminal		Continuity
	16	Ground	
B202	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 seat slide cushion frame).

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

RECLINING SENSOR

< COMPONENT DIAGNOSIS >

RECLINING SENSOR

Description INFOID:000000001711056

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-67</u>, "<u>Diagnosis Procedure</u>".

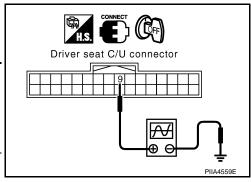
Diagnosis Procedure

1. CHECK RECLINING SENSOR SIGNAL

1. Turn ignition switch ON.

2. Read voltage signal between driver seat control unit harness connector and ground with oscilloscope.

Terminals		Terminals			
(+))		Condition		V 16
Driver seat con- trol unit	Termi- nal	(-)			Voltage signal
B202	9	Ground	Seat reclin- ing	Operate	(V) 6 4 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

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RECLINING SENSOR

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Reclining motor connector	Terminal	Continuity	
B202	9	B205	1	Yes	
D202	31	B205	2	163	

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

H.S. PISCONNECT OFF Reclining m LH connecte	
Drive seat C/U connector	
9 31	
9, 31 Ω	
=	LIIA0707E

Driver seat control unit connector	Terminal		Continuity
B202	9	Ground	No
	31		INO

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 seat slide cushion frame.)

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

LIFTING SENSOR (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description INFOID:0000000001711059

- The lifting sensor (front) is installed to the seat slide cushion frame.
- 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

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
		Operate (up)	Change (increase)
LIFT FR PULSE	FT FR PULSE Seat lifting (front)	Operate (down)	Change (decrease)
		Release	No change

Is the indication normal?

YES >> INSPECTION END

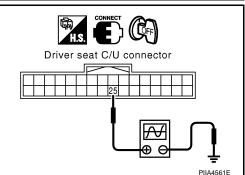
NO >> Perform diagnosis procedure. Refer to <u>ADP-69</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

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

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LIFTING SENSOR (FRONT)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Lifting motor (front) connector	Terminal	Continuity
	16		3	
B202	25	B206	2	Yes
	31		1	

Drive seat C/U connector

1, 2, 3

16, 25, 31

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Lilfting motor (front) connector

1, 2, 3

Lilflagrose

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

Driver seat control unit connector	Terminal		Continuity	
	16	Ground		
B202	25		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 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 seat slide cushion frame.)

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

LIFTING SENSOR (REAR)

< COMPONENT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description INFOID:0000000001711062

- The lifting sensor (rear) is installed to the seat slide cushion frame.
- 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

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	T 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-71, "Diagnosis Procedure"</u>.

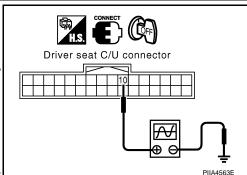
Diagnosis Procedure

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 signal		Voltage signal
B202	10	Ground	Seat lifting (rear)	Oper- ate	(V) 6 4 4 2 0 + +50ms SIIA0693J		
				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

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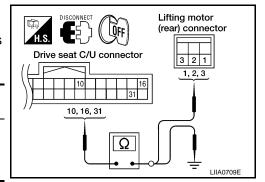
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LIFTING SENSOR (REAR)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Lifting motor (rear) connector	Terminal	Continuity
	10		2	
B202	16	B207	3	Yes
	31		1	



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

Driver seat control unit connector	Terminal		Continuity	
	10	Ground		
B202	16		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 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 seat slide cushion frame.)

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

PEDAL ADJUSTING SENSOR

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SENSOR

Description INFOID:0000000001711065

- The pedal adjusting sensor is installed to the pedal 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:0000000001711066

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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	Podal position	Forward	0.5V
	Pedal position	Backward	4.5V

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-73, "Diagnosis Procedure"</u>.

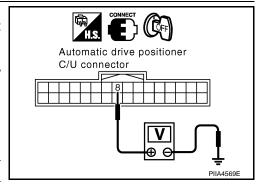
Diagnosis Procedure

INFOID:0000000001711067

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

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

Terminal						
(+)			• ""		Voltage (V)	
Automatic drive position- er control unit	Terminal	(-)	Condition		(Approx.)	
NA00	•	01	Pedal as-	Forward	0.5	
M33 8	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

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PEDAL ADJUSTING SENSOR

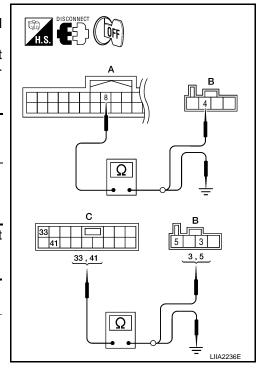
< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconect automatic drive positioner control unit and pedal adjusting motor.
- Check continuity between automatic drive positioner control unit harnnes connector and pedal adjusting motor harness connector

Automatic drive positioner control unit connector	Terminal	Pedal adjusting motor connector	Terminal	Continuity
M33 (A)	8		4	
M24 (C)	33	E110 (B)	3	Yes
M34 (C)	41		5	

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

_				
_	Automatic drive positioner control unit connector	Terminal		Continuity
	M33	8	Ground	
	M34	33		No
	WI54	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 connector and pedal adjusting motor connector.
- 2. Turn ignition switch ON.
- 3. Check door mirror operation with memory function.

Is the operation normal?

YES >> Replace pedal adjusting motor.

NO >> Replace automatic drive positioner control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

< COMPONENT DIAGNOSIS >

MIRROR SENSOR DRIVER SIDE

DRIVER SIDE: Description

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- 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:0000000001711069

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	Cor	Value	
MIR/SEN LH U-D		Close to peak	3.4V
	- Door mirror LH	Close to valley	0.6V
MIR/SEN LH R-L		Close to right edge	3.4V
		Close to left edge	0.6V

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-75, "DRIVER SIDE : Diagnosis Procedure"</u>.

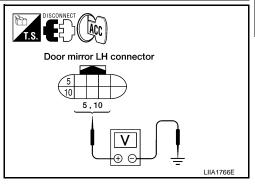
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000001711070

1. CHECK DOOR MIRROR LH SENSOR SIGNAL

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

Terminals					
(+)				Condition	Voltage (V) (Approx.)
Door mirror LH connector	Terminal	(–)	Condition		
	10			Close to peak	3.4
D4	10	Ground	Door mirror LH	Close to valley	0.6
	5	Ground		Close to right edge	3.4
				Close to left edge	0.6



Is the inspection result normal?

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

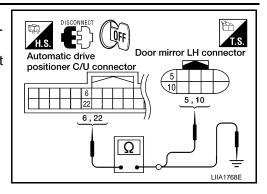
$2.\,$ CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

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< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 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	10	Yes
IVIOO	22	D4	5	163



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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

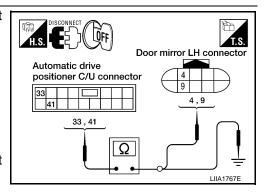
${f 3.}$ CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

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

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M34	33	D4	4	Yes
IVI34	41	04	9	165

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

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



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

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

Is the operation normal?

YES >> Replace door mirror sensor. (Built in door mirror LH.)

NO >> Replace automatic drive positioner control unit.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

< COMPONENT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE: Description

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- 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:0000000001711072

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		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-77, "PASSENGER SIDE : Diagnosis Procedure"</u>.

