AUTOMATIC DRIVE POSITIONER

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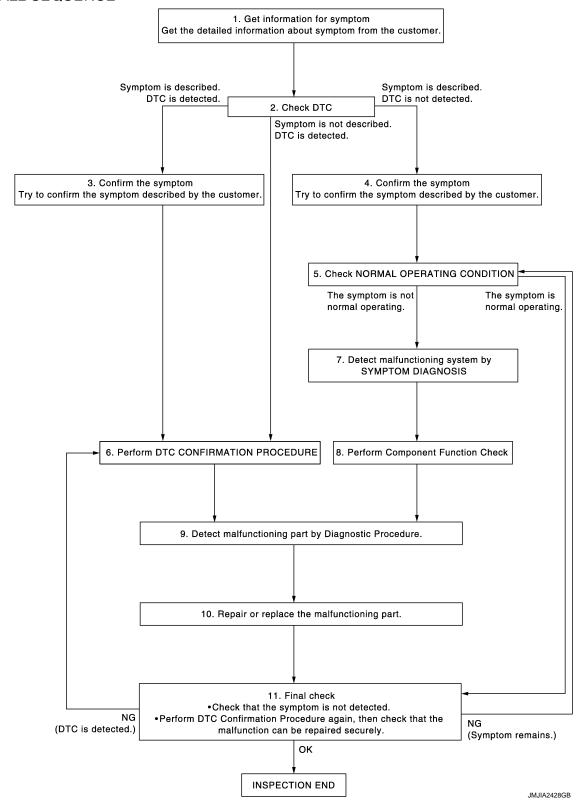
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORKFLOW < BASIC INSPECTION > $1.\mathsf{GET}$ INFORMATION FOR SYMPTOM Α Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred). В >> GO TO 2. 2.CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM Check "Self Diagnostic Result" with CONSULT-III. Refer to ADP-165, "DTC Index" Is any symptom described and any DTC is displayed? Symptom is described, DTC is displayed.>>GO TO 3. D Symptom is not described, DTC is displayed.>>GO TO 6. Symptom is described, DTC is not displayed.>>GO TO 4. 3.CONFIRM THE SYMPTOM Try to confirm the symptom described by the customer. >> GO TO 6. 4.CONFIRM THE SYMPTOM Try to confirm the symptom described by the customer. >> GO TO 5. CHECK NORMAL OPERATING CONDITION Н Check normal operating condition. Refer to ADP-233, "Description". Is the incident normal operation? >> INSPECTION END YES NO >> GO TO 7. $\mathsf{6}.$ PERFORM DTC CONFIRMATION PROCEDURE ADP Perform the confirmation procedure for the detected DTC. Is the DTC displayed? >> GO TO 8. YES NO >> Check intermittent incident, Refer to GI-43, "Intermittent Incident", $7.\mathsf{DETECT}$ MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom. M >> GO TO 8. 8.PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 9.

9.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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

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>> GO TO 10.

10. REPARE OR REPLACE

Repair or replace the malfunctioning part.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 11.

11. FINAL CHECK

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

Are all malfunctions corrected?

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

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000006471447

Each function is reset to the following condition when the battery terminal is disconnected.

Function	Condition	Procedure
Memory (Seat, steering, mirror)	Erased	Perform memory storing
Intelligent Key interlock	Erased	Perform memory storing
Seat synchronization	OFF	_

NOTE:

When disconnecting the battery terminal or replacing the driver seat control unit, DTC, registered items of memory storing, and details of system setting detected in the past are erased. Perform operation after checking the contents.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000006471448

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-10, "SYSTEM INITIALIZATION: Description".

>> GO TO 2.

2.system setting

Perform system setting. Refer to ADP-11, "SYSTEM SETTING: Description".

>> GO TO 3.

3. MEMORY STORING

Perform memory storing. Refer to ADP-10, "MEMORY STORING: Description".

>> END

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:0000000006471449

Each function is reset to the following condition when the driver seat control unit is replaced.

Function	Condition	Procedure
Memory (Seat, steering, mirror)	Erased	Perform memory storing
Intelligent Key interlock	Erased	Perform memory storing
Seat synchronization	OFF	_

When disconnecting the battery terminal or replacing the driver seat control unit, DTC, registered items of memory storing, and details of system setting detected in the past are erased. Perform operation after checking the contents.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000006471450

1.system initialization

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< BASIC INSPECTION >

Perform system initialization. Refer to ADP-10, "SYSTEM INITIALIZATION: Description".

>> GO TO 2.

2. SYSTEM SETTING

Perform system setting. Refer to ADP-11, "SYSTEM SETTING: Description".

>> GO TO 3.

3. MEMORY STORING

Perform memory storing. Refer to ADP-10, "MEMORY STORING: Description".

>> END

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION: Description

INFOID:0000000006471451

When disconnecting battery negative terminal or replacing control unit, always perform the system initialization. Otherwise, the backward operation for power walk-in function does not activate normally.

SYSTEM INITIALIZATION: Special Repair Requirement

INFOID:0000000006471452

INITIALIZATION PROCEDURE

1. STEP-1

Slide the seat to the front edge.

NOTE:

- STEP-1 is the initialization procedure for power walk-in function.
- If the seat sliding position is already at the front edge, slide the seat rearward once, and then slide it to the front edge again.

>> END

MEMORY STORING

MEMORY STORING: Description

INFOID:0000000006471453

Always perform the memory storage when the battery terminal is disconnected or the driver seat control unit is replaced. The memory function and Intelligent Key interlock function will not operate normally if no memory storage is performed.

MEMORY STORING: Special Repair Requirement

INFOID:0000000006471454

Memory Storage Procedure

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

1.STEP 1

Shift AT selector lever to P position (AT model) or applied parking brake (MT model).

>> GO TO 2.

2.STEP 2

Turn ignition switch ON.

>> GO TO 3.

3.STEP 3

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

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< BASIC INSPECTION >		
>> GO TO 4.		
4.STEP 4		
1. Push set switch.		
NOTE:		
 Memory indicator for onds. 	which driver seat position is already retained in memory is illumi	nated for 5 sec-
 Memory indicator for v 	which driver seat position is not retained in memory is illuminated to the hold of the hol	
	ne same memory switch, the previous memory will be deleted.	
Do you need linking of Intell	igent Key?	
YES >> GO TO 6. NO >> GO TO 5.		
5. STEP 5		
	ch part with memory operation.	
Committee operation of cal	on part with mornory operation.	
>> END		
6. STEP 6		
Turn ignition switch OFF (LC	OCK).	
>> GO TO 7.		
7.STEP 7		
	itch. Memory switch indicator is illuminated for 5 seconds. During ess Intelligent Key unlock button while pressing memory switch 1 of	
NOTE:		J. 2.
Memory switch indicator ian	np blinks for 5 seconds when registration is complete.	
>> GO TO 8.		
8. STEP 8		
Confirm the operation of each	ch part with memory operation and Intelligent Key interlock operati	ion.
>> END		
SYSTEM SETTING		
SYSTEM SETTING :	Description	INFOID:0000000006471455
The setting of the automatic	driving positioner system can be changed using the set switch.	
_	Special Repair Requirement	(AUEO/ID 000000000 474 4F)
OTOTEWOLTTING:	Openial Requirement	INFOID:00000000006471450
SETTING PROCEDURE		
1. STEP-1		
Set the vehicle to the follow	ing condition.	
Ignition position: ACCA/T selector lever: P posit	ion (A/T models)	
 Parking brake: Applied on 		
>> GO TO 2.		
2. STEP-2		

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Press set switch and hold for more than 10 seconds, then confirm blinking of the memory switch indicator.

< BASIC INSPECTION >

- Seat synchronization are ON: Memory switch indicator blink two times.
- Seat synchronization are OFF : Memory switch indicator blink once.

NOTF:

• After memory setting registration, by pushing set switch for approximately 10 seconds, memory switch indicator lamp turns 4 seconds. turns OFF, blinks 1 or 2 times, and then the switching operation is complete. Push and hold set switch during the switching operation.

>> END.

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SYSTEM DESCRIPTION

Lifting switch (rear)

AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram

В INFOID:0000000006471457 Door mirror LH/RH Seat memory switch Mirror motor Set switch D Mirror sensor Memory switch Tilt & Telescopic sensor Indicator Tilt sensor Door mirror remote control switch Automatic drive Telescopic sensor Mirror switch positioner control unit Tilt & Telescopic motor Changeover switch Tilt motor Tilt & telescopic switch Telescopic motor Tilt switch **BCM** Telescopic switch Unified meter and A/C amp Seat belt buckle switch CAN communication **TCM** ADP UART A/T shift selector or parking brake communication To CAN Detent switch or Parking brake switch Forward switch Power walk-in switch Reclining motor Sliding limit switch Reclining sensor Power seat switch Ν Driver seat Sliding motor control unit Sliding switch Sliding sensor Reclining switch Lifting motor (front) Lifting sensor (front) Lifting switch (front)

Driver seat

Lifting motor (rear)

Lifting sensor (rear)

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< SYSTEM DESCRIPTION >

AUTOMATIC DRIVE POSITIONER SYSTEM: System Description

INFOID:0000000006471458

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.

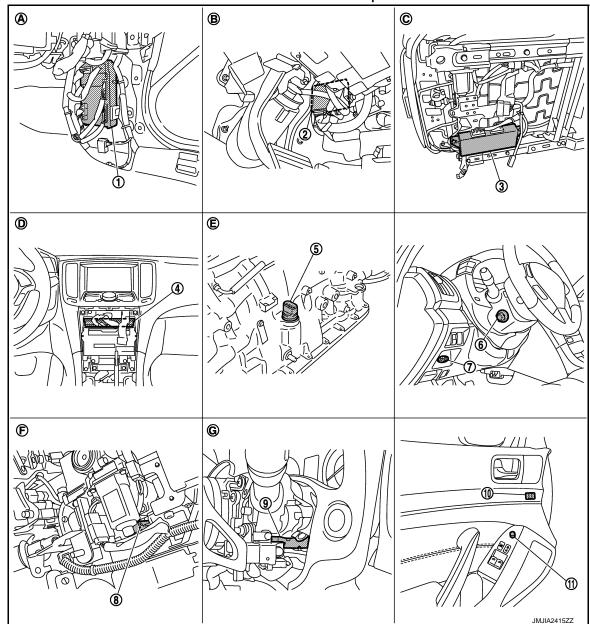
Function	Description
Manual function	The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, tilt & telescopic switch or door mirror remote control switch.
Seat synchronization function	The positions of the steering column and door mirror are adjusted to the proper position automatically while linking with manual operation [seat sliding, seat lifting (rear) or seat reclining].
Memory function	The seat, steering column and outside mirror move to the stored driving position by pressing seat memory switch (1 or 2).
Power walk-in function	The seat is made to advance when the seat back of driver seat is folded down and press the walk-in switch. The seat is made to retreat to former position when the seat back of driver seat is folded up and press the walk-in switch.
Intelligent Key interlock function	Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

NOTE:

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

< SYSTEM DESCRIPTION >

AUTOMATIC DRIVE POSITIONER SYSTEM: Component Parts Location INFOID:000000006471459



- 1. BCM
- 4. Unified meter and A/C amp.
- 7. Key slot
- 10. Seat memory switch
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3.
- 5. A/T assembly
- 8. Tilt sensor
- 11. Door mirror remote control switch
- View with instrument driver lower panel removed
- E. A/T assembly (TCM is built in A/T assembly)
- . Driver seat control unit
- 6. Tilt & telescopic switch
- 9. Telescopic sensor
- C. Backside of seat cushion (driver side)
- F. View with instrument driver lower panel removed

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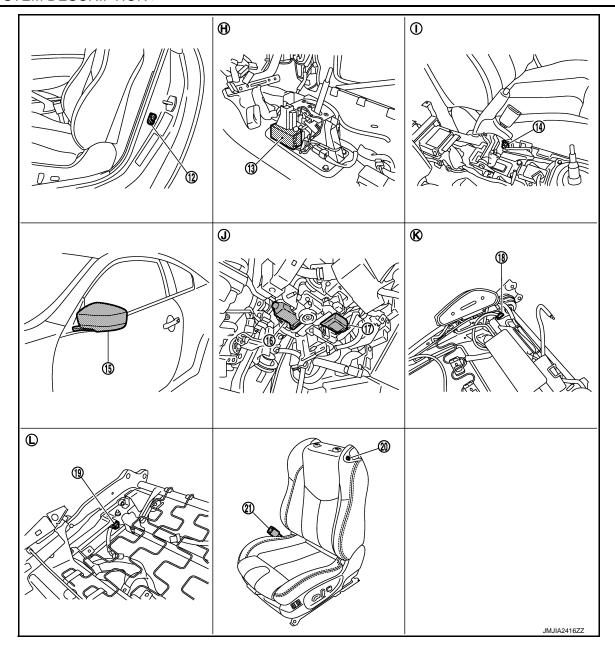
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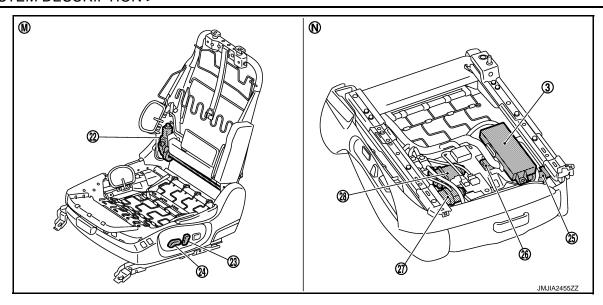
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- 12. Driver side door switch
- 15. Door mirror (driver side)
- 18. Forward switch
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.
- 13. A/T shift selector (detention switch)
- 16. Telescopic motor
- 19. Sliding limit switch
- View with center console assembly is removed.
- View with seat cushion pad is removed.
- 14. Parking brake switch
- 17. Tilt motor
- 20. Power walk-in switch
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



22. Reclining motor

- 23. Reclining switch (Power seat switch)
- 24. Sliding, lifting switch (Power seat switch)

25. Sliding sensor

- 26. Lifting motor (front)
- 27. Sliding motor

- 28. Lifting motor (rear)
- M. View with seat cushion pad and seat- N. back pad are removed.
- Backside of seat cushion

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000006471460

CONTROL UNITS

Item	Function
Driver seat control unit	 Main units 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 tilt & telescopic, door mirror and the seat memory switch.
BCM	Transmit the following status to the driver seat control unit via CAN communication. Driver door: OPEN/CLOSE Ignition switch position: ACC/ON Door lock: UNLOCK (with Intelligent Key or driver side door request switch operation) Key ID Key switch: Insert/Pull out Intelligent Key Starter: CRANKING/OTHER
Unified meter and A/C amp.	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.
TCM	Transmit the shift position signal (P range) to the driver seat control unit via CAN communication.

