SECTION ADDP B AUTOMATIC DRIVE POSITIONER C

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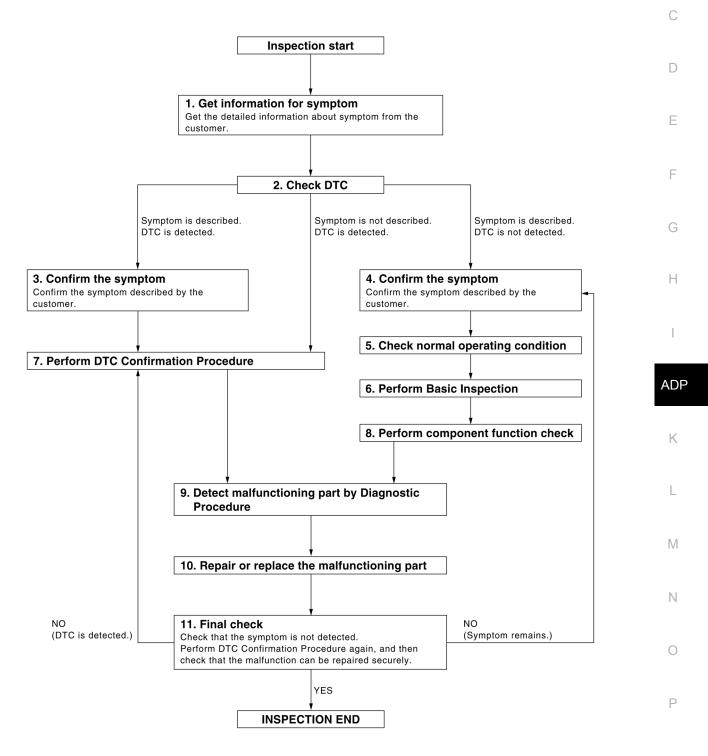
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< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

WORK FLOW



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DETAILED FLOW

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< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3. Symptom is not described, DTC is detected>>GO TO 5. Symptom is described, DTC is not detected>>GO TO 4.

 $\mathbf{3.}$ CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 7.

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer. Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

5. CHECK NORMAL OPERATING CONDITION

Check normal operating condition. Refer to <u>ADP-166</u>, "Description".

>> GO TO 6.

6. PERFORM BASIC INSPECTION

Isolate the malfunctioning part with the basic inspection. Refer to ADP-8, "Preliminary Check".

>> GO TO 8.

7. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to <u>BCS-63</u>, "<u>DTC Inspection Priority Chart</u>" and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 9. NO >> GO TO 11.

DIAGNOSIS AND REPAIR WORKFLOW

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INSPECTION AND ADJUSTMENT

Preliminary Check

1. FOREIGN OBJECTS

Check the following:

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

Are there any foreign objects that could be causing interference?

YES >> Remove objects.

NO >> GO TO 2

2. WIRING CONNECTIONS

1. Disconnect harness connectors.

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

Are any connectors damaged or loose?

YES >> Repair or replace damaged parts.

NO >> GO TO 3

3. POWER AND GROUND

Check power supply and ground circuits for control unit. Refer to <u>ADP-47. "DRIVER SEAT CONTROL UNIT :</u> <u>Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> Refer to <u>ADP-119, "DTC Index"</u>.

NO >> Repair or replace as necessary.

Special Repair Requirement

INFOID:000000010051678

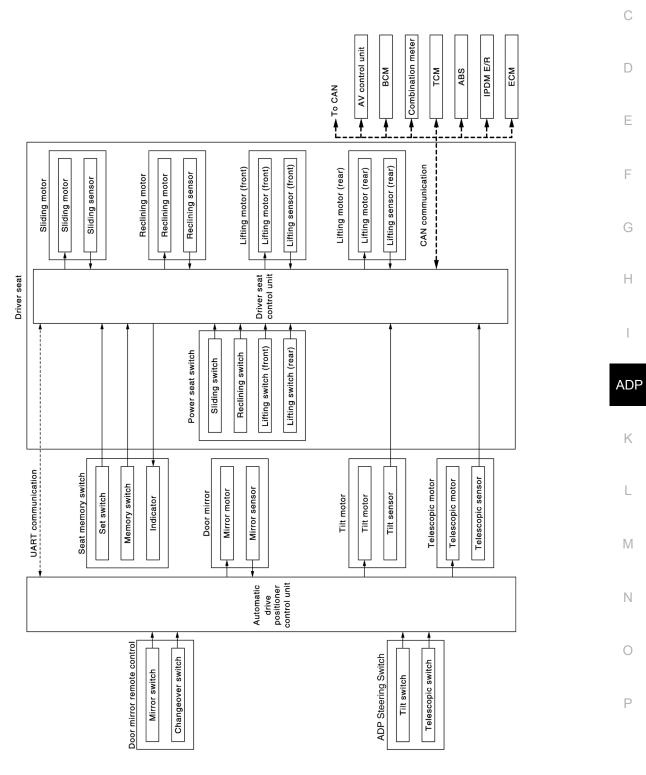
INFOID:000000010051677

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

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram



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INFOID:0000000010051679

< SYSTEM DESCRIPTION >

AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:000000010051680

OUTLINE

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

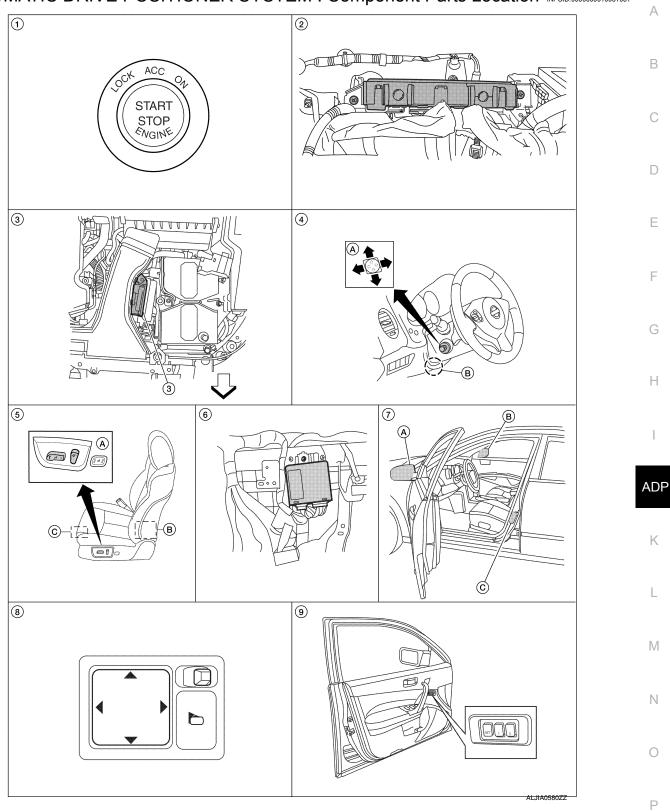
Function		Description
Manual function		The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, ADP steering switch or door mirror remote control switch.
Memory function		The seat, steering column and door mirror move to the stored driving position by pressing seat memory switch (1 or 2).
	Exit	On exit, the seat moves backward and the steering column moves upward.
Entry/Exit assist function Entry	On entry, the seat and steering column returns from exiting position to the previous driving position.	
Intelligent Key interlock functi	on	Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

NOTE:

The lumbar support system is controlled independently with no link to the automatic drive positioner system.

< SYSTEM DESCRIPTION >

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Parts Location INFOLD:000000010051681



- 1. Push-button ignition switch M38
- A. ADP steering switch M39
 B. Tilt motor M71, telescopic motor M73
- 2. BCM M16, M17, M18, M19 (view with instrument panel removed)
 - A. Power seat switch LH B213B. Reclining motor B222C. Driver seat control unit B203, B211

5.

- 3. TCM F15
- Automatic drive positioner control unit M63, M67 (view with instrument panel removed)

< SYSTEM DESCRIPTION >

- 7. A. Door mirror LH D4B. Door mirror RH D107C. Front door switch LH B8
- 8. Door mirror remote control switch M108

9. Seat memory switch D13

勾: Front

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

CONTROL UNITS

Item	Function
Driver seat control unit	 Main unit of automatic drive positioner system It is connected to the CAN. It communicates with the automatic drive positioner control unit via UART communication.
Automatic drive positioner control unit	 It communicates with the driver seat control unit via UART communication. Perform various controls with the instructions of driver seat control unit. Perform the controls of the pedal adjusting, door mirror and the seat memory switch.
ВСМ	 Transmits 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 Starter: CRANKING/OTHER
Combination meter	Transmits the vehicle speed signal to the driver seat control unit via CAN commu- nication.
AV control unit	The setting change of auto drive positioner system can be performed on the display.
ТСМ	Transmits the shift position signal (P range) to the driver seat control unit via CAN communication.

INPUT PARTS

Switches

Item	Function
Key slot	The key switch is installed to detect the key inserted/removed status.
Front door switch LH	Detect front door (driver side) open/close status.
Transmission range switch (built into CVT control valve assembly)	Detect the P range position of CVT 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.
ADP steering switch	 The following switch is installed. Tilt switch Telescopic switch The specific parts can be operated with the operation of each switch.
Door mirror remote control switch	The following switch is installed.Mirror switchChangeover switchThe specific parts can be operated with the operation of each switch.

< SYSTEM DESCRIPTION >

Sensors

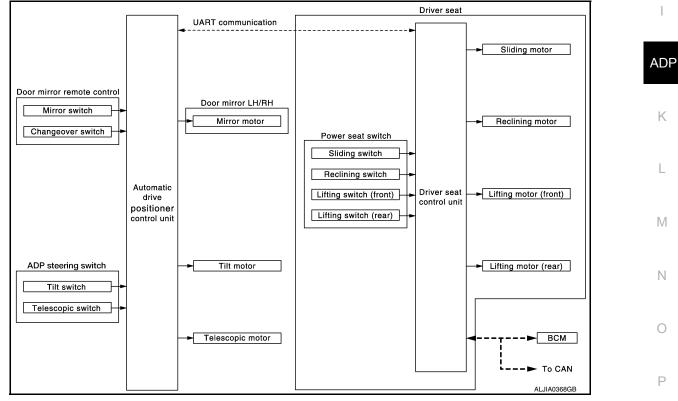
Item	Function	
Door mirror sensor (LH/RH)	Detect the up/down and left/right position of outside mirror face.	
Tilt and telescopic sensors	Detect the up/down and front/rear position of steering column.	
Lifting sensor (front)	Detect the up/down position of seat lifting (front).	
Lifting sensor (rear)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

OUTPUT PARTS

Item	Function	
Door mirror motor (LH/RH)	Move the outside mirror face up/down and left/right.	
Tilt and telescopic motors	Move the steering column up/down and front/rear.	
Lifting motor (front)	Move the seat lifting (front) up/down.	
Lifting motor (rear)	Move the seat lifting (rear) up/down.	
Reclining motor	Tilt and raise up the seatback.	
Sliding motor	Slide the seat forward/backward.	
Seat memory indicator	Illuminates or flashes according to the registration/operation status.	

MANUAL FUNCTION

MANUAL FUNCTION : System Diagram



MANUAL FUNCTION : System Description

INFOID:000000010051684

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INFOID:000000010051683

OUTLINE

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

< SYSTEM DESCRIPTION >

OPERATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Operate power seat switch, ADP steering switch or door mirror remote control switch.
- 3. The driver seat, steering column 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, reclin- ing)	_	The power seat switch signal is inputted to the driver seat control unit when the power seat switch is operated.
2	_	Motors (sliding, lifting, reclin- ing)	The driver seat control unit outputs signals to each motor accord- ing to the power seat switch input signal.

Tilt and Telescopic

Order	Input	Output	Control unit condition
1	ADP steering switch	_	The ADP steering switch signal is input to the automatic drive po- sitioner control unit when the ADP steering switch is operated.
2	_	Motors (tilt, telescopic)	The automatic drive positioner control unit actuates the motors according to the operation of the ADP steering switch signal.
3	Sensors (tilt, telescopic)	_	The automatic drive positioner control unit recognizes any oper- ation limit of each actuator via each sensor and will not operate the motors anymore at that time.

Door Mirror

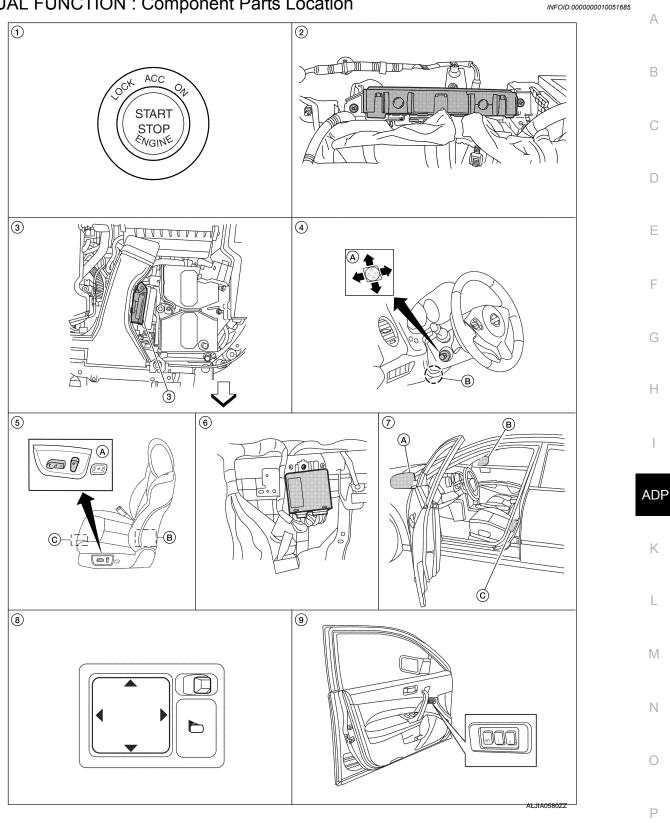
Order	Input	Output	Control unit condition
1	Door mirror remote control switch	_	The door mirror remote control switch signal is inputted to the au- tomatic drive positioner control unit when the door mirror remote control switch is operated.
2	_	Motors (Door mirror motor)	The automatic drive positioner 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.

< SYSTEM DESCRIPTION >

MANUAL FUNCTION : Component Parts Location



- Push-button ignition switch M38 1.
- A. ADP steering switch M39 4. B. Tilt motor M71, telescopic motor M73
- 2. BCM M16, M17, M18, M19 (view with instrument panel removed)
 - A. Power seat switch LH B213 B. Reclining motor B222 C. Driver seat control unit B203, B211

5.

- TCM F15 3.
- 6. Automatic drive positioner control unit M63, M67 (view with instrument panel removed)

< SYSTEM DESCRIPTION >

- 7. A. Door mirror LH D4B. Door mirror RH D107C. Front door switch LH B8
- Door mirror remote control switch M108

9. Seat memory switch D13

勾: Front

MANUAL FUNCTION : Component Description

INFOID:000000010051686

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.
Automatic drive positioner control unit	Operates the specific motor with the signal from ADP steering switch 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. 	
ADP steering switch	 The following switch is installed. Tilt switch Telescopic switch The specific parts can be operated with the operation of each switch. 	
Door mirror remote control switch	 The following switch is installed. Mirror switch Changeover switch The specific parts can be operated with the operation of each switch. 	

Sensors

Item	Function
Tilt and telescopic sensors	Detect the up/down and front/back position of steering column.

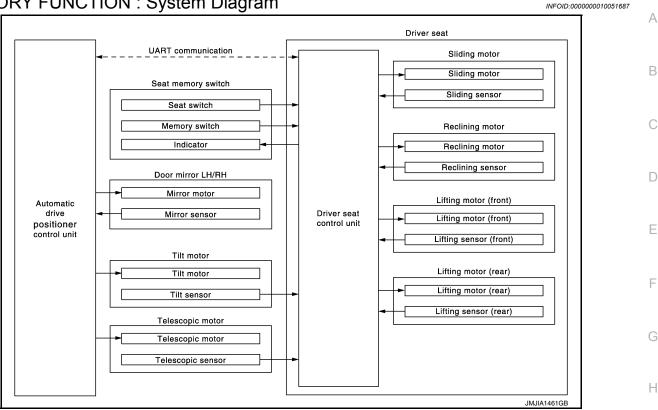
OUTPUT PARTS

Item	Function	
Door mirror motor (LH/RH)	Move the outside mirror face up/down and left/right.	
Tilt and telescopic motors	Move the steering column up/down and front/back.	
Lifting motor (front)	Move the seat lifter (front) up/down.	
Lifting motor (rear)	Move the seat lifter (rear) up/down.	
Reclining motor	Tilt and raise up the seatback.	
Sliding motor	Slide the seat forward/backward.	

MEMORY FUNCTION

< SYSTEM DESCRIPTION >

MEMORY FUNCTION : System Diagram



MEMORY FUNCTION : System Description

INFOID:000000010051688

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OUTLINE

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

Further information for the memory storage procedure. Refer to Owner's Manual.

OPERATION PROCEDURE

- 1. Turn ignition switch ON
- 2. Press desired memory switch.
- Front seat LH, steering column and door mirror will move to the memorized position. 3.

OPERATION CONDITION

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

Item	Request status	
Ignition position	ON	
Switch inputs		
Power seat switch		C
ADP steering switch	OFF	
Door mirror control switch	(Not operated)	
Set switch		
Seat memory switch		F
CVT selector lever	P position	

However, the memory operation can be performed for 45 seconds after opening the front door LH (front door switch LH OFF \rightarrow ON) even if the ignition switch is OFF.

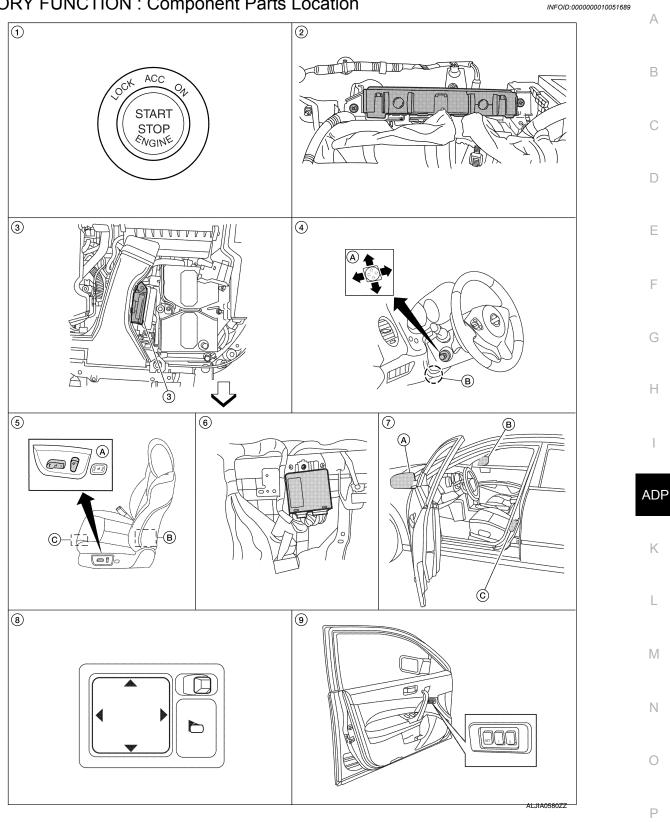
DETAIL FLOW

< SYSTEM DESCRIPTION >

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.
		Motors (seat, steering, door mirror)	Driver seat control unit operates each motor of seat when it recogniz- es the memory switch pressed and requests each motor operation to automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor.
2	_	Memory switch Indica- tor	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 con- trol unit illuminates the memory indicator.
3	Sensors (seat, steering col- umn, door mirrors)	_	Driver seat control unit judges the operating seat position with each seat sensor input. The positions of the steering column and outside mirrors 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 reach- es the recorded address.
4	_	Memory switch Indica- tor	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.

< SYSTEM DESCRIPTION >

MEMORY FUNCTION : Component Parts Location



- Push-button ignition switch M38 1.
- A. ADP steering switch M39 4. B. Tilt motor M71, telescopic motor M73
- 2. BCM M16, M17, M18, M19 (view with instrument panel removed)
 - A. Power seat switch LH B213 B. Reclining motor B222 C. Driver seat control unit B203, B211

5.

- TCM F15 3.
- 6. Automatic drive positioner control unit M63, M67 (view with instrument panel removed)

< SYSTEM DESCRIPTION >

- A. Door mirror LH D4
 B. Door mirror RH D107
 C. Front door switch LH B8
- Door mirror remote control switch 9. M108

9. Seat memory switch D13

勾: Front

MEMORY FUNCTION : Component Description

INFOID:000000010051690

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 steering column and door mirrors to automatic drive positioner control unit
Automatic drive positioner control unit	Operates the steering column and door mirrors with the instructions from the driver seat control unit.

INPUT PARTS

Switches

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

Sensors

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

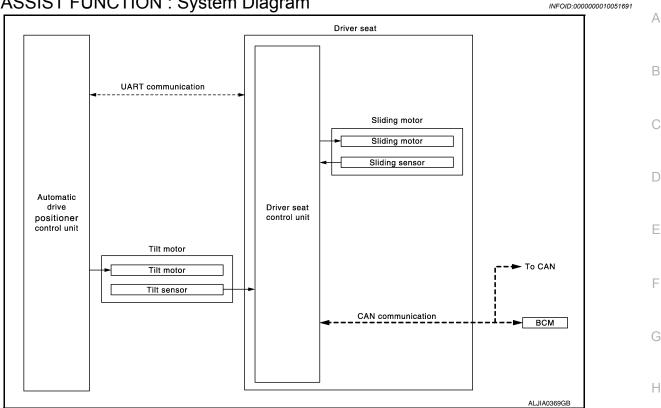
OUTPUT PARTS

Item	Function	
Door mirror motor (LH/RH)	Move the outside mirror face upward/downward and leftward/rightward.	
Tilt and telescopic motors	Move the steering column up/down and front/rear.	
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

< SYSTEM DESCRIPTION >

EXIT ASSIST FUNCTION : System Diagram



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 and the ADP steering column is moved up.

The seat slide amount at entry/exit operation can be changed.

NOTE:

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

OPERATION PROCEDURE

- Open the front door LH with ignition switch in OFF position. 1.
- Front seat LH and steering column will move to the exiting position. 2.

OPERATION CONDITION

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

Item	Request status	N
Ignition switch	OFF	
System setting [Entry/exit assist function]	ON	
Initialization	Done	0
Switch inputs Power seat switch ADP steering switch Door mirror remote control switch Set switch Seat memory switch 	OFF (Not operated)	P
CVT selector lever	P position	

DETAIL FLOW

< SYSTEM DESCRIPTION >

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	_	Motors (seat sliding, tilt)	Driver seat control unit operates the seat sliding motor, which recog- nizes that the driver side door is opened with ignition switch OFF. Driver seat control unit then requests the operations of tilt motor to auto drive positioner control unit via UART communication. The au- tomatic drive positioner control unit operates each motor for a con- stant amount.

< SYSTEM DESCRIPTION >

EXIT ASSIST FUNCTION : Component Parts Location INFOID:0000000010051693 А 1 2 FIL В OCK ACC START С STOP ENGINE D 3 4 Е VVV -(B) Н 3 5 6 7 В (\mathbf{A}) (A)@ (7 nom ADP B (c)Κ @ f G 8 9 Μ F Ν \bigcirc Ο Ρ

- Push-button ignition switch M38 1.
- A. ADP steering switch M39 4. B. Tilt motor M71, telescopic motor M73
- 2. BCM M16, M17, M18, M19 (view with instrument panel removed)
 - A. Power seat switch LH B213 B. Reclining motor B222 C. Driver seat control unit B203, B211

5.

- TCM F15 3.
- 6. Automatic drive positioner control unit M63, M67 (view with instrument panel removed)

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< SYSTEM DESCRIPTION >

- 7. A. Door mirror LH D4B. Door mirror RH D107C. Front door switch LH B8
- Door mirror remote control switch M108

9. Seat memory switch D13

勾: Front

EXIT ASSIST FUNCTION : Component Description

INFOID:000000010051694

CONTROL UNITS

Item	Function	
Driver seat control unit	 Operates the seat sliding motor for a constant amount. Requests operation of the tilt motor from the automatic drive positioner control unit. 	
Automatic drive positioner control unit	Operates the tilt motor with the request from the driver seat control unit.	
BCM	 Recognizes the following status and transmits it to the driver seat control unit via CAN communication. Front door LH: OPEN/CLOSE Key switch signal Ignition switch signal 	

INPUT PARTS

Switches

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

Sensors

Item	Function
Tilt sensor	Detect the up/down position of steering column.
Sliding sensor	Detect the front/rear position of seat.

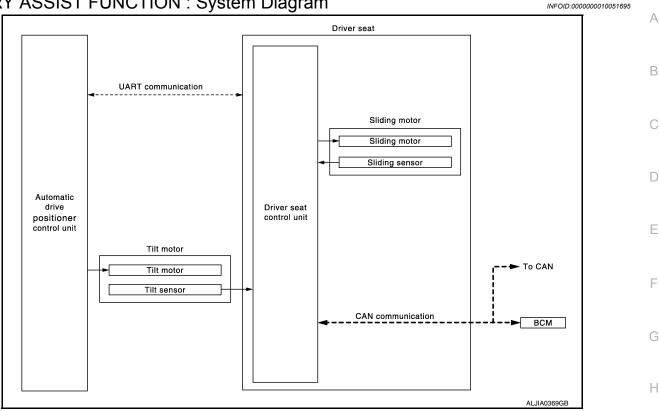
OUTPUT PARTS

Item	Function
Tilt motor	Move the steering column up/down.
Sliding motor	Slide the seat forward/backward.

ENTRY ASSIST FUNCTION

< SYSTEM DESCRIPTION >

ENTRY ASSIST FUNCTION : System Diagram



ENTRY ASSIST FUNCTION : System Description

INFOID:000000010051696

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The seat is in the exiting position when either following condition is satisfied, the seat returns from exiting posi-ADP tion to the previous driving position.

NOTE:

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

OPERATION PROCEDURE

- 1. Turn the ignition switch to ACC.
- 2. Front seat LH and steering column will return from the exiting position to entry position.