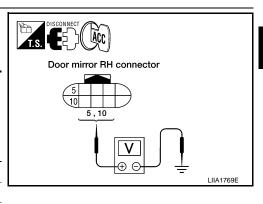
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000001711073

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

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

	Terminals												
(+	(+)				Voltage (V)								
Door mirror RH con- nector	Terminal	(–)	Condition		(Approx.)								
	10			Close to peak	3.4								
D107	10	Cround	Cround	Cround	Cround	Cround	Cround	Ground	Cround	Cround Door mirror	Door mirror	Close to valley	0.6
D101	5	Giodila	RH	Close to right edge	3.4								
				Close to left edge	0.6								



Is the inspection result normal?

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

2. CHECK DOOR MIRROR RH SENSOR HARNESS CONTINUITY

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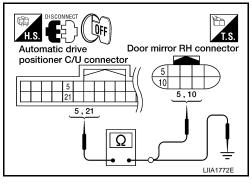
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< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 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	10	Yes
IVIOO	21	5107	5	res



4. 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
IVIOS	21		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

${f 3.}$ CHECK DOOR MIRROR RH SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive posi- tioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M34	33	D107	4	Yes
10134	41	D107	9	res

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

H.S. PISCONNECT OFF	T.S.
Automatic drive positioner C/U connect	Door mirror RH connector
33,41	LIIA1771E

Automatic drive positioner control unit connector	Terminal		Continuity
M34	33	Ground	No
10104	41		NO

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

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

Is the operation normal?

YES >> Replace door mirror sensor. (Built in door mirror RH.)

NO >> Replace automatic drive positioner control unit.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

SLIDING MOTOR

< COMPONENT DIAGNOSIS >

SLIDING MOTOR

Description INFOID:0000000001711074

- The sliding motor LH is installed to the seat cushion frame.
- 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

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

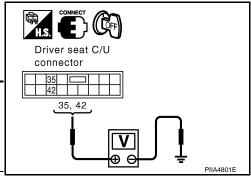
NO >> Perform diagnosis procedure. Refer to <u>ADP-79</u>. "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK SLIDING MOTOR LH POWER SUPPLY

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

	Terminal				
(+)	(+)		_	Voltage (\	
Driver seat control unit connector	Terminal	(-)	Test Item		(Approx.)
	35			OFF	0
		Ground	und SEAT SLIDE	FR (forward)	Battery voltage
B203				RR (backward)	0
D203				OFF	0
	42			FR (forward)	0
				RR (backward)	Battery voltage
1 41 1		1.	_		



Is the inspection result normal?

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

NO >> GO TO 2

2. CHECK SLIDING MOTOR LH CIRCUIT

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SLIDING MOTOR

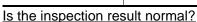
< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Sliding motor LH connector	Terminal	Continuity
B203	35	B204	6	Yes
	42	B20 4	4	163

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

Driver seat control unit connector	Terminal	_	Continuity
B203	35	Ground	No
	42		NO



YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

RECLINING MOTOR

< COMPONENT DIAGNOSIS >

RECLINING MOTOR

Description INFOID:000000001711077

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

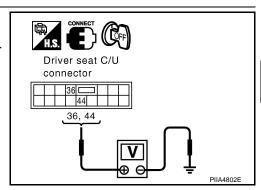
NO >> Perform diagnosis procedure. Refer to <u>ADP-81, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK RECLINING MOTOR LH POWER SUPPLY

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

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



Is the inspection result normal?

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

NO >> GO TO 2

2. CHECK RECLINING MOTOR LH CIRCUIT

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RECLINING MOTOR

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Reclining motor LH connector	Terminal	Continuity
B203	36	B205	4	Yes
	44	B205	3	163

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

	Driver seat C/U connector	Reclining motor LH connector	
-	36, 44	3, 4	
1	Ω		
-			LIIA0697E

Driver seat control unit connector	Terminal	Ground	Continuity
B203	36		No
B203	44		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description INFOID:000000001711080

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

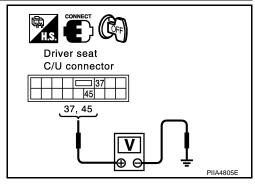
NO >> Perform diagnosis procedure. Refer to <u>ADP-83, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

Terminal							
(+)					Voltage (V)		
Driver seat control unit connector	Terminal	(-)	Test Item		(Approx.)		
					OFF	0	
	37			UP	0		
B203		Ground	SEAT LIFTER	DWN (down)	Battery voltage		
D203		Giouria	Giodila	Giodila	FR	OFF	0
	45			UP	Battery voltage		
				DWN (down)	0		
la tha inana	. (!	10					



Is the inspection result normal?

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

NO >> GO TO 2

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

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LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Lifting motor (front) connector	Terminal	Continuity
B203	203 B206		6	Yes
B203	45	B200	4	163

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

Driver seat C/U connector 37 45 37, 45	Lifting motor (front) connector
	LIIA0698E

Driver seat control unit connector	Terminal	0	Continuity	
D202	37	Ground	No	
B203	45	-	INO	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

LIFTING MOTOR (REAR)

< COMPONENT DIAGNOSIS >

LIFTING MOTOR (REAR)

Description INFOID:000000001711083

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

Component Function Check

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

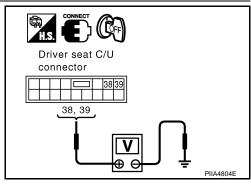
NO >> Perform diagnosis procedure. Refer to <u>ADP-85, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

Terminal						
(+)	(+)				Voltage (V)	
Driver seat control unit connector	Terminal	(-)	Test Item		(Approx.)	
					OFF	0
	38			UP	Battery voltage	
B203		Ground	ound SEAT RR	DWN (down)	0	
D203	Giou	Giodila		OFF	0	
	39			UP	Battery voltage	
				DWN (down)	Battery voltage	
La dia a la ancia	14					



Is the inspection result normal?

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

NO >> GO TO 2

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

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LIFTING MOTOR (REAR)

Lifting

Driver seat C/U connector

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motor (rear)

connector

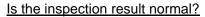
< COMPONENT DIAGNOSIS >

- Disconnect driver seat control unit connector 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	38	B207	6	Yes
D203	39	B207	4	165

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

· ·			
Driver seat control unit connector	Terminal		Continuity
B203	38	Ground	No
B203	39		INO



YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING MOTOR

Description

- The pedal adjusting motor is installed to the pedal 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

1. CHECK FUNCTION

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

Test ite	em	Description	on
	OFF		Stop
ADJ PEDAL MOTOR	FR	Pedal adjusting motor	Forward
	RR		Backward

Is the operation of relevant parts normal?

YES >> INSPECTION END

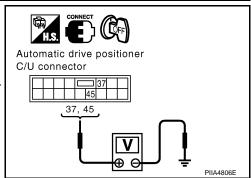
NO >> Perform diagnosis procedure. Refer to ADP-87, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK PEDAL ADJUSTING MOTOR POWER SUPPLY

- 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									
(+))		Test Item							
Automatic drive posi- tioner con- trol unit connector	Terminal	(-)			Voltage (V) (Approx.)					
					(Fround		OFF	0		
	37	(Fround	Ground	Ground					RR (backward)	0
M34						, ADJ PED-	FR (forward)	Battery voltage		
IVIO4						AL MOTOR	OFF	0		
	45				RR (backward)	Battery voltage				
				FR (forward)	0					



Is the inspection result normal?

YES >> Replace pedal adjusting motor.