INPUT PARTS

Switches

Item	Function
Key slot	The key switch is installed to detect the key inserted/removed status.
Driver side door switch	Detect front door (driver side) open/close status.

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< SYSTEM DESCRIPTION >

Item	Function
A/T shift selector (detention switch)	Detect the P range position of A/T selector lever. (A/T models)
Parking break switch	Detect the parking brake status. (M/T models)
Set switch	The registration and system setting can be performed with its operation.
Memory switch 1/2	The registration and operation can be performed with its operation.
Power seat switch	The following switch is installed. Reclining switch Lifting switch (front) Lifting switch (rear) Sliding switch The specific parts can be operated with the operation of each switch.
Power walk-in switch	Perform the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detect the front end position of seat sliding during the power walk-in function front-ward operation.
Seat belt buckle switch	Detect the seat belt fastening/releasing condition.
Forward switch	Detect the folded up/folded down condition of seatback that is the operation condition of power walk-in function.
Tilt & telescopic 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	
Door mirror sensor (driver side/passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.	
Tilt & telescopic sensor	Detect the upward/downward and forward/backward position of steering column.	
Lifting sensor (front)	Detect the upward/downward position of seat lifting (front).	
Lifting sensor (rear)	Detect the upward/downward position of seat lifting (rear).	
Reclining sensor	Detect the tilt of seatback.	
Sliding sensor	Detect the forward/backward position of seat.	

OUTPUT PARTS

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

SLEEP MODE

- The seat control unit adopts the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following condition are fulfilled.
- 1. Ignition switch turn OFF (steering LOCK position)
- 2. No load is applied to the seat control

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< SYSTEM DESCRIPTION >

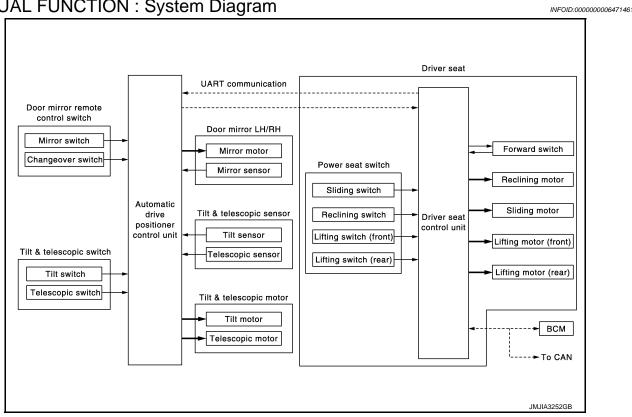
- The seat control unit 45seconds timer in not activated
- Set switch and memory switch (1 and 2) turn OFF

WAKE-UP MODE

- The sleep mode is cancelled when any status change is detected for the followings.
- CAN communication
- Power seat switch
- Set switch and memory switch (1 and 2)
- 4. Power walk-in switch
- 5. Door mirror switch
- Steering column switch

MANUAL FUNCTION

MANUAL FUNCTION: System Diagram



MANUAL FUNCTION: System Description

OUTLINE

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

OPERATION PROCEDURE

- Operate power seat switch, tilt & telescopic switch or door mirror remote control switch.
- The driver seat, steering column or door mirror operates according to the operation of each switch.

DETAIL FLOW

Seat Р

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< SYSTEM DESCRIPTION >

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, reclining)	The driver seat control unit outputs signals to each motor according to the power seat switch input signal.

Tilt & Telescopic

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

^{*:} Tilt does not operates upward when tilt sensor value is less than 1.1 V, tilt does not operate downward when the sensor value is more than 3.9 V. Telescopic does not operates backward when telescopic sensor value is less than 0.5 V, telescopic does not operate forward when the sensor value is more than 4.5 V.

Door Mirror

Order	Input	Output	Control unit condition
1	Door mirror remote control switch	_	The door mirror remote control switch signal is inputted to the automatic drive positioner control unit when the door mirror remote control switch is operated.
2	_	Motors (Door mirror motor)	The automatic drive positioner control unit actuates each motor according to the signal from the door mirror remote control switch.
3	Sensors (Mirror)	_	The automatic drive positioner control unit monitors the input of mirror sensor. It stops the operation if the input reaches the operation limit.

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

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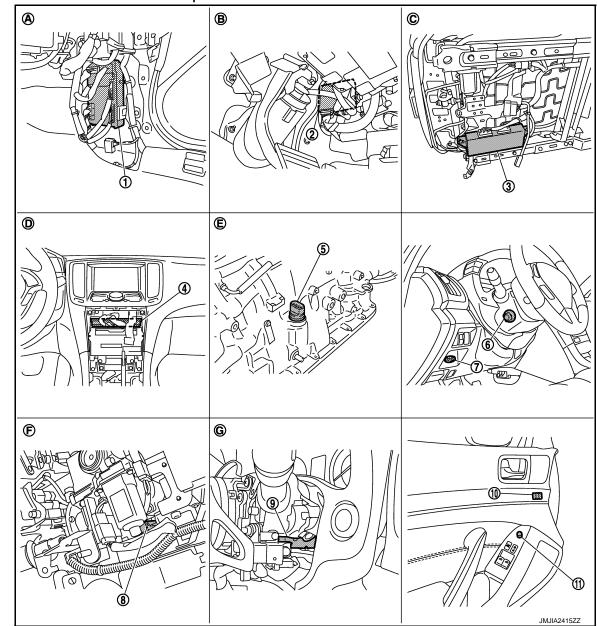
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- 1. BCM
- 4. Unified meter and A/C amp.
- 7. Key slot
- 10. Seat memory switch
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3.
- 5. A/T assembly
- 8. Tilt sensor
- 11. Door mirror remote control switch
- View with instrument driver lower panel removed
- A/T assembly (TCM is built in A/T assembly)
- Driver seat control unit
- 6. Tilt & telescopic switch
- 9. Telescopic sensor
- C. Backside of seat cushion (driver side)
- F. View with instrument driver lower panel removed

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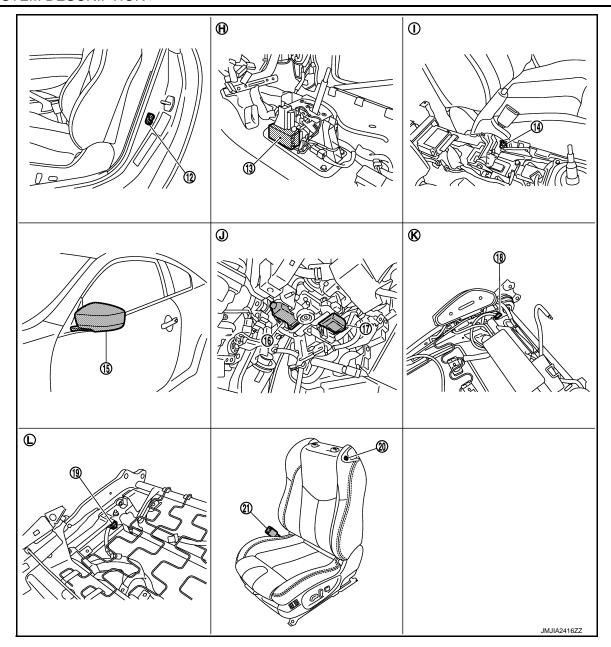
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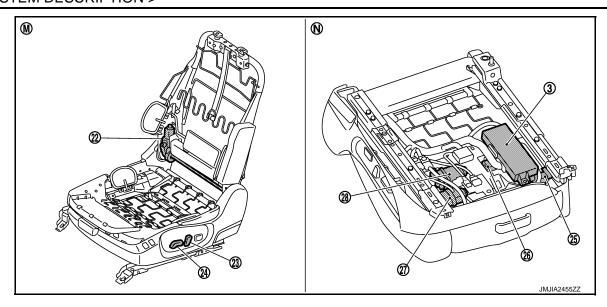
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- 12. Driver side door switch
- 15. Door mirror (driver side)
- 18. Forward switch
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- ${\sf K.} \quad {\sf View \ with \ seat \ back \ pad \ is \ removed. \ \ L.}$
- 13. A/T shift selector (detention switch)
- 16. Telescopic motor
- 19. Sliding limit switch
- View with center console assembly is removed.
- View with seat cushion pad is removed.
- 14. Parking brake switch
- 17. Tilt motor
- 20. Power walk-in switch
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



- 22. Reclining motor
- 23. Reclining switch (Power seat switch)
- 26. Lifting motor (front)
- 24. Sliding, lifting switch (Power seat switch)
- 27. Sliding motor

- 25. Sliding sensor
- 28. Lifting motor (rear)
- M. View with seat cushion pad and seat- N. back pad are removed.
- Backside of seat cushion

MANUAL FUNCTION: Component Description

INFOID:0000000006471464

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 tilt & telescopic switch or door mirror remote control switch.
ВСМ	Recognizes the following status and transmits it to the driver seat control unit via CAN communication. • Ignition position: ACC/ON

INPUT PARTS

Switches

Item	Function
Power seat switch	The following switch is installed. Reclining switch Lifting switch (front) Lifting switch (rear) Sliding switch The specific parts can be operated with the operation of each switch.
Tilt & telescopic switch	The following switch is installed. • Tilt switch • Telescopic switch The specific parts can be operated with the operation of each switch.

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< SYSTEM DESCRIPTION >

Item	Function
Forward switch	Detect folded down or folded up of the seat back.
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 & telescopic sensor	Detect the upward/downward & forward/backward position of steering column.
Door mirror sensor (driver side / passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.

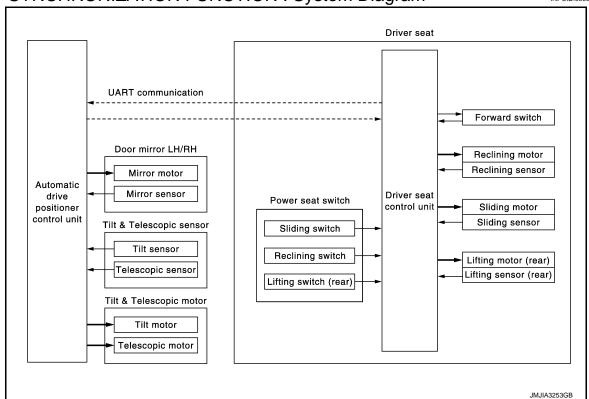
OUTPUT PARTS

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

SEAT SYNCHRONIZATION FUNCTION

SEAT SYNCHRONIZATION FUNCTION : System Diagram

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SEAT SYNCHRONIZATION FUNCTION : System Description

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OUTLINE

< SYSTEM DESCRIPTION >

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

NOTE:

This function is set to OFF before delivery. (initial setting)

For the system setting procedure. Refer to ADP-11, "SYSTEM SETTING: Description".

OPERATION PROCEDURE

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

NOTE:

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

Item	Limit value
Seat sliding	76 mm
Seat reclining	9.1 degrees
Seat lifter (rear)	20 mm

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

OPERATION CONDITION

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

Item	Request status
System setting	ON
Ignition position	ON
Seat back	Folded up
A/T selector lever (A/T models)	P position
Parking break (M/T models)	Applied
Switch inputs Power seat switch Tilt & telescopic switch Door mirror remote control switch Set switch Memory switch	OFF (Not operated)

DETAIL FLOW

When performing the sliding, reclining or lifting (rear) operation in manual function, the driver seat control unit performs the seat synchronization function as follows.