OPERATION CONDITION

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

Item	Request status
Seat, steering column	The vehicle is not moved after performing the exit assist function.
Switch inputs	
Power seat switch	
ADP steering switch	OFF
Door mirror control switch	(Not operated)
Set switch	
Memory switch	
CVT selector lever	P position

DETAIL FLOW

< SYSTEM DESCRIPTION >

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 M Sensors (sliding, tilt)	Motors (sliding, tilt)	Driver seat control unit operates the sliding motor when the operating conditions are satisfied and requests the operation of tilt motor to automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates the tilt motor.	
	Sensors (sliding, tilt)	_	Each sensor monitors the operating positions of seat and steering column, then stops the operation of motor when each part reaches the recorded address.

< SYSTEM DESCRIPTION >

ENTRY ASSIST FUNCTION : Component Parts Location INFOID:000000010051697 А 1 2 FIL В OCK ACC START С STOP ENGINE D 3 4 Е VVV F -(B) Н 3 5 6 7 В (\mathbf{A}) (A)@ (7 nom ADP B (c)Κ @ f G L 8 9 Μ ø Ν \bigcirc Ο Ρ

- 1. Push-button ignition switch M38
- A. ADP steering switch M39
 B. Tilt motor M71, telescopic motor M73
- 2. BCM M16, M17, M18, M19 (view with instrument panel removed)
 - A. Power seat switch LH B213B. Reclining motor B222C. Driver seat control unit B203, B211

5.

- 3. TCM F15
- Automatic drive positioner control unit M63, M67 (view with instrument panel removed)

< SYSTEM DESCRIPTION >

- 7. A. Door mirror LH D4B. Door mirror RH D107C. Front door switch LH B8
- Door mirror remote control switch M108

9. Seat memory switch D13

: Front

ENTRY ASSIST FUNCTION : Component Description

INFOID:000000010051698

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. Requests the operation of tilt motor to automatic drive positioner control unit.
Automatic drive positioner control unit	Operates the tilt motor with the instructions from the driver seat control unit.
BCM	 Recognizes the following status and transmits it to the driver seat control unit via CAN communication. 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.

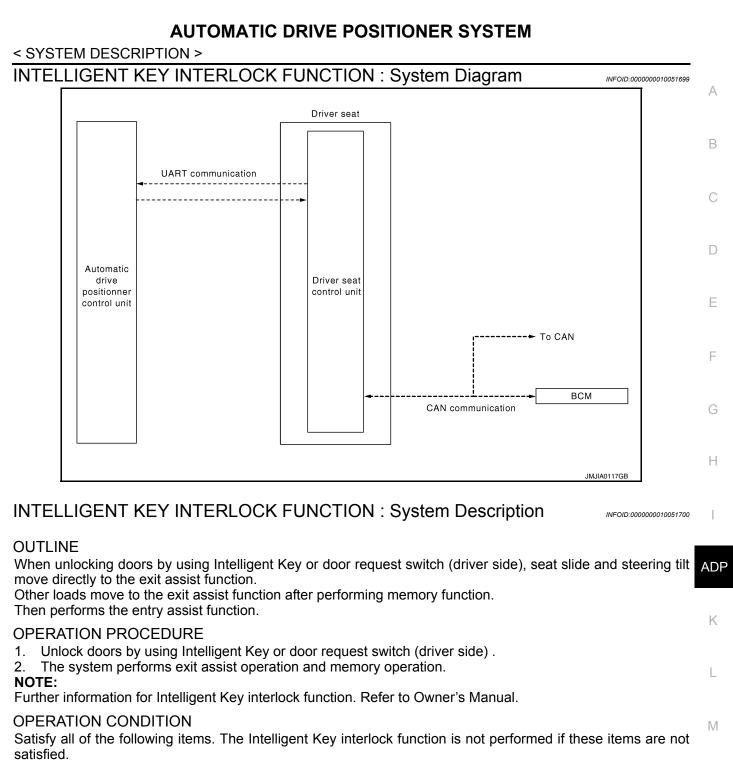
Sensors

Item	Function
Tilt sensor	Detect the up/down position of steering column.
Sliding sensor	Detect the front/rear position of seat.

OUTPUT PARTS

Item	Function
Tilt motor	Move the steering column up/down.
Sliding motor	Slide the seat forward/backward.

INTELLIGENT KEY INTERLOCK FUNCTION



Item	Request status	
Ignition position	OFF	
Switch inputs		
Power seat switch LH		
ADP steering switch	OFF	
 Door mirror remote control switch 	(Not operated)	
Set switch		
Seat memory switch		
CVT selector lever	P position	

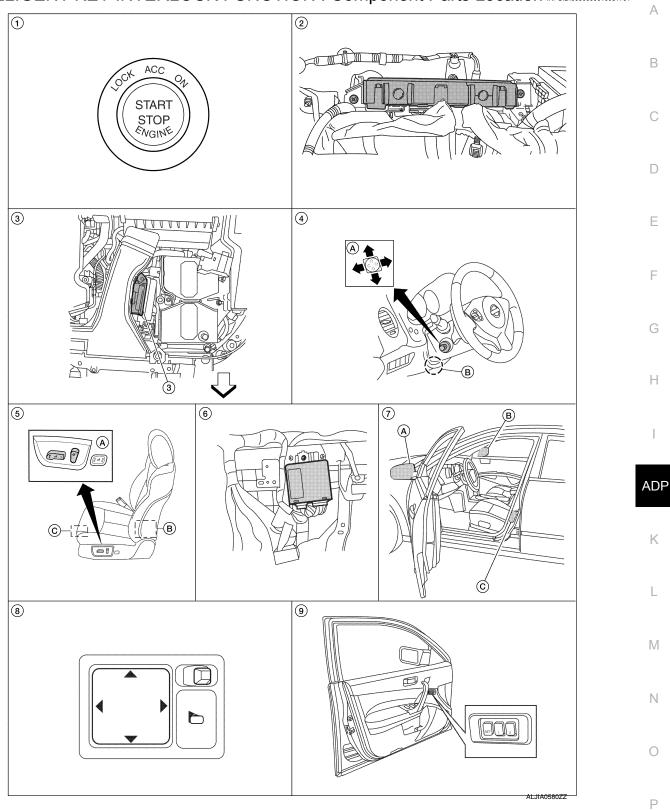
DETAIL FLOW

< SYSTEM DESCRIPTION >

Order	Input	Output	Control unit condition
1	 Door unlock signal (CAN) Key ID signal (CAN) 	_	Driver seat control unit receives the door unlock signal and the key ID signal from BCM when unlocking the door with Intelligent Key or driver side door request switch.
2	_	_	Driver seat control unit performs the seat slide and steering tilt move directly to the exit assist function. Other loads move to the exit assist function after performing memory function.
3	—	—	Driver seat control unit performs the entry assist function.

< SYSTEM DESCRIPTION >

INTELLIGENT KEY INTERLOCK FUNCTION : Component Parts Location INFOLD:00000010051701



- 1. Push-button ignition switch M38
- A. ADP steering switch M39
 B. Tilt motor M71, telescopic motor M73
- 2. BCM M16, M17, M18, M19 (view with instrument panel removed)
 - A. Power seat switch LH B213B. Reclining motor B222C. Driver seat control unit B203, B211

5.

- 3. TCM F15
- Automatic drive positioner control unit M63, M67 (view with instrument panel removed)

< SYSTEM DESCRIPTION >

- 7. A. Door mirror LH D4B. Door mirror RH D107C. Front door switch LH B8
- Door mirror remote control switch M108

9. Seat memory switch D13

<口: Front

INTELLIGENT KEY INTERLOCK FUNCTION : Component Description

INFOID:000000010051702

CONTROL UNITS

Item	Function
Driver seat control unit	It performs memory function and entry/exit assist function after receiving the door unlock signal from BCM.
Automatic drive positioner control unit	Operates the steering column and door mirrors with the instructions from the driver seat control unit.
BCM	 Recognizes the following status and transmits it to the driver seat control unit via CAN communication. Door lock: UNLOCK (with Intelligent Key or driver side door request switch) Key ID signal Ignition switch signal

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

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

Diagnostic mode [AUTO DRIVE POS.]	Description
WORK SUPPORT	Changes the setting of each function.
SELF DIAGNOSTIC RESULT	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 con- trol 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 IDENTIFICATION	Displays part numbers of driver seat control unit parts.

CONSULT Function (AUTO DRIVE POS.)

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-119, "DTC 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) sig- nal.
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

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.
TILT SW-UP	"ON/OFF"	_	×	ON/OFF status judged from the ADP steering switch (up) signal.
TILT SW-DOWN	"ON/OFF"	_	×	ON/OFF status judged from the ADP steering switch (down) signal.
TELESCO SW-FR	"ON/OFF"	_	×	ON/OFF status judged from the ADP steering switch (for-ward) signal.
TELESCO SW-RR	"ON/OFF"	_	×	ON/OFF status judged from the ADP steering switch (back-ward) 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) sta- tus judged from the ignition switch signal.
SLIDE PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	_	×	Voltage input from door mirror sensor (passenger side) up/ down is displayed.
MIR/SEN RH R-L	"V"	_	×	Voltage input from door mirror sensor (passenger side) left/ right is displayed.
MIR/SEN LH U-D	"V"	_	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
TILT PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
TELESCO PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
VEHICLE SPEED	_	×	×	Display the vehicle speed signal received from combination meter by numerical value [km/h].
P RANG SW CAN	"ON/OFF"	×	×	ON/OFF status judged from the P range switch signal.
R RANGE (CAN)	"ON/OFF"	×	×	ON/OFF status judged from the R range switch signal.
STEERING STATUS	"LOCK/UN- LOCK"	×	×	LOCK/UNLOCK status judged from the steering lock unit.
DOOR SW-FL	"OPEN/ CLOSED"	×	×	ON/OFF status judged from the door switch (front driver side) signal.
DOOR SW-FR	"OPEN/ CLOSED"	×	×	ON/OFF status judged from the door switch (front passen- ger side) signal.

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
IGN ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ignition switch signal.
ACC ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ACC switch signal.
KEY ON SW	"ON/OFF"	×	×	ON/OFF status judged from the key on switch signal.
KEYLESS ID	—	×	×	Key ID status judged from the key ID signal.
KYLS DR UNLK	"ON/OFF"	×	×	ON/OFF status judged from the driver side door unlock ac- tuator output switch signal.
VHCL SPEED (ABS)	"RCV"	×	×	Vehicle speed status judged from vehicle speed signal.
HANDLE	"RHD/LHD"	×	×	RHD/LHD status judged from handle position signal.
TRANSMISSION	"A/T"	×	×	CVT status judged from transmission.

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). Н SEAT LIFTER RR Activates/deactivates the lifting motor (rear). TILT MOTOR Activates/deactivates the tilt motor. TELESCO MOTOR Activates/deactivates the telescopic motor. MIRROR MOTOR RH Activates/deactivates the mirror motor (passenger side). MIRROR MOTOR LH Activates/deactivates the mirror motor (driver side). MEMORY SW INDCTR Turns ON/OFF the memory indicator. ADP

WORK SUPPORT

Work item	Content	Item
		40 mm (1.6 in)
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	80 mm (3.1 in)
		150 mm (6 in)
EXIT TILT SETTING	Entry/exit assist (steering column) can be selected:	ON
EXIT HEL SETTING	ON (operated) – OFF (not operated)	OFF
	Entry/exit assist (seat) can be selected:	ON
EXIT SEAT SLIDE SETTING	ON (operated) – OFF (not operated)	OFF

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< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

Description

INFOID:000000010051705

Refer to LAN-24, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000010051706

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.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-36, "Diagnosis Procedure"</u>.

NO >> Inspection End.

Diagnosis Procedure

Refer to LAN-15, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

Refer to Owner's Manual.

INFOID:000000010051707

INFOID:000000010051708

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

Description

Refer to LAN-24, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000010051710

INFOID:0000000010051709

INFOID:0000000010051711

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DTC DETECTION LOGIC

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

Diagnosis Procedure

1. REPLACE DRIVER SEAT CONTROL UNIT

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

>> Replace driver seat control unit. Refer to <u>ADP-169, "Removal and Installation"</u>.

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B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

B2130 EEPROM

DTC Logic

INFOID:0000000010051712

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC is detects?

YES >> Refer to <u>ADP-38. "Diagnosis Procedure"</u>. NO >> Inspection End.

Diagnosis Procedure

INFOID:000000010051713

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.
- 3. Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to <u>ADP-38. "DTC Logic"</u>.
- Is the DTC displayed again?
- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.

2. REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit. Refer to ADP-169, "Removal and Installation".

>> Inspection End.

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS > **B2112 SLIDING MOTOR** А Description INFOID:000000010051714 The seat sliding motor is installed to the seat frame. The seat sliding motor is activated with the driver seat control unit. Slides the seat forward/backward by changing the rotation direction of sliding motor. DTC Logic INEOID:0000000010051715 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name Ε The driver seat control unit detects the output of slid- Driver seat control unit B2112 SEAT SLIDE ing motor output terminal for 0.1 second or more · Front power seat LH (sliding moeven if the sliding switch is not input. tor) harness is shorted DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT. Is the DTC is detects? YES >> Refer to ADP-39, "Diagnosis Procedure". Н NO >> Inspection End. Diagnosis Procedure INFOID:0000000010051716 Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram". ADP **1.**PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT. Erase the DTC. 3. 4. Perform DTC confirmation procedure. Refer to ADP-43, "DTC Logic". Is the DTC displayed again? YES >> GO TO 2. M NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". **2.**CHECK SLIDING MOTOR CIRCUIT (POWER SHORT) 1. Turn ignition switch OFF. Ν 2. Disconnect sliding motor and driver seat control unit connector. Check voltage between sliding motor harness connector and ground. 3. (+) Voltage (V) Sliding motor (-) (Approx.) Connector Terminals P 2

Is the inspection result normal?

B205

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

6

Ground

0

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

$\overline{\mathbf{3.}}$ CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect driver seat control unit connector.

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

	+) t control unit	(-)	Voltage (V) (Approx.)	
Connector	Terminals			
B211	36	Ground	0	
DZTI	44	Giouna	U	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation"

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

А Description INFOID:000000010051717 The seat reclining motor is installed to the seatback assembly. The seat reclining motor is activated with the driver seat control unit. • Tilts the seatback forward/backward by changing the rotation direction of reclining motor. DTC Logic INFOID:0000000010051718 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of re-· Driver seat control unit Ε B2113 SEAT RECLINING clining motor output terminal for 0.1 second or more Front power seat LH (reclining even if the reclining switch is not input. motor) harness is shorted DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT. Is the DTC is detects? >> Refer to ADP-41, "Diagnosis Procedure". YES Н >> Inspection End. NO Diagnosis Procedure INFOID:000000010051719 Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram". ADP 1.PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT. Erase the DTC. 3. Perform DTC confirmation procedure. Refer to ADP-41, "DTC Logic". 4 Is the DTC displayed again? YES >> GO TO 2. NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". M 2. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT) 1. Turn ignition switch OFF. Ν 2. Disconnect reclining motor and driver seat control unit connector. 3. Check voltage between reclining motor harness connector and ground. (+)Voltage (V) Reclining motor (-) (Approx.) Connector Terminals 1

Is the inspection result normal?

B222

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

5

Ground

0

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

1. Connect driver seat control unit connector.

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

	+) t control unit	()	Voltage (V) (Approx.)	
Connector	Terminals		(
B211	35	Ground	0	
DZTI	43	Ground	0	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2116 TILT MOTOR

Description

• The tilt motor is installed to the steering column assembly.

• The tilt motor is activated with the automatic drive positioner control unit.

• The steering column is tilted up/down by changing the rotation direction tilt motor.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	on	Possible cause
B2116	STEERING TILT	The automatic drive positioner contromotor operation for 0.1 second or mor has not been turned on, and there is r matic operation.	e when tilt switch	 Automatic drive positioner control unit Tilt motor harness is shorted
DTC CON	IFIRMATION PROC	EDURE		
1. PERFO	ORM DTC CONFIRMA	TION PROCEDURE		
2. Check <u>s the DTC</u> YES > NO >	gnition switch ON. "Self diagnostic result <u>is detects?</u> > Refer to <u>ADP-43, "D</u> > Inspection End.			
Jiagnos	is Procedure			INFOID:000000010051722
1.PERFC	RM DTC CONFIRMA	nation, refer to <u>ADP-150, "Wirin</u> FION PROCEDURE	<u>g Diagram"</u> .	
2. Check 3. Erase	nition switch ON. "Self diagnostic result the DTC. m DTC confirmation p	" with CONSULT. rocedure. Refer to <u>ADP-43, "D1</u>	<u>"C Logic"</u> .	
	displayed again?		-	
NO >	> GO TO 2. > Check intermittent in \ TILT MOTOR CIRCU	cident. Refer to <u>GI-41, "Intermi</u> IT (POWER SHORT)	<u>tent Incident"</u> .	
Z. CHECK				
1. Turn iç 2. Discor		positioner control unit and tilt mo notor harness connector and gro		
1. Turn iç 2. Discor	nect automatic drive p			
1. Turn ig 2. Discor 3. Check	voltage between tilt m (+) Tilt motor	notor harness connector and gro		Voltage (V) (Approx.)
1. Turn ig 2. Discor 3. Check	nect automatic drive p voltage between tilt m (+)	Terminals	ound.	Voltage (V)
1. Turn ig 2. Discor 3. Check	voltage between tilt m (+) Tilt motor	notor harness connector and gro	ound.	Voltage (V)

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

 $\mathbf{3}$.check automatic drive positioner control unit output signal

А

В

INFOID:000000010051720

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

	(+) Automatic drive positioner control unit Connector Terminals		Voltage (V) (Approx.)
Connector			(Approx.)
M67	28	Ground	0
MOT	29	Giodina	U

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

B2128 UART COMMUNICATION LINE

Description

Driver seat control unit performs UART communication with the automatic drive positioner control unit using 1 communication line. Driver seat control unit receives the operation signals of ADP steering switch, door mirror remote control switch and the position signals of tilt sensor, telescopic sensor and door mirror sensors from the automatic drive positioner control unit and transmits the operation request signal.

DTC Logic

INFOID:000000010051724

INFOID:0000000010051723

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DTC DETECTION LOGIC

	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 interrupt- ed for a period of time.	 UART communication line (UART communication line is open or shorted) Driver seat control unit Automatic drive positioner control unit
TC CONFI	IRMATION PROCE	DURE	
. PERFOR	M DTC CONFIRMATI	ON PROCEDURE	
	tion switch ON. Self diagnostic result" v		
s the DTC is	•		
YES >> F	Refer to ADP-45, "Diag	gnosis Procedure".	
	nspection End.		
Jiagnosis	Procedure		INFOID:000000010051
-			
-			
legarding W	'iring Diagram informa	tion, refer to ADP-150. "Wiring Diagram".	
.PERFORM	M DTC CONFIRMATIO		
. PERFORM	M DTC CONFIRMATIO	ON PROCEDURE	
. PERFORM . Turn igni 2. Check "S 5. Erase the	M DTC CONFIRMATIOn switch ON. Self diagnostic result" v e DTC.	ON PROCEDURE	
.PERFORM Turn igni Check "S Erase the Perform	M DTC CONFIRMATIOn tion switch ON. Self diagnostic result" v e DTC. DTC confirmation prod	ON PROCEDURE	
PERFORM Turn igni Check "S Erase the Perform s the DTC di	M DTC CONFIRMATIOn switch ON. Self diagnostic result" v e DTC.	ON PROCEDURE	
PERFORM Turn igni Check "S Erase the Perform the DTC di YES >> 0 NO >> 0	M DTC CONFIRMATIOn tion switch ON. Self diagnostic result" v e DTC. DTC confirmation pro- isplayed again? GO TO 2. Check intermittent incident	ON PROCEDURE	

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

					- P
Driver seat control unit connector	Terminal	Automatic drive positioner control unit con- nector	Terminal	Continuity	
B203	15	M63	8	Yes	-

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

B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit connector	Terminal	Ground	Continuity
B203	15	Giouna	No

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS > POWER SUPPLY AND GROUND CIRCUIT BCM BCM : Diagnosis Procedure Regarding Wiring Diagram information, refer to BCS-67, "Wiring Diagram". C 1. CHECK FUSE AND FUSIBLE LINK Check if the following BCM fuses or fusible link are blown. Image: the fuse of fusible link lown? YES YES >> Replace the blown fuse or fusible link after repairing the affected circuit. NO NO >> GO TO 2 2. CHECK POWER SUPPLY CIRCUIT 1. Turn ignition switch OFF. 2. Disconnect BCM. 3. Check voltage between BCM harness connector and ground. Image: the fuse or Turnial (+) (-) Voltage BCM (-) BCM M15
Regarding Wiring Diagram information, refer to BCS-67. "Wiring Diagram". C 1. CHECK FUSE AND FUSIBLE LINK D Check if the following BCM fuses or fusible link are blown. D <u>1 1 </u>
1. CHECK FUSE AND FUSIBLE LINK D Check if the following BCM fuses or fusible link are blown. Image: transmission of the following BCM fuses or fusible link are blown. D Image: transmission of the following BCM fuses or fusible link are blown. D Image: transmission of the following BCM fuses or fusible link are blown. E Image: transmission of the following BCM fuses or fusible link are blown. E Image: transmission of the following BCM fuse or fusible link after repairing the affected circuit. E Image: transmission of the following BCM fuses or fusible link after repairing the affected circuit. E NO >> GO TO 2 G 2. CHECK POWER SUPPLY CIRCUIT Image: transmission of the following BCM harness connector and ground. H Image: transmission of the following BCM harness connector and ground. Image: transmission of the following BCM (Approx.) ADF
Check if the following BCM fuses or fusible link are blown. D Image: Terminal No. Signal name Fuse and fusible link No. E Image: Terminal No. Signal name Fuse and fusible link No. E Image: Terminal No. Image: Terminal No. Image: Terminal No. E Image: Terminal No. Signal name Fuse and fusible link No. E Image: Terminal No. Image: Terminal No. Image: Terminal No. Image: Terminal No. Image: Terminal No. Image: Terminal No. Image: Terminal No. Image: Terminal No.
Terminal No. Signal name Fuse and fusible link No. E 1 Battery power supply 10 10 7 F 11 Battery power supply 10 7 F 12 24 7 F F 13 E 7 F F 14 Battery power supply 10 7 F 15 the fuse or fusible link blown? F F F YES >> Replace the blown fuse or fusible link after repairing the affected circuit. G G 2. CHECK POWER SUPPLY CIRCUIT 1 Turn ignition switch OFF. H 2. CHECK voltage between BCM harness connector and ground. H H 3. Check voltage between BCM harness connector and ground. H H Image: the full of th
1 H 11 Battery power supply 10 24 7 F Is the fuse or fusible link blown? 7 F YES >> Replace the blown fuse or fusible link after repairing the affected circuit. G NO >> GO TO 2 G 2. CHECK POWER SUPPLY CIRCUIT I Iurn ignition switch OFF. 1. Turn ignition switch OFF. Disconnect BCM. 3. Check voltage between BCM harness connector and ground. I Voltage G G G (+) (-) Voltage (Approx.) BCM (Approx.) ADF
1 H H 11 Battery power supply 10 24 7 F Is the fuse or fusible link blown? YES >> Replace the blown fuse or fusible link after repairing the affected circuit. G NO >> GO TO 2 G 2. CHECK POWER SUPPLY CIRCUIT H 1. Turn ignition switch OFF. H 2. Disconnect BCM. H 3. Check voltage between BCM harness connector and ground. H Voltage detween BCM harness connector and ground. Voltage detween BCM harness connector and ground. Voltage BEM GO G Connector Terminal
24 7 F Is the fuse or fusible link blown? YES >> Replace the blown fuse or fusible link after repairing the affected circuit. G NO >> GO TO 2 G G 2. CHECK POWER SUPPLY CIRCUIT I 1. Turn ignition switch OFF. H 2. Disconnect BCM. G 3. Check voltage between BCM harness connector and ground. I Voltage (Approx.) BCM (-) Connector Terminal
Is the fuse or fusible link blown? YES >> Replace the blown fuse or fusible link after repairing the affected circuit. NO >> GO TO 2 G CHECK POWER SUPPLY CIRCUIT 1. Turn ignition switch OFF. 2. Disconnect BCM. 3. Check voltage between BCM harness connector and ground. YES YES YES YES POWER SUPPLY CIRCUIT 1. Turn ignition switch OFF. 2. Disconnect BCM. 3. Check voltage between BCM harness connector and ground. Voltage (+) (-) Voltage (Approx.) BCM (Approx.)
YES >> Replace the blown fuse or fusible link after repairing the affected circuit. G NO >> GO TO 2 H 2. CHECK POWER SUPPLY CIRCUIT H 1. Turn ignition switch OFF. H 2. Disconnect BCM. H 3. Check voltage between BCM harness connector and ground. I Image: the second secon
Terminals Voltage (+) (-) BCM (Approx.) Connector Terminal
BCM (Approx.) Connector Terminal
BCM (Approx.) ADF Connector Terminal (Approx.)
M1G 1 Oracinal
M16 1 Ground K
M17 11 Battery voltage
M18 24
Is the measurement normal? L YES >> GO TO 3 NO >> Repair or replace harness. 3. CHECK GROUND CIRCUIT M Check continuity between BCM harness connector and ground. M
N
BCM Continuity
Connector Terminal Ground
M17 13 Yes O
Does continuity exist? YES >> Inspection End. NO >> Repair or replace harness. DRIVER SEAT CONTROL UNIT DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

NOTE:

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK POWER SUPPLY CIRCUIT

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

	Terminals				
(+)	(+)		Power source	Condition	Voltage (V)
Driver seat control unit connector	Terminal	(-)			(Approx.)
B211	37	Ground	Battery power supply	Ignition switch OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 2

NO

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

2. CHECK GROUND CIRCUIT

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

Driver seat control unit connector	Terminal	Ground	Continuity
B211	39		Yes

Is the inspection result normal?

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

NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:000000010051728

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:000000010051729

NOTE:

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

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK POWER SUPPLY CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control ur

Terminals

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

Terminal

25

(-)

Ground

unit. sitioner control unit		А
		В
Voltage (V) (Pyrex.)		С
Battery voltage	ALJIA0374ZZ	
		D

OFF

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JIA0373Z2

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Is the inspection result normal?

YES >> GO TO 2

NO

Automatic drive positioner

control unit connector M67

>> Check the following.

(+)

• Repair or replace harness.

• Circuit breaker.