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING MOTOR CIRCUIT

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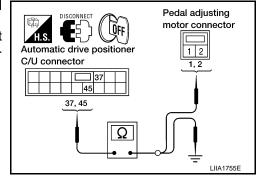
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PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

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

Automatic drive positioner control unit connector	Terminal	Pedal adjusting motor connector	Terminal	Continuity
M34 (A)	37	E109 (B)	1	Yes
WI34 (A)	45	L109 (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
1VIO4 (A)	45		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

DOOR MIRROR MOTOR

Description INFOID:000000001711089

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

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-24, "CONSULT-III Function".

Is the inspection result normal?

YES >> Door mirror motor function is OK.

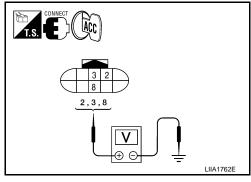
NO >> Refer to <u>ADP-89</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

- 1. 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.)
	3		UP	Battery voltage
	3		Other than above	0
D4 (LH)	2	Ground	LEFT	Battery voltage
D107 (RH)	2	Oround	Other than above	0
	8		DOWN / RIGHT	Battery voltage
	0		Other than above	0



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Is the inspection result normal?

YES >> Refer to ADP-91, "Component Inspection".

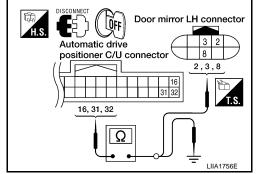
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

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

Door mirror LH

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
	16		8	
M33	31	D4	3	Yes
	32		2	



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DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

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

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	1	No
	30	1	

Is the inspection result normal?

YES >> GO TO 3

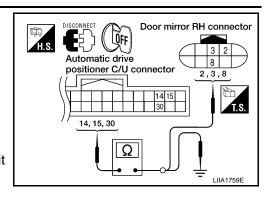
NO >> Repair or replace harness.

3. Check automatic drive positioner control unit output signal

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

Door mirror LH

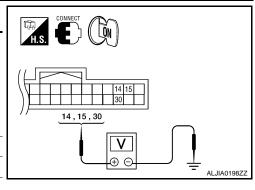
Terminals				
(+)			Mirror switch	Voltage (V)
Automatic drive positioner control unit connector	Terminal	(-)	condition	(Approx.)
	16	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
M33	31		UP	Battery voltage
IVIOO			Other than above	0
	32		LEFT	Battery voltage
			Other than above	0
	_		_	



DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

Door mirror RI	H			
Terminals				
(+)				
Automatic drive positioner con- trol unit connec- tor	Terminal	(-)	Mirror switch con- dition	Voltage (V) (Approx.)
	14		UP	Battery voltage
	14		Other than above	0
M33	15	Ground	LEFT	Battery voltage
IVISS	IVI33 15	Glound	Other than above	0
	00		DOWN / RIGHT	Battery voltage
	30		Other than above	0
la 4la a imama a4i a	سر می کار رم میر می	10		



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace automatic drive positioner control unit.

4. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-91, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-51, "Intermittent Incident".

NO >> Replace door mirror. Refer to MIR-13, "Door Mirror Assembly".

Component Inspection

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-13, "Door Mirror Assembly".

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace door mirror.Refer to MIR-13, "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	Term	ninal	Operational direction	
Door militor connector	(+)	(-)	Operational direction	
	8	2	RIGHT	
D4 (LH) D107 (RH)	2	8	LEFT	
	3	8	UP	
	8	3	DOWN	

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace door mirror. Refer to MIR-13, "Door Mirror Assembly".

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SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

SEAT MEMORY INDICATOR LAMP

Description INFOID:0000000001711093

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

• The status of automatic drive positioner system can be checked according to the illuminating/flashing status.

Component Function Check

INFOID:0000000001711094

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-92, "Diagnosis Procedure"</u>.

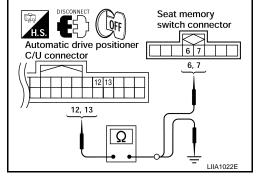
Diagnosis Procedure

INFOID:0000000001711095

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
IVIOS	13	D3	7	162



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

Automatic drive position- er connector	Terminal		Continuity	
M33	12	Ground	No	
WISS	13		NO	

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK MEMORY INDICATOR POWER SUPPLY

SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

Check voltage between seat memory switch harness connector and ground.

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

Seat memory switch connector

Is the inspection result normal?

>> GO TO 3 YES

NO >> Check the following.

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

3. CHECK MEMORY INDICATOR

Refer to ADP-93, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace seat memory switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-51, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

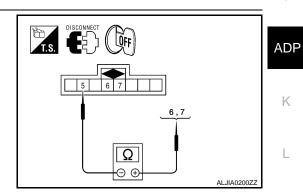
NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK SEAT MEMORY INDICATOR

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

Terr			
Seat men	Continuity		
(+)	(-)	1	
6	5	Yes	
7	3	163	



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch. K

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ECU DIAGNOSIS

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

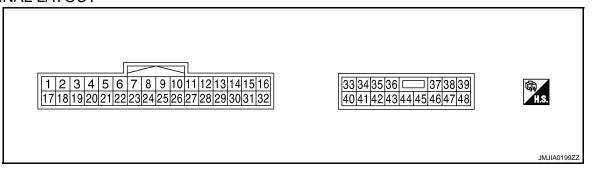
CONSULT-III MONITOR ITEM

Monitor Item	Condition		Value/Status
CET CW	Cot owitch	Push	ON
SET SW	Set switch	Release	OFF
145140DV 0VV		Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY OWO		Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
0.15= 0.17=5	200	Operate	ON
SLIDE SW-FR	Sliding switch (front)	Release	OFF
01105 014 00	0	Operate	ON
SLIDE SW-RR	Sliding switch (rear)	Release	OFF
		Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
		Operate	ON
RECLN SW-RR	Reclining switch (rear)	Release	OFF
		Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
		Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
		Up	ON
MIR CON SW-UP	Mirror switch	Other than above	OFF
		Down	ON
MIR CON SW-DN	Mirror switch	Other than above	OFF
		Right	ON
MIR CON SW-RH	Mirror switch	Other than above	OFF
		Left	ON
MIR CON SW-LH	Mirror switch	Other than above	OFF
MD 01112 011 -	Q1	Right	ON
MIR CHNG SW-R	Changeover switch	Other than above	OFF
MID OUNO OW	01	Left	ON
MIR CHNG SW-L	Changeover switch	Other than above	OFF
DED 41 014 ==	B. I. I. I. I. I.	Forward	ON
PEDAL SW-FR	Pedal adjusting switch	Other than above	OFF
DEDAL OW SS	B. D. B.	Backward	ON
PEDAL SW-RR	Pedal adjusting switch	Other than above	OFF

< ECU DIAGNOSIS >

Monitor Item	Condit	ion	Value/Status
DETENT SW	AT selector lever	P position	OFF
DETENT SW	At selector level	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
MID/CEN DILLI D	Door mirror (naccon ror cido)	Close to peak	3.4
MIR/SEN RH U-D	Door mirror (passenger side)	Close to valley	0.6
MID/OFN DIL D	Di(id-)	Close to left edge	3.4
MIR/SEN RH R-L	Door mirror (passenger side)	Close to right edge	0.6
MID/CENTILL D	Door mirror (driver side)	Close to peak	3.4
MIR/SEN LH U-D	Door mirror (driver side)	Close to valley	0.6
MID/OFN LL D	Door mirror (dairea aida)	Close to left edge	0.6
MIR/SEN LH R-L	Door mirror (driver side)	Close to right edge	3.4
DEDAL CEN	De del mesition	Forward	0.5
PEDAL SEN	Pedal position	Backward	4.5