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

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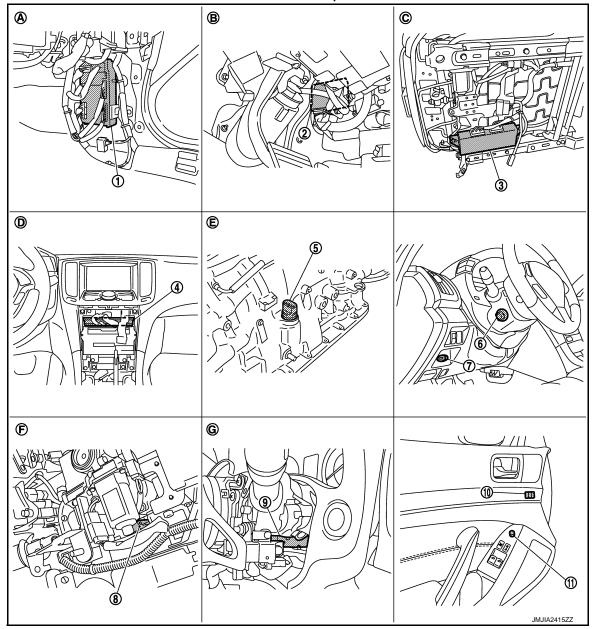
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< SYSTEM DESCRIPTION >

SEAT SYNCHRONIZATION FUNCTION : Component Parts Location

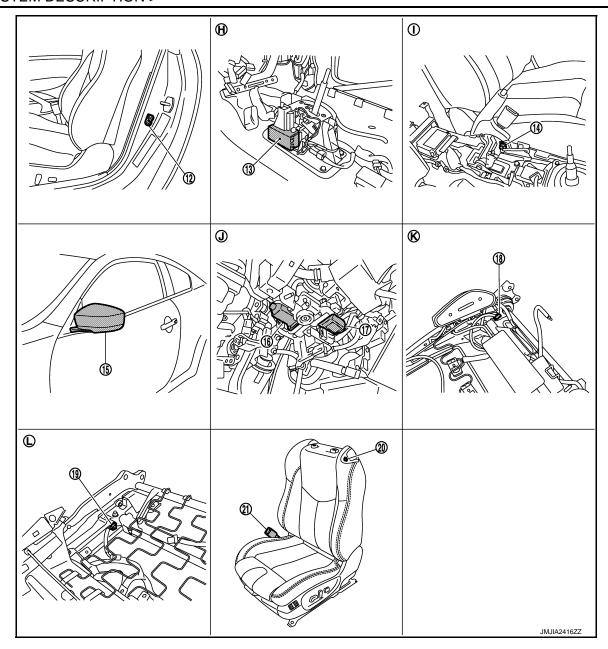
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- 1. BCM
- 4. Unified meter and A/C amp.
- 7. Key slot
- 10. Seat memory switch
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3.
- 5. A/T assembly
- 8. Tilt sensor
- 11. Door mirror remote control switch
- 3. View with instrument driver lower panel removed
- E. A/T assembly (TCM is built in A/T assembly)
- Driver seat control unit
- 6. Tilt & telescopic switch
- 9. Telescopic sensor
- Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

< SYSTEM DESCRIPTION >



- 12. Driver side door switch
- 15. Door mirror (driver side)
- 18. Forward switch
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.
- 13. A/T shift selector (detention switch)
- 16. Telescopic motor
- 19. Sliding limit switch
- I. View with center console assembly is removed.
 - View with seat cushion pad is removed.
- 14. Parking brake switch
- 17. Tilt motor
- 20. Power walk-in switch
- J. View with instrument driver lower panel is removed.

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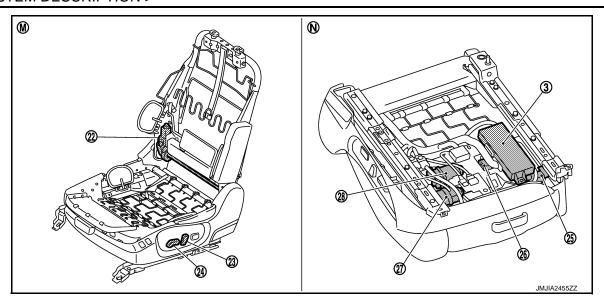
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< SYSTEM DESCRIPTION >



22. Reclining motor

- 23. Reclining switch (Power seat switch)
- 24. Sliding, lifting switch (Power seat switch)

27. Sliding motor

- 26. Lifting motor (front)
- 25. Sliding sensor 28. Lifting motor (rear)
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

SEAT SYNCHRONIZATION FUNCTION: Component Description

INFOID:0000000006471468

CONTROL UNITS

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

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.
Forward switch	Detect folded down or folded up of the seat back.

Sensors

Item	Function
Door mirror sensor (driver side/passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.
Tilt & telescopic sensor	Detect the upward/downward and forward/backward position of steering column.
Lifting sensor (rear)	Detect the upward/downward position of seat lifter (rear).
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the frontward/rearward position of seat.

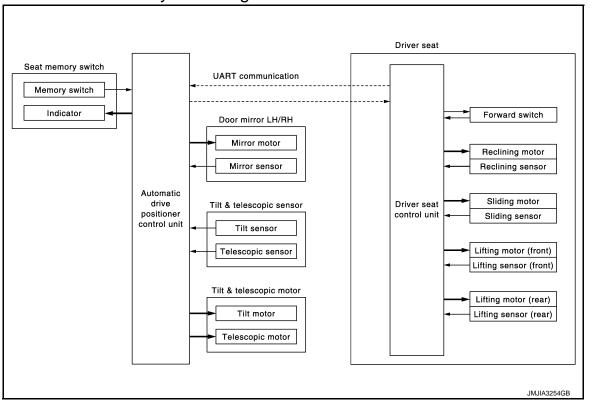
< SYSTEM DESCRIPTION >

OUTPUT PARTS

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

MEMORY FUNCTION

MEMORY FUNCTION: System Diagram



MEMORY FUNCTION: System Description

OUTLINE

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

NOTE:

Further information for the memory storing procedure. Refer to ADP-10, "MEMORY STORING: Description".

OPERATION PROCEDURE

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

OPERATION CONDITION

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

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< SYSTEM DESCRIPTION >

Item	Request status
Ignition position	ON
Seat back	Folded up
A/T selector lever (A/T models)	P position
Parking break (M/T models)	Applied
Switch inputs Power seat switch Tilt & telescopic switch Door mirror control switch Set switch Memory switch	OFF (Not operated)

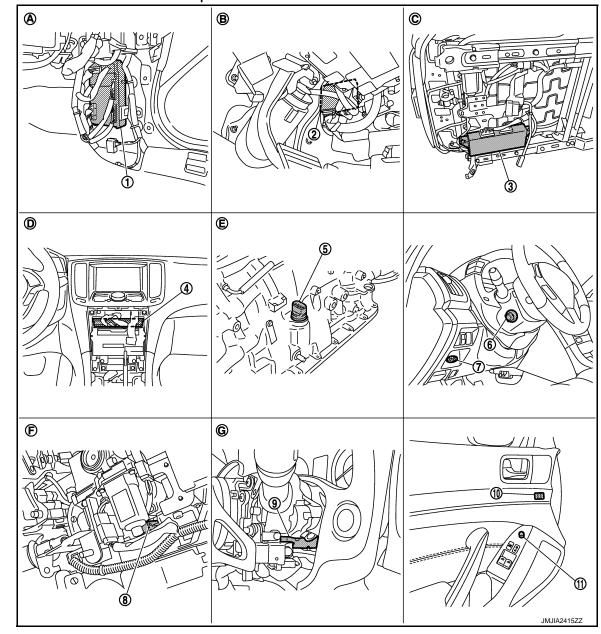
DETAIL FLOW

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

< SYSTEM DESCRIPTION >

MEMORY FUNCTION : Component Parts Location

INFOID:0000000006471471



- 1. BCM
- 4. Unified meter and A/C amp.
- Key slot
- 10. Seat memory switch
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3.
- 5. A/T assembly
- 8. Tilt sensor
- 11. Door mirror remote control switch
- View with instrument driver lower panel removed
- A/T assembly (TCM is built in A/T assembly)
- Driver seat control unit
- 6. Tilt & telescopic switch
- 9. Telescopic sensor
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

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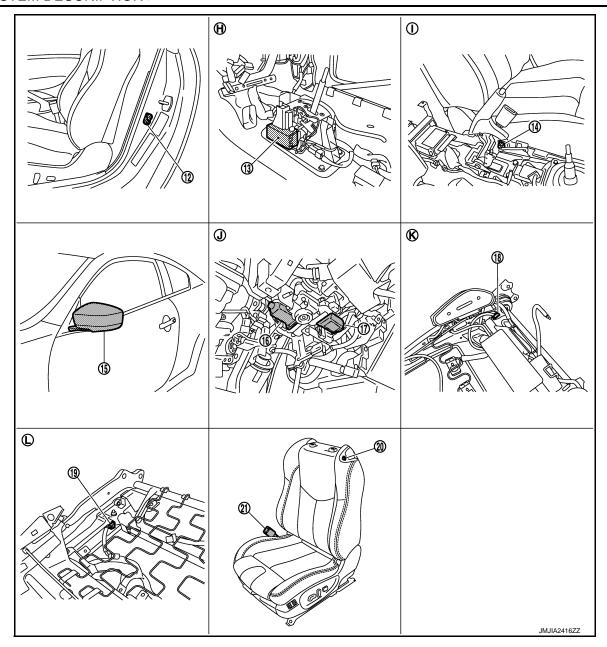
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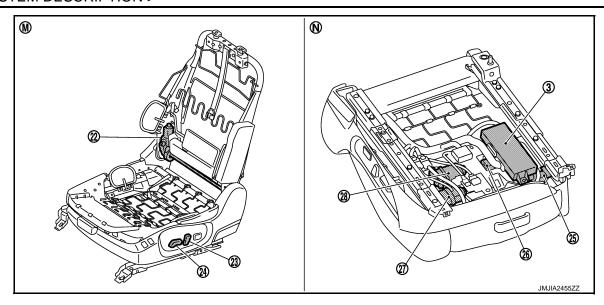
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- 12. Driver side door switch
- 15. Door mirror (driver side)
- 18. Forward switch
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.
- 13. A/T shift selector (detention switch)
- 16. Telescopic motor
- 19. Sliding limit switch
- View with center console assembly is removed.
- View with seat cushion pad is removed.
- 14. Parking brake switch
- 17. Tilt motor
- 20. Power walk-in switch
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



22. Reclining motor

- 23. Reclining switch (Power seat switch)
- 24. Sliding, lifting switch (Power seat switch)

25. Sliding sensor

- 26. Lifting motor (front)
- 27. Sliding motor

- 28. Lifting motor (rear)
- M. View with seat cushion pad and seat- N. back pad are removed.
- . Backside of seat cushion

MEMORY FUNCTION : Component Description

INFOID:0000000006471472

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

INPUT PARTS

Switches

Item	Function
Memory switch 1/2	The registration and memory function can be performed with its operation.
Forward switch	Detect folded down or folded up of the seat back.

Sensors

Item	Function
Door mirror sensor (driver side/passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.
Tilt & telescopic sensor	Detect the upward/downward and forward/backward position of steering column.
Lifting sensor (front)	Detect the upward/downward position of seat lifting (front).
Lifting sensor (rear)	Detect the upward/downward position of seat lifting (rear).
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the forward/backward position of seat.

OUTPUT PARTS

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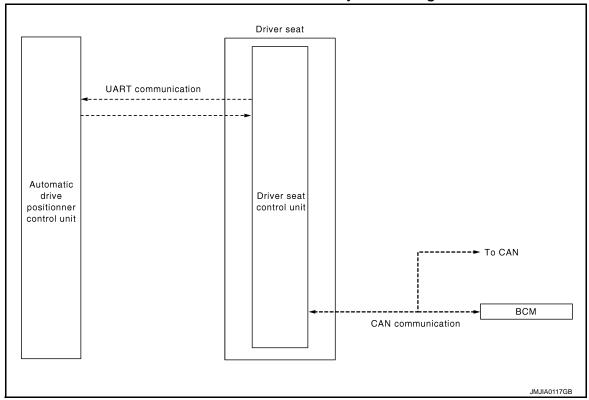
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Item	Function	
Door mirror motor (driver side/passenger side)	Move the outside mirror face upward/downward and leftward/rightward.	
Tilt & telescopic motor	Move the steering column upward/downward and forward/backward.	
Lifting motor (front)	Move the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

INTELLIGENT KEY INTERLOCK FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION: System Diagram

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INTELLIGENT KEY INTERLOCK FUNCTION: System Description

INFOID:0000000006471474

OUTLINE

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

OPERATION PROCEDURE

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

NOTE:

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

Further information for Intelligent Key interlock function. Refer to <u>ADP-10, "MEMORY STORING: Description"</u>.

OPERATION CONDITION

Satisfy all of the following items. The Intelligent Key interlock function is performed if these items are satisfied.

< SYSTEM DESCRIPTION >

Item	Request status
Key switch	OFF (Key is removed.)
Ignition position	LOCK
Seat back	Folded up
A/T selector lever (A/T models)	P position
Parking break (M/T models)	Applied
Switch inputs Power seat switch Tilt & telescopic switch Door mirror control switch Set switch Memory switch	OFF (Not operated)

DETAIL FLOW

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 memory function.

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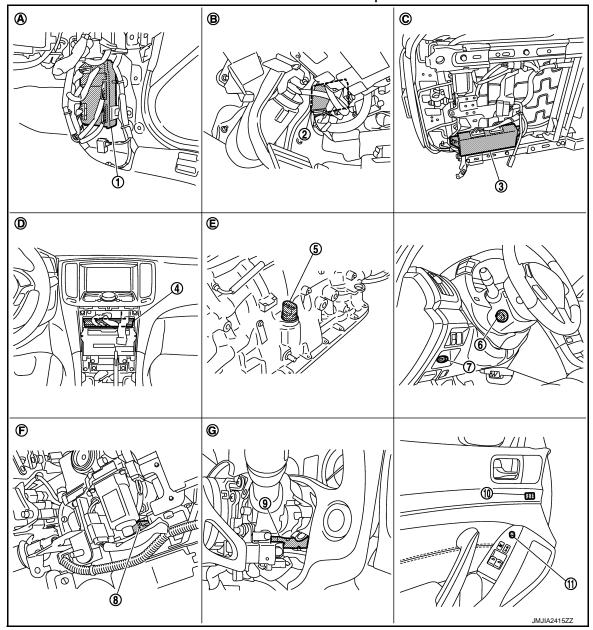
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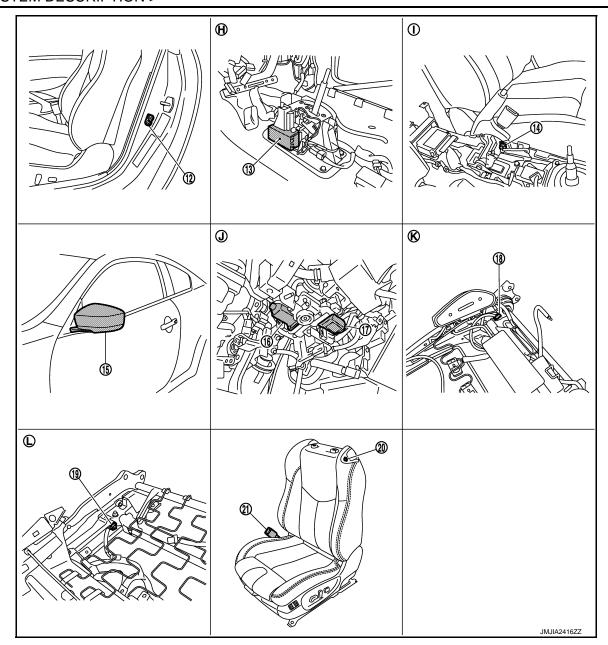
INTELLIGENT KEY INTERLOCK FUNCTION: Component Parts Location INFOID:000000006471475



- 1. BCM
- 4. Unified meter and A/C amp.
- 7. Key slot
- 10. Seat memory switch
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3.
- 5. A/T assembly
- Tilt sensor
- 11. Door mirror remote control switch
- B. View with instrument driver lower panel removed
- E. A/T assembly (TCM is built in A/T assembly)
- Driver seat control unit
- 6. Tilt & telescopic switch
- 9. Telescopic sensor
- Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

< SYSTEM DESCRIPTION >



- 12. Driver side door switch
- 15. Door mirror (driver side)
- 18. Forward switch
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- $\mbox{K.} \quad \mbox{View with seat back pad is removed.} \ \mbox{L.}$
- 13. A/T shift selector (detention switch)
- 16. Telescopic motor
- 19. Sliding limit switch
- I. View with center console assembly is removed.
 - View with seat cushion pad is removed.
- 14. Parking brake switch
- 17. Tilt motor
- 20. Power walk-in switch
- J. View with instrument driver lower panel is removed.