2. CHECK GROUND CIRCUIT

Check continuity between narness connector and gro		rive position	er control unit
Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M67	30		Yes
a the inequation regult per	malO	L.	1

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:000000010051730	ADP
1.PERFORM ADDITIONAL SERVICE	
Perform additional service when removing battery negative terminal.	K
>> Refer to Owner's Manual.	L
	M
	Ν
	0
	Р

SLIDING SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

- 1. Select "SLIDE SW-FR", "SLIDE SW-RR" in "DATA MONITOR" mode with CONSULT.
- 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 (lotward)	Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
		Release	OFF

Is the indication normal?

YES >> Inspection End.

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

Diagnosis Procedure

INFOID:000000010051733

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK SLIDING SWITCH SIGNAL

1. Turn ignition switch OFF.

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

Driver seat control unit connec-	Term	Terminals		Condition	
tor	(+)	(-)	Condition		(Approx.)
	9			Operate (back- ward)	0
B203		Ground	Sliding switch	Release	Battery voltage
	25			Operate (forward)	0
	25			Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2. CHECK SLIDING SWITCH CIRCUIT

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

Driver seat control unit connec- tor	Terminal	Power seat switch LH connec- tor	Terminal	Continuity
B203	9	B213	6	Yes
6200	25	0215	7	165

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driv	er seat contro	ol unit connector	Terminal			Continuity
	DO	22	9		Ground	No
	B20		25			No
ES O CHE Coni Turn	>> GO TO >> Repair CK DRIVE nect the dr	or replace harness. R SEAT CONTROL U iver seat control unit.			or and ground	d.
				Terminals		
Driv	ver seat contro	ol unit connector	(+)		(-)	Voltage (V) (Approx.)
			9			
	B2	03	25		Ground	Battery voltage
IO CHE fer to the ins ES IO . CHE	CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTER	e driver seat control u G SWITCH <u>Component Inspection</u> <u>sult normal?</u> 5 e power seat switch L MITTENT INCIDENT	<u>"</u> .			assembly and Assembly".
NO efer to the ins YES NO CHE efer to the ins YES NO	>> Replac CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTER GI-41, "Inte spection res >> Replac >> Replac >> Replac	e driver seat control u G SWITCH Component Inspection sult normal? 5 e power seat switch L MITTENT INCIDENT ermittent Incident". sult normal? e driver seat control u or replace malfunction	<u>"</u> . H. Refer to <u>S</u> nit. Refer to <u>/</u>	E-77, "DRIVE	R SIDE : Disa	assembly and Assembly".
NO CHE efer to the ins YES NO CHE the ins YES NO OMPC CHE Turn Disc	>> Replac CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTER GI-41, "Inte spection res >> Replac >> Replac >> Replac >> Replac ch SLIDIN CK SLIDIN ignition sw connect pow	e driver seat control u G SWITCH Component Inspection sult normal? 5 e power seat switch L MITTENT INCIDENT ermittent Incident". sult normal? e driver seat control u or replace malfunction pection	<u>"</u> . H. Refer to <u>S</u> nit. Refer to <u>/</u> ning part.	E-77, "DRIVE	R SIDE : Disa	assembly and Assembly".
O CHE fer to the ins ES O CHE fer to the ins ES O DMDC CHE Turn Disc Che	>> Replac CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTER GI-41, "Inte spection res >> Replac >> Replac >> Replac >> Replac ch SLIDIN CK SLIDIN ignition sw connect pow	e driver seat control u G SWITCH <u>Component Inspection</u> <u>sult normal?</u> 5 e power seat switch L MITTENT INCIDENT <u>ermittent Incident"</u> . <u>sult normal?</u> e driver seat control u or replace malfunction cpection G SWITCH vitch OFF. ver seat switch LH.	<u></u>	E-77, "DRIVE	R SIDE : Disa	assembly and Assembly".
CHE fer to the ins ES CHE fer to the ins ES O DMDC CHE Turn Disc Che Te	>> Replac CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTER GI-41, "Inte spection res >> Replac >> Replac >> Replac >> Replac CK SLIDIN CK SLIDIN ignition sw connect pow ck continui	e driver seat control u G SWITCH Component Inspection sult normal? 5 e power seat switch L MITTENT INCIDENT ermittent Incident". sult normal? e driver seat control u or replace malfunction pection G SWITCH vitch OFF. ver seat switch LH. ty between power sea	H. Refer to <u>S</u> nit. Refer to <u>A</u> ning part.	E-77, "DRIVE ADP-169, "Re erminals.	R SIDE : Disa	assembly and Assembly".
CHE fer to the ins ES CHE fer to the ins ES O DMDC CHE Turn Disc Che Te	>> Replac CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTERI GI-41, "Intrespection res >> Replac >> Replac >> Replac >> Replac CK SLIDIN ignition sw connect pow ck continuir	e driver seat control u G SWITCH Component Inspection sult normal? 5 e power seat switch L MITTENT INCIDENT ermittent Incident". sult normal? e driver seat control u or replace malfunction pection G SWITCH vitch OFF. ver seat switch LH. ty between power sea	H. Refer to <u>S</u> nit. Refer to <u>A</u> ning part.	E-77, "DRIVE ADP-169, "Re erminals. Continuity Yes	R SIDE : Disa	assembly and Assembly".
IO CHE efer to the ins ES IO CHE ES IO CHE Turn Disc Che Ter	>> Replac CK SLIDIN ADP-51, "(spection res >> GO TO >> Replac CK INTER GI-41, "Inte spection res >> Replac >> Replac >> Replac >> Replac CK SLIDIN ignition sw ck continui rminal eat switch LH	e driver seat control u G SWITCH Component Inspection sult normal? 5 e power seat switch L MITTENT INCIDENT ermittent Incident". sult normal? e driver seat control u or replace malfunction pection G SWITCH vitch OFF. ver seat switch LH. ty between power sea	H. Refer to <u>S</u> nit. Refer to <u>A</u> ning part.	E-77, "DRIVE ADP-169, "Re erminals.	R SIDE : Disa	assembly and Assembly".

NO >> Replace power seat switch LH. Refer to <u>SE-77, "DRIVER SIDE : Disassembly and Assembly"</u>.

RECLINING SWITCH

Description

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

Component Function Check

1.CHECK FUNCTION

1. Select "RECLN SW-FR", "RECLN SW-RR" in "DATA MONITOR" mode with CONSULT.

2. Check reclining switch signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to ADP-52, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000010051737

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK RECLINING SWITCH SIGNAL

1. Turn ignition switch OFF.

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

Driver seat control unit	Terminals				Condition		Voltage (V)
connector	(+)	(-)	(Approx.)				
	24			Operate (forward)	0		
	24				Battery voltage		
B203	8	Ground	Reclining switch	Operate (back- ward)	0		
				Release	Battery voltage		

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2. CHECK RECLINING SWITCH CIRCUIT

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

Driver seat control unit connec- tor	Terminal	Power seat switch LH connec- tor	Terminal	Continuity
B203	24	B213	5	Yes
6200	8	6215	10	165

INFOID:000000010051735

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat co connec		Ter	minal		Continuity
			:	24	Ground	
	B203			8		No
YES NO 3. CHEO	CK DRIVER	replace harnes SEAT CONTRC er seat control u	UNIT OUT	PUT		
	ignition swite ck voltage be		at control unit	harness conne	ector and ground.	
Driver e	eat control unit	connector		Terminals		Voltage (V)
Diriver 3			(+)		()	(Approx.)
	B203		8		Ground	Battery voltage
NO 5. CHEC Refer to g	CK INTERMI GI-41, "Interr pection resul >> Replace (TTENT INCIDE nittent Incident" It normal?	NT rol unit. Refer	to <u>ADP-169, "F</u>	/ER SIDE : Disass	embly and Assembly".
YES						
YES NO Compo	nent Inspe					INFOID:00000001005
YES NO Compo 1. CHEC	nent Inspe	NG SWITCH				INFOID:00000001005
YES NO Compo 1. CHEO 1. Turn 2. Disco	CK RECLINII	NG SWITCH		H terminals.		INFOID:0000000100
YES NO Compo 1. CHE0 1. Turn 2. Disco 3. Cheo Te	CK RECLINII	NG SWITCH ch OFF. r seat switch LH	seat switch L	H terminals. Continuity	_	INFOID:00000001005
YES NO Compo 1. CHEC 1. Turn 2. Disco 3. Chec Te	CK RECLINII ignition swite onnect powe ck continuity rminals eat switch LH	NG SWITCH ch OFF. r seat switch LH between power	seat switch L			INFOID:00000001005
YES NO Compo 1. CHE0 1. Turn 2. Disco 3. Cheo Te	CK RECLINII ignition swite onnect powe ck continuity	NG SWITCH ch OFF. r seat switch LH between power Condi	seat switch L tion Operate Release	Continuity		INFOID:0000000100.
YES NO Compo 1. CHE0 1. Turn 2. Disco 3. Cheo Te Power so	CK RECLINII ignition swite onnect powe ck continuity rminals eat switch LH	NG SWITCH ch OFF. r seat switch LH between power Condi Reclining switch	seat switch L tion Operate	Continuity Yes		INFOID:00000000100

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>SE-77, "DRIVER SIDE : Disassembly and Assembly"</u>.

LIFTING SWITCH (FRONT)

Description

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

Component Function Check

1. CHECK FUNCTION

- 1. Select "LIFT FR SW-UP", "LIFT FR SW-DN" in "DATA MONITOR" mode with CONSULT.
- 2. Check lifting switch (front) signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-54, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010051741

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK LIFTING SWITCH SIGNAL

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

Driver seat control unit	Term	ninals	Condition		Voltage (V)
connector	(+)	(-)			(Approx.)
	7			Operate (down)	0V
B203	1	Ground	Lifting switch	Release	Battery voltage
B203	23	Ground	(front)	Operate (up)	0V
	23			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 connec- tor	Terminal	Continuity
B203	7	B213	1	Yes
5200	23	6215	2	

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

INFOID:000000010051739

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat c conne		Terminal		Ground	Continuity
	500	2	7		Ground	N1.
	B20	3	23			No
YES > NO > . CHEC . Conne . Turn i . Chect	> GO TO > Repair of K DRIVER ect the driv gnition swi	or replace harness. R SEAT CONTROL UN ver seat control unit. itch ON. etween driver seat con	IT OUTPUT	ness connec Ferminals	tor and ground.	Voltage (V) (Approx.)
	B203		23		Ground	Battery voltage
<u>s the ins</u> p YES >	ection res					
D. CHEC Refer to <u>G</u> s the insp YES > NO > Compor	K INTERM ection res > Replace > Repair of hent Insp	IITTENT INCIDENT rmittent Incident". ult normal? driver seat control un or replace the malfunct	it. Refer to <u>Al</u>			sembly and Assembly". Illation".
D. CHEC Refer to <u>G</u> s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	K INTERM ection res > Replace > Repair of nent Insp K LIFTING gnition swi nnect pow	IITTENT INCIDENT <u>mittent Incident"</u> . <u>ult normal?</u> driver seat control un pr replace the malfunct Dection S SWITCH (FRONT)	it. Refer to <u>Al</u> ioning part.	DP-169, "Re		Illation".
D. CHEC Refer to G s the insp YES > NO > Compor D. CHEC I. Turn i 2. Disco 3. Check	K INTERM il-41, "Inte ection res > Replace > Repair of nent Insp K LIFTING gnition sw nnect pow < continuity ninal	IITTENT INCIDENT <u>mittent Incident"</u> . <u>ult normal?</u> driver seat control un or replace the malfunct Dection SWITCH (FRONT) itch OFF. er seat switch LH.	it. Refer to <u>Al</u> ioning part.	DP-169, "Re		Illation".
D. CHEC Refer to G s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	K INTERM ection res > Replace > Repair of nent Insp K LIFTING gnition swi nnect pow	IITTENT INCIDENT mittent Incident". ult normal? driver seat control un or replace the malfunct Dection S SWITCH (FRONT) itch OFF. er seat switch LH. / between power seat Condition	it. Refer to <u>Al</u> ioning part. switch LH ter	DP-169, "Re		Illation".
D. CHEC Refer to G s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check Terr Power sea	K INTERM il-41, "Inte ection res > Replace > Repair of nent Insp K LIFTING gnition sw nnect pow < continuity ninal	IITTENT INCIDENT mittent Incident". ult normal? driver seat control un or replace the malfunct oection S SWITCH (FRONT) itch OFF. er seat switch LH. / between power seat	it. Refer to <u>Al</u> ioning part.	DP-169, "Re minals.		Illation".
5. CHEC Refer to G Is the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	K INTERM il-41, "Inter ection res > Replace > Repair of nent Insp K LIFTING gnition swinnect pow c continuity ninal t switch LH	IITTENT INCIDENT mittent Incident". ult normal? driver seat control un or replace the malfunct Dection S SWITCH (FRONT) itch OFF. er seat switch LH. / between power seat Condition	it. Refer to <u>Al</u> ioning part. switch LH ter	DP-169, "Re minals. Continuity Yes		<u>Illation"</u> .

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>SE-77, "DRIVER SIDE : Disassembly and Assembly"</u>.

LIFTING SWITCH (REAR)

Description

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

Component Function Check

1. CHECK FUNCTION

1. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in "DATA MONITOR mode with CONSULT.

2. Check lifting switch (rear) signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-56, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010051745

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK LIFTING SWITCH (REAR) SIGNAL

1. Turn ignition switch OFF.

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

Driver seat control	Term	ninals		Condition	Voltage (V)			
unit connector	(+)	(-)	(Approx.		(Approx.)			
	6			Operate (down)	0			
B203	0	Ground	Lifting switch	Release	Battery voltage			
B203	22	Ground	Ground	Crodina	Ground	(rear)	Operate (up)	0
	22			Release	Battery voltage			

Is the inspection result normal?

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

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seat control unit con- nector	Terminal	Power sear switch LH connec- tor	Terminal	Continuity
B203	6	B213	8	Yes
6200	22	D210	9	103

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

INFOID:000000010051743

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat control unit connector		Terminal			Continuity	
	B203		6		Ground	No	
	B203		22			No	
	ection result normal? > GO TO 3						
	Repair or replace has a second sec	arness.					
3. снес	K DRIVER SEAT COM	ITROL UNI	T OUTPUT				
	ect the driver seat con	trol unit.					
	gnition switch ON. < voltage between driv	er seat con	trol unit har	ness connect	or and ground		
. 011001	e voltago bottioon anv	or oour oon			or and ground.		
Driver s	eat control unit connector		Ter	minals		Voltage (V)	
Briver se		(+)	(–)		(Approx.)	
	B203		6	Ground	d	Battery voltage	
		2	22			, ,	
	ection result normal?						
	 > GO TO 4 > Replace driver seat 	control unit	. Refer to 4	DP-169. "Rer	noval and Instal	lation".	
	K LIFTING SWITCH (
	DP-57, "Component li	-					
	ection result normal?	<u></u>					
YES >	> GO TO 5						
			Refer to S	<u>E-77, "DRIVEI</u>	R SIDE : Disass	embly and Assembly".	
	K INTERMITTENT IN						
Refer to 🖸	I-41, "Intermittent Inci	<u>dent"</u> .					
s the insp	ection result normal?	control unit	Dofor to /	DD 160 "Dor	noval and Instal	lation"	
<u>s the insp</u> YES >	> Replace driver seat			<u>DP-169, "Rer</u>	noval and Insta	lation".	
<u>s the insp</u> YES > NO >	 Replace driver seat Repair or replace th 			<u>\DP-169, "Rer</u>	noval and Insta		
s the insp YES > NO > Compor	 Replace driver seat Repair or replace the nent Inspection 	e malfunctio		<u>\DP-169, "Rer</u>	noval and Insta	lation".	
s the insp YES > NO > Compor	 Replace driver seat Repair or replace th 	e malfunctio		<u>\DP-169, "Rer</u>	noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i	 Replace driver seat Repair or replace th nent Inspection K LIFTING SWITCH (gnition switch OFF. 	e malfunctio		<u>ADP-169, "Rer</u>	noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco	 Replace driver seat Repair or replace the nent Inspection K LIFTING SWITCH (gnition switch OFF. nnect power seat switch 	e malfunctio REAR) ch LH.	oning part.		noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco	 Replace driver seat Repair or replace th nent Inspection K LIFTING SWITCH (gnition switch OFF. 	e malfunctio REAR) ch LH.	oning part.		noval and Insta		
<u>s the insp</u> YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	 Replace driver seat Repair or replace the nent Inspection K LIFTING SWITCH (gnition switch OFF. nnect power seat switch 	e malfunctio REAR) ch LH. ower seat s	oning part.	erminals.	noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	 Replace driver seat Repair or replace the sent inspection K LIFTING SWITCH (gnition switch OFF. nnect power seat switted continuity between p 	e malfunctio REAR) ch LH.	oning part.		noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	> Replace driver seat > Repair or replace the sent Inspection K LIFTING SWITCH (gnition switch OFF. nnect power seat switch continuity between p minal at switch LH	e malfunctio REAR) ch LH. ower seat s Condition	oning part.	erminals.	noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check Ter Power sea	 Replace driver seat Repair or replace the nent Inspection K LIFTING SWITCH (gnition switch OFF. nnect power seat switch continuity between p 	e malfunctio REAR) ch LH. ower seat s Condition	oning part.	erminals. Continuity	noval and Insta		
s the insp YES > NO > Compor 1. CHEC 1. Turn i 2. Disco 3. Check	> Replace driver seat > Repair or replace the sent Inspection K LIFTING SWITCH (gnition switch OFF. nnect power seat switch continuity between p minal at switch LH 9 Lifting switch	e malfunctio REAR) ch LH. ower seat s Condition	witch LH te	erminals. Continuity Yes	noval and Insta		

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>SE-77, "DRIVER SIDE : Disassembly and Assembly"</u>.

TILT SWITCH

Description

ADP steering switch (tilt switch) is equipped to the steering column. The operation signal is input to the automatic drive positioner control unit when the tilt switch is operated.

Component Function Check

1. CHECK FUNCTION

1. Select "TILT SW-UP", "TILT SW-DOWN" in "DATA MONITOR" mode with CONSULT.

2. Check tilt switch signal under the following conditions.

Monitor item	Cor	Condition	
TILT SW-UP	Tilt owitch (upword)	Operate	ON
	Tilt switch (upward)	Release	OFF
TILT SW-DOWN	Tilt switch (downward)	Operate	ON
	The Switch (downward)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to ADP-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000010051749

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK TILT SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect ADP steering switch (tilt switch).
- 3. Check voltage between ADP steering switch harness connector and ground.

ADP steering st	/	()	Voltage (V) (Approx.)	
Connector	Terminals		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
M39	4	Ground	5	
14129	5	Ground	5	

Is the inspection result normal?

YES >> GO TO 3

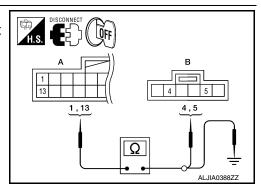
NO >> GO TO 2

2. CHECK TILT SWITCH CIRCUIT

1. Disconnect automatic drive positioner control unit.

Check continuity between automatic drive positioner control unit harness connector and ADP steering switch harness connector.

Automatic drive positioner control unit		ADP steering s	Continuity	
Connector	Terminal	Connector	Terminal	
M63 (A)	1	M39 (B)	4	Yes
1005 (A)	13	моэ (в)	5	165



INFOID:000000010051747

TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	1	Automatic drive positioner	control unit			Continuity
	Conne	ctor	Termina	al	Ground	Continuity
	M63	(Δ)	1			No
	MOS	(/)	13			NO
	•	result normal?				
YES NO	>> Repl	ace automatic drive p air or replace harness	ositioner un	it. Refer to <u>ADP</u>	-169, "Removal and	Installation".
-	•	SWITCH				
		"Component Inspect	tion".			
		result normal?				
	>> GO					
NO 1 CUE		ace ADP steering sw RMITTENT INCIDEN		cn). Refer to <u>AD</u>	<u>P-172, "Removal ar</u>	iu installation".
_	-					
Refer to	<u>GI-41, "I</u>	ntermittent Incident".				
	>> Insp	ection End.				
	•					
Compo	onent li	nspection				INFOID-00000001005175
		nspection				INFOID:00000001005175
		nspection swiтcн				INFOID:00000001005175
1. CHE 1. Turn	CK TILT	SWITCH switch OFF.				INFOID:00000001005175
1. CHE 1. Turn 2. Disc	CK TILT ignition	SWITCH		h terminals.		INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che	CK TILT i ignition connect A ck contir	SWITCH switch OFF. ADP steering switch (i		h terminals.		INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s	CK TILT i ignition connect A ck contir	SWITCH switch OFF. ADP steering switch (i nuity between ADP steering				INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti	CK TILT i ignition connect A ck contir	SWITCH switch OFF. ADP steering switch (i		h terminals. Continuity		INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti	CK TILT ignition connect A ck contir teering it switch) ninal	SWITCH switch OFF. ADP steering switch (in auity between ADP steering Condition			<u>-</u>	INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti Tern	CK TILT ignition connect A ck contir teering it switch)	SWITCH switch OFF. ADP steering switch (i nuity between ADP steering	eering switcl	Continuity	- -	INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti	CK TILT ignition connect A ck contir teering ilt switch) ninal 4	SWITCH switch OFF. ADP steering switch (in huity between ADP steering Condition	eering switcl	Continuity Yes	- - -	INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti Tern	CK TILT ignition connect A ck contir teering it switch) ninal	SWITCH switch OFF. ADP steering switch (in auity between ADP steering Condition	Operate Release	Continuity Yes No	- - -	INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti Tern 1 s the ins	CK TILT ignition connect A ck contir teering it switch) ninal 4 5 spection	SWITCH switch OFF. ADP steering switch (in ouity between ADP steering Condition Tilt switch (upward) Tilt switch (downward)	Operate Release Operate	Continuity Yes No Yes	- - - -	INFOID:00000001005175
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti Tern 1 s the ins YES	CK TILT ignition connect A ck contir teering lit switch) ninal 4 5 spection >> Inspection	SWITCH switch OFF. ADP steering switch (indity between ADP steering switch (indity between ADP steering) Condition Tilt switch (upward) Tilt switch (downward) result normal? ection End.	Operate Release Operate Release	Continuity Yes No Yes No	- - - - -	
1. CHE 1. Turn 2. Disc 3. Che ADP s switch (ti Tern 1 s the ins	CK TILT ignition connect A ck contir teering lit switch) ninal 4 5 spection >> Inspection	SWITCH switch OFF. ADP steering switch (in ouity between ADP steering Condition Tilt switch (upward) Tilt switch (downward)	Operate Release Operate Release	Continuity Yes No Yes No	- -	
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TELESCOPIC SWITCH

Description

ADP steering switch (telescopic switch) is equipped to the steering column. The operation signal is input to the automatic drive positioner control unit when the telescopic switch is operated.

Component Function Check

INFOID:000000010051752

INFOID:000000010051751

1. CHECK FUNCTION

- 1. Select "TELESCO SW-FR", "TELESCO SW-RR" in "DATA MONITOR" mode with CONSULT.
- 2. Check telescopic switch signal under the following conditions.

Monitor item	Conditio	Status	
TELESCO SW-FR	Telescopic switch (forward)	Operate	ON
TELESCO SW-TR		Release	OFF
TELESCO SW-RR	Telescopic switch (backward)	Operate	ON
ILLIGOU GW-RR	Telescopic Switch (Dackwalu)	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-60, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010051753

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK TELESCOPIC SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect ADP steering switch (telescopic switch).
- 3. Check voltage between ADP steering switch harness connector and ground.

	+) h (telescopic switch)	(-)	Voltage (V) (Approx.)
Connector	Terminals		(, , , , , , , , , , , , , , , , , , ,
M39	2	Ground	5
10139	3	Ground	5

Is the inspection result normal?

YES >> GO TO 3

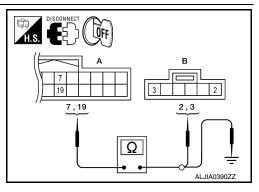
NO >> GO TO 2

2. CHECK TELESCOPIC SWITCH CIRCUIT

1. Disconnect automatic drive positioner control unit.

Check continuity between automatic drive positioner control unit harness connector and ADP steering switch harness connector.

	oositioner control nit	ADP steering switch (tele- scopic switch)		Continuity
Connector	Terminal	Connector	Terminal	
M63 (A)	7	M39 (B)	2	Yes
1005 (A)	19	ызэ (Б)	3	165



TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Connector Terminal Ground M63 (A) 7 No 19 No No		Automatic driv	ve positioner control u	nit			Continuity
M63 (A) 7 No the inspection result normal? ES >> Replace automatic drive positioner unit. Refer to ADP-169, "Removal and Installation". O >> Repair or replace harness. CHECK TELESCOPIC SWITCH fer to ADP-61, "Component Inspection". the inspection result normal? ES >> GO TO 4 O >> Replace ADP steering switch (telescopic switch). Refer to ADP-172, "Removal and Installation". CHECK INTERMITTENT INCIDENT fer to GI-41, "Intermittent Incident". >> Inspection End. pomponent Inspection CHECK TELESCOPIC SWITCH Turn ignition switch OFF. Disconnect ADP steering switch (telescopic switch). Check continuity between ADP steering switch terminals. ADP steering switch (telescopic switch). Check continuity between ADP steering switch terminals. ADP steering switch (telescopic switch) 1 2 1 2 3 Telescopic switch 3 Telescopic switch	Cor	nnector	Term	ninal		Ground	Continuity
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SEAT MEMORY SWITCH

Description

INFOID:000000010051755

Seat memory switch is installed to the front door LH trim. The operation signal is input to the driver seat control unit when the seat memory switch is operated.