TERMINAL LAYOUT



PHYSICAL VALUES

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

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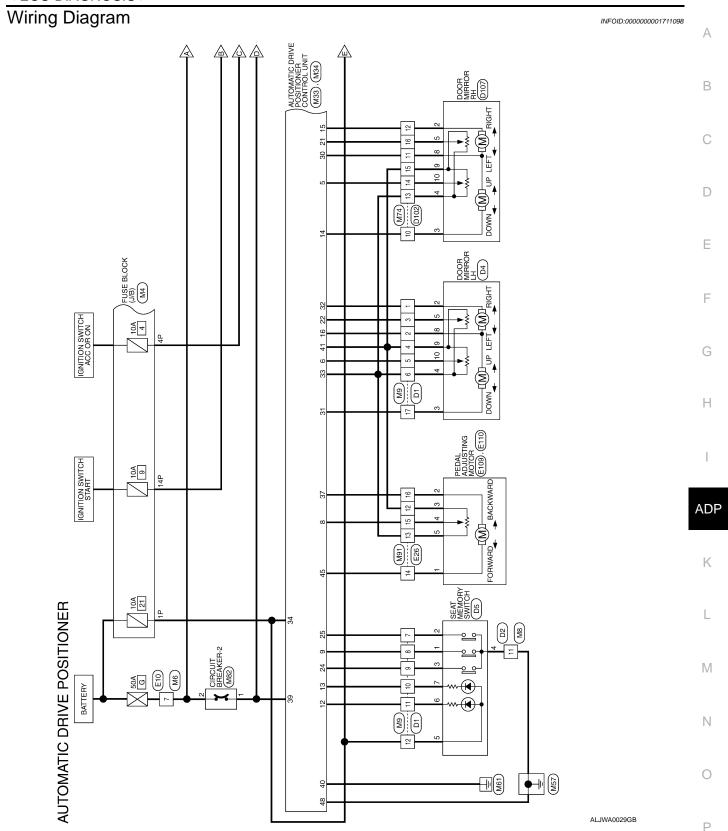
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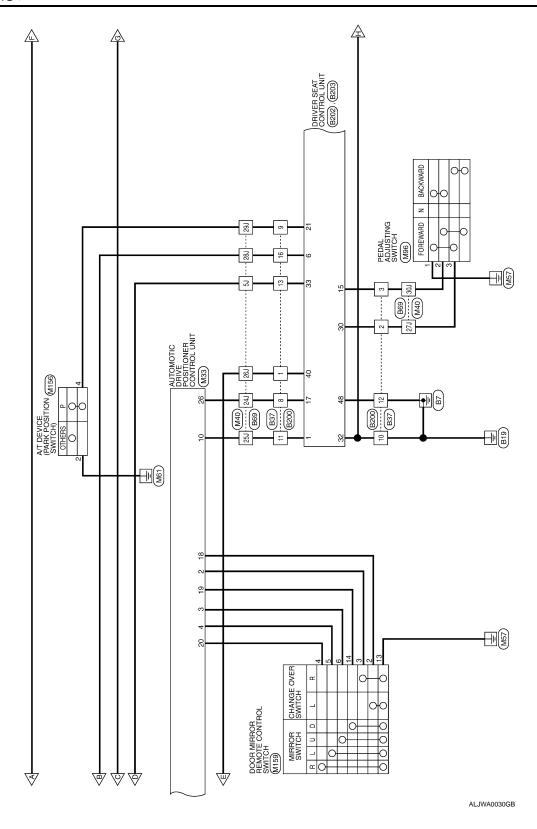
< ECU DIAGNOSIS >

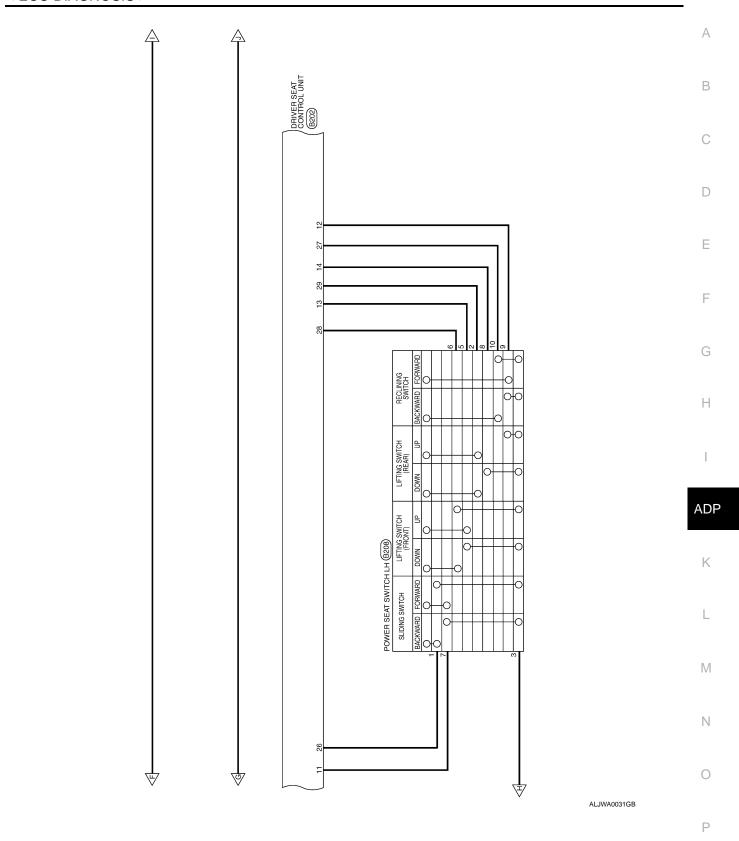
Term	ninal No.	14.5	Description				V 16 0.0
+	-	Wire color	Signal name	Input/ Output	Condition	า	Voltage (V) (Approx)
17	Ground	R/W	UART LINE (TX)	Output	Ignition switch ON		(V) 6 4 2 0 2 ms
19	_	Р	CAN-L	_	_		_
			A/T device (park posi-			P position	0
21	Ground	L	tion switch)	Input	A/T selector lever	Except P position	Battery voltage
24	Ground	Y/G	Sliding sensor signal	Input	Seat sliding	Operate	(V) 6 4 2 0 50 ms
						Stop	0 or 5
25	Ground	LG	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	(V) 6 4 2 0 **50ms
						Stop	0 or 5
26	Ground	P/B	Sliding switch forward	Input	Sliding switch	Operate (forward)	0
			signal			Release	Battery voltage
27	Ground	G/B	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
						Release	Battery voltage
28	Ground	Y/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
			3		(-	Release	Battery voltage
29	Ground	R/W	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
			-		. ,	Release	Battery voltage
30	Ground	L/W	Pedal switch forward signal	Input	Pedal switch Operate (forward)		0
	_				Release		Battery voltage
31	Ground	L/Y	Sensor ground		_		0
32	Ground	В	Ground (signal)		_		0
33	Ground	W/L	Battery power source (C/B)	Input	_		Battery voltage