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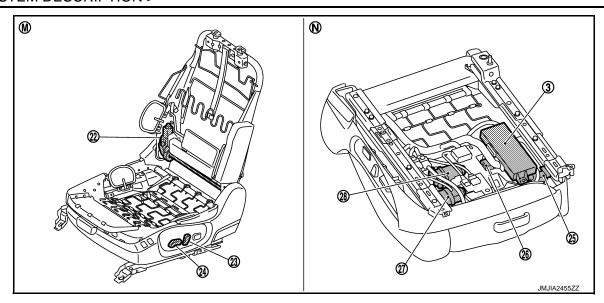
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< SYSTEM DESCRIPTION >



22. Reclining motor

- 23. Reclining switch (Power seat switch)
- 26. Lifting motor (front)
- 24. Sliding, lifting switch (Power seat switch)
- 27. Sliding motor

- 25. Sliding sensor
- 28. Lifting motor (rear)
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

INTELLIGENT KEY INTERLOCK FUNCTION: Component Description

INFOID:0000000006471476

CONTROL UNITS

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

POWER WALK-IN FUNCTION

Driver seat

Driver seat control unit

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION: System Diagram

Power walk-in switch

Forward switch

Sliding limit switch

Seat belt buckle switch

Unified meter and A/C amp

BCM

To CAN

INFOID:0000000006471477 Sliding motor Sliding sensor

POWER WALK-IN FUNCTION: System Description

OUTLINE

Slide the driver seat automatically with the power walk-in switch operation so as to easily facilitate the entry to the rear seat.

CAN communication

Forward Operation

Slide (forward) the driver seat to the front end position (sliding limit switch: ON) by operating the power walk-in switch when the seatback is folded down.

The forward operation is stopped by folding the seatback (forward switch: OFF) during the forward operation.

Backward Operation

The seat back is folded up after performing the forward operation of power walk-in function. Slide (backward) it to the position before performing the forward operation by operating the power walk-in switch.

If the manual operation, memory operation, and Intelligent Key interlock operation are performed after performing the forward operation, do not perform the backward operation.

OPERATION PROCEDURE

Forward Operation

- Open driver door.
- 2. Pull the walk-in lever on the upper part of seatback, and then the seatback is folded down.
- Press the power walk-in switch.
- 4. Slide the seat to the front end position.

Backward Operation

- Open driver door.
- 2. Fold up the seatback after performing the forward operation.
- Press the power walk-in switch.
- Slide the seat to the previous position before the forward operation was performed.

OPERATION CONDITION

Revision: 2011 December

Perform the power walk-in function when the following conditions are satisfied.

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2011 G Convertible

< SYSTEM DESCRIPTION >

Forward Operation

Item	Request status	
Driver side door	Open	
Driver side seat belt	Not fastened	
Power seat switch (sliding)	Not operated	
Vehicle speed	0 km/h	
Seat position (sliding)	Other than front end	
Seat back	Folded down	

Backward Operation

Item	Request status	
Initialize	Done	
Driver side seat belt	Not fastened	
Switch inputs Power seat switch (sliding) Set switch Memory switch	Not operated	
Vehicle speed	0 km/h	
Seat position (sliding)	The seat sliding position will not move after performing the forward operation.	
Seat back	Folded up	

DETAIL FLOW

Forward Operation

Order	Inputs	Outputs	Control unit condition
1	Forward switch	_	Driver seat control unit detects that the seatback is folded down by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is inputted to the driver seat control unit when the power walk-in switch is operated.
3	_	Sliding motor (forward)	Driver seat control unit operates the seat sliding motor forward when it detects that the power walkin switch is operated.
4	Sliding limit switch	_	Driver seat control unit stops the seat sliding motor when it detects that the seat sliding reaches the front end position by the sliding limit switch.

Backward Operation

Order	Inputs	Outputs	Control unit condition
1	Forward switch	_	Driver seat control unit detects that the seatback is folded up by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is inputted to the driver seat control unit when the power walk-in switch is operated.
3	_	Sliding motor (backward)	Driver seat control unit operates the sliding motor backward when it detects that the power walk-in switch is operated.
4	Sliding sensor	_	Driver seat control unit stops the seat sliding motor when the seat sliding position reaches the position before performing the forward operation by the signal from sliding sensor.

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location

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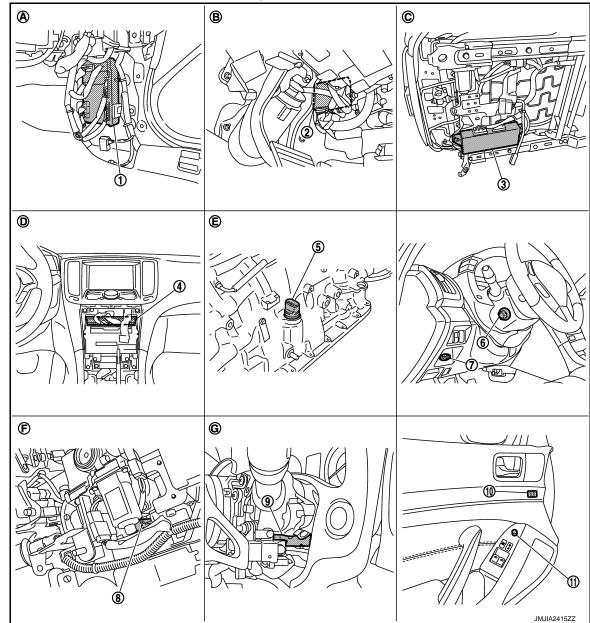
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- 1. BCM
- 4. Unified meter and A/C amp.
- 7. Key slot
- 10. Seat memory switch
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3.
- 5. A/T assembly
- 8. Tilt sensor
- 11. Door mirror remote control switch
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit
- 6. Tilt & telescopic switch
- 9. Telescopic sensor
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

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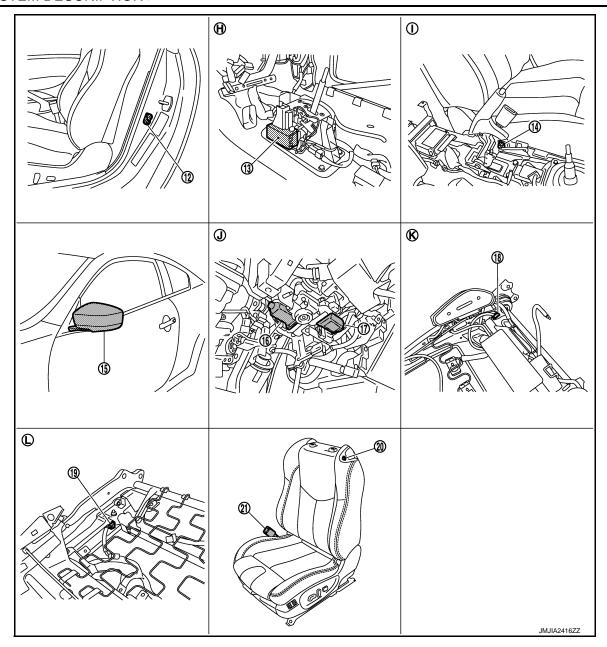
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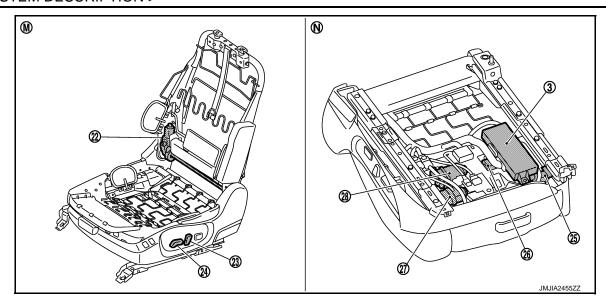
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- 12. Driver side door switch
- 15. Door mirror (driver side)
- 18. Forward switch
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.
- 13. A/T shift selector (detention switch)
- 16. Telescopic motor
- 19. Sliding limit switch
- View with center console assembly is removed.
- View with seat cushion pad is removed.
- 14. Parking brake switch
- 17. Tilt motor
- 20. Power walk-in switch
- J. View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



22. Reclining motor

- 23. Reclining switch (Power seat switch)
- 24. Sliding, lifting switch (Power seat switch)

25. Sliding sensor

- 26. Lifting motor (front)
- 27. Sliding motor

- 28. Lifting motor (rear)
- M. View with seat cushion pad and seat- N. back pad are removed.
- Backside of seat cushion

POWER WALK-IN FUNCTION: Component Description

INFOID:0000000006471480

CONTROL UNITS

Item	Function		
Driver seat control unit	 Main units of automatic drive positioner system It is connected to the CAN. It communicates with the automatic drive positioner control unit via UART communication. 		
ВСМ	Transmit the following status to the driver seat control unit via CAN communication. • Driver door: OPEN/CLOSE • Starter: CRANKING/OTHER		
Unified meter and A/C amp.	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.		

INPUT PARTS

Switches

Item	Function
Front door switch (driver side)	Detect front door (driver side) open/close status.
Power walk-in switch	Perform the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detect the front end position of seat sliding during the power walk-in function front-ward operation.
Seat belt buckle switch	Detect the seat belt fastening/releasing condition.
Forward switch	Detect the folded up/folded down condition of seatback that is the operation condition of power walk-in function.

Sensors

Item	Function
Sliding sensor	Detect the forward/backward position of seat.

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< SYSTEM DESCRIPTION >

OUTPUT PARTS

Item	Function
Sliding motor	Slide the seat forward/backward.

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:0000000006471481

The automatic drive positioner system can be checked and diagnosed for component operation using CON-SULT-III.

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Diagnostic mode	Description
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drives each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit.

CONSULT-III Function

INFOID:0000000006471482

SELF DIAGNOSTIC RESULTS

Refer to ADP-165, "DTC Index".

DATA MONITOR

MIR CHNG SW-L

"ON/OFF"

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (upward) signal.
LIFT FR SW-DN*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (downward) signal.
LIFT RR SW-UP*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.
LIFT RR SW-DN*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (downward) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (upward) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (downward) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW-I	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch

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(switching to left) signal.

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

		Main	Selection	
Monitor Item	Unit	Signals	From Menu	Contents
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (upward) signal.
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (downward) signal.
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (forward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.
FORWARD SW*3	"ON/OFF"	×	×	ON/OFF status judged from the forward switch signal.
WALK-IN SW*3	"ON/OFF"	×	×	ON/OFF status judged from the power walk-in switch signal.
FWD LIMIT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding limit switch signal.
SEAT BELT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the seat belt buckle switch signal.
DETENT SW*1	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than the P position)" judged from the detention switch signal.
PARK BRAKE SW ^{*2}	"ON/OFF"	×	×	The parking brake condition "ON (applied) / OFF (release)" judged from the parking brake switch signal.
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
SLIDE PULSE*3	-	-	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULS*4	-	-	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE*4	-	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE*4	-	_	×	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) upward/downward is displayed.
MIR/SEN RH R-L	" V "	_	×	Voltage input from door mirror sensor (passenger side) leftward/rightward is displayed.
MIR/SEN LH U-D	" V "	_	×	Voltage input from door mirror sensor (driver side) upward/downward is displayed.
MIR/SEN LH R-L	" V "	_	×	Voltage input from door mirror sensor (driver side) leftward/rightward is displayed.
TILT SEN	"V"	_	×	Voltage input from tilt sensor upward/downward is displayed.
TELESCO SEN	" V "	_	×	Voltage input from telescopic sensor forward/backward is displayed.

^{*1:} M/T models display all item except this item.

ACTIVE TEST

CAUTION:

When driving vehicle, never perform active test.

Test item	Description	
SEAT SLIDE	Activates/deactivates the sliding motor.	
SEAT RECLINING	Activates/deactivates the reclining motor.	

^{*2:} A/T models display all item except this item.

^{*3:} Only this item is displayed for driver seat without automatic drive positioner system.

^{*4:} It is displayed but is not operated for models with driver seat without automatic driver positioner system.

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

Test item	Description	
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).	
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).	
TILT MOTOR*	Activates/deactivates the tilt motor.	
TELESCO MOTOR*	Activates/deactivates the telescopic motor.	
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.	

^{*:} Does not display without automatic driver position system.