Component Function Check

INFOID:000000010051756

1. CHECK FUNCTION

1. Select ""MEMORY SW 1", "MEMORY SW 2", "SET SW" in "DATA MONITOR" mode with CONSULT.

2. Check seat memory switch signal under the following conditions.

Monitor item	Conc	Condition	
MEMORY SW 1	Memory switch 1	Push	ON
MEMORT SW 1	Memory Switch 1	Release	OFF
MEMORY SW 2	Memory switch 2	Push	ON
MEMORT 3W 2	Memory Switch 2	Release	OFF
SET SW	Set switch	Push	ON
	Set Switch	Release	OFF

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-62, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010051757

Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

1. CHECK SEAT MEMORY SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit.

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

	(+) Driver seat control unit		Voltage (V) (Approx.)
Connector	Terminals		(, , , , , , , , , , , , , , , , , , ,
	11		
B203	21	Ground	5
	27		

Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

2. CHECK MEMORY SWITCH CIRCUIT

1. Disconnect seat memory switch.

2. Check continuity between driver seat control unit harness connector and seat memory switch harness connector.

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver se	eat control unit	Seat mem	ory switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	11		2	
B203	21	D13	3	Yes
	27		1	
Check continuity b	etween driver seat cont	rol unit harness conne	ector and ground	1.
			1	
	control unit			Continuity
Connector	Terminal			·
	11	Ground		
B203	21			No
	27			
the inspection result				llation"
	river seat control unit. R replace harness.	eler to <u>ADP-169, "Ref</u>	noval and insta	
	SWITCH GROUND CIF	RCUIT		
	een seat memory switch		ad around	
leck continuity betwe	sen seat memory switch		la grouna.	
Sea	t memory switch			
Connector	Terminal	Gro	und	Continuity
D13	4			Yes
the inspection result	normal?			
'ES >> GO TO 4				
•	replace harness.			
. CHECK SEAT ME	MORY SWITCH			
efer to <u>ADP-63, "Con</u>	nponent Inspection".			
the inspection result	normal?			
'ES >> GO TO 5.				
IO >> Replace set	eat memory switch. Ref	er to <u>ADP-171, "Remo</u>	oval and Installa	<u>tion"</u> .
•				
. CHECK INTERMIT	TENT INCIDENT			
•				
CHECK INTERMIT	ittent Incident".			
. CHECK INTERMIT	ittent Incident".			
CHECK INTERMIT	<u>ittent Incident"</u> . End.			INFOID:000000010051
CHECK INTERMIT efer to <u>GI-41, "Interm</u> >> Inspection omponent Inspe	ittent Incident". End. ction			INFOID:000000010051
CHECK INTERMIT efer to <u>GI-41, "Interm</u> >> Inspection omponent Inspe . CHECK SEAT MEI	ittent Incident". End. ction MORY SWITCH			INFOID:000000010051
CHECK INTERMIT efer to <u>GI-41, "Interm</u> >> Inspection omponent Inspe . CHECK SEAT MEI Turn ignition switc	ittent Incident". End. ction MORY SWITCH h OFF.			INFOID:000000010051
CHECK INTERMIT efer to <u>GI-41. "Interm</u> >> Inspection Omponent Inspe . CHECK SEAT MEI Turn ignition switc Disconnect seat m	ittent Incident". End. Ction MORY SWITCH h OFF. hemory switch.	witch terminals.		INFOID:000000010051
CHECK INTERMIT efer to <u>GI-41. "Interm</u> >> Inspection Omponent Inspe . CHECK SEAT MEI Turn ignition switc Disconnect seat m	ittent Incident". End. ction MORY SWITCH h OFF.	witch terminals.		INFOID:000000010051

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Term Seat mem	-	Condition		Continuity
	1	Momony quitch 1	Push	Yes
	I	Memory switch 1	Release	No
4	Push		Push	Yes
4	2	Memory switch 2	Release	No
	2	Cat awitab	Push	Yes
	3	Set switch	Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace seat memory switch. Refer to <u>ADP-171, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

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

1. CHECK FUNCTION

- 1. Select "MIR CHNG SW-R", "MIR CHNG SW-L" in "DATA MONITOR" mode with CONSULT.
- 2. Check changeover switch signal under the following conditions.

Monitor item	C	Condition	Status	
MIR CHNG SW-R	Mirror switch (right)	Operate	ON	_
	wintor switch (right)	Release	OFF	F
MIR CHNG SW-L	Mirror owitch (loft)	Operate	ON	
	Mirror switch (left)	Release	OFF	G

Is the indication normal?

- YES >> Inspection End.
- NO >> Perform diagnosis procedure. Refer to <u>ADP-65</u>, "CHANGEOVER SWITCH : Diagnosis Proce- H <u>dure"</u>.

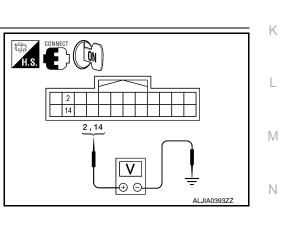
CHANGEOVER SWITCH : Diagnosis Procedure

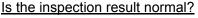
Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

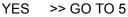
1. CHECK CHANGEOVER SWITCH SIGNAL

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

Te	Terminals				
(+)	(+)		Change over switch	Voltage (V)	
Automatic drive positioner control unit connector	Terminal	(-)	condition	(Approx.)	
	2	Ground	RIGHT	0	
M63	2		Other than above	5	
MOS	14		LEFT	0	
	14		Other than above	5	







NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

ADP

Ρ

А

В

D

Е

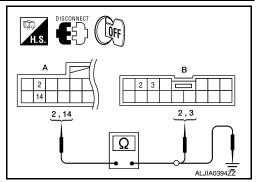
INFOID:0000000010051759

INFOID:0000000010051760

< DTC/CIRCUIT DIAGNOSIS >

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

Automatic drive positioner control unit connector	Terminal	Door mirror re- mote control switch connector	Terminal	Continuity
M63 (A)	2	M108 (B)	3	Yes
1000 (A)	14	W100 (B)	2	165



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

Automatic drive positioner control unit connector	Terminal		Continuity
 M63 (A)	2	Ground	No
	14		NO

Is the inspection result normal?

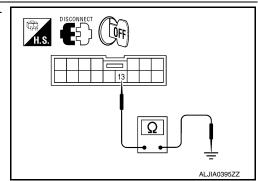
YES >> GO TO 3

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
M108	13		Yes



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK CHANGEOVER SWITCH

Check changeover switch.

Refer to ADP-66, "CHANGEOVER SWITCH : Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".

NO >> Replace door mirror remote control switch. Refer to <u>IP-10, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>. NO >> Repair or replace the malfunctioning parts.

CHANGEOVER SWITCH : Component Inspection

INFOID:000000010051762

1. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch.

Terminal	Change over switch	Continuity
Door mirror remote control switch	condition	Continuity

< DTC/CIRCUIT DIAGNOSIS > LEFT Yes 2 А Other than above No 13 RIGHT Yes 3 Other than above No Is the inspection result normal? YES >> Inspection End. >> Replace door mirror remote control switch. Refer to IP-10, "Exploded View". NO MIRROR SWITCH **MIRROR SWITCH : Description** INFOID:000000010051763 D It operates angle of the door mirror face. It transmits mirror face adjust operation to automatic drive positioner control unit. Ε MIRROR SWITCH : Component Function Check INFOID:000000010051764 1. CHECK FUNCTION Select "MIR CON SW-UP/DN", "MIR CON SW-RH/LH " in "DATA MONITOR" mode with CONSULT. 1. 2. Check mirror switch signal under the following conditions. Monitor item Condition Status Operate ON MIR CON SW-UP/DN Mirror switch (up/down) Н Release OFF Operate ON MIR CON SW-RH/LH Mirror switch (right/left) OFF Release Is the indication normal? YES >> Inspection End. >> Perform diagnosis procedure. Refer to ADP-67, "MIRROR SWITCH : Diagnosis Procedure". NO ADP MIRROR SWITCH : Diagnosis Procedure INFOID:000000010051765 Κ Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram". 1. CHECK MIRROR SWITCH FUNCTION Turn ignition switch ON. 1. 2. Check voltage between automatic drive positioner control unit Μ connector and ground. 4 3 Ν 15 16 3,4,15,16 ALJIA0397ZZ

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< DTC/CIRCUIT DIAGNOSIS >

Terminals						
(+)			Mirror switch	Voltage (V)		
Automatic drive positioner control unit connector	Terminal	(–)	Condition	(Approx.)		
	3		UP	0		
	5		Other than above	5		
	4 M63 15		LEFT	0		
M63		Ground	Other than above	5		
MOS		15		Ground	DOWN	0
			Other than above	5		
-	10		RIGHT	0		
	16		Other than above	5		

Is the inspection result normal?

YES >> GO TO 5 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 remote control switch con- nector	Terminal	Continuity
	3		6	
M63	4	M108	5	Yes
IVIOS	15	IVI I UO	14	Tes
	16		4	

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

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
	3		
Mea	4		No
M63	15		No
	16		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

 $\mathbf{3}$. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between door mirror remote control switch connec-

Door mirror remote control switch connector	Terminal	Ground	Continuity	
M108	13	Cround	Yes	-
the inspection result r	ormal?			
ES >> GO TO 4				
O >> Repair or re	place harness			ALJIA0395ZZ
CHECK MIRROR S	WITCH			Admosel
eck mirror switch.				
fer to <u>ADP-69, "MIRR</u>		: Component	Inspection".	
<u>the inspection result r</u> ES >> Refer to <u>GI-</u>		nt Incident"		
O >> Replace do	or mirror remot	te control swit	tch. Refer to <u>IP-1</u>	0. "Exploded View".
CHECK INTERMITT	ENT INCIDEN	IT		
eck intermittent incide				
fer to <u>GI-41, "Intermit</u>				
the inspection result r			haling't Defeate	ADD 470 "Democratics disetalistics"
				ADP-170, "Removal and Installation".
O >> Repair or re	place the malf	unctioning pa	irts.	
0 >> Repair or re	•	•		
0 >> Repair or re	•	•		INFCID:0000000100517
	: Compone	•		
RROR SWITCH	: Compone wiтсн	ent Inspect		
RROR SWITCH	: Compone wiтсн	ent Inspect		
RROR SWITCH	: Compone WITCH te control swite	ch.		
RROR SWITCH CHECK MIRROR SV leck door mirror remove Terminal Door mirror remote	: Compone wiтсн	ch.		
RROR SWITCH CHECK MIRROR SV leck door mirror remo	: Compone WITCH te control switc	ch.	Continuity	
RROR SWITCH CHECK MIRROR SV leck door mirror remove Terminal Door mirror remote	: Compone WITCH te control switc Mirror switch	ch.	ion Continuity Yes	
RROR SWITCH CHECK MIRROR SV eck door mirror remover Terminal Door mirror remote control switch	: Compone WITCH te control switc Mirror switch RIGHT Other than abo	ch.	Continuity Yes No	
RROR SWITCH CHECK MIRROR SV eck door mirror remove Terminal Door mirror remote control switch 4	: Compone WITCH te control switc Mirror switch RIGHT Other than abo LEFT	ch.	ion Continuity Yes	
A RROR SWITCH	: Compone WITCH te control switc Mirror switch RIGHT Other than abo	ch.	Continuity Yes No Yes	
RROR SWITCH CHECK MIRROR SV eck door mirror remove Terminal Door mirror remote control switch 4	: Compone WITCH te control switc Mirror switch RIGHT Other than abo LEFT Other than abo	ch.	Continuity Yes No Yes No	
IRROR SWITCH CHECK MIRROR S eck door mirror remote Terminal Door mirror remote control switch 4 5 13 6	: Compone WITCH te control switc Mirror switch RIGHT Other than abo LEFT Other than abo UP	ch.	Continuity Yes No Yes No Yes	
IRROR SWITCH CHECK MIRROR S eck door mirror remote Terminal Door mirror remote control switch 4 5 13	: Compone WITCH te control switc Mirror switch RIGHT Other than abo LEFT Other than abo UP Other than abo	ch.	Continuity Yes No Yes No	
IRROR SWITCH CHECK MIRROR SWITCH Indeck door mirror remote Control switch 4 5 13 6 14	: Compone WITCH te control switc Mirror switch RIGHT Other than abo LEFT Other than abo UP Other than abo DOWN Other than abo	ch.	Continuity Yes No Yes No Yes No Yes No Yes	
IRROR SWITCH CHECK MIRROR SWITCH CHECK MIRROR SWITCH Deck door mirror remote Control switch 4 5 13 6 14	: Compone WITCH te control switch Mirror switch RIGHT Other than abo LEFT Other than abo UP Other than abo DOWN Other than abo	ch.	Continuity Yes No Yes No Yes No Yes No Yes	
IRROR SWITCH CHECK MIRROR SWITCH CHECK MIRROR SWITCH Deck door mirror remote Control switch 4 5 13 6 14 the inspection result re	: Compone WITCH te control switch Mirror switch RIGHT Other than abo LEFT Other than abo UP Other than abo DOWN Other than abo DOWN Other than abo	ent Inspect	ion Continuity Yes No Yes No Yes No Yes No	
IRROR SWITCH CHECK MIRROR SWITCH CHECK MIRROR SWITCH Deck door mirror remote Control switch 4 5 13 6 14 the inspection result re	: Compone WITCH te control switch Mirror switch RIGHT Other than abo LEFT Other than abo UP Other than abo DOWN Other than abo DOWN Other than abo	ent Inspect	ion Continuity Yes No Yes No Yes No Yes No	

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POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000010051767

Regarding Wiring Diagram information, refer to ADP-150. "Wiring Diagram".

1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

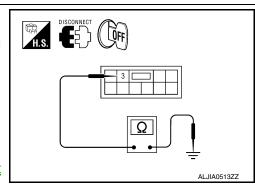
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch LH.
- 3. Check continuity between power seat switch LH connector and ground.

Power seat switch LH connector	Terminal	Ground	Continuity
B213	3		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent</u> <u>Incident"</u>.

NO >> Repair or replace harness.



TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Continuity

Yes

< DTC/CIRCUIT DIAGNOSIS >

TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK ADP STEERING SWITCH (TILT & TELESCOPIC SWITCH) GROUND CIRCUIT

Ground

- 1. Turn ignition switch OFF.
- 2. Disconnect ADP steering switch (tilt & telescopic switch).

Terminal

1

3. Check continuity between ADP steering switch (tilt & telescopic switch) and ground.

H.S. DISCONNECT	D
	E
	F
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Is the inspection result normal?

Connector

M39

- YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent</u> <u>Incident"</u>.
- NO >> Repair or replace harness.

ADP steering switch (tilt & telescopic switch)

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FRONT DOOR SWITCH (DRIVER SIDE)

Description

Detects front door LH open/close condition.

Component Function Check

1. CHECK FUNCTION

1. Select "DOOR SW-FL" in "DATA MONITOR" mode with CONSULT.

2. Check the front door switch signal under the following conditions.

Monitor item	Condition		Status
DOOR SW-FL	Front door switch LH	Open	ON
DOOR SW-I L		Close	OFF

Is the indication normal?

YES >> Inspection End.

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

Diagnosis Procedure

INFOID:000000010051771

Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

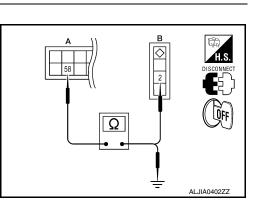
1. CHECK FRONT DOOR SWITCH LH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- Check continuity between BCM connector and front door switch LH connector.

BCM connector	Terminal	Front door switch LH connector	Terminal	Continuity
M18 (A)	58	B8 (B)	2	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	58	Glound	No



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK FRONT DOOR SWITCH LH

Refer to ADP-73, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace front door switch LH. Refer to <u>DLK-230</u>, "Removal and Installation".

 ${f 3.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

INFOID:000000010051769

FRONT DOOR SWITCH (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

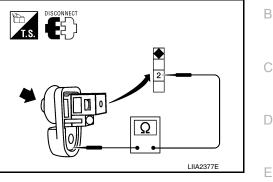
INFOID:000000010051772

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1. CHECK FRONT DOOR SWITCH LH

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

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



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door switch LH. Refer to <u>DLK-230, "Removal and Installation"</u>.



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SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR

Description

- The sliding sensor is installed to the seat 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.
- 2. Check sliding sensor switch signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

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

Diagnosis Procedure

INFOID:000000010051775

Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

1. CHECK SLIDING SENSOR SIGNAL

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

	Terminals				
(+))		Condition		Voltage signal
Driver's seat control unit	Terminal	(-)			
B203	31	Ground	Seat sliding	Operate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".
- NO >> GO TO 2
- **2.** CHECK SLIDING SENSOR CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and front power seat LH (sliding motor).
- 3. Check continuity between driver seat control unit harness connector and front power seat LH (sliding motor) harness connector.

INFOID:0000000010051773

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SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Connector	seat control unit		-ront power seat	LH (sliding motor)	Continuity
	Termin	al	Connector	Terminal	Continuity
B203	31		B206	12	Yes
Check contin	uity between driv	er seat control	unit harness c	onnector and grour	nd.
	Driver seat control				Continuity
Connecto)r	Terminal		Ground	Ne
B203		31			No
			,		
. Turn ignition . Check voltag	er seat control un switch ON. e between front p or and ground.	-	(sliding motor)	har-	
(+)			— -	
	g motor	(-)	Voltage (V) (Approx.)		
Connector	Terminals	-	(Approx.)		
B206	11	Ground	Battery volta	ge	
	ING SENSOR PO switch OFF. river seat control		' CIRCUIT		
. Disconnect d		ver seat contro	l unit harness	s connector and fro	ont power seat LH (sl
Disconnect d Check contin motor) harne	ss connector.	ver seat contro			
Disconnect d Check contin motor) harne				s connector and fro	Continuity
Disconnect d Check contin motor) harne Driver	ss connector.		Front power	seat LH (sliding motor)	Continuity
Disconnect d Check contin motor) harne Driver Connector B203	ss connector. seat control unit Termin 5	er seat control	Front power s Connector B206	seat LH (sliding motor)	Continuity al Yes
Disconnect d Check contin motor) harne Driver Connector B203	ss connector. seat control unit Termin 5 uity between driv Driver seat cont	er seat control	Front power : Connector B206 unit harness co	seat LH (sliding motor) Termina 11	Yes
Disconnect d Check contin motor) harne Driver Connector B203 Check contin	ss connector. seat control unit Termin 5 uity between driv Driver seat cont	er seat control	Front power : Connector B206 unit harness co	seat LH (sliding motor) Termina 11 onnector and grour	Continuity Al Yes Ind.
Disconnect d Check contin motor) harnes Driver Connector B203 Check contin	ss connector. seat control unit Termin 5 uity between driv Driver seat cont tor	er seat control	Front power : Connector B206 unit harness co	seat LH (sliding motor) Termina 11 onnector and grour	al Continuity

2. Check continuity between front power seat LH (sliding motor) harness connector and ground.

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Sliding m	otor		Continuity
Connector	Terminal	Ground	Continuity
B206	17		Yes

Is the inspection result normal?

YES >> Replace front power seat LH (sliding motor). Refer to <u>SE-68, "Removal and Installation"</u>.

NO >> Repair or replace harness.

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

	escription	INFOID:000000010051776				
•]		ut to the driver seat	control unit when the	reclining is operated. reclining amount of the seat.		В
С	omponent Functio	INFOID:0000000010051777	С			
1.	CHECK FUNCTION					
 Select "RECLN PULSE" in "DATA MONITOR" mode with CONSULT. Check reclining sensor signal under the following conditions. 						D
	Monitor item	Con	dition	Value		Е
	Monitor item	Con	dition Operate (forward)	Value Change (decrease)		Е
	Monitor item	Con Seat reclining				E
			Operate (forward)	Change (decrease)		E F
ls			Operate (forward) Operate (backward)	Change (decrease) Change (increase)		E
Y	RECLN PULSE the indication normal? ES >> Inspection E	Seat reclining	Operate (forward) Operate (backward)	Change (decrease) Change (increase) No change		E F G

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Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

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					
(+)	(+)		Co	ndition	Voltage signal	
Driver seat con- trol unit	Terminal	(—)		·		
B203	13	Ground	Seat reclin- ing	Operate	10mSec/div	
				Other than above	0 or 5	

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> GO TO 2

- 2. CHECK RECLINING SENSOR CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and reclining motor.
- Check continuity between driver seat control unit harness connector and reclining motor harness connector.

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver	seat control unit		Re	eclining motor	
Connector		erminal	Connector	Terminal	Continuity
B203		13	B222	3	Yes
4. Check continui	ty between driv	er seat control	unit harness co	onnector and groun	d.
	Driver seat cont	rol unit			Continuity
Connecto	or	Termina	al	Ground	Continuity
B203		13			No
 CHECK RECLI Connect driver Turn ignition sv Check voltage ground. 	seat control ur vitch ON.	iit.	ness connector	and H.S. CONNECT	
(+)					<u></u>
Reclining	motor	(-)	Voltage (V) (Approx.)		
Connector	Terminals		(Αρριοκ.)		
B222	4	Ground	Battery voltag	e	
Is the inspection re YES >> GO TC NO >> GO TC) 5) 4			<u></u>	ALJIA0410ZZ
 CHECK RECLI Turn ignition sv Disconnect driv Check continui tor. 	vitch OFF. /er seat control	unit.		onnector and reclini	ng motor harness connec

Driver seat	control unit	Reclining	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B203	5	B222	4	Yes

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

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B203	5		No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

- NO >> Repair or replace harness.
- **5.** CHECK RECLINING SENSOR GROUND

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

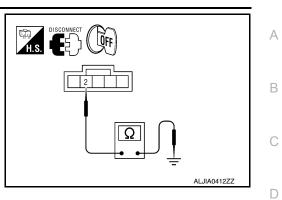
1. Turn ignition switch OFF.

2. Check continuity between reclining motor harness connector and ground.

Reclining) motor		Continuity
Connector	Terminal	Ground	Continuity
B222	2		Yes

Is the inspection result normal?

- YES >> Replace reclining motor. Refer to <u>SE-68, "Removal and</u> <u>Installation"</u>.
- NO >> Repair or replace harness.



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LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description

- The lifting sensor (front) is installed to the seat 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.
- 2. Check the lifting sensor (front) signal under the following conditions.

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-80, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000010051781

Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

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 connec- tor	Terminal	()	Condition Voltage signal		Voltage signal
B203	30	Ground	Seat lifting (front)	Operate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> GO TO 2

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and front power seat LH [lifting motor (front)].

ADP-80

INFOID:0000000010051779

INFOID:000000010051780

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between driver seat control unit harness connector and front power seat LH [lifting motor (front)] harness connector.

Continuity	Front power seat LH [lifting motor (front)]		Driver seat control unit	
	Terminal	Connector	Terminal	Connector
Yes	10	B206	30	B203

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

Driver seat o	ontrol unit		Continuity	-
Connector	Terminal	Ground	Continuity	D
B203	30	-	No	_

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY

1. Connect driver seat control unit.

2. Turn ignition switch ON.

3. Check voltage between front power seat LH [lifting motor (front)] harness connector and ground.

(+)	(+)		Voltage (V/)	_		
Front power seat LH [li	fting motor (front)}	(-) Voltage (V) (Approx.)		(-) Voltage (V) (Approx.)		Н
Connector	Terminals		()			
B206	9	Ground	Battery voltage	_		

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 4

4. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit.
- 3. Check continuity between driver seat control unit harness connector and front power seat LH [lifting motor (front)] harness connector.

Driver seat	control unit	Front power seat LH [I	ifting motor (front)]	Continuity	
 Connector	Terminal	Connector	Terminal	Continuity	
 B203	5	B206	9	Yes	M

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

Driver seat c	ontrol unit		Continuity	
Connector	Terminal	Ground	Continuity	
B203	5		No	0

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "<u>Removal and Installation</u>".

- NO >> Repair or replace harness.
- **5.** CHECK LIFTING SENSOR (FRONT) GROUND

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LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

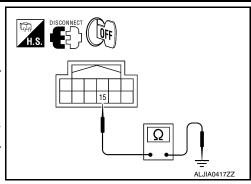
- 1. Turn ignition switch OFF.
- 2. Check continuity between front power seat LH [lifting motor (front)] harness connector and ground.

•	t LH [lifting motor ont)]	Ground	Continuity
Connector	Connector Terminal		
B206	15		Yes

Is the inspection result normal?

YES >> Replace front power seat LH [lifting motor (front)]. Refer to <u>SE-68, "Removal and Installation"</u>.

NO >> Repair or replace harness.



IETING GENICOD (DEAD

	LIFTI	NG SENSOR (R	EAR)	
< DTC/CIRCUIT DIAGN	IOSIS >			
LIFTING SENSO	R (REAR)			
Description				INF
 The lifting sensor (rear) The pulse signal is input The driver seat control 	ut to the driver seat	control unit when the	lifting (rear) is operated. lifting (rear) amount of the sea	at.
Component Function	on Check			INF
1. CHECK FUNCTION				
 Select "LIFT RR PUI Check lifting sensor 		ITOR" mode with CC he following condition		
Monitor item	Cond	lition	Value	
		Operate (up)	Change (decrease)	
LIFT RR PULSE	Seat lifting (rear)	Operate (down)	Change (increase)	
		Release	No change	
Is the indication normal?				
YES >> Inspection E NO >> Perform diag		efer to <u>ADP-83, "Diac</u>	unosis Procedure".	
Diagnosis Procedu	re			INF
Regarding Wiring Diagra		to <u>ADP-150, "Wiring</u>	<u>Diagram"</u> .	

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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

	Terminals					
(+)			Condition		Voltage signal	
Driver seat con- trol unit connector	Terminal	(-)	Condition		voltage signal	
B203	29	Ground	Seat lifting (rear)	Operate	10mSec/div	
				Other than above	0 or 5	

<u>esuit normai?</u>

YES >> Replace driver seat control unit. Refer to ADP-169, "Removal and Installation".

NO >> GO TO 2

- 2. CHECK LIFTING SENSOR (REAR) CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and front power seat LH [lifting motor (rear)].
- 3. Check the continuity between driver seat control unit harness connector and front power seat LH [lifting motor (rear)] harness connector.

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INFOID:000000010051783

INFOID:000000010051784

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Front power seat LH [lifting motor (rear)]		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B203	29	B206	8	Yes

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

Driver s	eat control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B203	29		No	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK LIFTING SENSOR (REAR) POWER SUPPLY

1. Connect driver seat control unit.

2. Turn ignition switch ON.

3. Check the voltage between front power seat LH [lifting motor (rear)] harness connector and ground.

(Front power seat LF	+) I [lifting motor (rear)]	(-)	Voltage (V) (Approx.)	
Connector	Terminals			
B206	7	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 4

4. CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit.
- 3. Check the continuity between driver seat control unit harness connector and front power seat LH [lifting motor (rear)] harness connector.

Continuity	I [lifting motor (rear)]	Front power seat LH	Driver seat control unit	
	Terminal	Connector	Terminal	Connector
Yes	7	B206	5	B203

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

Driver seat	control unit		Continuity	
Connector Terminal		Ground	Continuity	
B203	5		No	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK LIFTING SENSOR (REAR) GROUND

LIFTING SENSOR (REAR)

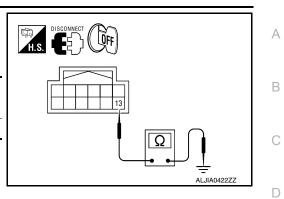
< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Check the continuity between front power seat LH [lifting motor (rear)] harness connector and ground.