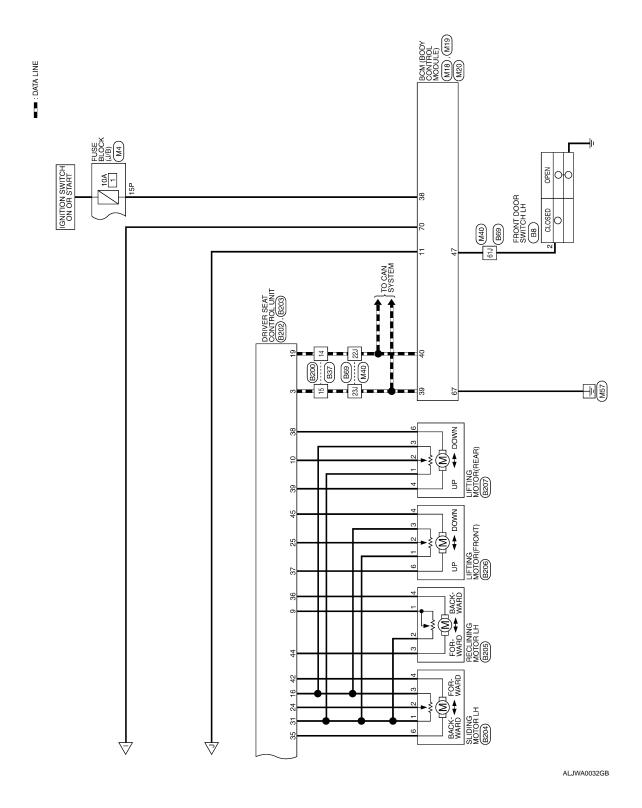
< ECU DIAGNOSIS >

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









Connector No. M8

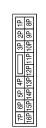
Connector No. M6
Connector Name WIRE TO WIRE

Connector Color WHITE

AUTOMATIC DRIVE POSITIONER CONNECTORS

Connector Name FUSE BLOCK (J/B)	
Connector Name FUSE BLO	
	OCK (J/B)
Connector Color WHITE	





Signal Name	-	1	1	I
Color of Wire	B/B	G/B	0	W/R
Terminal No.	1P	4b	14P	15P

_					
	E TO WIRE	Ш	2 3 mm 4 5 6 7 9 10 11 12 13 14 15 16	Signal Name	-
	ıme WIRE	lor WHITE	8 9 10 11	Color of Wire	В
	Connector Name WIRE TO WIRE	Connector Color	所 H.S.	Terminal No.	11

Signal Name	ı
Color of Wire	Μ
Terminal No.	7

Connector No.	M18
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE
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1		_	1					
	19 20	39 40						
	18	38						
	17	37						
		36		ω				
	15 16	35		Ĭ.	≥	>	_	١.
	4	34		Signal Name	ACC SW	IGN SW	CAN-H	CAN-L
	13	33		nal	ဗြ	Z.	Z	l≾
117	12	32		Sig	⋖	=		ľ
IV.	11	31		0,				
11	10	30						
	6	29		—				
	8	28		e .	اھ	æ		
	7	26 27		응 ※	g/B	W/R	_	₾
	9			Ŏ,				
	5	1 25		9				
	4	3 24		<u>=</u>				
ဟ	2 3	2 23		Ë	ΙΞ.	38	39	9
语 H.S.	5	21 22		Terminal No. Wire				
	تـــا	2		Ĕ				

Signal Name	ı	ı	ı	I	ı	ı	I	I	I	ı	ı	I	ı
Color of Wire	В	0	ŋ	>	_	>	Ь	P.C	GR	>	>	ш	ш
Terminal No.	-	2	က	4	5	9	7	80	6	10	#	12	17

nector No.	2	١.,		6W	_							
nector Name WIRE TO WIRE	Na	Ĕ	(1)	⋝	胐	Ĕ	lõ	₹	쁘			
nector Color WHITE	ပြိ	ō		≶	≒	ш						
					1				_			
•	L	١	١	ī					J	l	l	
Ú	-	2	က	4	2	9	7	8	6	9 10 11 12	Ξ	12
ģ	13	13 14 15 16 17 18 19 20 21 22 23 24	15	16	17	18	19	20	21	22	23	24

	WIRE TO WIRE				9 10 11	13 14 15 16 17 18 19 20 21 22 23	
	M				∞	50	
	0				7	19	
	Ε.	ш			9	18	
	R	두			2	11	
6W	⋝	WHITE		ı	4	16	
	(I)			Ц	က	15	
٠.	Ĕ	<u></u>		Ц	7	14	
ž	Na	ပိ			-	13	
Connector No.	Connector Name	Connector Color	E		Ý.	6	_

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Signal Name	MOTOR HORIZ (RH)	MOTOR COMMON	MIRROR SELECT SW (LH)	MIRROR SW (DOWN)	MIRROR SW (RIGHT)	SENSOR HORIZ (RH)	SENSOR HORIZ (LH)	SET SW	ADDRESS 2	RX	MOTOR COMMON	MOTOR VERT (LH)	MOTOR HORIZ (LH)
Color of Wire	>	0	>	BR	GR	۵	ŋ	GR	Ь	ŋ	9	Я	В
Terminal No.	15	16	18	19	20	21	22	24	25	26	30	31	32

Ī		
	Color of Wire	Signal Name
	7	MIRROR SELECT SW (RH)
	SB	MIRROR SW (UP)
	۸	MIRROR SW (LEFT)
	æ	SENSOR VERT (RH)
	٦	SENSOR VERT (LH)
	0	PEDAL SENSOR
	ГG	ADDRESS 1
	SB	TX
	W	IND 1
	У	IND 2
	GR	MOTOR VERT (RH)

M33	Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT	WHITE	
Connector No.	Connector Name	Connector Color WHITE	(引) H.S.

Signal Name	MOTOR HORIZ (RH)	MOTOR COMMON	MIRROR SELECT SW (LH)	MIRROR SW (DOWN)	MIRROR SW (RIGHT)	SENSOR HORIZ (RH)	SENSOR HORIZ (LH)	SET SW	ADDRESS 2	RX	MOTOR COMMON	MOTOR VERT (LH)	MOTOR HORIZ (LH)
Color of Wire	>	0	\	BB	GR	۵	ŋ	GR	۵	ŋ	5	Ж	В
Terminal No.	15	16	18	19	20	21	22	24	25	26	30	31	32

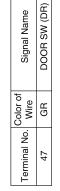
M20	Connector Name BCM (BODY CONTROL MODULE)	BLACK
Connector No.	Connector Name	Connector Color BLACK



Color o	В	Μ
Terminal No.	29	20

Signal Name GND (POWER) BAT (F/L)

erm or	Connector Name BCM (BODY CONTROL MODULE)	Connector Color WHITE	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55
Connector No.	Connector N	Connector (H.S.





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Signal Name

Color of Wire

Terminal No.

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223 223 233 240 253 260 270 270 280 290 300 611

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г		1		1										
	-	WIRE TO WIRE	WHITE		7 6 5 4 3 2 1	15 14 13 12 11 10 9	Signal Name	1	ı	ı	ı	ı	ı	1
ŀ	M74	l			8	16 1	Color of Wire	GR	_o	>	>	æ	\	۵
	Connector No.	Connector Name	Connector Color			1.0	Terminal No.	10	1	12	13	14	15	16
_			•	•		-		1	•	•	•			•

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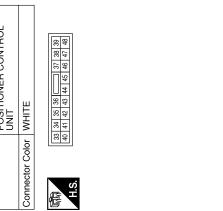
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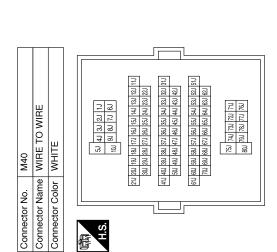
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Signal Name	PWR	BAT	PEDAL MOTOR (FR)	BAT	GND	GND	PEDAL MOTOR (RR)	GND
Color of Wire	Μ	Œ	ŋ	SB	В	>	BR	В
Terminal No.	33	34	37	39	40	41	45	48