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000006471483

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

DTC Logic

DTC DETECTION LOGIC

DTC No.	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

- 1. Turn ignition switch ON and wait for 3 seconds or more.
- 2. Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-48, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006471485

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

Special Repair Requirement

INFOID:0000000006471486

Refer to ADP-10, "SYSTEM INITIALIZATION: Description".

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:000000006471487

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

First perform diagnosis for B2126 if B2126 is detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	Е
B2112	SEAT SLIDE	The driver seat control unit detects the output of sliding motor output terminal for 0.1 second or more even if the sliding switch is not input.	Driver seat control unit Slide motor harness is power shorted	F

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-49</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006471489

1. CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

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

(+)			Voltage (V) (Approx.)	
Sliding motor		(–)		L
Connector	Terminals		(11 . 5)	
B525	35	Ground	0	M
B323	42			IVI

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. 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.

<u></u>	(+) Driver seat control unit		Voltage (V) (Approx.)	
Connector	Terminals		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B525	35	- Ground	0	
B525	42			

Is the inspection result normal?

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-236</u>, "Removal and Installation"

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description INFOID:000000006471490

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

First perform diagnosis for B2126 if B2126 is detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2113	SEAT RECLINING	The driver seat control unit detects the output of re- clining motor output terminal for 0.1 second or more even if the reclining switch is not input.	Driver seat control unit Reclining motor harness is power shorted

DTC CONFIRMATION PROCEDURE

1. PEFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-51, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

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1. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+) Reclining motor		(-)	Voltage (V) (Approx.)
Connector	Terminals		(11.5)
B523	36	Ground	0
B523	44	- Ground	U

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)			Voltage (V)	
Driver seat	Driver seat control unit		Voltage (V) (Approx.)	
Connector	Terminals			
B523	36	- Ground	0	
D023	44			

Is the inspection result normal?

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

B2118 TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B2118 TILT SENSOR

Description INFOID:000000006471493

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

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2118	TILT SENSOR	The input voltage of tilt sensor is less then 0.1V or more than 4.9V.	Harness and connectors (Tilt sensor circuit is opened/ shorted, tilt sensor power supply circuit is opened/shorted.) Tilt sensor

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-53</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TILT SENSOR SIGNAL

- Turn ignition switch ON.
- Select "TILT SEN" in the "Data monitor" mode using CONSULT-III.
- 3. Check tilt sensor signal under the following condition.

Monitor item	Condition	Value
TILT SEN	Tilt position	Change between 1.1 V (close to top) 3.9 V (close to bottom)

Is the value normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK TILT SENSOR CIRCUIT

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

Automatic drive po	ositioner control unit	Tilt & teleso	copic sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	7	M48	3	Existed

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

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B2118 TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	7		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TILT SENSOR POWER SUPPLY

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

(+)			V I 00
Tilt & telescopic sensor		(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 -)
M48	1	Ground	5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TILT SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive po	sitioner control unit	Tilt & teleso	copic sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	33		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TILT SENSOR GROUND CIRCUIT

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

Automatic drive positioner control unit		Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	41	M48	4	Existed

Is the inspection result normal?

YES >> Replace tilt & telescopic sensor.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

B2118 TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

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B2119 TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B2119 TELESCOPIC SENSOR

Description INFOID:000000006471496

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

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2119	TELESCOPIC SEN- SOR	The input voltage of telescopic sensor is less than 0.1V or more than 4.9V.	Harness and connectors (Telescopic sensor circuit is opened/shorted, telescopic sensor power supply circuit is opened/shorted.) Telescopic sensor

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC is detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-56, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure 1.CHECK TELESCOPIC SENSOR SIGNAL

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- 1. Turn ignition switch ON.
- 2. Select "TELESCO SEN" in the "Data monitor" mode using CONSULT-III.
- Check the tilt sensor signal under the following condition.

Monitor item	Condition	Value
TELESCO SEN	Telescopic position	Change between 0.5 V (close to top) 4.5 V (close to bottom)

Is the valve normal?

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

2.CHECK TELESCOPIC SENSOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit and tilt & telescopic sensor connector.
- Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic sensor harness connector.

Automatic drive positioner control unit		Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	23	M48	2	Existed

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

B2119 TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	23		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TELESCOPIC SENSOR POWER SUPPLY

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

(+) Tilt & telescopic sensor		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
M48	1	Ground	5	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TELESCOPIC SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	33		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TELESCOPIC SENSOR GROUND CIRCUIT

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
M52	41	M48	4	Existed

Is the inspection result normal?

YES >> Replace tilt & telescopic sensor.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

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B2119 TELESCOPIC SENSOR

>> INSPECTION END

B2126 DETENT SW

Description INFOID:0000000006471499

Detention switch is installed on A/T shift selector. It is turned OFF when the A/T selector lever is in P posi-

 The driver seat control unit judges that the A/T selector lever is in P position if continuity does not exist in this circuit.

DTC Logic INFOID:0000000006471500

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	
B2126	DETENT SW	Selector lever is in P position and the vehicle speed of 7 \pm 4 km/h is detected.	Harness and connectors (Detention switch circuit is opened/shorted.) Detention switch Unified meter and A/C amp. (CAN communication)	

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Drive the vehicle at 7 ±4 km/h or more.
- Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-59, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

CHECK DTC WITH "BCM"

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

Is the either DTC B2601, B2602, B2603, B2604 or B2605 detected?

>> Check the DTC. Refer to BCS-75, "DTC Index". YES

NO >> GO TO 2.

2.CHECK DTC WITH "METER/M&A"

Check "Self diagnostic result" for METER/M&A using CONSULT-III.

Is the DTC detected?

YES >> Check the DTC. Refer to MWI-103, "DTC Index".

NO >> GO TO 3.

3.CHECK DETENTION SWITCH SIGNAL

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

Monitor item	Condition		Status
DETENT SW	selector lever	P position	OFF
	Selector level	Other than above	ON

Is the status normal?

YES >> GO TO 5.

>> GO TO 4. NO

4. CHECK DETENTION SWITCH CIRCUIT

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B2126 DETENT SW

< DTC/CIRCUIT DIAGNOSIS >

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

Driver seat	control unit	A/T shift selector		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	21	M137	11	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	21		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

B2127 PARKING BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2127 PARKING BRAKE SWITCH

Description INFOID:0000000006471502

- Parking brake switch is installed on parking brake lever. It is turned ON when the parking brake is applied.
- The driver seat control unit judges that the parking brake is engaged if continuity exists in this circuit.

DTC Logic INFOID:0000000006471503

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2127	PARKING BRAKE	Parking brake is engaged and the vehicle speed of 7 km/h (4MPH) or more is detected.	Harness and connectors (Parking brake switch circuit is opened/shorted.) Parking brake switch Combination meter (CAN communication) Driver seat control unit

DTC CONFIRMATION PROCEDURE

1.STEP 1

- Drive the vehicle at 7 km/h (4 MPH) or more.
- Check "Self Diagnostic Result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-61</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK PARKING BRAKE SWITCH SIGNAL

- Turn ignition switch ON.
- Select "PARK BRAKE SW" in the "Data Monitor" mode using CONSULT-III.
- Check parking brake switch signal under the following condition.

Monitor item	Condition		Status
PARK BRAKE SW	Parking brake	Applied	ON
	raiking blake	Release	OFF

Is the status normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect parking brake switch harness connector.
- 3. Turn ignition switch ON.
- Check voltage between parking brake switch harness connector and ground.

(+) Parking brake switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
B14	1	Ground	Battery voltage

Is the inspection result normal?

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

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B2127 PARKING BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK PARKING BRAKE SWITCH HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and parking brake switch connector.
- Check continuity between driver seat control unit harness connector and parking brake switch harness connector.

Driver seat	control unit	Parking brake switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	8	B14	1	Existed	

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	8		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK PARKING BRAKE SWITCH

Refer to ADP-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Adjust or replace parking brake switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471505

1. CHECK PARKING BRAKE SWITCH

- 1. Turn ignition switch OFF.
- Disconnect parking brake switch connector.
- 3. Check continuity between parking brake switch terminal and ground part of parking brake switch.

Terminal		Condition		Continuity
Parking brake switch				
1	Ground part of parking brake switch	Parking brake	Applied	Existed
		I diking blake	Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Adjust or replace parking brake switch.

B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description INFOID:0000000006471506

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

DTC Logic INFOID:0000000006471507

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2128	UART COMM	The communication between driver seat control unit and auto drive positioner control unit is interrupted for a period of time.	UART communication line (UART communication line is open or shorted) Driver seat control unit Automatic drive positioner control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate tilt & telescopic switch for more than 2 seconds. 2.
- Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-63, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK UART COMMUNICATION LINE CONTINUITY

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

Driver seat control unit Auton		Automatic drive po	sitioner control unit	Continuity
Connector	Terminal	Connector Terminal		
B503	1	M51	10	Existed
D 000	17	IVIST	26	LAISIEU

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

Driver seat control unit			Continuity	
Connector	Terminal	Ground	Continuity	
B503	1	Giodila	Not existed	
5503	17		INOL EXISTED	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> Repair or replace harness. ADP

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INFOID:0000000006471508

ADP-63

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000006471509

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
Battery power supply	K (40A)	
	10 (10A)	

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

(+) BCM		(-)	Voltage (Approx.)	
Connector	Terminal		(/ .pp. 0/)	
M118	1	Ground	Rattory voltage	
M119	11	Ground	Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Connector Terminal		Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000006471510

NOTE:

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

1. CHECK POWER SUPPLY CIRCUIT

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(· · · · ·)	
B504	33	Cround	Pottonyvoltogo	
D3U4	40	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

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

2.CHECK GROUND CIRCUIT

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	32	- Ground	Existed
B504	48		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT: Special Repair Requirement

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to ADP-64, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure".

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure

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

1. CHECK POWER SUPPLY CIRCUIT

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

(+)		(-)	Voltage (V) (Approx.)	
Automatic drive positioner control unit				
Connector	Terminal		(11 - /	
M52	34	- Ground	Pattory voltage	
IVIOZ	39		Battery voltage	

Is the inspection result normal?

>> GO TO 2.

NO - 1 >> Repair or replace harness between automatic drive positioner control unit and fuse block (J/B).

NO - 2 >> Check circuit breaker.

2.CHECK GROUND CIRCUIT

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	40		Existed
IVIOZ	48		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Special Repair Requirement

INFOID:0000000006471513

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to <u>ADP-9</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : <u>Description</u>".

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

Description INFOID:0000000006471514

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

Component Function Check

INFOID:0000000006471515

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1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000006471516

1. CHECK SLIDING SWITCH SIGNAL

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

	+) eat switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(· .pp. 5/)	
DE10	11	Cround	Potton voltogo	
B510	26	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT

Disconnect driver seat control unit connector.

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

Driver seaf	t control unit	Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	11	B510	11	Existed
B303	26	B310	26	Existed

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

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SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	11	Ground	Not existed
D303	26	-	Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH

Refer to ADP-68, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471517

1. CHECK SLIDING SWITCH

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

Power seat switch		Condition		Continuity
Terminal				
	11	Sliding switch (backward)	Operate	Existed
32	11	Silding Switch (backward)	Release	Not existed
32	26	Cliding quitab (famuard)	Operate	Existed
	20	Sliding switch (forward)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SWITCH

Description INFOID:000000006471518

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

Component Function Check

INFOID:0000000006471519

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1. CHECK FUNCTION

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

Monitor item	Condition		Status
RECLINE SW-FR	Paclining awitch (forward)	Operate	ON
RECLINE SW-FR	Reclining switch (forward)	Release	OFF
RECLINE SW-RR	Poolining switch (hookward)	Operate	ON
RECLINE SW-RR	Reclining switch (backward)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000006471520

1. CHECK RECLINING SWITCH SIGNAL

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

(+) Power seat switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(* 455. 674.)	
DE40	12	Cround	Pottory voltogo	
B510	27	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check reclining switch circuit

Disconnect driver seat control unit connector.

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

Driver sea	control unit	Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	12	B510	12	Existed
B303	27	6510	27	Existed

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

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RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver se	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	12	Ground	Not existed
D303	27	-	INUL EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK RECLINING SWITCH

Refer to ADP-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471521

1. CHECK RECLINING SWITCH

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

Power seat switch Terminal		Condition		Continuity
				,
	12	Reclining switch (backward)	Operate	Existed
32	12	recilling switch (backward)	Release	Not existed
32		Reclining switch (forward)	Operate	Existed
	21	Recilling Switch (lonward)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description INFOID:0000000006471522

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

Component Function Check

INFOID:0000000006471523

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1. CHECK FUNCTION

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

Monitor item	Condition		Status
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
LIFT FR SW-UP	Litting Switch from (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
EII TTR SW-DIN	Litting Switch from (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-71, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471524

1. CHECK LIFTING SWITCH SIGNAL

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

	+) eat switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(44.5)	
DE40	13	Cround	Pottony voltogo	
B510	28	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO

>> GO TO 2. 2.check lifting switch (front) circuit

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

Driver sea	t control unit	Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	13	B510	13	Existed
B303	28	6510	28	Existed

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

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LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	13		Not existed
	28		ivot existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (FRONT)

Refer to ADP-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471525

1. CHECK LIFTING SWITCH (FRONT)

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

Power seat switch		Condition		Continuity
Terminal				
32	13	Lifting switch front (down)	Operate	Existed
			Release	Not existed
	28	Lifting switch front (up)	Operate	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description INFOID:0000000006471526

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

Component Function Check

INFOID:0000000006471527

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1. CHECK FUNCTION

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

Monitor item	Condition	Status	
LIFT RR SW-UP	Lifting quitch root (up)	Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
LIFT KK SW-DIN	Litting Switch real (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000006471528

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

	+) eat switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(лергох.)	
B510	14	Ground	Pottory voltage	
B310	29	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

M 2.CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seaf	control unit	Power sear switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	14	B510	14	Existed
B303	29	6510	29	Existed

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

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LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver se	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	14	Giodila	Not existed
D303	29		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Refer to ADP-74, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>ADP-239</u>. "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471529

1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch		Condition		Continuity
Terminal				Continuity
	14	Lifting switch rear (down)	Operate	Existed
32	14	Litting Switch real (down)	Release	Not existed
32	29	Lifting switch roor (up)	Operate	Existed
	29	Lifting switch rear (up)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-239, "Removal and Installation".