-	Front power seat LH		Continuity	
	Connector	Terminal	Ground	Continuity
	B206	13		Yes

Is the inspection result normal?

- YES >> Replace front power seat LH [lifting motor (rear)]. Refer to <u>SE-68. "Removal and Installation"</u>.
- NO >> Repair or replace harness.



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TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TILT SENSOR

Description

- · The tilt sensor is installed to the steering column assembly.
- The pulse signal is input to the driver seat control unit when the tilt is operated.
- The driver seat control unit counts the pulse and calculates the tilt amount of the steering column.

Component Function Check

1.CHECK FUNCTION

- 1. Select "TILT PULSE" in "DATA MONITOR" mode with CONSULT.
- 2. Check tilt sensor signal under the following conditions.

Monitor item	Con	Value	
		Operate (UP-WARD)	Change (decrease)
TILT PULSE	Steering column	Operate (DOWN-WARD)	Change (increase)
		Release	No change

Is the indication normal?

YES >> Inspection End.

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

Diagnosis Procedure

INFOID:000000010051787

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK TILT SENSOR SIGNAL

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

(+ Driver seat Connector		()	Cond	ition	Voltage (V) (Approx.)
B203	28	Ground	Steering col- umn	Operate Other than above	10mSec/div 10mSec/div 2V/div JMJIA0119ZZ 0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "<u>Removal and Installation</u>". NO >> GO TO 2

2. CHECK TILT SENSOR CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit and tilt motor.
- 3. Check continuity between driver seat control unit harness connector and tilt motor harness connector.

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INFOID:000000010051786

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

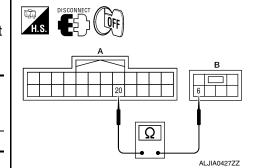
	ver seat control	unit		Tilt motor	r		Continuity	
Connector		Terminal	Cor	nnector	Term	ninal	Continuity	
B203		28	١	W71	5	5	Yes	
Check cont	inuity betwee	en driver seat	control unit	harness connec	tor and	ground.		
					1			
	Driver seat co						Continuity	
Conne		Term		Ground	_			
B20		28	}				No	
the inspection		<u>al?</u>						
YES >> GO NO >> Rer	pair or replac	e harness.						
CHECK TIL	•		ΡLY					
	iver seat con							
	n switch ON.							
			less connec	tor and ground.				
						1		
	(+)						Voltage (V)	
	Tilt moto			(-)			(Approx.)	
Connec		Terminal	s					
M71		4		Ground		В	attery voltage	
the inspection		<u>.al?</u>						
YES >> GO NO >> GO								
	-			т				
				<u> </u>				
	n switch OFF automatic di	 rive positioner	control unit		G.			
	inuity betwee	en automatic o		ner control unit	() H.S.			
	nnector and '	tilt motor harn						
			ess connect	or.			B	
harness co				tor.		A	B L L L L L L	
	oositioner con-	Tilt m	ess connect					
harness con Automatic drive p	oositioner con-		ess connect	Continuity				
harness col Automatic drive p trol un Connector	positioner con- nit	Tilt m	ess connect					
Automatic drive p trol un Connector M67 (A)	oositioner con- nit Terminal 27	Tilt m Connector M71 (B)	notor Terminal	Continuity Yes				
Automatic drive p trol un Connector M67 (A) . Check cont	oositioner con- nit Terminal 27	Tilt m Connector M71 (B) en automatic c	notor Terminal	Continuity				
Automatic drive p trol un Connector M67 (A) . Check cont	oositioner con- nit Terminal 27 tinuity betwee	Tilt m Connector M71 (B) en automatic c	notor Terminal	Continuity Yes				
Automatic drive p trol un Connector M67 (A) . Check cont harness con	oositioner con- nit Terminal 27 tinuity betwee nnector and g	Tilt m Connector M71 (B) en automatic c	ess connect notor Terminal 4 drive position	Continuity Yes				
Automatic drive p trol un Connector M67 (A) . Check cont harness con	oositioner con- nit Terminal 27 tinuity betwee nnector and g	Tilt m Connector M71 (B) en automatic c ground.	ess connect notor Terminal 4 drive position	Continuity Yes	d			
Automatic drive p trol un Connector M67 (A) . Check cont harness con	oositioner con- nit Terminal 27 tinuity betwee nnector and so omatic drive pos	Tilt m Connector M71 (B) en automatic o ground. itioner control un Term	ess connect notor Terminal 4 drive position	Continuity Yes ner control unit	d			
harness con Automatic drive p trol un Connector M67 (A) . Check cont harness con Auto Conne	oositioner con- nit Terminal 27 cinuity betwee nnector and g omatic drive pos ector (A)	Tilt m Connector M71 (B) en automatic c ground. sitioner control un Tern 2	ess connect notor Terminal 4 drive position it ninal	Continuity Yes ner control unit	d			
harness con Automatic drive p trol un Connector M67 (A) . Check cont harness con Auto Conne M67 sthe inspectior YES >> Rep	oositioner con- nit Terminal 27 tinuity betwee nnector and of omatic drive pos ector (A) n result norm place automa	Tilt m Connector M71 (B) en automatic o ground. itioner control un term 2 atic drive posit	ess connect notor Terminal 4 drive position it ninal 7 ioner contro	Continuity Yes ner control unit			Continuity No	
harness con Automatic drive p trol un Connector M67 (A) . Check cont harness con Auto Conne M67 sthe inspectior YES >> Rep	oositioner con- nit Terminal 27 cinuity betwee nnector and g omatic drive pos ector (A) n result norm place automa pair or replace	Tilt m Connector M71 (B) en automatic o ground. itioner control un itioner control un Tern 2 al? atic drive posit ce harness or o	ess connect notor Terminal 4 drive position it ninal 7 ioner contro connector.	Continuity Yes ner control unit			Continuity No	

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Automatic drive positioner con- trol unit		Tilt motor		Continuity	
Connector	Terminal	Connector	Terminal		
M63 (A)	20	M71 (B)	6	Yes	



Is the inspection result normal?

YES >> Replace tilt motor. Refer to <u>ST-18. "Removal and Instal-</u> lation".

NO >> Repair or replace harness.

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SENSOR

Description INFOID:000000010051788 The telescopic sensor is installed to the steering column assembly. The pulse signal is input to the driver seat control unit when telescopic is performed. The driver seat control unit counts the pulse and calculates the telescopic amount of the steering column. Component Function Check INEOID-0000000010051789 1.CHECK FUNCTION Select "TELESCO PULSE" in "DATA MONITOR" mode with CONSULT. D 1. 2. Check telescopic sensor signal under the following conditions. Monitor item Condition Valve Ε Operate (forward) Change (decrease) **TELESCO PULSE** Steering column Change (increase) Operate (backward) Release No change Is the indication normal? YES >> Inspection End.

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK TELESCOPIC SENSOR SIGNAL

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

	+) control unit	(–) Condition			
Connector	Terminals	(-)			(Approx.)
B203	12	Ground	Steering col- umn	Operate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "<u>Removal and Installation</u>".

NO >> GO TO 2

2. CHECK TELESCOPIC SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and telescopic motor.

3. Check continuity between driver seat control unit harness connector and telescopic motor harness connector. А

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TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Telesco	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B203	12	M73	5	Yes	

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

Driver seat co	ontrol unit		Continuity
Connector	Terminal	Ground	Continuity
B203	12		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK TELESCOPIC SENSOR POWER SUPPLY

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

(+)				
Telescop	Telescopic motor		Voltage (V) (Approx.)	
Connector	Terminals			
M73	4	Ground	Battery voltage	

Is the inspection result normal?

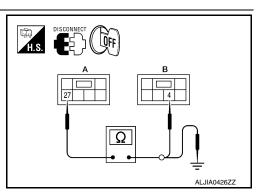
YES >> GO TO 5

NO >> GO TO 4

4. CHECK TELESCOPIC SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive p ur		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M67 (A)	27	M73 (B)	4	Yes



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

Automatic drive	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M67 (A)	27		No

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

NO >> Repair or replace harness.

5. CHECK TELESCOPIC SENSOR GROUND CIRCUIT

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

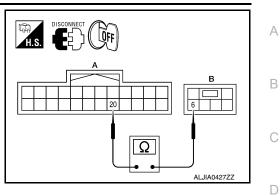
- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit.
- 3. Check continuity between automatic drive positioner control unit harness connector and telescopic motor harness connector.

	itomatic drive positioner con- trol unit		Telescopic motor	
Connector	Terminal	Connector Terminal		
M63 (A)	20	M73 (B)	6	Yes

Is the inspection result normal?

YES >> Replace telescopic motor. Refer to <u>ST-20, "Removal</u> and Installation".

NO >> Repair or replace harness.



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< DTC/CIRCUIT DIAGNOSIS >

MIRROR SENSOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000010051791

- 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:000000010051792

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-92, "DRIVER SIDE : Diagnosis Procedure"</u>.

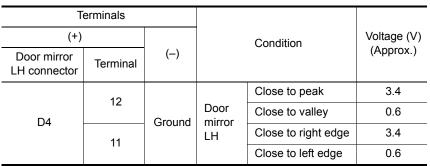
DRIVER SIDE : Diagnosis Procedure

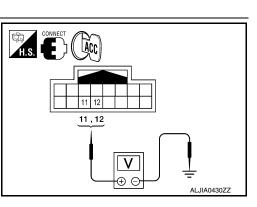
INFOID:000000010051793

Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

1. CHECK DOOR MIRROR LH SENSOR SIGNAL

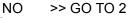
- 1. Turn ignition switch to ACC.
- Check voltage between door mirror LH harness connector and ground.





Is the inspection result normal?

YES >> GO TO 5



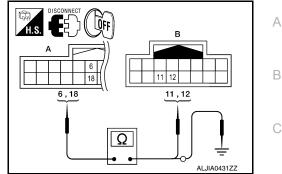
2. CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M63 (A)	6	D4 (B)	12	Yes
1000 (A)	18	(B) - (B)	11	165



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

Automatic drive positioner control unit connector	Terminal		Continuity	E
	6	Ground	No	
M63 (A)	18		No	F

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

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

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M63 (A)	20		9	Yes
1005 (A)	21	D4 (B)	10	165

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

Terminal		Continuity	L
20	Ground	No	
21		INO	
	20	20 Ground	20 Ground No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK TILT MOTOR ADJUSTING OPERATION

1. Connect automatic drive positioner control unit and door mirror LH.

- 2. Turn ignition switch ON.
- 3. Check tilt motor adjusting operation with memory function.

Is the operation normal?

YES >> Replace door mirror actuator. (Built in door mirror LH). Refer to <u>MIR-19, "Removal and Installa-</u> P <u>tion"</u>.

NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

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age of 2 sensor input terminals.

PASSENGER SIDE : Component Function Check

>> Repair or replace the malfunctioning part.

The mirror sensor RH is installed to the door mirror RH.

1. CHECK FUNCTION

- 1. Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in "DATA MONITOR" with CONSUL.
- 2. Check the mirror sensor RH signal under the following conditions.

Monitor item		Condition	
MIR/SEN RH U-D		Close to peak	
MIR/SEN RH U-D	De se minere DLL	Close to valley	0.6V
MIR/SEN RH R-L	Door mirror RH	Close to right edge	3.4V
		Close to left edge	0.6V

MIRROR SENSOR

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 volt-

Is the indication normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-94, "PASSENGER SIDE : Diagnosis Procedure"</u>.

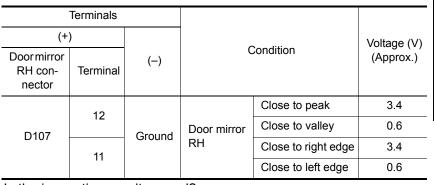
PASSENGER SIDE : Diagnosis Procedure

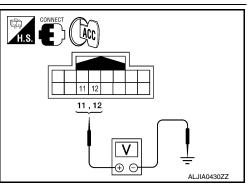
INFOID:000000010051796

Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

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





Is the inspection result normal?

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

2. CHECK DOOR MIRROR RH SENSOR CIRCUIT 1

PASSENGER SIDE : Description

PASSENGER SIDE

NO

INFOID:000000010051794

INFOID:000000010051795

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.

Automatic drive posi-

tioner control unit

connector

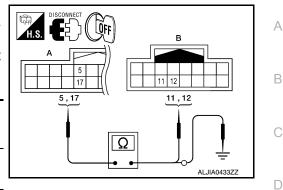
M63 (A)

- 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.

Door mirror RH

connector

D107 (B)



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

Terminal

12

11

Continuity

Yes

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20 21

OFF

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control unit connector	Terminal		Continuity	
M62 (A)	5	Ground	No	
M63 (A)	17	No	NO	F

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR RH SENSOR CIRCUIT 2

Terminal

5

17

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
M63 (A)	20	D107 (B)	9	Vec
M63 (A)	21	D107 (B)	10	Yes

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

Terminal		Continuity	l
20	Ground	Ne	
21		INO	
-	20	20 Ground	20 Ground No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK TILT MOTOR ADJUSTING OPERATION

1. Connect automatic drive positioner control unit and door mirror RH.

- Turn ignition switch ON.
- 3. Check tilt motor adjusting operation with memory function.

Is the operation normal?

- YES >> Replace door mirror actuator. (Built in door mirror RH). Refer to <u>MIR-19, "Removal and Installa-</u> P tion".
- NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-170</u>, "Removal and Installation".

 ${f b.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

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MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace the malfunctioning part.

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Description				INFOID:000000010051797	~
 The sliding motor LH is installe The sliding motor LH is activate The seat is slid forward/backward 	ed with the drive	er seat control unit.	g motor LH.		В
Component Function Ch	eck			INFOID:000000010051798	С
1. CHECK FUNCTION 1. Select "SEAT SLIDE" in "AC	TIVE TEST" mo	ode with CONSULT			D
2. Check the sliding motor LH					
Test Item		Desc	ription		Е
	OFF		Stop		
SEAT SLIDE	FR	Seat sliding	Forward		_
	RR		Backward		F
Is the operation of relevant partsYES>> Inspection End.NO>> Perform diagnosis p		r to <u>ADP-97, "Diagnosis Proc</u>	edure".		G
Diagnosis Procedure				INFOID:000000010051799	Н
Regarding Wiring Diagram inforr	nation, refer to	ADP-150, "Wiring Diagram".			
1. CHECK SLIDING MOTOR L	H POWER SUF	PPLY		1	
1. Turn the ignition switch to A	CC.				ADP

- Perform "ACTIVE TEST" ("SEAT SLIDE") with CONSULT.
- 3. Check voltage between driver seat control unit harness connector and ground.

	Terminal				
(+)				Test Item	Voltage (V)
Driver seat control unit connector	Terminal	(-)			(Approx.)
				OFF	0
	36			FR (forward)	0
B211		Oraciand	SEAT SLIDE	RR (backward)	Battery voltage
BZII		Ground	SEAT SLIDE	OFF	0
	44			FR (forward)	Battery voltage
				RR (backward)	0

Is the inspection result normal?

YES >> Replace front power seat LH [sliding motor]. Refer to <u>SE-68, "Removal and Installation"</u>. NO >> GO TO 2

- 2. CHECK SLIDING MOTOR LH CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and front power seat LH [sliding motor].
- 3. Check continuity between driver seat control unit harness connector and front power seat LH [sliding motor] harness connector.

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit con- nector	Terminal	Front power seat LH [sliding mo- tor] connector	Terminal	Continuity
B211	36	B205	6	Yes
BZTI	44	6203	2	165

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

Driver seat control unit connector	Terminal		Continuity
B211	36	36 Ground	
DZ TT	44		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to <u>GI-41, "Intermittent Incident"</u>.

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS > RECLINING MOTOR

escription					INFOID:000000010051800
The reclining m	otor is activa	ed to the seatb ted with the driv vard/backward	ver seat control uni	t. tation direction of rec	lining motor.
omponent F	-unction C	Check			INFOID:000000010051801
. CHECK FUN	CTION				
		6" in "ACTIVE T LH operation.	EST" mode with C	ONSULT.	
	Test Iter	n		Description	
		OFF		Stop	
SEAT RECLININ	IG	FR	Seat reclining	Forwa	ard
	-	RR		Back	ward
iagnosis Pr	orm diagnosis ocedure		fer to <u>ADP-99, "Dia</u> to <u>ADP-150, "Wirin</u>	agnosis Procedure". g Diagram".	INFOID:000000010051802
NO >> Perfo iagnosis Pr egarding Wiring . CHECK REC Turn the ignit Perform "AC	orm diagnosis ocedure Diagram info LINING MOT tion switch to TIVE TEST" (OR POWER S ACC. "SEAT RECLIN	to <u>ADP-150, "Wirin</u> UPPLY JING") with CONSI	<u>g Diagram"</u> .	INFOID:000000010051802
NO >> Perfo iagnosis Pr egarding Wiring . CHECK REC Turn the ignit Perform "AC	orm diagnosis ocedure Diagram info LINING MOT tion switch to TIVE TEST" (OR POWER S ACC. "SEAT RECLIN	to <u>ADP-150, "Wirin</u> UPPLY JING") with CONSI	<u>g Diagram"</u> . JLT.	INFOID:000000010051802
NO >> Perfo iagnosis Pr egarding Wiring . CHECK REC Turn the ignit Perform "AC	orm diagnosis ocedure Diagram info LINING MOT tion switch to TIVE TEST" je between di	OR POWER S ACC. ("SEAT RECLIN iver seat contro	to <u>ADP-150, "Wirin</u> UPPLY VING") with CONSI ol unit harness con	<u>g Diagram"</u> . JLT.	Voltage (V)
NO >> Perfo iagnosis Pr egarding Wiring . CHECK REC Turn the ignit Perform "AC Check voltag	orm diagnosis ocedure Diagram info LINING MOT tion switch to TIVE TEST" je between di	OR POWER S ACC. "SEAT RECLIN	to <u>ADP-150, "Wirin</u> UPPLY VING") with CONSI ol unit harness con	<u>g Diagram"</u> . JLT. nector and ground.	
NO >> Perfo iagnosis Pro egarding Wiring . CHECK REC Turn the ignit Perform "AC Check voltag (+) Driver seat con-	orm diagnosis ocedure g Diagram info LINING MOT tion switch to TIVE TEST" (le between di Terminal	OR POWER S ACC. ("SEAT RECLIN iver seat contro	to <u>ADP-150, "Wirin</u> UPPLY VING") with CONSI ol unit harness con	<u>g Diagram"</u> . JLT. nector and ground.	Voltage (V)
NO >> Perfo iagnosis Pro egarding Wiring . CHECK REC Turn the ignit Perform "AC Check voltag (+) Driver seat con-	orm diagnosis ocedure g Diagram info LINING MOT tion switch to TIVE TEST" (le between di Terminal	OR POWER S ACC. ("SEAT RECLIN iver seat contro	to <u>ADP-150, "Wirin</u> UPPLY VING") with CONSI ol unit harness con	ULT. nector and ground. Fest Item OFF FR (forward)	Voltage (V) (Approx.) 0 0
NO >> Perfo iagnosis Pro egarding Wiring . CHECK REC Turn the ignit Perform "AC Check voltag (+) Driver seat con- rol unit connector	orm diagnosis ocedure g Diagram info LINING MOT tion switch to TIVE TEST" of the between du Terminal	OR POWER S ACC. ("SEAT RECLIN iver seat contro	to <u>ADP-150, "Wirin</u> UPPLY VING") with CONSI ol unit harness con	JLT. nector and ground. Fest Item OFF FR (forward) RR (backward)	Voltage (V) (Approx.) 0
NO >> Perfo iagnosis Pr egarding Wiring CHECK REC Turn the ignit Perform "AC Check voltag (+) Driver seat con-	orm diagnosis ocedure g Diagram info LINING MOT tion switch to TIVE TEST" (le between di Terminal Terminal 43	OR POWER S ACC. ("SEAT RECLIN iver seat contro	to <u>ADP-150, "Wirin</u> UPPLY NING") with CONSI of unit harness con	JLT. nector and ground. Fest Item OFF FR (forward) RR (backward) OFF	Voltage (V) (Approx.) 0 0 Battery voltage 0
NO >> Perfo iagnosis Pro egarding Wiring . CHECK REC Turn the ignit Perform "AC Check voltag (+) Driver seat con- rol unit connector	orm diagnosis ocedure g Diagram info LINING MOT tion switch to TIVE TEST" of the between du Terminal	OR POWER S ACC. ("SEAT RECLIN iver seat contro	to <u>ADP-150, "Wirin</u> UPPLY NING") with CONSI of unit harness con	JLT. nector and ground. Fest Item OFF FR (forward) RR (backward)	Voltage (V) (Approx.) 0 0 Battery voltage

YES >> Replace reclining motor. (Built in seatback assembly). Refer to <u>SE-68. "Removal and Installation"</u>. NO >> GO TO 2

2. CHECK RECLINING MOTOR CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit and reclining motor.
- 3. Check continuity between driver seat control unit harness connector and reclining motor harness connector.

Ρ

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit connector	Terminal	Reclining motor connector	Terminal	Continuity
B211	35	B222	5	Yes
BZTI	43	DZZZ	1	165

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

Driver seat control unit connector	Terminal		Continuity
B211	35	Ground	No
D2 TT	43		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS > LIFTING MOTOR (FRONT) А Description INFOID:000000010051803 The lifting motor (front) is installed to the seat frame. The lifting motor (front) is activated with the driver seat control unit. The lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front). Component Function Check INFOID:000000010051804 CHECK FUNCTION Select "SEAT LIFTER FR" in "ACTIVE TEST" mode with CONSULT. 1. D 2. Check the lifting motor (front) operation. Test Item Description Ε OFF Stop UP SEAT LIFTER FR Seat lifting (front) Upward DWN Downward Is the operation of relevant parts normal? YES >> Inspection End. NO >> Perform diagnosis procedure. Refer to ADP-101, "Diagnosis Procedure". Diagnosis Procedure INFOID:0000000010051805 Н Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram". 1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY ADP 1. Turn the ignition switch to ACC. 2. Perform "ACTIVE TEST" ("SEAT LIFTER FR") with CONSULT. Check voltage between driver seat control unit harness connector and ground. 3. Κ Terminal Voltage (V) (+)Test Item (Approx.) L (-) Driver seat control Terminal unit connector OFF 0 Μ 34 UP 0 DWN (down) Battery voltage SEAT LIFTER B211 Ground FR OFF 0 Ν UP 42 Battery voltage DWN (down) 0

Is the inspection result normal?

YES >> Replace front power seat LH [lifting motor (front)]. Refer to <u>SE-68. "Removal and Installation"</u>. NO >> GO TO 2

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit and front power seat LH [lifting motor (front)].
- 3. Check continuity between driver seat control unit harness connector and front power seat LH [lifting motor (front)] harness connector.

Ρ

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit connec- tor	Terminal	Front power seat LH [lifting motor (front)] connector	Terminal	Continuity
B211	34	B205	5	Yes
DZ11	42	B205	4	165

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

Driver seat control unit connector	Terminal		Continuity
	34	Ground	No
D211	42		INO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to <u>GI-41, "Intermittent Incident"</u>.

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (REAR)

LIFTING MOTOR (REAR) А Description INFOID:000000010051806 The lifting motor (rear) is installed to the seat frame. The lifting motor (rear) is activated with the driver seat control unit. • The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear). Component Function Check INFOID:0000000010051807 1. CHECK FUNCTION Select "SEAT LIFTER RR" in "ACTIVE TEST" mode with CONSULT. 1. D 2. Check the lifting motor (rear) operation. Test Item Description Ε OFF Stop UP SEAT LIFTER RR Seat lifting (rear) Upward DWN Downward Is the operation of relevant parts normal? YES >> Inspection End. NO >> Perform diagnosis procedure. Refer to ADP-103, "Diagnosis Procedure". Diagnosis Procedure INFOID:0000000010051808 Н Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram". 1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY ADP 1. Turn the ignition switch to ACC.

- 2. Perform "ACTIVE TEST" ("SEAT LIFTER RR") with CONSULT.
- 3. Check voltage between driver seat control unit harness connector and ground.

	Terminal				
(+)	(+)			Test Item	Voltage (V)
Driver seat control unit connector	Terminal	(-)	(Approx.)		(Approx.)
				OFF	0
	40			UP	0
D211		Ground	SEAT LIFTER	DWN (down)	Battery voltage
B211 —		Ground RR	OFF	0	
	41			UP	Battery voltage
				DWN (down)	0

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace front power seat LH [lifting motor (rear)]. Refer to <u>SE-126. "Removal and Installation"</u>. NO >> GO TO 2

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit and front power seat LH [lifting motor (rear)].
- 3. Check continuity between driver seat control unit harness connector and front power seat LH [lifting motor (rear)] harness connector.

Ρ

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit connec- tor	Terminal	Front power seat LH [lifting mo- tor (rear)] connector	Terminal	Continuity
B211	41	B205	1	Yes
DZ I I	40	6205	3	165

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

Driver seat control unit connector	Terminal		Continuity	
B211	41	Ground	No	
DZTI	40			

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to <u>GI-41, "Intermittent Incident"</u>.