Connector No.	M34
Connector Name	Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Color WHITE	WHITE
(40) (40)	33 34 35 36 () 37 38 39 40 41 45 46 47 48

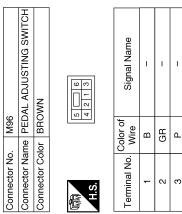




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ADP-105

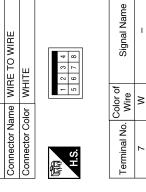
< ECU DIAGNOSIS >



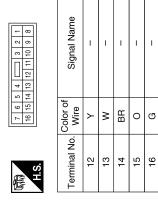
Signal Name	I	_	I
Color of Wire	В	GR	Ь
Terminal No.	1	7	3



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



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



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DOOR MIRROR REMOTE CONTROL SWITCH	믵	9	10 11 12 13 14 15 16	Signal Name	I	ı	ı	ı	ı	ı	-
	lor WHITE	2	6 8	Color of Wire	Y	٦	GR	>	SB	В	BR
Connector Name	Connector Color	昼	H.S.	Terminal No.	2	က	4	5	9	13	14

Connector No.). M82	
Connector Na	ame CIRCI	Connector Name CIRCUIT BREAKER-2
Connector Color WHITE	olor WHIT	ш
H.S.		
Terminal No.	Color of Wire	Signal Name
1	SB	I

4 5 6 8 10	Signal Name	1	1
<u>- a</u>	Color of Wire	В	SB
H.S.	Terminal No.	2	4

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			,				
10	Connector Name PEDAL ADJUSTING MOTOR	ACK	8 8	Signal Name	ı	1	-
E110	ne PE	or BL		Color of Wire	>	0	Μ
Connector No.	Connector Na	Connector Color BLACK	所 H.S.	Terminal No. Wire	3	4	5
	Connector Name PEDAL ADJUSTING MOTOR			Signal Name	1	1	
E109	PEDAL AD	WHITE	1 2	Color of Wire	BR	g	
Connector No.	Connector Name	Connector Color WHITE	(南) H.S.	Terminal No. V	F	2	

Connector No. E26
Connector Name WIRE TO WIRE

Connector Color WHITE

				,							
Signal Name	1	ı	ı							Signal Mamo	Olyliai Ivallio
Color of Wire	\	0	8							Color of	Wire
Terminal No. Wire	ε	4	5							Terminal No Color of	- C
Signal Name	ı	ı									E TO WIRE
Color of Wire	BR	G								B37	ne WIRE
Terminal No. Wire	ļ.	2								Connector No.	Connector Name WIRE TO WIRE
of Signal Name	ı	1	ı	ı	ı					8	Connector Name FRONT DOOR SWITCH LH
Color o Wire	Υ	×	BR	0	G					D. B8	ame FF
Terminal No. Wire	12	13	14	15	16					Connector No.	Connector Na

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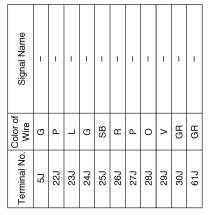
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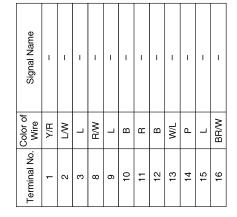
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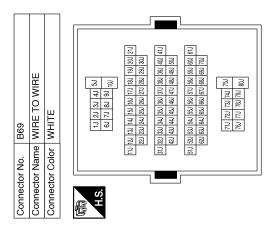
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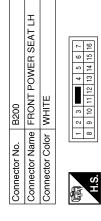
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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

Signal Name	XT	CAN-L	P RANGE SW	SLIDING MOTOR SENSOR	FRONT LIFTING MOTOR SENSOR	SLIDE (FR)	RECLINE (FR)	FRONT LIFT (UP)	REAR LIFT (UP)	PEDAL SW (FR)	GND (SENSOR)	GND
Color of Wire	B/W	Ь	L	Y/G	ГС	P/B	G/B	Y/B	M/A	L/W	5	В
Terminal No.	17	19	21	24	25	26	27	28	29	30	31	32

Signal Name	RX	CAN-H	IGN	RECLINING MOTOR SENSOR	REAR LIFTING MOTOR SENSOR	SLIDE (RR)	RECLINE (RR)	FRONT LIFT (DOWN)	REAR LIFT (DOWN)	PEDAL SW (RR)	POWER SUPPLY (SENSOR)
Color of Wire	ш	٦	BR/W	L/R	*	R/B	O/B	L/B	G/W	Γ	×
Terminal No.	-	က	9	6	10	1	12	13	14	15	16

Connector No.	B202
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE
E	
H.S.	
1 2 3 4 5 6 7	8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23	18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

			1						
4	SLIDING MOTOR LH	<u> </u>	2 1 4	Signal Name	I	ı	-	-	_
B204		or WHITE		Color of Wire	≤	Y/G	×	O/B	WW
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	2	3	4	y

Terminal No.	Color of Wire	Signal Name
39	٨	REAR LIFTING MOTOR (DOWN)
40	Y/R	BAT
42	g/O	SLIDING MOTOR (RR)
44	Y/R	RECLINING MOTOR (RR)
45	GR	FRONT LIFTING MOTOR (UP)
48	В	GND

Connector No.). B203	33
Connector Name		DRIVER SEAT CONTROL UNIT
Connector Color	-	WHITE
所 H.S.	33 34 35 36 40 41 42 43	156 177 28 39 39 42 44 45 46 47 48
Terminal No.	Color of Wire	Signal Name
33	M/L	BAT
35	W/N	SLIDING MOTOR (FR)
36	J//G	RECLINING MOTOR (FR)

onnector C	E.S.
Con	臣王

Signal Name	BAT	SLIDING MOTOR (FF	RECLINING MOTOR (FRONT LIFTING MOTOR (DOWN)	REAR LIFTING MOTOR (UP)
Color of Wire	M/L	W/A	Y/G	BB	B/W
Terminal No.	33	32	36	28	38

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Connector No.	B207
Connector Name	Connector Name LIFTING MOTOR (REAR)
Connector Color GRAY	GRAY
斯斯 H.S.	8 0 2 2 4 1
	,

Signal Name	-	_	I	I	
Color of Wire	Γ /	Μ	Μ	\	B/W
Terminal No. Wire	1	2	3	4	9

Connector No.). B206	9
Connector Name		LIFTING MOTOR (FRONT)
Connector Color	lor WHITE	TE
	<u> </u> 	
H.S.	φ ₍ ₍)	2 4
Terminal No.	Color of Wire	Signal Name
-	٨	ı
2	ГG	ı
3	M	I
4	ВĐ	I
ď	00	1

Signal Name	ı	I	1	ı	I
Color of Wire	Y/B	R/B	G/W	O/B	G/B
Terminal No.	9	2	80	6	10

	_							
12	RECLINING MOTOR LH	里	2 4	Signal Name	I	-	_	_
6202		or WHITE		Color of Wire	5	ΙЛ	Y/R	Y/G
Connector No.	Connector Name	Connector Color	所 H.S.	Terminal No.	-	2	3	4

81	FRONT POWER SEAT LH	里	1 2 7 3 4	Signal Name	1	1	1	1
). B208		lor WHITE	9 10	Color of Wire	P/B	M/A	В	L/B
Connector No.	Connector Name	Connector Color	原.S.H	Terminal No.	-	2	3	2