FORWARD SWITCH

Description INFOID:0000000006471530

Forward switch is installed on the seat back frame. Forward switch detects condition of seat back.

Component Function Check

1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- Select "FORWARD SW" in the "Data Monitor" mode using CONSULT-III.
- Check the forward switch signal under the following condition.

Test item	Condition		Status
FORWARD SW	Driver side seat back	Folded up	ON
FORWARD SW		Folded down	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-75, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK FORWARD SWITCH SIGNAL

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

·	+) d switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,	
B512	41	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FORWARD SWITCH CIRCUIT

- Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit harness connector and forward switch harness connector.

Driver seat	control unit	Forward switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B504	41	B512	41	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B504	41		Not existed

Is the inspection result normal?

>> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation"

NO >> Repair or replace harness.

3.FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

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FORWARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Forward switch			Continuity
Connector	Terminal	Ground	Continuity
B512	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FORWARD SWITCH

Refer to ADP-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-233. "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471533

1. CHECK FORWARD SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect forward switch connector.
- 3. Check continuity between forward switch terminals.

Forward switch		Condition		Continuity	
Connector	Terr	minal	Condition		Continuity
B512	41	22	Driver side seat	Folded up	Not existed
D312	41 32 bac	32 back	back	Folded down	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-233, "Exploded View"</u>.

SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH

Description INFOID:000000006471534

Seat belt buckle switch is installed in seat belt buckle. Seat belt buckle switch detects condition of seat belt.

Component Function Check

1.CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT-III.
- 3. Check the seat belt buckle switch signal under the following condition.

Test item	Condition		Status
SEAT BELT SW	Driver side seat belt	Fastened	ON
	Driver side seat beit	Released OF	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-77, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEAT BELT BUCKLE SWITCH SIGNAL

- Turn ignition switch OFF.
- Disconnect seat belt buckle switch harness connector.
- 3. Check voltage between seat belt buckle switch harness connector harness connector and ground.

(+) Seat belt buckle switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
B13	1	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Disconnect driver seat control unit connector.

Check continuity between driver seat control unit harness connector and seat belt buckle switch harness connector.

Driver seat	Driver seat control unit		Seat belt buckle switch	
Connector	Terminal	Connector Terminal		Continuity
B503	5	B13	1	Existed

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

Driver seat control unit			Continuity
Connector	Connector Terminal		Continuity
B503	5		Not existed

Is the inspection result normal?

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YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch harness connector and ground.

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SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Seat belt buckle switch			Continuity
Connector	Connector Terminal		Continuity
B13	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEAT BELT BUCKLE SWITCH

Refer to ADP-78, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (Built in seat belt buckle). Refer to <u>SE-233, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471537

1. CHECK SEAT BELT BUCKLE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect seat belt buckle switch connector.
- 3. Check continuity between seat belt buckle switch terminals.

	Seat belt buckle switch		Condition		Continuity
Connector	Terr	minal		lullon	Continuity
B13	1	2	Driver side seat	Fastened	Not existed
ыз		2	belt	Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (Built in seat belt buckle). Refer to <u>SE-233, "Exploded View"</u>.

SLIDING LIMIT SWITCH

Description INFOID:0000000006471538

Sliding limit switch is installed on seat cushion frame. Sliding limit switch detects condition of seat sliding.

Component Function Check

1. CHECK FUNCTION

- Select "FWD LIMIT SW" in the "Data Monitor" mode using CONSULT-III.
- Check the sliding limit switch signal under the following condition.

Test item	Condi	Status	
FWD LIMIT SW	Seat sliding	Front edge	ON
I WD LIWIT GW	Seat sliding	Other than above	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-79, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK SLIDING LIMIT SWITCH SIGNAL

- Turn ignition switch OFF.
- Disconnect sliding limit switch harness connector. 2.
- Check voltage between sliding limit switch harness connector and ground.

(+)			_\\\	
Sliding limit switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 -)	
B514	4	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING LIMIT SWITCH CIRCUIT

Disconnect driver seat control unit connector.

Check continuity between driver seat control unit harness connector and sliding limit switch harness connector.

Driver seat control unit		Sliding limit switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	4	B514	4	Existed

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

Driver seat control unit			Continuity
Connector	Connector Terminal		Continuity
B503	4		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation"

NO >> Repair or replace harness.

3.check sliding limit switch ground circuit

Check continuity between sliding limit switch harness connector and ground.

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SLIDING LIMIT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding limit switch			Continuity
Connector	Connector Terminal		Continuity
B514	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

f 4.CHECK SLIDING LIMIT SWITCH

Refer to ADP-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-233, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471541

1. CHECK SLIDING LIMIT SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding limit switch connector.
- 3. Check continuity between sliding limit switch terminals.

Sliding limit switch		Condition		Continuity	
Connector	Terr	minal	001	idition	Continuity
B514	4	32 Seat sliding	Front edge	Existed	
ьэ 14 	4	32	Seat sliding	Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-233, "Exploded View"</u>.

POWER WALK-IN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

POWER WALK-IN SWITCH

Description INFOID:0000000006471542

Power walk-in switch is installed on seat back. The operation signal is input to driver seat control unit when power walk-in switch is operated.

Component Function Check

1. CHECK FUNCTION

- Turn ignition switch ON.
- 2. Select "WALK-IN SW" in the "Data Monitor" mode using CONSULT-III.
- Check the power walk-in switch signal under the following condition.

Test item	Condi	Status	
WALK-IN SW	Power walk-in switch	Pressed	ON
WALK-IN SW	Fower waik-in Switch	Released	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK POWER WALK-IN SWITCH SIGNAL

Turn ignition switch OFF.

- Disconnect power walk-in switch harness connector.
- Check voltage between power walk-in switch harness connector and ground.

(+) Power walk-in switch		(-)	Voltage (V) (Approx.)
Connector	Connector Terminal		(11 - 7
B513	30	Ground	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER WALK-IN SWITCH CIRCUIT

- Disconnect driver seat control unit connector and power walk-in switch connector.
- Check continuity between driver seat control unit harness connector and power walk-in switch harness connector.

Driver sea	t control unit	Power walk-in switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	30	B513	30	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	30		Not existed

Is the inspection result normal?

>> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation". YES

NO >> Repair or replace harness.

3.check power walk-in switch ground circuit

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POWER WALK-IN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between power walk-in switch harness connector and ground.

Power walk-in switch			Continuity
Connector	Terminal	Ground	Continuity
B513	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK POWER WALK-IN SWITCH

Refer to ADP-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch (Built in walk-in lever). Refer to <u>SE-233, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471545

1. CHECK POWER WALK-IN SWITCH

- 1. Turn ignition switch OFF.
- Disconnect power walk-in switch connector.
- 3. Check continuity between power walk-in switch terminals.

Power walk-in switch		Condition		Continuity	
Connector	Terr	minal	Condition		Continuity
B513	30	32	Power walk-in	Pressed	Existed
D313	30	32	switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch (Built in walk-in lever). Refer to <u>SE-233, "Exploded View"</u>.

TILT SWITCH

Description INFOID:000000006471546

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

INFOID:0000000006471547

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1. CHECK FUNCTION

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

Monitor item	Condition	Status	
TILT SW-UP	Tilt switch (up)	Operate	ON
TILI 3W-OF	The Switch (up)	Release	OFF
TILT SW-DN	Tilt switch (down)	Operate	ON
TILI 3W-DN	Till Switch (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000006471548

1. CHECK TILT SWITCH SIGNAL

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

(+) Tilt & telescopic switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 -)	
M31	4	Ground	Pottory voltage	
IVIST	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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2.check tilt switch circuit

1. Disconnect automatic drive positioner control unit connector.

2. Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic switch harness connector.

Automatic drive po	sitioner control unit	Tilt & telescopic switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	1	M31	4	Existed
I CIVI	17	I CIVI	5	LAISIEU

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

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TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M51	1	Ground	Not existed
IVIO	17		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK TILT SWITCH

Refer to ADP-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to ADP-241, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471549

1. CHECK TILT SWITCH

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

Tilt & telescopic switch		Condition		Continuity
Terr	ninal	001	idition	Continuity
	4 Tilt switch (up)		Operate	Existed
1	4	Tilt switch (up)	Release	Not existed
,		Tilt switch (down)	Operate	Existed
	5		Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to ADP-241, "Removal and Installation".

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SWITCH

Description INFOID:0000000006471550

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:0000000006471551

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1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000006471552

1. CHECK TELESCOPIC SWITCH SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect tilt & telescopic switch connector.
- Check voltage between tilt & telescopic switch harness connector and ground.

(+) Tilt & telescopic switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 -)	
M31	M24 Cround		Pottory voltogo	
IVI3 T	3	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

M 2.CHECK TELESCOPIC SWITCH CIRCUIT

- Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic switch harness connector.

Automatic drive p	ositioner control unit	Tilt & telescopic switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	11	M31	2	Existed
I CIVI	27	I CIVI	3	LAISIEU

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

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TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive	positioner control unit	Continuity	
Connector	Terminal	Ground	Continuity
M51	11	Ground	Not existed
I CIVI	27		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK TELESCOPIC SWITCH

Refer to ADP-86, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to ADP-241, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471553

1. CHECK TELESCOPIC SWITCH

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

Tilt & telescopic switch Terminal		Condition		Continuity
1	4	Release	Not existed	
ı	3	Telescopic switch (backward)	Operate	Existed
	3		Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to ADP-241, "Removal and Installation".

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY SWITCH

Description INFOID:0000000006471554

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

Component Function Check

1. CHECK FUNCTION

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

Monitor item	Cond	Condition	
SET SW	SET SW	Press	ON
	SETSW	Release	OFF
MEMORY CW 4	Momony quitab 1	Press	ON
MEMORY SW 1	Memory switch 1	Release	OFF
MEMORY SW 2	Momony quitab 2	Press	ON
MEMORY SW 2	Memory switch 2	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK SEAT MEMORY SWITCH SIGNAL

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

Seat men	(+) Seat memory switch		Voltage (V) (Approx.)
Connector	Terminal		(/ ,pp. 5/)
	1		
D5	2	Ground	5
	3		

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

2.check memory switch circuit

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

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SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Seat memory switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	24		3	
M51	9	D5	1	Existed
	25		2	

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

Automatic drive po	ositioner control unit	Continuity	
Connector	Terminal		Continuity
	24	Ground	
M51	9		Not existed
	25		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK MEMORY SWITCH GROUND CIRCUIT

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

Seat men	nory switch	Continuity	
Connector	Terminal	Ground	Continuity
D5	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SEAT MEMORY SWITCH

Refer to ADP-88, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat memory switch. Refer to ADP-238, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006471557

1. CHECK SEAT MEMORY SWITCH

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

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Seat memory switch		Condition		Continuity
Terr	Terminal		Condition	
	3 Set switch	Press	Existed	
		Set Switch	Release	Not existed
4		Memory switch 1	Press	Existed
4	l l		Release	Not existed
	2	Memory switch 2	Press	Existed
2	2		Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch.Refer to <u>ADP-238, "Removal and Installation"</u>.

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DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000006471558

It operates angle of the door mirror face.

It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.

MIRROR SWITCH: Component Function Check

INFOID:0000000006471559

1. CHECK MIRROR SWITCH FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "MIR CON SW-UP/DN", "MIR CON SW-RH/LH" in the "DATA MONITOR" mode using CON-SULT-III.
- 3. Check mirror switch signal under the following conditions.

Monitor item	Condition	Status
MIR CON SW-UP/DN	When operating the mirror switch up or down side.	ON
WIR CON SW-OF/DIN	Other than above.	OFF
MIR CON SW-RH/LH	When operating the mirror switch right or left side.	ON
WIR CON SW-RH/LH	Other than above.	OFF

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Perform diagnosis procedure.Refer to ADP-90, "MIRROR SWITCH: Diagnosis Procedure".

MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000006471560

${f 1}$.CHECK MIRROR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

Door mirror rer	(+) note control switch	switch (–)	
Connector	Terminal		Voltage (V) (Approx.)
	4	- Ground	5
D17	12		
DII	13		
	15		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

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

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit Door mirror remote control switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
	3	D17	15	Evipted
NAS 1	4		13	
M51	19		12	Existed
	20		4	

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

Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
M51	3	Ground	
	4		Not existed
	19		NOT EXISTED
	20		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

3.check door mirror remote control switch ground circuit

- Turn ignition switch OFF.
- Check continuity between door mirror remote control switch harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK MIRROR SWITCH

Check door mirror remote control switch (mirror switch).

Refer to ADP-91, "MIRROR SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (mirror switch). Refer to MIR-24, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

1. CHECK MIRROR SWITCH

- Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- Check continuity between door mirror remote control switch terminals.

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< DTC/CIRCUIT DIAGNOSIS >

Door mirror remote control switch		Condition		Continuity		
Connector	Terr	minal	Condition		Continuity	
	4			RIGHT	Existed	
	4		7 Mirror quitab	Other than above	Not existed	
	12			LEFT	Existed	
D17	13	7		Other than above	Not existed	
ווט	15	Mirror switch		WIITOI SWILCTI	UP	Existed
	15		Other than above	Not existed		
	10			DOWN	Existed	
	12			Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-24, "Removal and Installation".