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TILT MOTOR

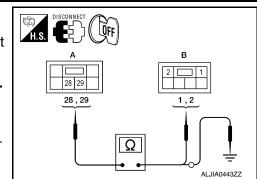
Descripti	ion							INFOID:000000010051809	
The tilt m	notor is act	ivated with	the autor		embly. ositioner control changing the rota		of tilt moto	r.	
Compon	ent Fun	ction Ch	neck					INFOID:000000010051810	
	(FUNCTIO								
			CTIVE TE	ST" mode w	vith CONSULT.				
		tor operation							
		Test item				Descri	iption		
		OFF	:				Stop		
TILT MOTO	R	UP			Steering tilt	_	Upward		
		DW	N				Downward		
		levant parts	s normal?						
	> Inspectio			Doferte Ar					
		•	brocedure	e. Refer to <u>Al</u>	<u>DP-105, "Diagno</u>	USIS Procedur	<u>e</u> .		
Diagnosi	is Proce	edure						INFOID:000000010051811	
Regarding	Wiring Dia	agram infor	mation. re	efer to ADP-1	150. "Wiring Diac	aram".			
Regarding	Wiring Dia	agram infor	mation, re	efer to <u>ADP-1</u>	150, "Wiring Diag	gram".			
	-	-			<u>150, "Wiring Diag</u>	<u>gram"</u> .			
1 . CHECK	K TILT MO	TOR POW			150, "Wiring Diao	<u>gram"</u> .			
1. CHECH	K TILT MO	TOR POW			150, "Wiring Diag				ļ
1. CHECH I. Turn iç 2. Discor 3. Turn th	K TILT MO gnition swit inect tilt mane ignition	TOR POW tch OFF. otor. switch ON		ΡĹΥ		gram".			ŀ
1. CHECH I. Turn ig 2. Discor 3. Turn th 4. Perfore	CTILT MO gnition swit nect tilt m ne ignition m "ACTIVE	TOR POW tch OFF. otor. switch ON. E TEST" ("	ER SUPF	PLY OR") with CO	ONSULT.	gram".			ł
1. CHECH I. Turn ig 2. Discor 3. Turn th 4. Perfore	K TILT MO gnition swit nect tilt m ne ignition m "ACTIVE voltage	TOR POW tch OFF. otor. switch ON. E TEST" ("	ER SUPF	PLY OR") with CO		gram".			ŀ
1. CHECP 1. Turn ig 2. Discor 3. Turn th 4. Perforn 5. Check	K TILT MO gnition swit nect tilt m ne ignition m "ACTIVE voltage	TOR POW tch OFF. otor. switch ON. E TEST" ("	ER SUPF	PLY OR") with CO	ONSULT.	gram".			ŀ
L. CHECH Discor Discor Turn th Perforn Check	CTILT MO gnition swit nect tilt m ne ignition m "ACTIVE voltage d.	TOR POW tch OFF. otor. switch ON. E TEST" ("	ER SUPF	PLY OR") with CO	ONSULT. connector and	gram".			ł
L. CHECP Discor Discor Turn th Perfori Check ground	CTILT MO gnition swit nect tilt m ne ignition m "ACTIVE voltage d.	TOR POW tch OFF. otor. switch ON. E TEST" ("	ER SUPF	PLY OR") with CO	ONSULT.	gram".			ł
1. CHECP . Turn ig 2. Discor 3. Turn th 4. Perform 5. Check ground (+	K TILT MO gnition switt me ignition m "ACTIVE voltage d.	TOR POW tch OFF. otor. switch ON E TEST" (" between	ER SUPF	PLY OR") with Co r harness o	ONSULT. connector and Voltage (V)	gram".		ALJIA0442ZZ	ł
1. CHECH 1. Turn ig 2. Discor 3. Turn th 4. Perforn 5. Check ground (- Tilt n	 K TILT MO Innect tilt monect tilt monect	TOR POW tch OFF. otor. switch ON E TEST" (" between	ER SUPF	PLY OR") with Co r harness of ondition	ONSULT. connector and Voltage (V) (Approx.)	gram".		ALJIA0442ZZ	ŀ
1. CHECH 1. Turn ig 2. Discor 3. Turn th 4. Perforn 5. Check ground (- Tilt n	 K TILT MO Innect tilt monect tilt monect	TOR POW tch OFF. otor. switch ON E TEST" (" between	ER SUPF	PLY OR") with Co r harness of ondition OFF UP	ONSULT. connector and Voltage (V) (Approx.) 0 0	gram".		ALJIA0442ZZ	ł
L. CHECH Discor Discor Turn th Perforn Check ground	 C TILT MO gnition switten inect tilt me ignition m "ACTIVE voltage totor Terminals 	TOR POW tch OFF. otor. switch ON E TEST" (" between	TILT MOT	PLY FOR") with Co r harness of ondition OFF UP DWN (down)	ONSULT. connector and Voltage (V) (Approx.) 0 0 Battery voltage	gram".		LJIA0442ZZ	ŀ
 CHECH Turn ig Discor Turn th Perforn Check ground (1) (<pre>K TILT MO gnition swit ne ignition m "ACTIVE voltage d. +) notor Terminals 1</pre>	TOR POW tch OFF. otor. switch ON E TEST" (" between	ER SUPF	OR") with Co r harness of ondition OFF UP DWN (down) OFF	ONSULT. connector and Voltage (V) (Approx.) 0 0 Battery voltage 0	gram".		ALJIA0442ZZ	ł
CHECP Turn ig Discor Turn tr Perforn Check ground (+ Tilt n Connector	 C TILT MO gnition switten inect tilt me ignition m "ACTIVE voltage totor Terminals 	TOR POW tch OFF. otor. switch ON E TEST" (" between	TILT MOT	PLY OR") with Co r harness of ondition OFF UP DWN (down) OFF UP	ONSULT. connector and Voltage (V) (Approx.) 0 0 Battery voltage	gram".		ALJIA0442ZZ	ł
 CHECH Turn ig Discor Turn th Perforn Check ground (1) (<pre>K TILT MO gnition swit ne ignition m "ACTIVE voltage d. +) notor Terminals 1</pre>	TOR POW tch OFF. otor. switch ON E TEST" (" between	TILT MOT	OR") with Co r harness of ondition OFF UP DWN (down) OFF	ONSULT. connector and Voltage (V) (Approx.) 0 0 Battery voltage 0	gram".		ALJIA0442ZZ	
1. CHECH I. Turn ig 2. Discor 3. Turn th 4. Perforn 5. Check ground (1 Tilt n Connector M71	<pre>K TILT MO gnition swit ne ignition m "ACTIVE voltage d. +) notor Terminals 1 2</pre>	TOR POW tch OFF. otor. switch ON E TEST" (" between	TILT MOT	PLY OR") with Co r harness of ondition OFF UP DWN (down) OFF UP	ONSULT. connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage	gram".		ALJIA0442ZZ	
1. CHECP 1. Turn ig 2. Discor 3. Turn th 4. Perforn 5. Check ground (- Tilt n Connector M71 s the inspective YES >>	C TILT MO gnition switt mect tilt me re ignition m "ACTIVE voltage d. +) notor Terminals 1 2 2 ection resu > Replace	TOR POW ich OFF. otor. switch ON. TEST" (" between (-) Ground <u>Ilt normal?</u> tilt motor. F	TILT MOT tilt motor	PLY OR") with Co r harness of ondition OFF UP DWN (down) OFF UP DWN (down)	ONSULT. connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage			ALJIA0442ZZ	ł
1. CHECP 1. Turn ig 2. Discor 3. Turn th 4. Perform 5. Check ground (1 Tilt n Connector M71 <u>s the inspec</u> YES >: NO >:	C TILT MO gnition switt me ignition m "ACTIVE voltage d. +) notor Terminals 1 2 ection resu > Replace > GO TO 2	TOR POW ich OFF. otor. switch ON. TEST" (" between (-) Ground <u>Ilt normal?</u> tilt motor. F	TILT MOT tilt motor Co TILT MOTOR	PLY OR") with Co r harness of ondition OFF UP DWN (down) OFF UP DWN (down)	ONSULT. connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0			ALJIA0442ZZ	

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Automatic drive positioner con- trol unit		Tilt n	Continuity		
Connector	Terminal	Connector	Terminal		
M67 (A)	28	M71 (B)	1	Yes	
W07 (A)	29	WIT (D)	2	165	



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

Automatic drive pos	sitioner control unit		Continuity	
Connector	Terminal	- Ground	Continuity	
	28	No	No	
M67 (A)	29		NO	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

NO >> Repair or replace harness.

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS > **TELESCOPIC MOTOR** А Description INFOID:000000010051812 The telescopic motor is installed to the steering column assembly. · The telescopic motor is activated with the automatic drive positioner control unit. Compresses the steering column by changing the rotation direction of telescopic motor. Component Function Check INEOID:0000000010051813 1.CHECK FUNCTION Select "TELESCO MOTOR" in "ACTIVE TEST" mode with CONSULT. D 1. 2. Check the telescopic motor operation. Test item Description Ε OFF Stop FR **TELESCO MOTOR** Steering telescopic Forward RR Backward Is the operation of relevant parts normal? YES >> Inspection End. NO >> Perform diagnosis procedure. Refer to ADP-107, "Diagnosis Procedure". Diagnosis Procedure INFOID:0000000010051814 Н Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram". 1. CHECK TELESCOPIC MOTOR POWER SUPPLY ADP 1. Turn ignition switch OFF. 2. Disconnect tilt motor. Turn the ignition switch ON. 3. Perform "ACTIVE TEST" ("TELESCO MOTOR") with CONSULT. 4 K Check voltage between telescopic motor harness connector and 5. ground. (+) Voltage (V) Telescopic motor Condition (-) (Approx.) $\oplus \in$ Connector Terminals M ALJIA0442ZZ OFF 0 1 FR (forward) 0 Ν TELE-RR (backward) Battery voltage M73 SCOPIC Ground OFF 0 MOTOR 2 FR (forward) Battery voltage RR (backward) 0 Is the inspection result normal? Ρ YES >> Replace telescopic motor. (Built in steering column assembly). Refer to ST-20, "Removal and Installation". NO >> GO TO 2

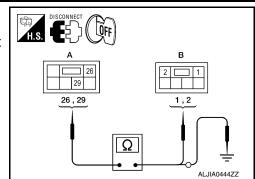
2. CHECK TELESCOPIC MOTOR CIRCUIT

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector Terminal		1
M67 (A)	29	M73 (B)	2	Yes
M67 (A)	26	миз (Б)	1	165



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

Automatic drive po	sitioner control unit		Continuity	
Connector	Terminal	Ground		
MGZ (A)	29	Ground	Ne	
M67 (A)	26		No	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-170, "Removal and Installation"</u>.

NO >> Repair or replace harness.

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR MOTOR

Description

It makes mirror face operate from side to side and up and down with the electric power that automatic drive $_{\rm B}$ positioner control unit supplies.

Component Function Check

INFOID:000000010051816

INFOID:0000000010051817

INFOID:0000000010051815

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1. CHECK DOOR MIRROR MOTOR FUNCTION

Check the operation with "MIRROR MOTOR RH" and "MIRROR MOTOR LH" in "ACTIVE TEST" mode with CONSULT. Refer to ADP-33, "CONSULT Function (AUTO DRIVE POS.)".

Is the inspection result normal?

YES >> Door mirror motor function is OK.

NO >> Refer to <u>ADP-109, "Diagnosis Procedure"</u>.

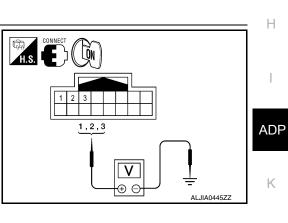
Diagnosis Procedure

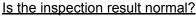
Regarding Wiring Diagram information, refer to ADP-150, "Wiring Diagram".

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



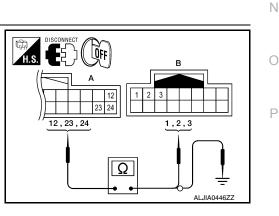


YES >> Refer to <u>ADP-111, "Component Inspection"</u>.

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

Door mirror LH

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
	12		3	
M63 (A)	23	D4 (B)	1	Yes
	24		2	



DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Door mirror RH							H.S. DISCONNECT		
Automatic drive p tioner control unit nector		unal	or mirror connector	Terminal	Continui	ity	A		
	1(C		1			10,11,22	1,2,3	
M63 (A)	11	1 D1	l07 (B)	2	Yes				
	22	2		3					
4. Check conti connector a Door mirror LH		en autom	atic drive	e position	er control	unit			
Automatic drive p	ositioner conti nector	rol unit con-		Terminal				Continuity	
				12			Ground		
	M63 (A)			23				No	
				24					
Door mirror RH									
Automatic drive po	ositioner contr nector	ol unit con-		Terminal				Continuity	
			10			Ground			
I	M63 (A)		11					No	
			22						
Is the inspection YES >> GO NO >> Rep 3. CHECK AU	TO 3 air or repla	ce harnes:		R CONT	ROL UNIT		TPUT SIGNAL		
 Connect automatic drive positioner of Turn ignition switch ON. Check voltage between automatic connector and ground. Door mirror LH 					er control	unit		N)	
· · · · · · · · · · · · · · · · · · ·	Ferminals	I				12,2		3,24	
(+)				r switch	Voltage (
Automatic drive positioner control unit connector	Terminal	(-)	cor	ndition	(Approx)			
	12		DOWN	/ RIGHT	Battery volt	tage			
	12		Other the	nan above	0				
M63	23	Ground	UP		Battery volt	tage			
mee	20	Cround	Other the	han above	0				
						attery voltage			
-	24		LEFT		Battery volt	tage			

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Door mirror RI	ł				H.S. CONNECT	А
	Terminals					
(+) Automatic drive positioner con- trol unit connec-	Terminal	(-)	Mirror switch con- dition	Voltage (V) (Approx.)		В
tor						С
	10		UP	Battery voltage		
-		_	Other than above	0	ALJIA0449ZZ	
M63	11	Ground	LEFT	Battery voltage		D
-		_	Other than above	0		
	22		DOWN / RIGHT	Battery voltage		Е
Is the inspection			Other than above	0		
YES >> GC) TO 4 place auton	natic drive p		I unit. Refer to <u>/</u>	ADP-170. "Removal and Installation".	F
Check door min		nont la	ation"			G
Refer to <u>ADP-1</u> Is the inspection			<u>ction"</u> .			
			ent Incident".			Н
				R-19, "Removal	and Installation".	
Component	Inspectio	n			INFOID:0000000010051818	I
1. CHECK DO		R MOTOR	-1			
Check that doo Refer to MIR-19			t trap foreign obj	ects and does r	not have any damage.	ADI
Is the inspection						
YES >> GC						Κ
NO >> Re	place door i	mirror actua	ator. Refer to MIF	<u>R-19, "Removal</u>	and Installation".	
2. CHECK DO	OR MIRRC	R MOTOR	-11			
1. Turn ignitio	n switch OF	FF.				L
2. Disconnect	door mirro	r.				
3. Apply 12V	to each pov	ver supply t	erminal of door r	mirror motor.		M
		Terreinel				1 V 1
Door mirror conr		Terminal	Operatio	nal direction		
		+) (-				Ν
D4 (LH) D107 (RH)				EFT		\sim
			-	UP		0
		3 '		OWN		
Is the inspection						Ρ
	pection End		ator Refer to MI	R-10 "Removal	and Installation".	

NO >> Replace door mirror actuator. Refer to <u>MIR-19</u>, "Removal and Installation".

SEAT MEMORY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY INDICATOR LAMP

Description

INFOID:000000010051819

INFOID:000000010051820

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

Component Function Check

1. CHECK FUNCTION

- 1. Select "MEMORY SW INDCTR" in "ACTIVE TEST" mode with CONSULT.
- 2. Check the memory indicator operation.

Test item	I	Descript	ion
	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-112, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000010051821

Regarding Wiring Diagram information, refer to <u>ADP-150, "Wiring Diagram"</u>.

1. CHECK SEAT MEMORY INDICATOR CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit and seat memory switch.
- 3. Check continuity between driver seat control unit harness connector and seat memory switch harness connector.

Driver seat control unit con- nector	Terminal	Seat memory switch connector	Terminal	Continuity
B203	B203		7	Yes
B205	26	D13	6	163

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

Driver seat control unit connector	Terminal		Continuity	
B203	10	Ground	No	
6203	26		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

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between seat memory switch harness connector and ground.

Seat memory switch	Termir	Voltage (V)	
connector	(+)	(—)	(Approx.)
D13	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3

- NO >> Check the following:
 - 10A Fuse no.10.
 - · Harness for open or short between memory indicator and fuse.
- **3.** CHECK MEMORY INDICATOR

Refer to ADP-113,	"Component Inspection".

Is the ins	spection result normal?	

YES >> GO TO 4
 NO >> Replace seat memory switch. Refer to <u>ADP-171, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-169</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK SEAT MEMORY INDICATOR

1. Disconnect seat memory switch.

2. Check continuity between seat memory switch terminals.

	rminal		
Seat me	mory switch	Continuity	K
(+)	(-)		
5	6	Yes	-
3	7	Tes	L

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace seat memory switch. Refer to <u>ADP-171, "Removal and Installation"</u>.

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ADP

PIIA4595E

INFOID:0000000010051822

Seat memory switch

connector

5

0

Ρ

ECU DIAGNOSIS INFORMATION DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:000000010051823

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Condi	tion	Value/Status
SET SW	Set switch	Push	ON
SET 3W	Set Switch	Release	OFF
	Momory quitch 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
	Momony quitab Q	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
	Olidian ewitch (ferward)	Operate	ON
SLIDE SW-FR	Sliding switch (forward)	Release	OFF
	Oliding awitch (healward)	Operate	ON
SLIDE SW-RR	Sliding switch (backward)	Release	OFF
		Operate	ON
RECLN SW-FR	Reclining switch (forward)	Release	OFF
	Reclining switch (back-	Operate	ON
RECLN SW-RR	ward)	Release	OFF
		Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
	Lifting switch front (down)	Operate	ON
LIFT FR SW-DN		Release	OFF
		Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
		Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
	Mirror owitch	Up	ON
MIR CON SW-UP	Mirror switch	Other than above	OFF
	NAimen eusitek	Down	ON
MIR CON SW-DN	Mirror switch	Other than above	OFF
	Mirror owitch	Right	ON
MIR CON SW-RH	Mirror switch	Other than above	OFF
	Mirror owitch	Left	ON
MIR CON SW-LH	Mirror switch	Other than above	OFF
	Changeouer awitch	Right	ON
MIR CHNG SW-R	Changeover switch	Other than above	OFF
	Changeouer awitch	Left	ON
MIR CHNG SW-L	Changeover switch	Other than above	OFF
	Tilt outtab	Upward	ON
TILT SW-UP	Tilt switch	Other than above	OFF
	Tilt owitch	Downward	ON
TILT SW-DOWN	Tilt switch	Other than above	OFF

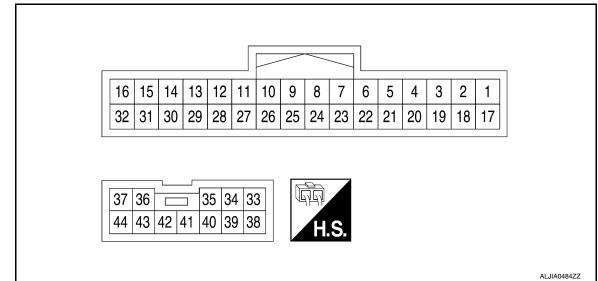
Monitor Item	Cond	dition	Value/Status
TELESCO SW-FR	Telescopic switch	Forward	ON
	Telescopic Switch	Other than above	OFF
TELESCO SW-RR	Telescopic switch	Backward	ON
		Other than above	OFF
DETENT SW	CVT selector lever	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
	5	Other 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 [*]
LIFT RR PULSE		Up	The numeral value decreases *
	Seat lifter (rear)	Down	The numeral value increases *
		Other than above	No change to numeral value [*]
MIR/SEN RH U-D	Door mirror (passenger si	de)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger si	de)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
		Upward	The numeral value decreases *
TILT PULSE	Tilt position	Downward	The numeral value increases *
		Other than above	No change to numeral value [*]
		Forward	The numeral value decreases *
TELESCO PULSE	Telescopic position	Backward	The numeral value increases *
		Other than above	No change to numeral value [*]
VEHICLE SPEED	The condition of vehicle s	peed is displayed	km/h
		P position	ON
P RANG SW CAN	CVT selector lever	Other than above	OFF
		R position	ON
R RANGE (CAN)	CVT selector lever	Other than above	OFF
	Stooring look we't	Lock	LOCK
STEERING STATUS	Steering lock unit	Unlock	UNLOCK
DOOR SW-FL	Driver door	Open	OPEN
		Close	CLOSED

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Cond	ition	Value/Status
DOOR SW-FR	Passenger door	Open	OPEN
DOOK SW-FR	rassenger uoor	Close	CLOSED
IGN ON SW	Ignition switch	ON position	ON
	Ignition Switch	Other than above	OFF
ACC ON SW	Ignition owitch	ACC or ON position	ON
ACC ON SW	Ignition switch	Other than above	OFF
KEY ON SW	Intelligent Key	Inserted in key slot	ON
KET ON SW	Intelligent Key	Not Inserted in key slot	OFF
KEYLESS ID	UNLOCK button of Intellige	ent Key is pressed	1, 2, 3, 4 or 5
KYLS DR UNLK	Intelligent Key or driver	ON	ON
KILS DR UNER	side door request switch	OFF	OFF
	CAN signal from APS	Received	ON
VHCL SPEED (ABS)	CAN signal from ABS	Not received	OFF
HANDLE			LHD
HANDLE	Driving position	-	RHD
TRANSMISSION	Transmission type		A/T

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

TERMINAL LAYOUT



PHYSICAL VALUES

	erminal No. Description		Con	dition	Voltage (V)	
+	-	Signal name	Input/ Output	Condition		(Approx)
5 (R/L)	Ground	Sensor power supply	Output	-	_	Battery voltage
6 (P)	Ground	Lifting switch (rear) down	Input	Lifting switch	Operate (down)	0
(B)		signal		(rear)	Release	Battery voltage
7 (L/B)	Ground	Lifting switch (front) down signal	Input	Input Lifting switch (front)	Operate (down)	0
(L/D)		Signal		(nont)	Release	Battery voltage

	nal No. color)	Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Con		(Approx)
8 (W)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
()		oignai			Release	Battery voltage
9 (V)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
. ,		•			Release	Battery voltage
10	Ground	Memory indicator 2 signal	Output	Memory indicator	Illuminate	1
(LG)			-	2	Other than above	Battery voltage
11 (Q/D)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press	0
(O/B)		, ,	•	,	Other than above	5
12 (P/Y)	Ground	Telescopic sensor signal	Input	Telescopic	Operate	10mSec/div
					Other than above	0 or 5
13 (W/B)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div
					Stop	0 or 5
15 (Y/B)	Ground	UART communication (TX/RX)	Input	Ignition s	witch ON	10msec/div 10msec
16 (O/V)	—	CAN-H	—	-	_	—
21	Ground	Set switch signal	Input	Set switch	Press	0
(P/B)	e. sund				Other than above	5
22 (R)	Ground	Lifting switch (rear) up sig- nal	Input	Seat lifting switch (rear)	Operate (up)	0
. /				. ,	Release	Battery voltage
23 (O/Y)	Ground	Lifting switch (front) up sig- nal	Input	Seat lifting switch (front)	Operate (up)	0
. /					Release	Battery voltage
24 (GR)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
()					Release	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Can	dition	Voltage (V)
+	-	Signal name	Input/ Output	Con	allion	(Approx)
25 (Y)	Ground	Sliding switch forward sig- nal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage
26 (W/Y)	Ground	Memory indicator 1 signal	Output	Memory indicator 1	Illuminate Other than above	1 Battery voltage
27					Press	0
(V/W)	Ground	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
28 (L/R)	Ground	Tilt sensor signal	Input	Tilt	Operate	10mSec/div 10mSec/div 2V/div JMJIA01192Z
					Other than above	0 or 5
29 (G)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div
					Stop	0 or 5
30 (W/R)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div
					Stop	0 or 5
31 (O)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div
					Stop	0 or 5
32 (GR/B)	_	CAN-L	_			_
34 (L/G)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down) Stop	Battery voltage
35	Ground	Reclining motor forward	Output	Seat reclining	Operate (forward)	Battery voltage
(GR)		output signal	•	,	Release	0

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			lition	Voltage (V)
+	-	Signal name	Input/ Output			(Approx)
36 (V)	Ground	Sliding motor backward output signal	Output	Seat sliding	Operate (backward)	Battery voltage
(v)		oulput signal			Stop	0
37 (R/Y)	Ground	Power source	Input	_	_	Battery voltage
39 (B)	Ground	Ground (power)	_	-	_	0
40 (B/R)	Ground	Lifting motor (rear) down	Output	Seat lifting (rear)	Operate (down)	Battery voltage
(D/K)		output signal			Stop	0
41 (R)	Ground	Lifting motor (rear) up out- put signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
(K)		put signal			Stop	0
42 (O)	Ground	Lifting motor (front) up out- put signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
(0)		put signal			Stop	0
43 (W)	Ground	Reclining motor backward	Output	Seat reclining	Operate (backward)	Battery voltage
(**)		output signal			Stop	0
44 (Y)	Ground	Sliding motor forward out- put signal	Output	Seat sliding	Operate (forward)	Battery voltage
(1)		put signal			Release	0

Fail Safe

INFOID:000000010051824

ADP

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis	k
	CAN communication	U1000	<u>ADP-36</u>	
Only manual functions operate normally.	CONTROL UNIT	U1010	<u>ADP-37</u>	L
	EEPROM	B2130	<u>ADP-38</u>	
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<u>ADP-45</u>	N
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	<u>ADP-39</u>	Ιv
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	<u>ADP-41</u>	
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	<u>ADP-43</u>	Ν

DTC Index

INFOID:000000010051825

CONSULT	Tim	ing ^{*1}			
display	Current mal- function	Previous mal- function	Item	Reference page	Ρ
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	<u>ADP-36</u>	
CONTROL UNIT [U1010]	0	1-39	Control unit	<u>ADP-37</u>	
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-39	

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2014 Maxima NAM

< ECU DIAGNOSIS INFORMATION >

CONSULT	Tim	ing ^{*1}			
display	Current mal- function function		Item	Reference page	
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	<u>ADP-41</u>	
STEERING TILT [B2116]	0	1-39	Tilt motor output	<u>ADP-43</u>	
UART COMM [B2128]	0	1-39	UART communication	<u>ADP-45</u>	
EEPROM [B2130]	0	1-39	EEPROM	ADP-38	

*1.