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

Connector No.). D2	
Connector Name WIRE TO WIRE	me WIR	E TO WIRE
Connector Color WHITE	olor WHI	IE
H.S.	7 6 5 14	7 6 5 4 5 4 5 14 5 12 11 10 9 8
Terminal No.	Color of Wire	Signal Name
11	В	1

Signal Name	-	ı	-	_	I	I	-
Color of Wire	P/L	LG/B	W/W	Y/G	GR/R	R/Y	В
Terminal No.	7	80	6	10	11	12	17

	WIRE TO WIRE	ΠE		8 7 6 5 4 3 2 1	20 19 18 17 16 15 14 13	Signal Name	ı	1	ı	1	1	ı	
		lor WHITE		12 11 10 9	24 23 22 21	Color of Wire	BR	0	g	\	Γ/Y	M/L	
Connector No.	Connector Name	Connector Color	9		Ğ.	Terminal No.	1	2	ဇ	4	5	9	

)2	WIRE TO WIRE	ПЕ	3 4 5 6 7 8 11 12 13 14 15 16	Signal Name	ı	-	ı	ı	1	1	1
. D102		lor WH	9 10	Color of Wire	GR/R	\	W/A	M/L	B/B	>	N/
Connector No.	Connector Name	Connector Color WHITE	明.S.	Terminal No.	10	11	12	13	41	15	16

	SEAT MEMORY SWITCH	世	6 7 2 1 4
DS	SEAT	WHITE	20
O	Name	Color	(m)



Signal Nan	I	_	I	I	_	I	1
Color of Wire	LG/B	P/L	M/A	В	R/Y	GR/R	Y/G
Terminal No.	1	2	3	4	2	9	7

(5	9)
	4	6	
	3	ω	
4	2	7	
	1	9))



Connector No. D4
Connector Name DOOR MIRROR LH
Connector Color BLACK



Signal Name	I	I	İ	Ī	-	Ī	Î
Color of Wire	BR	В	M/L	G	0	У	\sim
Terminal No.	2	3	4	5	8	6	10

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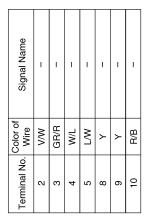
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Fail Safe

INFOID:0000000001711099

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

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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-27
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-28
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-29
SEAT LIFTER FRONT [B2114]	0	1-39	Seat lifting motor front output	ADP-32
SEAT LIFTER REAR [B2115]	0	1-39	Seat lifting motor rear output	ADP-32
ADJ PEDAL MOTOR [B2117]	0	1-39	Pedal adjusting motor output	ADP-32
ADJ PEDAL SENSOR [B2120]	0	1-39	Pedal adjusting sensor input	ADP-32
DETENT SW [B2126]	0	1-39	Park position switch condition	ADP-36
UART COMM [B2128]	0	1-39	UART communication	<u>ADP-38</u>

^{*1:}

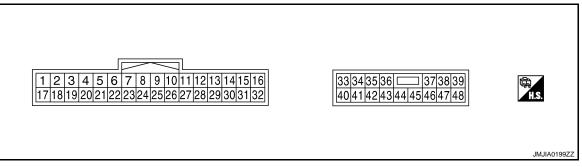
^{• 0:} Current malfunction is present

^{• 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.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Condition		Voltage (V) (Approx.)
			Changeover switch RH		Changeover	RH	0
2	Ground	L	signal	Input	switch position	Neutral or LH	5
3	Ground	SB	Mirror quitab un aignal	lanut	Mirror switch	Operated (up)	0
3	Ground	SD	Mirror switch up signal	Input	WIIITOI SWITCH	Other than above	5
4	Ground	V	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
4	Ground	V	WILLIAM SWILCH LEIT SIGNAL	iriput	WIIITOI SWIICII	Other than above	5
5	Ground	R	Door mirror sensor (RH)	Input	Door mirror RH		3.4
5	Ground	K	up/down signal	position		Valley	0.6
6	Ground	L	Door mirror sensor (LH)	Input	Door mirror LH	Peak	3.4
O	Oround	_	up/down signal	input	position	Valley	0.6
8	Ground	0	Pedal sensor input sig-	Input	Pedal sensor	Forward	0.5
O	Oround	O	nal	iiiput	i edal serisoi	Backward	4.5
						Push	0
9	Ground	LG	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
10	Ground	SB	UART LINE (TX)	Out- put	Ignition switch ON		(V) 6 4 2 0 1 ms
12	Ground	W	Memory indictor 1 signal	Out- put	Memory indictor	Illuminate Other than above	0 Battery voltage

< ECU DIAGNOSIS >

Ter	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Condition	on	Voltage (V) (Approx.)
				<u> </u>		Illuminate	0
13	Ground	Υ	Memory indictor 2 signal	Out- put	Memory indictor 2	Other than above	Battery voltage
14	Ground	GR	Door mirror motor (RH)	Out-	Door mirror RH	Operate (up)	1.5 - Battery voltage
	Cround	OIX .	up output signal	put	Boot Hillion 1411	Other than above	0
15	Ground	V	Door mirror motor (RH)	Out-	Door mirror RH	Operate (left)	1.5 - Battery voltage
			left output signal	put		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 Operate	0
		Ü	Door mirror motor (LH)	put	put Book million (EH)		1.5 - Battery voltage
			right output signal			Other than above	0
		.,	Changeover switch LH	Input Changeover switch position	Changeover	LH	0
18	Ground	Y	signal		Neutral or RH	5	
19	Ground	BR	Mirror switch down sig-	Input	Mirror switch	Operate (down)	0
	C. Garia	2.1	nal	put		Other than above	5
20	Ground	GR	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
		51.	Since of the state of the	πραι		Other than above	5
21	Ground	Р	Door mirror sensor (RH)	Input	Door mirror RH	Left edge	3.4
-			left/right signal	1 ***	position	Right edge	0.6
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH position	Left edge	0.6
			iciviigiit sigilal		ροσιτιοι ι	Right edge	3.4
24	Ground	GR	Set switch signal	Input	Set switch	Other than above	5
						Push	0
25	Ground	Р	Memory switch 2 signal	Input	Memory switch 2	Other than above	5
26	Ground	G	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	Conditi	on	Voltage (V) (Approx.)	
			Door mirror motor (RH)			Operate (down)	1.5 - Battery voltage	
30	Ground	G	down output signal	Out-	Out		0	
30	Ground	G	Door mirror motor (RH)	put	Door mirror (RH)	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	K	up output signal put	up output signal put	Door Hillion (E11)	put Book million (E11)	Other than above	0
32	Ground	В	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (left)	1.5 - Battery voltage	
32	Ground	ь	left output signal	put	Door Hillion (EFI)	Other than above	0	
33	Ground	W	Sensor power supply	Input	_	-	5	
34	Ground	R	Battery power source	Input	_		Battery voltage	
37	Ground	G	Pedal adjusting motor	Out-	Pedal adjusting	Operate (forward)	Battery voltage	
31	Ground	G	forward output signal	put	motor	Other than above	0	
39	Ground	SB	Battery power source		_		Battery voltage	
40	Ground	В	Ground	_	_		0	
41	Ground	Υ	Sensor ground	_	_		0	
45	Ground	BR	Pedal adjusting motor backward output signal	Out-	Pedal adjusting motor	Operate (back- ward)	Battery voltage	
		Saskinara output signar		out signal put III		Other than above	0	
48	Ground	В	Ground	_	_	•	0	

Wiring Diagram

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Refer to ADP-99, "Wiring Diagram".