CHANGEOVER SWITCH

CHANGEOVER SWITCH: Description

INFOID:0000000006471562

Changeover switch is integrated into door mirror remote control switch.

Changeover switch has three positions (L, N and R).

It changes operating door mirror motor by transmitting control signal to automatic drive positioner control unit.

CHANGEOVER SWITCH: Component Function Check

INFOID:0000000006471563

1. CHECK CHANGEOVER SWITCH FUNCTION

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

Monitor item	Condition	
MIR CHNG SW-R/L	When operating the changeover toward the right or left side.	: ON
WIII GI ING 3W-N/L	Other than above.	: OFF

Is the inspection result normal?

YES >> Changeover switch function is OK.

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

CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000006471564

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

(+)			Voltage (V) (Approx.)
Door mirror remote control switch		(–)	
Connector	Terminal		
D17	10	Ground	5
DIT	11	Ground	3

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CHANGEOVER SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1	Turn	ignition	switch	OFF
1.	IUIII	IGHILIOH	SWILLI	OI 1 .

- 2. Disconnect automatic drive positioner control unit connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and door mirror remote control switch harness connector.

Automatic drive p	ositioner control unit	Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	2	D17	11	Existed
IVIO	18	DII	10	LAISIEU

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	2	Ground	Not existed
	18		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

3.check door mirror remote control switch ground circuit

- Turn ignition switch OFF.
- 2. Check continuity between door mirror remote control switch harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).

Refer to ADP-93, "CHANGEOVER SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (changeover switch). Refer to MIR-24, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

1. CHECK CHANGEOVER SWITCH

- Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Check continuity between door mirror remote control switch terminals.

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< DTC/CIRCUIT DIAGNOSIS >

Door mirror remote control switch		Condition		Continuity			
Connector	Terr	minal	Condition		Continuity		
	10			LEFT	Existed		
D17	10	-	7	7	Changeaver awitch	Other than above	Not existed
DIT	11	/	7 Changeover switch	RIGHT	Existed		
				Other than above	Not existed		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-24, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

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- 1. CHECK POWER SEAT SWITCH GROUND CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch connector and ground.

Power seat switch			Continuity
Connector	Terminal	Ground	Continuity
B510	32		Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check reclining switch.

Refer to ADP-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power seat switch. Refer to <u>ADP-239</u>, "Removal and Installation".

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

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TILT &TELESCOPIC SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TILT &TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006471567

1. CHECK POWER TILT & TELESCOPIC SWITCH GROUND CIRCUIT

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

Tilt & teleso	copic switch		Continuity
Connector	Terminal	Ground	Continuity
M31	1		Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.check power tilt & telescopic switch internal circuit

Check tilt switch.

Refer to ADP-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace tilt & telescopic switch. Refer to ADP-241, "Removal and Installation".

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR

Description INFOID:000000006471568

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

Component Function Check

1.CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-97</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000006471570

1. CHECK SLIDING SENSOR SIGNAL

Turn ignition switch ON.

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

(+) Driver seat con	trol unit	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, thb.ov.)
B503	24	Ground	Seat sliding	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> GO TO 2.

2.CHECK SLIDING SENSOR CIRCUIT

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

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SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	Driver seat control unit		Sliding sensor		
Connector	Terminal	Connector Terminal		Continuity	
B503	24	B526	24	Existed	

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

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	24		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

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

	(+) Sliding sensor		Voltage (V) (Approx.)	
Connector	Terminal		(11 - /	
B526	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat	Driver seat control unit		Sliding sensor		
Connector	Terminal	Connector Terminal		Continuity	
B503	16	B526	16	Existed	

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

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	16		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

5. CHECK SLIDING SENSOR GROUND CIRCUIT 1

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

Driver seat	control unit	Sliding sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	31	B526	31	Existed

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK SLIDING SENSOR GROUND CIRCUIT 2

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

Driver seat control unit				Continuity	
	Connector	Terminal	Ground	Continuity	
	B503	31		Existed	

Is the inspection result normal?

YES >> Replace sliding sensor (Built in seat slide cushion frame). Refer to <u>ST-19, "WITH ELECTRIC MOTOR: Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

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RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SENSOR

Description INFOID:000000006471571

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

Component Function Check

INFOID:0000000006471572

1. CHECK FUNCTION

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

Monitor item	Condition		Value
		Operate (forward)	Change (increase)*1
RECLN PULSE	Seat reclining	Operate (backward)	Change (decrease)*1
			No change ^{*1}

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-100, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006471573

1. CHECK RECLINING SENSOR SIGNAL

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

(+) Driver seat cor	1	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B503	9	Ground	Seat reclining	Operate Other than	10mSec/div
				above	0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> GO TO 2.

2. CHECK RECLINING SENSOR CIRCUIT

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

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	Driver seat control unit		Reclining motor		
Connector	Terminal	Connector Terminal		Continuity	
B503	9	B523	9	Existed	

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK RECLINING SENSOR POWER SUPPLY

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

(+) Reclining motor			V 16 0 0	
		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B523	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

f 4.CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat control unit		Reclining motor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	16	B523	16	Existed	

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

Driver seat	Driver seat control unit		Continuity
Connector	Connector Terminal		Continuity
B503	B503 16		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK RECLINING SENSOR GROUND CIRCUIT 1

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

Driver seat	Driver seat control unit		Reclining motor	
Connector	Terminal	Connector Terminal		Continuity
B503	31	B523	31	Existed

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RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK RECLINING SENSOR GROUND CIRCUIT 2

- 1. Connect driver seat control unit connector.
- 2. Check continuity between reclining sensor harness connector and ground.

Driver seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B503 31			Existed	

Is the inspection result normal?

YES >> Replace reclining motor. Refer to <u>SE-233, "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description INFOID:0000000006471574

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

Component Function Check

1.CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-103, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471576

INFOID:0000000006471575

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

(+) Driver seat cor	I	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				
B503	25	Ground	Seat Lifting (front)	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> GO TO 2.

2.CHECK LIFTING SENSOR (FRONT) CIRCUIT

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

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LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Lifting motor (front)		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	25	B527	25	Existed	

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

Driver seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B503	25		Not existed	

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 connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between lifting motor (front) harness connector and ground.

(+) Lifting motor (front)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(
B527	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

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

Driver seat	Driver seat control unit		Lifting motor (front)	
Connector	Terminal	Connector Terminal		Continuity
B503	16	B527	16	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	B503 16		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

5. CHECK LIFTING SENSOR (FRONT) GROUND CIRCUIT 1

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

Driver seat	control unit	Lifting mo	otor (front)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	31	B527	31	Existed

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

$6.\mathsf{CHECK}$ LIFTING SENSOR (FRONT) GROUND CIRCUIT 2

- 1. Connect driver seat control unit connector.
- 2. Check continuity between lifting motor (front) harness connector and ground.

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	31		Existed

Is the inspection result normal?

YES >> Replace lifting motor (front). Refer to <u>SE-233. "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

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LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description INFOID:000000006471577

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

Component Function Check

INFOID:0000000006471578

1. CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-106, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471579

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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

(+) Driver seat contro	ol unit Terminal	(–)	Condition		Voltage (V) (Approx.)
B503	10	Ground	Seat Lifting (rear)	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> GO TO 2.

2.check lifting sensor (rear) circuit

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

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit	Lifting m	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	10	B529	10	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	10		Not Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check lifting sensor (rear) power supply

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

Lifting n	(+) notor (rear)	(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 /
B529	16	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

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

Driver seat	control unit	Lifting m	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	16	B529	16	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	16		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT 1

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

Driver seat	control unit	Lifting me	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	31	B529	31	Existed

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LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT 2

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	B503 31		Existed

Is the inspection result normal?

YES >> Replace lifting motor (rear). Refer to <u>SE-233. "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

TILT SENSOR

Description INFOID:000000006471580

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

Component Function Check

1.check function

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

Monitor item	Condition	Value
TILT SEN	Tilt position	Change between 1.1 V (Close to top) 3.9 V (Close to bottom)

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-109, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK TILT SENSOR SIGNAL

Turn ignition switch ON.

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

	(+) Automatic drive positioner control unit		Condition	Voltage (V) (Approx.)	
Connector	Terminal			()	
M51	7	Ground	Tilt position	Change between 1.1 V (Close to top) 3.9 V (Close to bottom)	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> GO TO 2.

2.check tilt sensor circuit

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

Automatic drive po	Automatic drive positioner control unit		Tilt & telescopic sensor	
Connector	Terminal	Connector Terminal		Continuity
M51	7	M48	3	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	7		Not existed

Is the inspection result normal?

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TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TILT SENSOR POWER SUPPLY

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

(+) Tilt & telescopic sensor		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(· p. e/u)	
M48	1	Ground	5	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK TILT SENSOR POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector, door mirror (driver side) connector and door mirror (passenger side) connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic sensor harness connector.

Automatic drive po	sitioner control unit	Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Connector Terminal		Continuity
M52	33		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TILT SENSOR GROUND CIRCUIT 1

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M52	41	M48	4	Existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TILT SENSOR GROUND CIRCUIT 2

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

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	41		Existed

Is the inspection result normal?

YES >> Replace tilt & telescopic sensor (Built in steering column assembly). Refer to <u>ST-16, "WITHOUT ELECTRIC MOTOR: Exploded View"</u>.

NO >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

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TELESCOPIC SENSOR

Description INFOID:000000006471583

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

Component Function Check

INFOID:0000000006471584

1. CHECK FUNCTION

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

Monitor item	Condition	Value
TELESCO SEN	Telescopic position	Change between 0.5 [V] (close to top) 4.5 [V] (close to bottom)

Is the indication normal?

YES >> INSPECTION END.

NO >> Perform diagnosis procedure. Refer to ADP-112, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471585

1. CHECK TELESCOPIC SENSOR SIGNAL

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

(+) Automatic drive positioner control unit		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			()
M51	23	Ground	Telescopic position	Change between 0.5 [V] (close to top) 4.5 [V] (close to bottom)

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> GO TO 2.

2. CHECK TELESCOPIC SENSOR CIRCUIT

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor				Continuity
Connector	Terminal	Connector Terminal		Continuity		
M51	23	M48	2	Existed		

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	23		Not existed

Is the inspection result normal?

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TELESCOPIC SENSOR POWER SUPPLY

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

	+)		V-16 (V)	
Tilt & teles	Tilt & telescopic sensor		Voltage (V) (Approx.)	
Connector	Terminal		,	
M48	1	Ground	5	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

f 4 .CHECK TELESCOPIC SENSOR POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector, door mirror (driver side) connector and door mirror (passenger side) connector.
- Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic sensor harness connector.

Automatic drive po	Automatic drive positioner control unit		Tilt & telescopic sensor	
Connector	Terminal	Connector Terminal		Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Oblition
M52	33		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK TELESCOPIC SENSOR GROUND CIRCUIT 1

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor Connector Terminal		Continuity
Connector	Terminal			Continuity
M52	41	M48	4	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TELESCOPIC SENSOR GROUND CIRCUIT 2

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

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TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	41		Existed

Is the inspection result normal?

- YES >> Replace tilt & telescopic sensor (Built in steering column assembly). Refer to <u>ST-16, "WITHOUT ELECTRIC MOTOR: Exploded View"</u>.
- NO >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

MIRROR SENSOR DRIVER SIDE

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DRIVER SIDE: Description

INFOID:0000000006471586

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

DRIVER SIDE : Component Function Check

D INFOID:0000000006471587

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

>> Perform diagnosis procedure. Refer to ADP-115, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006471588

1. CHECK DOOR MIRROR SENSOR (DRIVER SIDE) SIGNAL

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

(+) Automatic drive positioner control unit		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal	-		(Αρρίολ.)
M51	6	Ground	Ground Door mirror (Driver side) position	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
I GIVI	22	Ground		Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation". NO >> GO TO 2.

2.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

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

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< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	ositioner control unit	Door mirror (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	ME1 6	D3	9	Existed
IVIOT	22	D3	10	LAISIEU

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

Automatic drive positioner control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M51	6	Ground	Not existed	
I CIVI	22	-	INOL EXISTED	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- Check voltage between door mirror (driver side) harness connector and ground.

(+) Door mirror (driver side)		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - /
D3	11	Ground	5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK DOOR MIRROR (DRIVER SIDE) SENSOR POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit connector, tilt&telescopic switch connector and door mirror (passenger side) connector.
- Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

Automatic drive po	sitioner control unit	Door mirror (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M52	33	D3	11	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	33		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR GROUND 1

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

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	sitioner control unit	Door mirror	(driver side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	41	D3	12	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR GROUND 2

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

Automatic drive positioner control unit			Continuity
Connector	Connector Terminal		Continuity
M52	41		Existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

NO >> Replace door mirror sensor (Built in passenger side door mirror). Refer to MIR-21, "DOOR MIR-ROR ASSEMBLY: Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

The mirror sensor (passenger side) is installed to the door mirror (passenger side).

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

PASSENGER SIDE: Component Function Check

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-117, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE: Diagnosis Procedure

1. CHECK DOOR MIRROR SENSOR (PASSENGER SIDE) SIGNAL

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

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< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	(+) Automatic drive positioner control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal		ļ	(/ (pprox.)
M51	5	Ground	Door mirror (Passenger	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
I GIVI	21		side) position	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-237, "Removal and Installation"</u>. NO >> GO TO 2.

2.CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR CIRCUIT

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

Automatic drive po	sitioner control unit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	5	D33	9	Existed
IVIOT	21	D33	10	LXISIEU

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

Automatic drive positioner control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M51	5	Ground	Not existed	
I CIVI	21		ivoi existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3. {\sf CHECK\ DOOR\ MIRROR\ SENSOR\ (PASSENGER\ SIDE)\ POWER\ SUPPLY}$

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between door mirror (passenger side) harness connector and ground.