• 0: Current malfunction is present

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

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000010051826

JMJIA1389ZZ

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TERMINAL LAYOUT В С 1 2 3 4 5 6 7 8 9 10 1 1 12 25 🔲 26 27 28 29 30 D Е

PHYSICAL VALUES

	inal No. e color)	Description		Condit	ion	Voltage (V)						
+	-	Signal name	Input/ Output	Condit		(Approx.)						
1	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0						
(Y)	Ground	The switch up signal	mput	The Switch	Other than above	5						
0		Oheren er er steh DU		Ohanaaa	RH	0						
2 (V/W)	Ground	Changeover switch RH signal	Input	Changeover switch position	Neutral or LH	5						
3	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0						
(Y/B)	Ground	Million Switch up Signal	mput	WINTER SWITCH	Other than above	5						
4	Ground	Mirror switch left signal	Input	Mirror switch	Operated (left)	0						
(V/W)	Ground	Minor Switch left Signal	mput	WINTON SWITCH	Other than above	5						
5 (GR)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH p	osition	Change between 3.4 (close to peak) 0.6 (close to valley)						
6 (W)	Ground	Door mirror sensor (driv- er side) up/down signal	Input	Door mirror LH p	osition	Change between 3.4 (close to peak) 0.6 (close to valley)						
7	Ground	Telescopic switch for-		lacut	ا میں بر ا	land	land	locut	Input	Telescopic	Operate (forward)	0
(P)	Cround	ward signal	mput	switch	Other than above	5						
8 (R)	Ground	UART communication (TX/RX)	Output	Ignition switch OI	N	10msec/div						

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

	nal No. color)	Description		- Condition		Voltage (V)
+	-	Signal name	Input/ Output			(Approx.)
10	Cround	Door mirror motor (pas-	Output	Door mirror RH	Operate (up)	Battery voltage
(G)	Ground	senger side) up output signal	Output		Other than above	0
11	Oracinad	Door mirror motor (pas-	Outrast		Operate (left)	Battery voltage
(V)	Ground	senger side) left output signal	Output	Door mirror RH	Other than above	0
		Door mirror motor (driv-			Operate (down)	Battery voltage
12	Ground	er side) down output sig- nal	Output	Door mirror (LH)	Other than above	0
(Y)	Ground	Door mirror motor (driv- er side) right output sig-	Ουιραι		Operate (right)	Battery voltage
		nal			Other than above	0
13	Ground	Tilt switch down signal	loput	Tilt switch	Operate (down)	0
(LG)	Ground	The switch down signal	mput		Other than above	5
14		Changeover switch LH		Changeover	LH	0
(0)	Ground	signal	Input	switch position	Neutral or RH	5
15	Ground	Mirror switch down sig-	Input	Mirror switch	Operate (down)	0
(L/B)	Ground	nal	mput	WINTON SWITCH	Other than above	5
16	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
(V)	Ground	winter switch right signal	mput	WINTOF SWITCH	Other than above	5
17 (L)	Ground	Door mirror sensor (pas- senger side) left/right signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)
18 (L)	Ground	Door mirror sensor (driv- er side) left/right signal	Input	Door mirror LH position		Change between 0.6 (close to left edge) 3.4 (close to right edge)
19 (G)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (back- ward)	0
					Other than above	5
20 (P)	Ground	Ground	—			0
21 (BR)	Ground	Door mirror motor sen- sor power supply	Input	_		5

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Conditi	on	Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx.)
		Door mirror motor (pas- senger side) down out-				Battery voltage
22	Ground	put signal	Output	a	Other than above	0
(Y)	Ground	Door mirror motor (pas- senger side) right output	Output		Operate (right)	Battery voltage
		signal			Other than above	0
23	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (up)	Battery voltage
(GR)	Ground	er side) up output signal	Juiput		Other than above	0
24	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (left)	Battery voltage
(V)	Ground	er side) left output signal	σαιραί		Other than above	0
25 (R/Y)	Ground	Power source	Input	—		Battery voltage
26 (V)	Ground	Telescopic motor back- ward output signal	Output	Steering tele- scopic	Operate (back- ward)	Battery voltage
(V)		ward odiput signal		scopic	Other than above	0
27 (L)	Ground	Tilt and telescopic motor power source				Battery voltage
28	Ground	Tilt motor down output	Output	Steering tilt	Operate (down)	Battery voltage
(G)	Ground	signal	Output		Other than above	0
		Tilt motor up output sig-		Steering tilt	Operate (up)	Battery voltage
29	Ground	nal	Output		Other than above	0
(W/B)	Ground	Telescopic motor for-	Output	Steering tele-	Operate (forward)	Battery voltage
		ward output signal		scopic	Other than above	0
30 (B)	Ground	Ground	_		1	0

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< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
	Rear door RH closed	OFF	P
DOOR SW-RR	Rear door RH opened	ON	
	Rear door LH closed	OFF	E
DOOR SW-RL	Rear door LH opened	ON	
DOOR SW-BK	Trunk door closed	OFF	
	Trunk door opened	ON	(
	Other than power door lock switch LOCK	OFF	
CDL LOCK SW	Power door lock switch LOCK	ON	Г
	Other than power door lock switch UNLOCK	OFF	-
CDL UNLOCK SW	Power door lock switch UNLOCK	ON	
	Other than driver door key cylinder LOCK position	OFF	E
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON	
	Other than driver door key cylinder UNLOCK position	OFF	г
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON	ľ
	When hazard switch is not pressed	OFF	
HAZARD SW	When hazard switch is pressed	ON	(
REAR DEF SW	When rear window defogger switch is pressed	ON	
	Trunk lid opener cancel switch OFF	OFF	
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	·
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF	•
	While the trunk lid opener switch is turned ON	ON	
TRNK/HAT MNTR	Trunk lid closed	OFF	•
	Trunk lid opened	ON	
	When LOCK button of Intelligent Key is not pressed	OFF	A
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed	OFF	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON	
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON	.
	When PANIC button of Intelligent Key is not pressed	OFF	•
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	-
	When UNLOCK button of Intelligent Key is not pressed and held	OFF	. 1
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	ľ
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	(
	When outside of the vehicle is bright	Close to 5 V	
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V	
	When front door request switch is not pressed (driver side)	OFF	
REQ SW -DR	When front door request switch is pressed (driver side)	ON	
	When front door request switch is not pressed (passenger side)	OFF	
REQ SW -AS	When front door request switch is pressed (passenger side)	ON	
	When rear door request switch is not pressed (driver side)	OFF	
REQ SW -RL			

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Monitor Item	Condition	Value/Status
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF
	When rear door request switch is pressed (passenger side)	ON
REQ SW -BD/TR	When trunk opener request switch is not pressed	OFF
	When trunk opener request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
F03H 3W	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
IGN RLY2 -F/B	Ignition switch ON	ON
	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON
	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
	Driver door UNLOCK status	OFF
UNLK SEN -DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
IGN RLY1 -F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P -MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N -MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET

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Monitor Item	Condition	Value/Status		
PRMT ENG STRT	When the engine start is prohibited	RESET		
RIVEL ENG STRE	When the engine start is permitted	SET		
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF		
LT 3W -3LUT	When Intelligent Key is inserted into key slot	ON		
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key		
	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET		
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE		
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET		
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE		
	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET		
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE		
	The key ID that the key slot receives does not accord with the sec- ond key ID registered to BCM.	YET		
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE		
	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET		
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE		
TP 4	The ID of fourth key is not registered to BCM	YET		
1 - 4	The ID of fourth key is registered to BCM	DONE		
	The ID of third key is not registered to BCM	YET		
ГР 3	The ID of third key is registered to BCM	DONE		
	The ID of second key is not registered to BCM	YET		
TP 2	The ID of second key is registered to BCM	DONE		
	The ID of first key is not registered to BCM	YET		
TP 1	The ID of first key is registered to BCM	DONE		
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is re- ceived)	Air pressure of front LH tire		
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire		
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire		
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire		
	When ID of front LH tire transmitter is registered	DONE		
D REGST FL1	When ID of front LH tire transmitter is not registered	YET		
	When ID of front RH tire transmitter is registered	DONE		
D REGST FR1	When ID of front RH tire transmitter is not registered	YET		
	When ID of rear RH tire transmitter is registered	DONE		
D REGST RR1	When ID of rear RH tire transmitter is not registered	YET		
	When ID of rear LH tire transmitter is registered	DONE		
D REGST RL1	When ID of rear LH tire transmitter is not registered	YET		

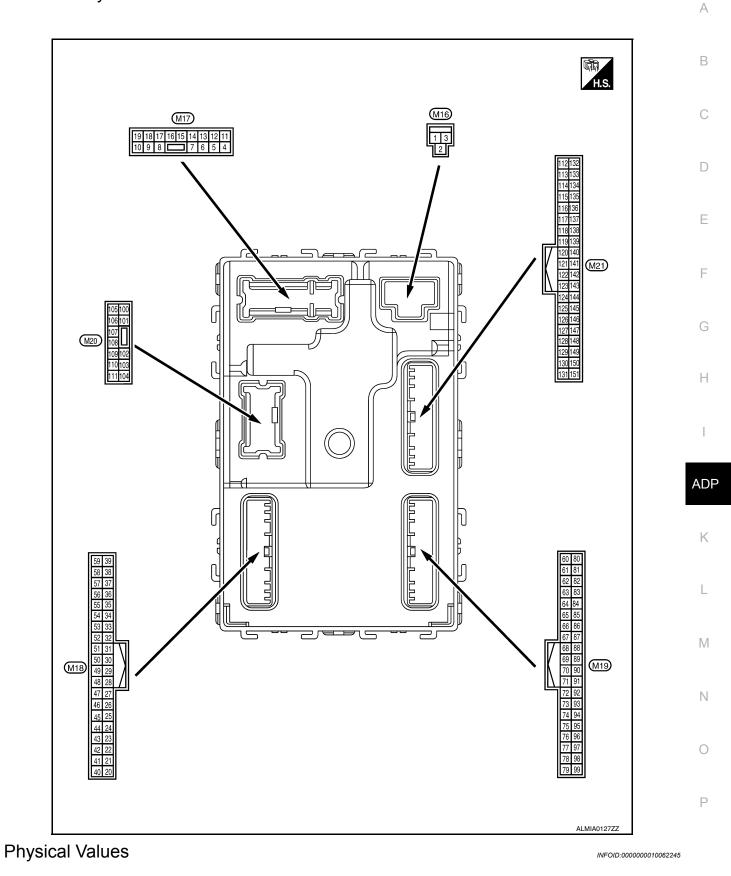
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Monitor Item	Condition	Value/Status
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
BOZZER	Tire pressure warning alarm is sounding	ON

< ECU DIAGNOSIS INFORMATION >

Terminal Layout

INFOID:000000010062244



	inal No. e color)	Description	1		0	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room r operation time	Battery voltage
5		Front door RH UN-	0.1.1		UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V
7	Cround	Ston Jamn	Output	Stop Jamp	ON	0V
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activat- ed)	Battery voltage
(V)	Ground	All doors lock	Output	All doors	Other than LOCK (actuator is not activated)	0V
9	Ground	Front door LH UN-		UNLOCK (actuator is activated)	Battery voltage	
(L)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V
10	Oracinad	Rear door RH and	Outrast	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground		Ignition switch ON		0V
					OFF	0V
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brighten- ing/dimming level is in the neutral position (V) 10 0 10 0 2 ms JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Cround		Caiput	ignition ownon	ACC or ON	0V

	inal No.	Description				Value
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF	6.5 V 0V
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF ON	Battery voltage 0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehi- cle is bright When outside of the vehi- cle is dark	Close to 5V Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input			Battery voltage
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is re- leased) ON (brake pedal is de- pressed)	0V Battery voltage
27 (O)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	pressed) LOCK status	(V) 15 0 0 10 ms 10 ms JPMIA0011GB 11.8V
				When Intelligent K	UNLOCK status ey is inserted into key slot	0V Battery voltage
29 (Y)	Ground	Key slot switch	Input	_	ey is not inserted into key slot	OV
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V
(G)		ger feedback signal		fogger switch	ON	Battery voltage

	inal No.	Description				Value	
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
_					ON (when front door RH opens)	0V	
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	
					ON	0V	
38 (GR/	Ground	Rear window defog-	Input	Rear window de-	OFF	5V	
W)	oround	ger ON signal	mpar	fogger switch	ON	0V	
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB 10.2V	
				Ignition switch OFF	F or ACC	OV	
41		Engine switch (push		Engine switch	ON	5.5V	
(W)	Ground	switch) illumination	Output	(push switch) illu- mination			
					OFF	0V	
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON OFF	0V Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	
46	Ground	Receiver & sensor	Outout	Ignition switch	OFF	0V	
(V/W)	Ground	power supply output	Output	Ignition Switch	ACC or ON	5.0V	

Terminal No.		Description				Value		
-	e color)	Signal name	Input/		Condition	(Approx.)	А	
(+)	(-)		Output					
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B C D	
(G/O)	Glound	er signal	Output			When receiving the signal from the transmitter	(V) 4 0 • • 0.2s OCC3880D	E
48		Selector lever trans-			P or N position	12.0V	G	
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V		
					ON	0V	Н	
49 (L/O)	Ground	Security indicator sig- nal	Output	Security indicator	Blinking	(V) 15 0 0 1 s JPMIA0014GB 11.3V	ADP	
					OFF	Battery voltage	Κ	
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND Turn signal switch RH	0V (V) 15 0 2 ms JPMIA0031GB 10.7V	L M	
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	0V (V) 15 0 2 ms JPMIA0032GB 10.7V	O	

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	(V) 15
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB 10.7V
					All switch OFF	0V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V) 15
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 50 2 ms JPMIA0034GB 10.7V
					All switch OFF	0V
					Front fog lamp switch ON	
		Combination switch OUTPUT 4		Combination	Lighting switch 2ND	(V) 15
54 (G/Y)	Ground		Input	switch (Wiper intermit-	Lighting switch flash-to- pass	
				tent dial 4)	Turn signal switch LH	JPMIA0035GB 10.7V
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)	0.54110	ger relay	- c.put	fogger	Not activated	0V

Terminal No.		Description					
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)	А
60	Ground	Front console anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(B/R)		na 2 (-)	Cutput	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0063GB	E
61	Ground	Center console an-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	G H I
(W/R)	(W/R) Ground	tenna 2 (+)	Output	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0063GB	ADP K
62	Ground	Front outside handle	O. to t	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(V) Ground	Ground	RH antenna (-)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 10 10 10 10 10 10 10 10 10	O P

	ninal No. re color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
63	Ground Front outside handle Output When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
(P)	Ground	RH antenna (+)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JJKIA0063GB
64	Ground	Front outside handle	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 5 0 1 s JJKIA0062GB
(V)		LH antenna (-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 15 15 15 15 15 15 15 15 15
65	Ground	Front outside handle	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(P)	Ground	Ground LH antenna (+)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

Terminal No.		Description				Value	
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)	A
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	В
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	С
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC ON	0V Battery voltage	D
71	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 50 1 ms JMKIA0064GB	E
(L/O)	Glound	receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	G H I
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	AD K
75 (R/Y)	Ground	Combination switch INPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3V	M
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 0 2 ms 10 2 ms 10 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	O P

	inal No. e color)	Description		Condition		Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 0 2 ms 10 2 ms JPMIA0041GB 1.4V
76	Ground	Combination switch	Output	Combination	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 0 2.ms. JPMIA0036GB 1.3V
(R/G)		INPUT 3		switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 2 ms JPMIA0040GB 1.3V
78 (P)	Ground	CAN-L	Input/ Output			_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking	Battery voltage
					ON OFF or ACC	0V 0V
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF OF ACC	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	_
(VVire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	F
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V Battery voltage	- - E
84 (Y/R)	Ground	CVT shift selector	Output			Battery voltage	_
87 (G/B)	Ground	Selector lever P posi- tion switch	Input	Selector lever	P position Any position other than P	0V Battery voltage	_ (
(0,2)					ON (pressed)		- C
88 (R)	Ground	Front door RH re- quest switch	Input	Front door RH re- quest switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V	F
					ON (pressed)	0V	
89 (R)	Ground	Front door LH re- quest switch	Input	Front door LH re- quest switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	F
						1.0V	A
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC ON	0V Battery voltage	
91 (L/R)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OFI	F	Battery voltage	ŀ

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	inal No. e color)	Description		Condition		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V
					Turn signal switch LH	(V) 15 0 2 ms JPMIA0037GB 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch LO	(V) 15 10 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 0 2 ms JPMIA0039GB 1.3V

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	А
(VVIr (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	A
					All switch OFF (Wiper intermittent dial 4)	(V) 15 0 2.ms JPMIA0041GB 1.4V	B C D
96		Combination switch		Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0038GB 1.3V	E
(P/B)	Ground	INPUT 4	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0036GB 1.3V	G H
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	ADP K L

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	inal No.	Description				Value	
	e color)	Signal name	Input/	Condition		(Approx.)	
(+)	(-)		Output		All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	
					Lighting switch flash-to- pass	(V) 15 0 2.ms JPMIA0037GB 1.3V	
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 0 2 ms JPMIA0036GB 1.3V	
					Front wiper switch INT	(V) 15 10 2 ms JPMIA0038GB 1.3V	
					Front wiper switch HI	(V) 15 0 2 ms JPMIA0040GB 1.3V	
					Pressed	0 V	
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener ac- tuator is activated)	Battery voltage	
(V)	Ground	Trunk in opening.	Output		Close (trunk lid opener ac- tuator is not activated)	0V	
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
114	Ground	Trunk room antenna	Outout	Ignition switch	OFF When Intelligent Key is in the passenger compart- ment	Battery voltage	
(B)	Ground	1 (-)	Output	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0063GB	
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(W)	Sidura	1 (+)	Satput	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 5 10 5 10 5 10 5 10 5 10 5 10 5 1	

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	inal No.	Description	1			Value	
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
118	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(L/O)	Ground	na (-)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
119 (PP)	Ground	Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(BR/ W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage	
(BI0 W)		E/R) control	Calput	.g.m.on owiton	ON	0V	
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
					ON (trunk is open)	0V	
132	Ground	Starter motor relay	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage	
(R)	Cround	control	Culput	ON	When selector lever is in P or N position and the brake is not depressed	0V	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0	Value	A
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	,
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V	E
(BR)	Ground	switch)	mput	(push switch)	Not pressed	Battery voltage	L
					ON (pressed)	0V	
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener re- quest switch	OFF (not pressed)	(V) 15 10 0 10 10 10 10 10 10 10 10 10 10 10 1	
144		Request switch buzz-	<u> </u>	Request switch	Sounding	0V	
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage	I
147	Organis	Trunk lid opener	الم مع مع ا	Trunk lid opener	Pressed	0V	
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage	
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms 11.8V	(
					ON (when rear door RH opens)	0V	A
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	ŀ
					ON (when rear door LH opens)	0V	Γ

Fail Safe

INFOID:000000010062246

Display contents of CONSULT	Fail-safe	Cancellation	\cap
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	0
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	Ρ
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC	
B2560: STARTER CONT RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status has become consistent Starter control relay signal Starter relay status signal 	

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 ${\sf V}$
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilledPower position changes to ACCReceives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM be- comes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilledPower position changes to ACCReceives engine status signal (CAN)

DTC Inspection Priority Chart

INFOID:000000010062247

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

Priority	DTC
1	B2562: LO VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSI STATUS B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH B2605: STARTER RELAY B2606: STARTER RELAY B2607: ENG STATE SIG LOST B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2614: PUSH-BTN IGN SW B2614: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	C1704: LOW PRESSURE FL	
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	
	• C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	
-	C1715: [CHECKSUM ERR] RL	
5	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	
	 C1719: [PRESSDATA ERR] RL C1720: [CODE ERR] FL 	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	
	• C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	• C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	
	C1727: BATT VOLT LOW RL	
	C1734: CONTROL UNIT	
6	B2622: INSIDE ANTENNA	
0	B2623: INSIDE ANTENNA	

DTC Index

INFOID:000000010062248

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	L
No DTC is detected. further testing may be required.	_	_	_	_	M
U1000: CAN COMM CIRCUIT	_	—	—	BCS-32	N
U1010: CONTROL UNIT (CAN)	_	—	—	BCS-33	Ν
U0415: VEHICLE SPEED SIG	_	—	—	BCS-34	
B2190: NATS ANTENNA AMP	×	—	—	<u>SEC-37</u>	0
B2191: DIFFERENCE OF KEY	×	—	—	<u>SEC-40</u>	
B2192: ID DISCORD BCM-ECM	×	—	—	<u>SEC-41</u>	
B2193: CHAIN OF BCM-ECM	×	—	—	<u>SEC-42</u>	Ρ
B2553: IGNITION RELAY	_	—	—	PCS-46	
B2555: STOP LAMP	_	—	—	<u>SEC-43</u>	
B2556: PUSH-BTN IGN SW	_	×	—	<u>SEC-46</u>	
B2557: VEHICLE SPEED	×	×	—	<u>SEC-48</u>	
B2560: STARTER CONT RELAY	×	×	—	<u>SEC-49</u>	

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	—	_		BCS-35
B2601: SHIFT POSITION	×	×		<u>SEC-50</u>
B2602: SHIFT POSITION	×	×		<u>SEC-53</u>
B2603: SHIFT POSI STATUS	×	×	_	<u>SEC-56</u>
B2604: PNP SWITCH	×	×		<u>SEC-59</u>
B2605: PNP SWITCH	×	×		<u>SEC-61</u>
B2608: STARTER RELAY	×	×		<u>SEC-63</u>
B260A: IGNITION RELAY	×	×		PCS-48
B260F: ENG STATE SIG LOST	×	×		<u>SEC-65</u>
B2614: ACC RELAY CIRC	_	×		PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×	_	PCS-56
B2617: STARTER RELAY CIRC	×	×		<u>SEC-67</u>
B2618: BCM	×	×		PCS-59
B261A: PUSH-BTN IGN SW		×		PCS-60
B2622: INSIDE ANTENNA		_		DLK-60
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×		<u>SEC-66</u>
C1704: LOW PRESSURE FL			×	<u>WT-43</u>
C1705: LOW PRESSURE FR		_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	-	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	-	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR		_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	-	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL		_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	-	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	-	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	-	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	—	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR		_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	-	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR		-	×	<u>WT-15</u>
C1722: [CODE ERR] RR		_	×	<u>WT-15</u>
C1723: [CODE ERR] RL		-	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL		_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR		_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR		_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL		_	×	<u>WT-15</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	А
C1729: VHCL SPEED SIG ERR	—	—	×	<u>WT-19</u>	
C1734: CONTROL UNIT		—	×	<u>WT-20</u>	В

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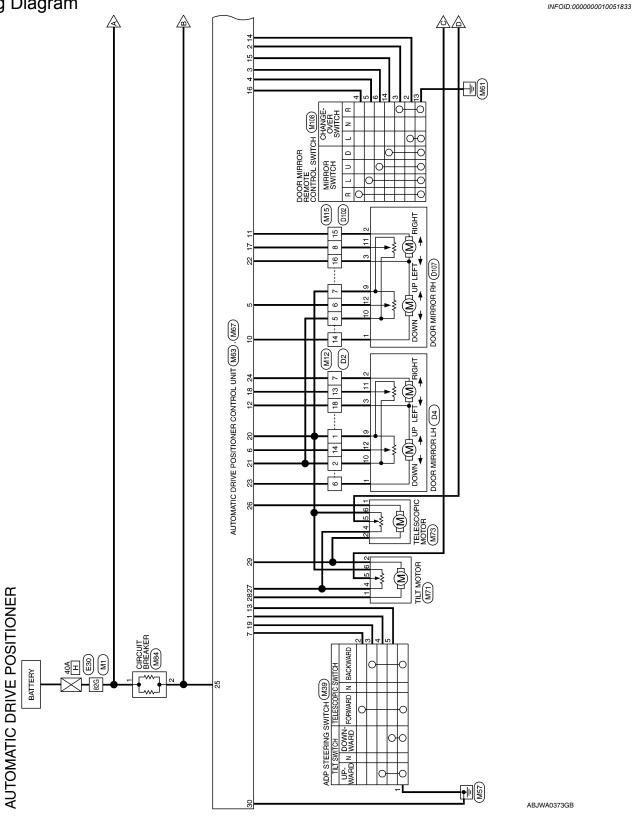
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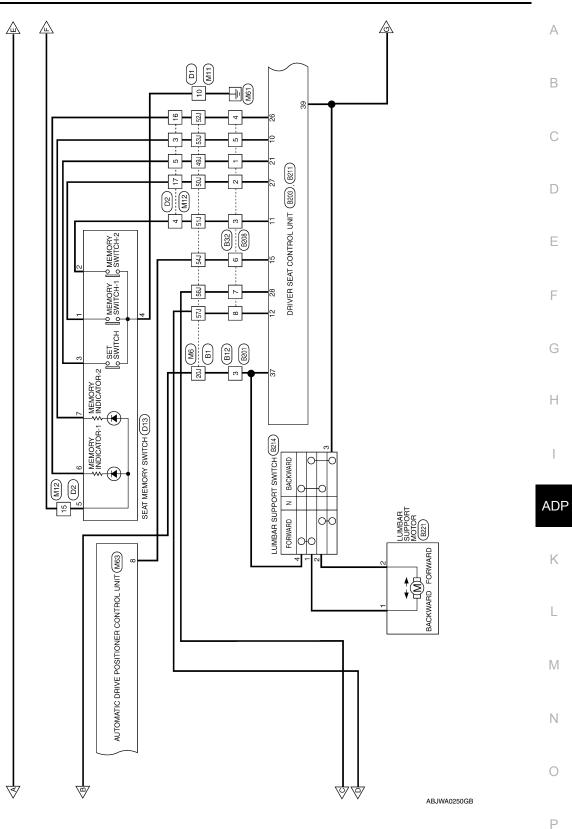
WIRING DIAGRAM