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
DOOR SW-DR	Front door LH closed	Off
DOOK SW-DK	Front door LH opened	On

TERMINAL LAYOUT

For terminal layout information, refer to BCS-41, "Terminal Layout".

PHYSICAL VALUES

Wiring Diagram

For physical value information, refer to BCS-41, "Physical Values".

For wiring information, refer to <u>BCS-47</u>, "Wiring <u>Diagram"</u>.

DTC Inspection Priority Chart

For DTC priority information, refer to BCS-50, "DTC Inspection Priority Chart".

DTC Index

For DTC information, refer to BCS-51, "DTC Index".

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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

Symptom		Diagnosis procedure	Reference page
	Sliding operation	Check sliding switch.	ADP-42
	Reclining operation	Check reclining switch.	ADP-44
	Lifting operation (front)	Check lifting switch (front).	ADP-46
	Lifting operation (rear)	Check lifting switch (rear).	ADP-48
Manual functions (for specific part) do	Pedal operation	Check pedal adjusting switch.	ADP-50
not operate		2. Check pedal adjusting sensor.	ADP-73
		1. Changeover switch.	ADP-55
	Door mirror operation	2. Mirror switch	ADP-57
	All parts of seat	Check power seat switch ground circuit.	ADP-60

SYMPTOM 2

Symptom	n	Diagnosis procedure	Reference page
	Sliding operation	Check sliding sensor.	ADP-65
	Reclining operation	Check reclining sensor.	ADP-67
	Lifting operation (front)	Check lifting sensor (front).	ADP-69
Mamory functions (for anasific part) do	Lifting operation (rear)	Check lifting sensor (rear).	ADP-71
Memory functions (for specific part) do not operate	Pedal operation	Check pedal adjusting sensor.	ADP-73
	Door mirror operation	Check door mirror sensor.	Driver side: ADP-75 Passenger side: ADP-77

SYMPTOM 3

Symptom		Diagnosis procedure	Reference page
	Sliding operation	Check sliding motor.	ADP-79
	Reclining operation	Check reclining motor.	<u>ADP-81</u>
Memory functions and manual func-	Lifting operation (front)	Check lifting motor (front).	ADP-83
tions (for specific part) do not operate	Lifting operation (rear)	Check lifting motor (rear).	ADP-85
	Pedal operation	Check pedal adjusting motor.	ADP-87
	Door mirror operation	Check door mirror motor.	ADP-89

SYMPTOM 4

ADP SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symptom	Diagnosis procedure	Reference page
	Check system setting.	ADP-19
Entry/Exit assist function does not operate.	2. Perform initialization.	ADP-20
	3. Check front door switch (driver side).	ADP-63
Intelligent Key interlock function does not operate.	Check door lock function.	DLK-19
(Other automatic operations and Intelligent Key system are normal)	2. Perform memory storing.	ADP-9

SYMPTOM 5

Symptom	Diagnosis procedure	Reference page
Memory indicators 1 and/or 2 do not illuminate.	Check seat memory switch.	ADP-53
Memory indicators 1 and/or 2 do not indiffinate.	2. Check seat memory indicator.	ADP-92

SYMPTOM 6

Symptom	Diagnosis procedure	Reference page
Memory operation does not operate.	Check A/T device (park position switch).	<u>ADP-61</u>

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NORMAL OPERATING CONDITION

NORMAL OPERATING CONDITION

Description INFOID:000000001711108

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.	<u>ADP-18</u>
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-21
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function excution.	Perform the memory function.	ADP-21
			Memory function: ADP-15
Memory function, entry/exit assist function or Intelligent Key in-	The operating conditions are not fulfilled.	Fulfill the operation	Exit assist function: <u>ADP-19</u>
terlock function does not operate.	The operating conditions are not runnied.	conditions.	Entry assist function: ADP-21
			Intelligent Key interlock function: ADP-9

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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ON-VEHICLE MAINTENANCE

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 ADP-40, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure".
- Automatic drive positioner control unit: Refer to <u>ADP-41, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure"</u>.

Is the inspection result normally?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2. CHECK MANUAL FUNCTION

Check the manual function operations by operating the relevant switches as shown below.

- Seat (slide, reclining, lifting front, lifting rear)
- Pedal assembly (forward, backward)
- Door mirror

Do all manual functions operate normally?

YES >> GO TO 3

NO (Seat, pedal, door mirror)>>Go to SYMPTOM 1, refer to <u>ADP-118, "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, 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-118</u>, "Symptom Table".

No (memory indicator operates normally)>> Go to SYMPTOM 2, refer to ADP-118, "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-51, "Intermittent Incident".

NO >> GO TO 7

5. CHECK SEAT MEMORY SWITCH/MEMORY INDICATOR

Check the seat memory switch/memory switch indicator of the SYMPTOM 5, refer to ADP-118, "Symptom Table".

Is the inspection result normal?

YES >> GO TO 6

NO >> Repair or replace the malfunctioning part.

$\mathsf{6}.$ CHECK OPERATION CONDITION

Check the memory operation conditions (refer to <u>ADP-9</u>, "<u>AUTOMATIC DRIVE POSITIONER SYSTEM</u>: <u>System Description</u>").

Are all operation conditions fulfilled?

YES >> Go to SYMPTOM 6, refer to ADP-118, "Symptom Table".

NO >> Fulfill the operation conditions. Refer to ADP-9, "AUTOMATIC DRIVE POSITIONER SYSTEM:

System Description".

. CHECK MECHANISM

PRE-INSPECTION FOR DIAGNOSTIC

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< ON-VEHICLE MAINTENANCE > Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is any malfunction present in the relevant parts? YES >> Go to SYMPTOM 3, refer to ADP-118, "Symptom Table". >> Repair or replace the malfunctioning part. NO ADP

ADP-123

PREPARATION

PREPARATION

Special Service Tool

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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:0000000001711113

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

DRIVER SEAT CONTROL UNIT

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

DRIVER SEAT CONTROL UNIT

Removal and Installation

Refer to SE-32, "Exploded View" for removal and installation of driver seat control unit.

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< ON-VEHICLE REPAIR >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

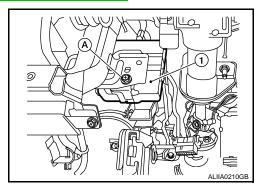
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REMOVAL

CAUTION:

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

- 1. Remove the battery negative terminal.
- 2. Remove the instrument driver lower panel. Refer to IP-10, "Removal and Installation".
- 3. Remove the screw (A).
- 4. Remove automatic drive positioner control unit (1) from bracket and disconnect electrical connectors.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Clamp the harness in position.

NOTE:

After installing the automatic drive positioner control unit, perform additional service when removing battery negative terminal. Refer to <u>ADP-7</u>, "Special Repair Requirement".

SEAT MEMORY SWITCH

< ON-VEHICLE REPAIR >

SEAT MEMORY SWITCH

Removal and Installation

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Refer to INT-10, "Removal and Installation" for removal and installation of driver seat control unit.

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DOOR MIRROR REMOTE CONTROL SWITCH

< ON-VEHICLE REPAIR >

DOOR MIRROR REMOTE CONTROL SWITCH

Removal and Installation

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Refer to MIR-13. "Door Mirror Assembly" for removal and installation of door mirror remote control switch.

PEDAL ADJUSTING MOTOR

< ON-VEHICLE REPAIR >

PEDAL ADJUSTING MOTOR

Removal and Installation

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Refer to <u>ACC-4, "Removal and Installation"</u> for accelerator pedal and <u>BR-15, "Removal and Installation"</u> for brake pedal when removing pedal adjusting motors.

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