AUTOMATIC DRIVE POSITIONER

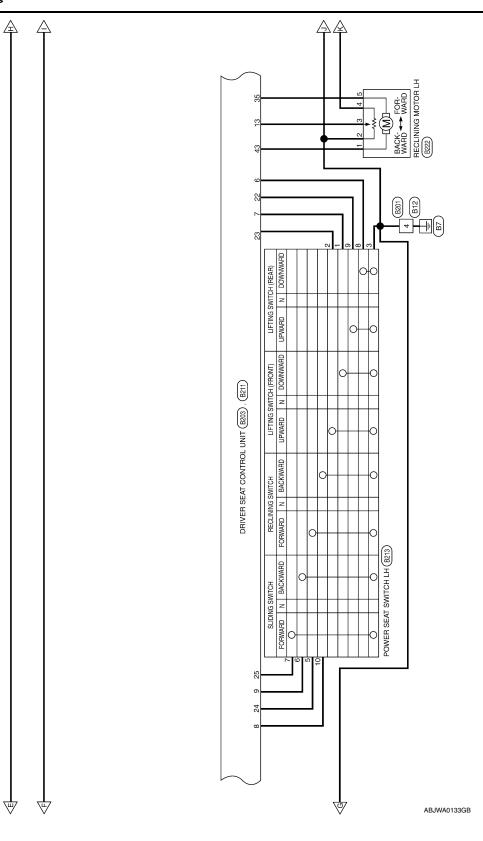
Wiring Diagram

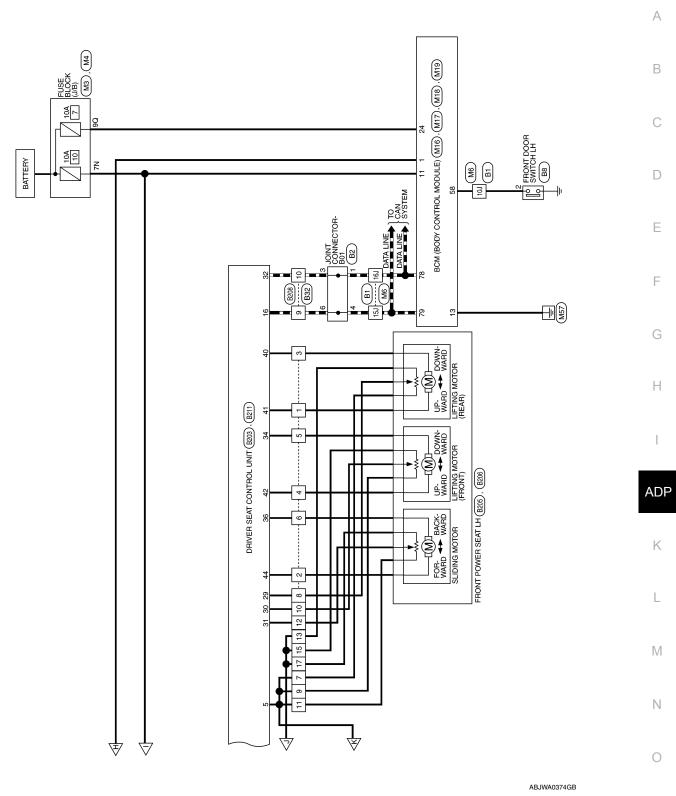


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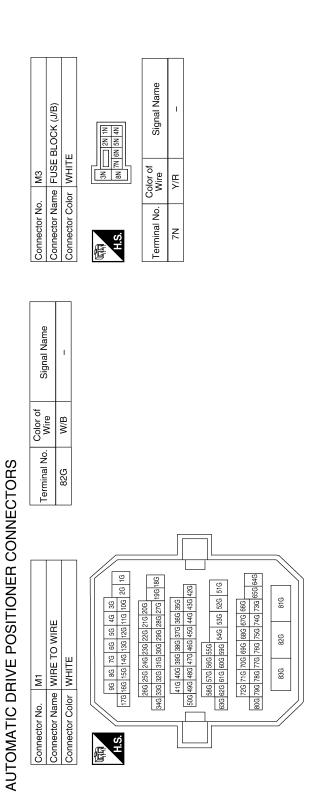


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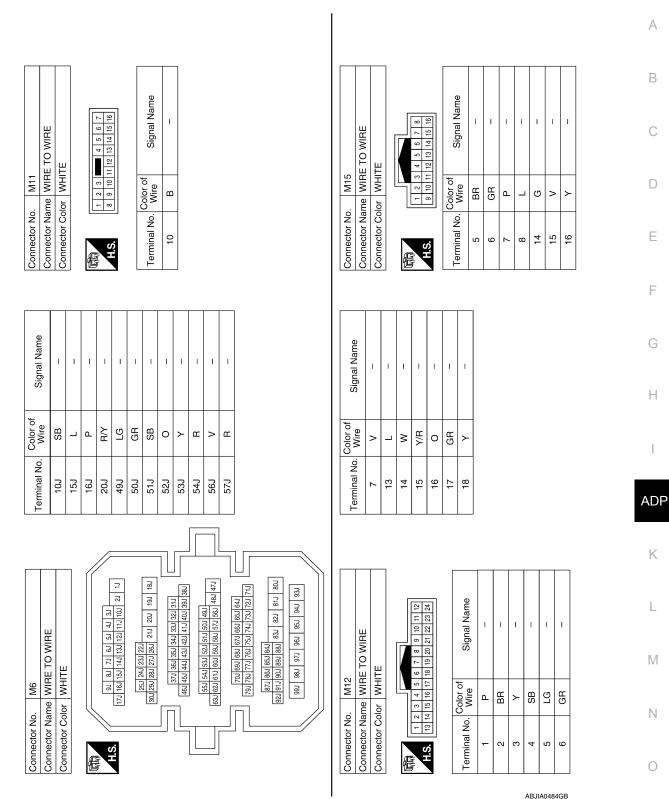
Connector No.	. M4	
Connector Na	me FUSE	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	lor WHIT	Ш
雨 H.S.	40 30 20 10 100 90 80 70 60 50	70 60 50
Terminal No.	Color of Wire	Signal Name

R/W

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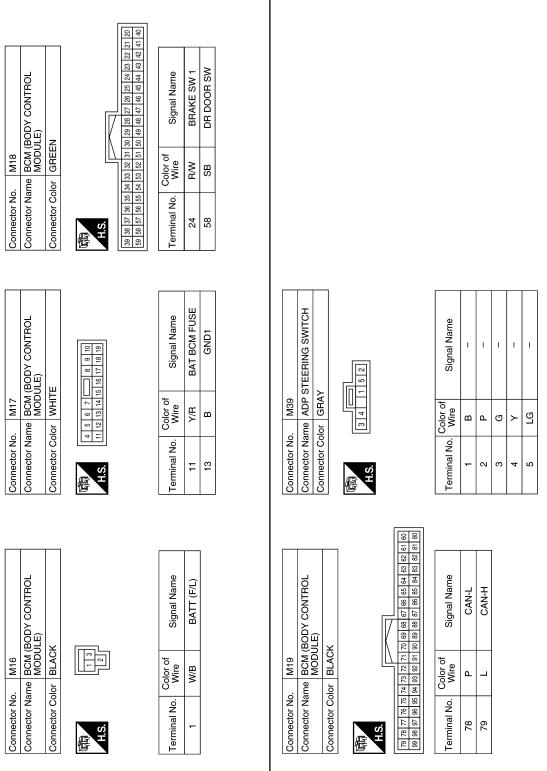
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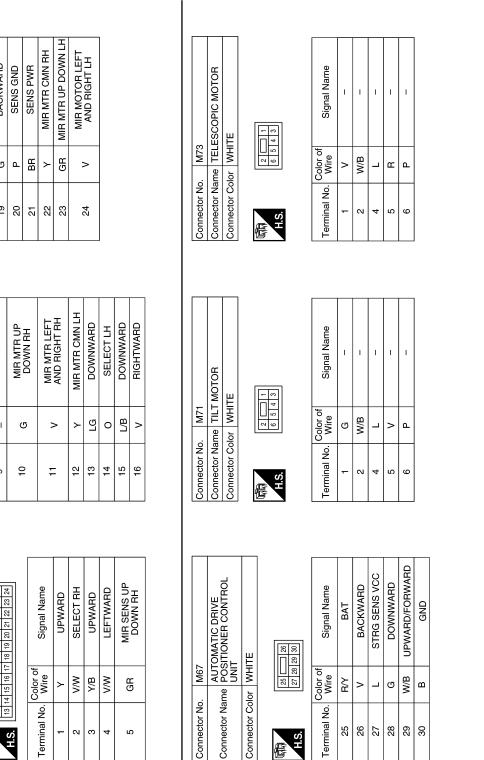


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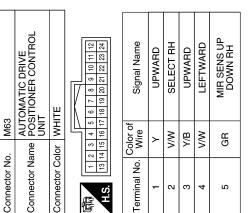
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< WIRING DIAGRAM >

MIR SENS LEFT AND RIGHT RH MIR SENS LEFT AND RIGHT LH BACKWARD Signal Name Color of Wire _ _ വ Terminal No. 18 19 17

Signal Name	MIR SENS UP DOWN LH	FORWARD	UART	I	MIR MTR UP DOWN RH	MIR MTR LEFT AND RIGHT RH	MIR MTR CMN LH	DOWNWARD	SELECT LH	DOWNWARD	RIGHTWARD
Color of Wire	8	٩	æ	I	G	>	≻	ГG	0	L/B	٨
Terminal No.	9	7	8	6	10	11	12	13	14	15	16



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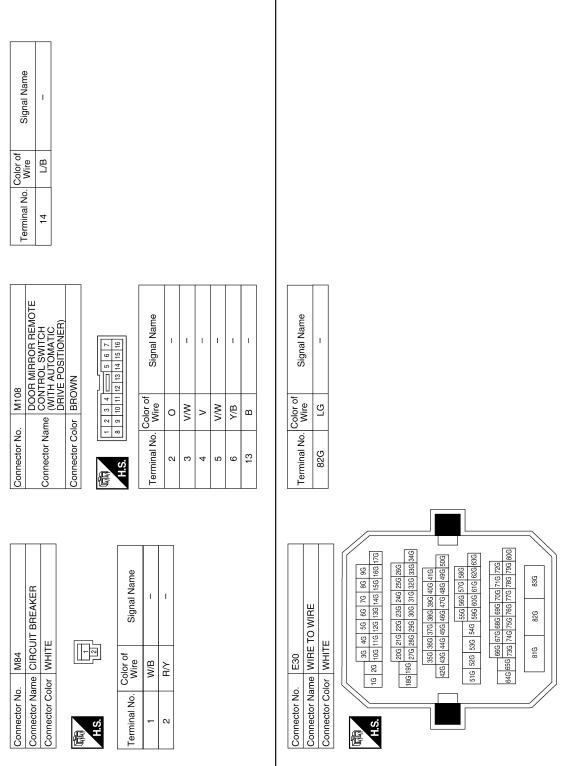
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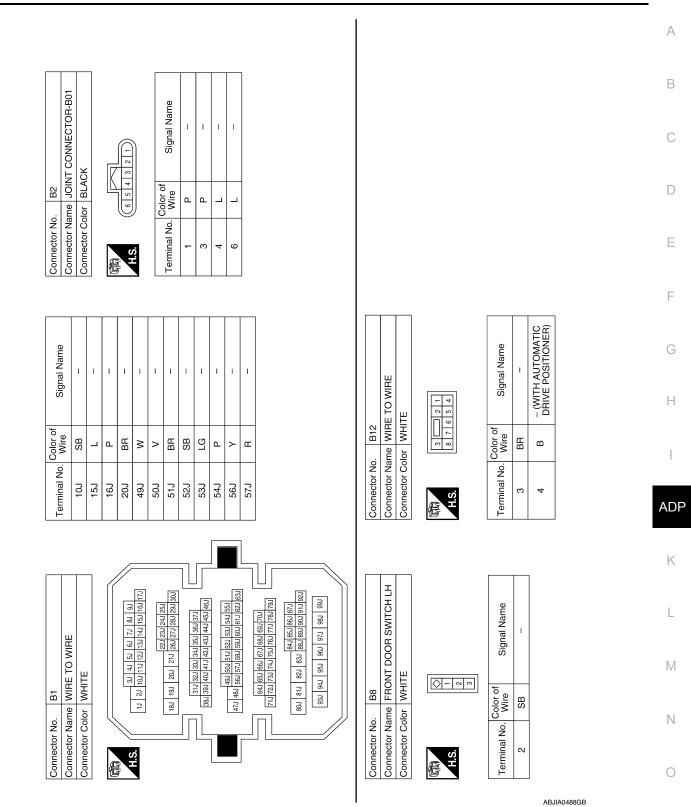
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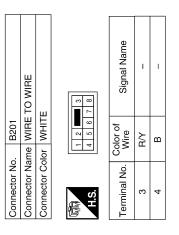


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Revision: August 2013

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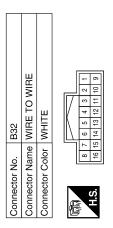
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	Signal Name	RECLINER SW FORWARD	SLIDE SW FORWARD	IND 1	ADDRESS 1	PULSE TILT	PULSE REAR LIFTER	PULSE FRONT LIFTER	PULSE SLIDE	CAN-L
	Color of Wire	GR	~	Wγ	V/V	Ц	g	W/R	0	GR/B
	Terminal No.	24	25	26	27	28	29	30	31	32

Signal Name	I	I	I	I	I	I	I	I	I	I	
Color of Wire	N	>	BR	SB	ГG	٩	۲	٣	_	٩	
Terminal No. Wire	-	2	3	4	5	9	7	8	6	10	

Signal Name	RECLINER SW BACKWARD	SLIDE SW BACKWARD	IND 2	ADDRESS 2	PULSE TELESCOPIC	PULSE RECLINER	I	UART TX/RX	CAN-H	I	I	I	I	SET SW	REAR LIFTER SW UPWARD	FRONT LIFTER SW UPWARD	
Color of Wire	Ν	>	ГG	O/B	P/Y	W/B	I	Y/B	NΟ	I	I	I	I	P/B	R	О/Y	
Terminal No.	8	6	10	1	12	13	14	15	16	17	18	19	20	21	22	23	



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

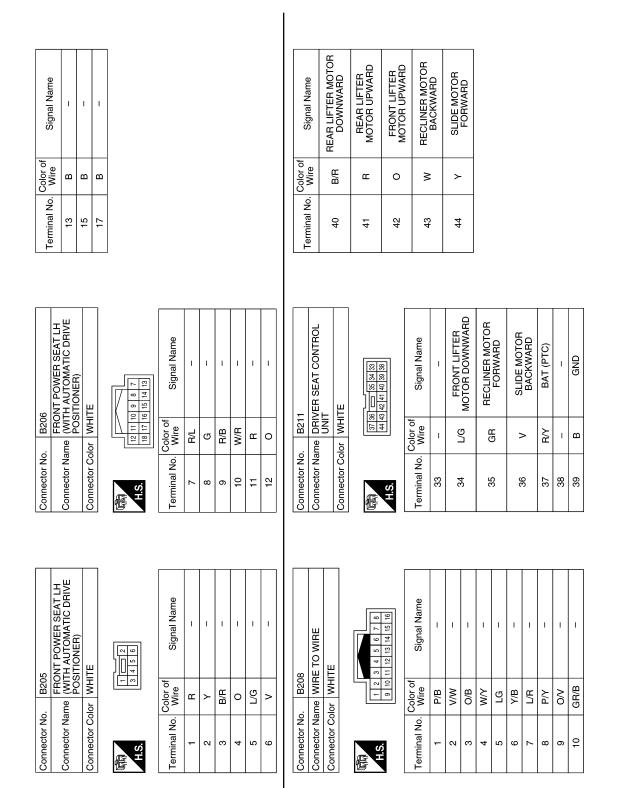
H.S.

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	7 6 5 4 3 2 1	4 23 22 21 20 19 18 17	Signal Name	I	I	I	I	POWER SUPPLY ENCODER	REAR LIFTER SW DOWNWARD	FRONT LIFTER SW DOWNWARD
1	11 10 9 8	28 27 26 25 24 23	Color of Wire	I	I	Ι	T	R/L	Ш	L/B
	16 15 14 13 12	32 31 30 29 28	Terminal No.	÷	2	3	4	5	9	2

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< WIRING DIAGRAM >



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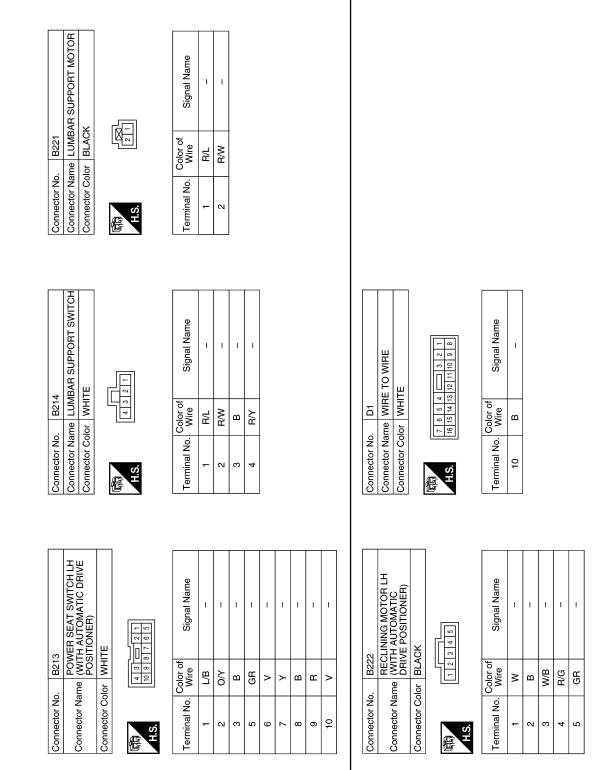
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	Signal Name Connector No. - - <th></th> <th>g dia</th> <th>GF</th> <th>RA</th> <th>M</th> <th>></th> <th></th> <th> </th> <th></th>		g dia	GF	RA	M	>																							
Signal Name Connector No. Connector Name Connector Name Co	Signal Name Connector No. Connector Name Connector Name Co	Terminat No. Connector Name 15 GRM 16 SB 17 U 17 U 18 U 19 U 10 U 11 U		ННОН ГН			5 7 8 4 15 16		Signal Name	1	I	I	I	I	1	I				RROR RH		15 / []	Signal Name			1	1	I	1	1
Signal Name	Signal Name	Terminal No. Color of tis Galor of tis Signal Name 17 V V Vine 18 LG N	or No. D4	or Name DOUR MI			1 2 3 4 5 6 9 10 11 12 13 1	-	al No. Wire	>										or Name DOOR MI	or Color WHITE	4 5 12 13	Color of	VIIIe	> @	- 5 -	W/B			_
		Terminal No. Office of the second s	Connec	Connec		f	H.S.		Termin	-	2	e	6	10	-	1			Connec	Connec	Connec	品 H.S.	Termin		- ~	n N	6	10	=	
No. Color of GIR GIR SB SB SB LG LG No. Color of GII5 141 31 11	Terminal No. Color of Wire 15 GR 17 V 17 V 17 V 17 V 18 LG Connector No. D102 Connector No. D102 Connector Name WIRE Connector Name WIRE F BR 6 BR 7 W/B 8 G 15 P 16 LG	Terminal No. Color 15 G 16 N 13 Lo 14 V 15 G 16 L 16 L 16 L	Signal Name	1	1	1	1													TO WIRE		1 9 V	Signal Name			1	1	1	1	1
	Terminal 15 17 18 18 19 17 18 19 11 11 12 13 14 14 14 15 16 16 17 18 11 14 15		No. Color of Wire	GR	SB	^	ΓC													r Name WIRE 1	r Color WHITE	12 14 13 14 13	No Color of	D Mile	= 8	W/B	σ	>	<u>م</u>	LG.
	O. D2 amme WIRE TOV Color WHITE Color WHITE R V N V		Connector No.	Connector Name		E	Ņ		Terminal No.	-	2	ო	4	S	9	7	13	14	Connector No.	Connector N	Connector C	原因 H.S.	Terminal No.	-	0	ю ·	4 u	n u	2	

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SYMPTOM DIAGNOSIS ADP SYSTEM SYMPTOMS

Symptom Table

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NOTE:

Always perform the "Basic Inspection" before performing diagnosis in the following table. Refer to <u>ADP-5.</u> "Work Flow".

SYMPTOM 1

Sympton	ו	Diagnosis procedure	Reference page
	Sliding operation	Check sliding switch.	<u>ADP-50</u>
	Reclining operation	Check reclining switch.	ADP-52
	Lifting operation (front)	Check lifting switch (front).	ADP-54
	Lifting operation (rear)	Check lifting switch (rear).	ADP-56
Manual functions (for specific part) do	Tilt operation	Check tilt switch.	ADP-58
not operate	Telescopic sensor	Check telescopic switch.	ADP-60
	De ca minera en contina	1. Changeover switch.	ADP-65
	Door mirror operation	2. Mirror switch	ADP-67
	All parts of seat	Check power seat switch ground cir- cuit.	<u>ADP-70</u>

SYMPTOM 2

Symptom	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding sensor.	<u>ADP-74</u>
	Reclining operation	Check reclining sensor.	<u>ADP-77</u>
	Lifting operation (front)	Check lifting sensor (front).	<u>ADP-80</u>
	Lifting operation (rear)	Check lifting sensor (rear).	<u>ADP-83</u>
Memory functions (for specific part) do	Tilt operation	Check tilt sensor.	<u>ADP-86</u>
not operate	Telescopic operation	Check telescopic sensor.	<u>ADP-89</u>
	Door mirror operation	Check door mirror sensor.	Driver side: <u>ADP-92</u> Passenger side: <u>ADP-94</u>

SYMPTOM 3

Sympton	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding motor.	<u>ADP-97</u>
	Reclining operation	Check reclining motor.	ADP-99
	Lifting operation (front)	Check lifting motor (front).	ADP-101
Memory functions and manual func- tions (for specific part) do not operate	Lifting operation (rear)	Check lifting motor (rear).	ADP-103
	Tilt operation	Check tilt motor.	ADP-105
	Telescopic operation	Check telescopic motor.	ADP-107
	Door mirror operation	Check door mirror motor.	ADP-109

ADP SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM 4

Symptom	Diagnosis procedure	Reference page	
	1. Check system setting.	<u>ADP-21</u>	
Entry/Exit assist function does not operate.	2. Perform initialization.	Refer to Own- er's Manual.	
	3. Check front door switch (driver side).	<u>ADP-72</u>	
(Other automatic operations and Intelligent Key system	1. Check door lock function.	<u>DLK-17</u>	
are normal)	2. Perform memory storing.	ADP-8	

SYMPTOM 5

Symptom	Diagnosis procedure	Reference page
Memory indicators 1 and/or 2 do not illuminate.	1. Check seat memory switch.	<u>ADP-62</u>
	2. Check seat memory indicator.	ADP-112

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Revision: August 2013

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

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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.	Refer to Owner's Manu- al.
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.	<u>ADP-25</u>
Entry assist function does not op- erate.	Manual operation with power seat switch was performed after exit assist function execution.	Perform the memory function.	<u>ADP-25</u>
			Memory function: <u>ADP-17</u>
Memory function, entry/exit as- sist function or Intelligent Key in-	The operating conditions are not fulfilled.	Fulfill the operation	Exit assist function: <u>ADP-21</u>
terlock function does not operate.	The operating conditions are not runned.	conditions.	Entry assist function: <u>ADP-25</u>
			Intelligent Key interlock function: <u>ADP-29</u>

< PRECAUTION > PRECAUTION

PRECAUTION PRECAUTIONS	А
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	В
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	С
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 Man-	D
ual. WARNING:	Е
 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. 	F
• 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.	G
PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS	Н
 WARNING: When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury. 	I
 When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service. 	ADP
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. 	K
• 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.	L
 Protect the removed parts with a shop cloth and prevent them from being dropped. Replace a deformed or damaged clip. 	
 If a part is specified as a non-reusable part, always replace it with a new one. Be sure to tighten both and pute acquirely to the apositied torque. 	\mathbb{N}
 Be sure to tighten bolts and nuts securely to the specified torque. After installation is complete, be sure to check that each part works properly. 	
Follow the steps below to clean components:	Ν
- Water soluble dirt:	Ν
 Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. Then rub with a soft, dry cloth. 	
 Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. Then rub with a soft, dry cloth. Oily dirt: 	N O
 Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. Then rub with a soft, dry cloth. Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area. 	
 Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. Then rub with a soft, dry cloth. Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area. Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off. 	
 Water soluble dirt: Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. Then rub with a soft, dry cloth. Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area. 	0

- For genuine leather seats, use a genuine leather seat cleaner.

< PREPARATION >

PREPARATION PREPARATION

Special Service Tool

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The actual shapes of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name		Description
 (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

REMOVAL AND INSTALLATION DRIVER SEAT CONTROL UNIT

Removal and Installation	В
REMOVAL NOTE: The driver seat control unit is part of the driver seat.	С
 Remove driver seat. Refer to <u>SE-68</u>, "<u>Removal and Installation</u>" (with climate controlled seats) or <u>SE-126</u>, "<u>Removal and Installation</u>" (without climate controlled seats). Disconnect the harness connector from the driver seat control unit. Remove driver seat control unit using a suitable tool. 	D
INSTALLATION	Е
Installation is in the reverse order of removal. CAUTION: Be sure to install the harness in the right place. NOTE: After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-8, "Special</u> <u>Repair Requirement"</u> .	F

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Revision: August 2013

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

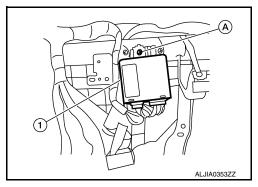
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

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REMOVAL

- Remove audio unit. Refer to <u>AV-73</u>, "Removal and Installation" (BASE AUDIO), <u>AV-161</u>, "Removal and <u>Installation</u>" (BOSE W/MONOCHROME DISPLAY), <u>AV-481</u>, "Removal and Installation" (BOSE W/ COLOR DISPLAY), <u>AV-652</u>, "Removal and Installation" (BOSE W/COLOR DISPLAY W/NAVIGATION).
- 2. Remove the automatic drive positioner control unit screw (A).
- 3. Remove automatic drive positioner control unit (1).



INSTALLATION Installation is in the reverse order of removal. CAUTION: Be sure to install the harness in the right place.

< REMOVAL AND INSTALLATION >

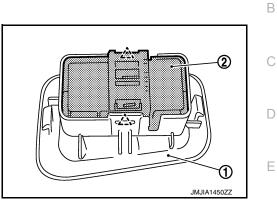
SEAT MEMORY SWITCH

Removal and Installation

REMOVAL

- 1. Remove the seat memory finisher using a suitable tool (1). Refer to <u>INT-18, "Removal and Installation"</u>.
- 2. Release the pawls and remove seat memory switch (2) from seat memory finisher (1).

کے : Pawl



INSTALLATION Installation is in the reverse order of removal. CAUTION: Be sure to install the harness in the right place.

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< REMOVAL AND INSTALLATION >

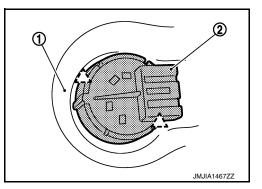
TILT&TELESCOPIC SWITCH

Removal and Installation

REMOVAL

- 1. Remove the steering column side cover (LH) (1). Refer to <u>IP-13</u>. <u>"Removal and Installation"</u>.
- 2. Release the pawls and remove tilt & telescopic switch (2) from the steering column side cover (LH) (1).

<u>ک</u> : Pawl



INSTALLATION Installation is in the reverse order of removal. CAUTION: Be sure to install the harness in the right place.