(+) Door mirror (passenger side)		(–)	Voltage (V) (Approx.)
Connector	Connector Terminal		
D33	11	Ground	5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector, tilt&telescopic switch connector and door mirror (driver side) connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and door mirror (passenger side) harness connector.

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	sitioner control unit	Door mirror (p	assenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	33	D33	11	Existed

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

Automatic drive positioner control unit			Continuity
Connector Terminal		Ground	Continuity
M52	33		Not existed

Is the inspection result normal?

>> Replace automatic driver positioner control unit. Refer to ADP-237, "Removal and Installation". YES

NO >> Repair or replace harness.

${f 5.}$ CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND 1

Turn ignition switch OFF.

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

Automatic drive po	sitioner control unit	Door mirror (p	assenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	41	D33	12	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

Ó.CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND 2

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

Automatic drive positioner control unit			Continuity
Connector Terminal		Ground	Continuity
M52	41		Existed

Is the inspection result normal?

NO

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation".

>> Replace door mirror sensor (Built in passenger side door mirror). Refer to MIR-21, "DOOR MIR-ROR ASSEMBLY: Removal and Installation".

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR

Description INFOID:000000006471592

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

Component Function Check

INFOID:0000000006471593

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-120, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006471594

1. CHECK SLIDING MOTOR POWER SUPPLY

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

(+) Sliding motor		(-)	(-) Con		Voltage (V) (Approx.)
Connector	Terminal				, , ,
					0
	35	Ground	SEAT SLIDE	FR (forward)	Battery voltage
B525				RR (backward)	0
D020				OFF	0
	42			FR (forward)	0
				RR (backward)	Battery voltage

Is the inspection result normal?

YES >> Replace sliding motor. (Built in seat slide cushion frame.) Refer to <u>SE-233. "Exploded View"</u>.

NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

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

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	t control unit	Sliding motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B504	35	B525	35	Existed
B504	42	D020	42	Existed

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

Driver seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B504	35	Ground	Not existed	
B304	42		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236</u>. "Removal and Installation".

NO >> Repair or replace harness.

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RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR

Description INFOID:0000000006471598

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

Component Function Check

INFOID:0000000006471596

1. CHECK FUNCTION

- Turn ignition switch ON.
- 2. Select "SEAT RECLINING" in "Active test" mode using CONSULT-III.
- Check the reclining motor operation.

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-122, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006471597

1. CHECK RECLINING MOTOR POWER SUPPLY

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

-	(+) Reclining motor		Condition		Voltage (V) (Approx.)
Connector	Terminal				, , , ,
				OFF	0
	36	Ground	SEAT RECLINING	FR (forward)	Battery voltage
B523				RR (backward)	0
D323	44 Ground			OFF	0
				FR (forward)	0
			RR (backward)	Battery voltage	

Is the inspection result normal?

YES >> Replace reclining motor. (Built in seat back frame.) Refer to <u>SE-233. "Exploded View"</u>.

NO >> GO TO 2.

2.CHECK RECLINING MOTOR CIRCUIT

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

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	at control unit	Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B504	36	B523	36	Existed
D304	44	D323	44	LXISIEU

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

Driver seat control unit			Continuity	
Connector	Connector Terminal			
B504	36	Ground	Not existed	
B304	44		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description INFOID:000000006471598

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

Component Function Check

INFOID:0000000006471599

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-124, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471600

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect lifting motor (front) connector.
- 3. Turn the ignition switch ON.
- Perform "Active test" ("SEAT LIFTER FR") using CONSULT-III.
- Check voltage between lifting motor (front) harness connector and ground.

	(+) Lifting motor (front)		Condition		Voltage (V) (Approx.)
Connector	Terminal				, , , ,
				OFF	0
	37	37 Ground	SEAT LIFTER FR	UP	0
B527				DWN (down)	Battery voltage
D321	B327			OFF	0
	45			UP	Battery voltage
				DWN (down)	0

Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-233. "Exploded View"</u>. NO >> GO TO 2.

2.check lifting motor (front) circuit

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

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	at control unit	Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B504	37	B527	37	Existed
B304	45	D321	45	LXISIEU

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

Driver seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B504	37	Ground	Not existed	
B304	45		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-236</u>. "Removal and Installation".

NO >> Repair or replace harness.

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LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (REAR)

Description INFOID:000000006471601

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

Component Function Check

INFOID:0000000006471602

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-126, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006471603

1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect lifting motor (rear) connector.
- 3. Turn the ignition switch ON.
- Perform "Active test" ("SEAT LIFTER RR") using CONSULT-III
- Check voltage between lifting motor (rear) harness connector and ground.

	(+) Lifting motor (rear)		Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
				OFF	0
	38 G	Ground	SEAT LIFTER RR	UP	Battery voltage
B529				DWN (DOWN)	0
D329		Ground		OFF	0
	39	39		UP	0
			DWN (DOWN)	Battery voltage	

Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-233, "Exploded View"</u>. NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	at control unit	Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B504	38	B529	38	Existed
B304	39	D329	39	LXISIGU

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

Driver seat control unit		Driver seat control unit	
Connector	Terminal	Ground	Continuity
B504	38	Giodila	Not existed
B 304	39		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-236, "Removal and Installation".

NO >> Repair or replace harness.

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TILT MOTOR

Description INFOID:000000006471604

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

Component Function Check

INFOID:0000000006471605

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-128, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471606

1. CHECK TILT MOTOR POWER SUPPLY

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

	(+) Tilt & telescopic motor		Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
				OFF	0
	3		TILT MOTOR	UP	0
M49		Ground		DWN (down)	Battery voltage
10149		Ground	TILI MOTOR	OFF	0
	4			UP	Battery voltage
			DWN (down)	0	

Is the inspection result normal?

YES >> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-19, "WITH ELECTRIC MOTOR: Exploded View".</u>

NO >> GO TO 2.

2.CHECK TILT MOTOR CIRCUIT

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

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Tilt & telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	35	M49	4	Existed
M52	42	IVI 4 3	3	LXISIEU

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	35	Ground	Not existed
IVIOZ	42		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-237, "Removal and Installation"</u>. NO >> Repair or replace harness.

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TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC MOTOR

Description INFOID:000000006471607

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

Component Function Check

INFOID:0000000006471608

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-130, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471609

1. CHECK TELESCOPIC MOTOR POWER SUPPLY

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

	(+) Tilt & telescopic motor Connector Terminal		Condition		Voltage (V) (Approx.)
	1		TELESCOPIC MO-	OFF FR (forward)	0
M49	·	Ground		RR (backward)	Battery voltage
W49		Ground	TOR	OFF	0
	2			FR (forward)	Battery voltage
				RR (backward)	0

Is the inspection result normal?

YES >> Replace telescopic motor. (Built in steering column assembly.) Refer to <u>ST-19. "WITH ELECTRIC MOTOR</u>: Exploded View".

NO >> GO TO 2.

2.CHECK TELESCOPIC MOTOR CIRCUIT

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

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Tilt & telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	36	M49	2	Existed
IVIOZ	44	10149	1	LVISIGA

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	36	Ground	Not existed
IVIJZ	44		INOL GAISIGU

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-237, "Removal and Installation". NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR MOTOR

Description INFOID:0000000006471610

It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies.

Component Function Check

INFOID:0000000006471611

1. CHECK DOOR MIRROR MOTOR FUNCTION

- Turn ignition switch ON.
- Select "DOOR MIRROR MOTOR LH" and "DOOR MIRROR MOTOR RH" in "Active test" mode using CONSULT-III.
- 3. Check the door mirror motor operation.

Test	item	Descrip	tion
	OFF		Stop
	L		Outward
DOOR MIRROR MOTOR LH	R	Door mirror face	Inward
	UP		Upward
	DWN		Downward

Test	item	Desc	ription
	OFF		Stop
	L		Inward
DOOR MIRROR MOTOR RH	R	Door mirror face	Outward
	UP		Upward
	DWN		Downward

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-132, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006471612

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror connector and ground.

·	+) mirror	(-)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(44)
-	5			UP	Battery voltage
	3			Other than above	0
D3 (Driver side) D33 (Passenger	6	Ground	Door mirror remote	LEFT	Battery voltage
side)	O	Ground	control switch	Other than above	0
	7			DOWN / RIGHT	Battery voltage
	7			Other than above	0

Is the inspection result normal?

YES >> Replace door mirror. Refer to MIR-21, "DOOR MIRROR ASSEMBLY: Removal and Installation".

NO >> GO TO 2.

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.check harness continuity

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

[Door mirror driver side]

Automatic drive po	ositioner control unit	Door mirror	(driver side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	16		7	
M51	31	D3	5	Existed
	32		6	

[Door mirror passenger side]

Automatic drive p	ositioner control unit	Door mirror (p	passenger side)	O control tr
Connector	Terminal	Connector	Terminal	Continuity
	14		5	
M51	15	D33	6	Existed
	30		7	

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

[Door mirror driver side]

Automatic drive po	ositioner control unit		Continuity
Connector	Terminal		Continuity
	16	Ground	
M51	31		Not existed
	32		

[Door mirror passenger side]

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal		Continuity
	14	Ground	
M51	15		Not existed
	30		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-237, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY INDICATOR

Description INFOID:0000000006471613

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

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

Component Function Check

INFOID:0000000006471614

1. CHECK FUNCTION

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

Test item		Description	ı
	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-134, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006471615

1. CHECK MEMORY INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

Seat men	+) nory switch	(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
D5	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO

>> Check the following.

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

2.CHECK MEMORY INDICATOR CIRCUIT

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

Automatic drive po	sitioner control unit	Seat men	nory switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	12	D5	6	Existed
ICIVI	13	D5	7	LAISIEU

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

Connector Terminal Ground	Automatic drive po	sitioner control unit		Continuity
12	Connector	Terminal	Ground	Continuity
	M51	12	Ground	Not existed
13	M51	13	Not e.	Not existed

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Te the inendetion regulit normal /	le tha	inenaction	result normal?
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YES >> Replace seat memory switch. Refer to <u>ADP-238, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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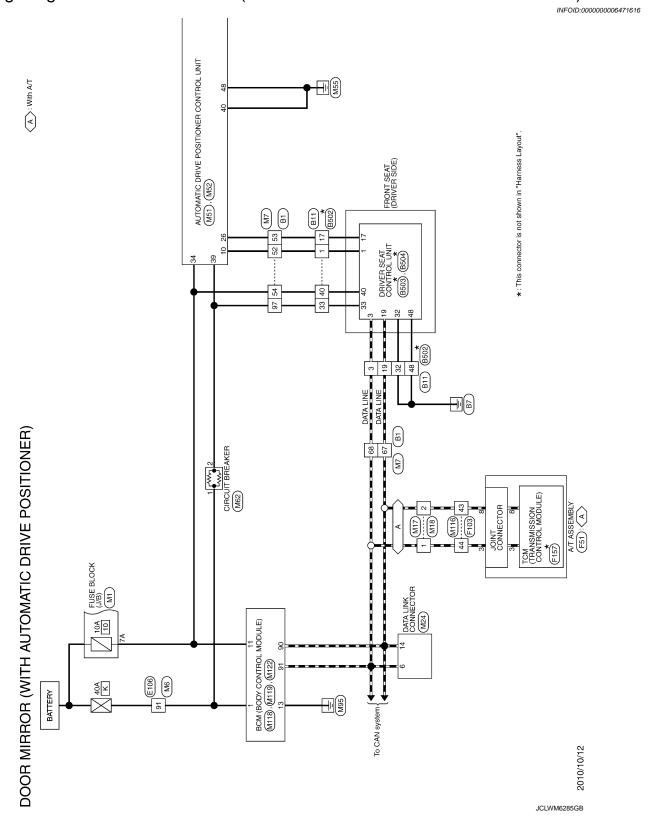
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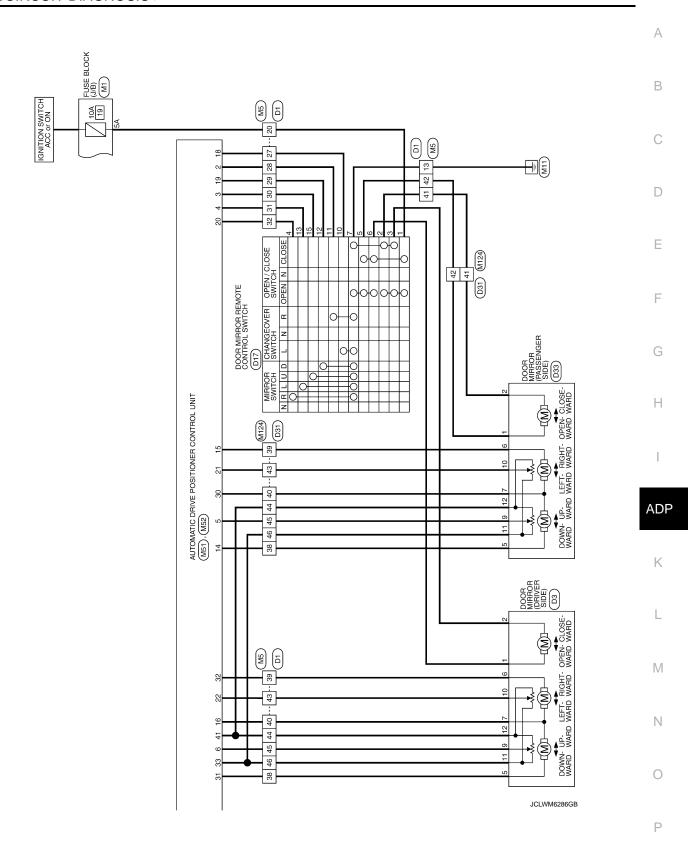
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Wiring Diagram - DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER) -





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DOOF	DOOR MIRROR (WITH AUTOMATIC E	DRIV	E POS	RIVE POSITIONER)	3)						
Connector No.	No. B1		Н	SB	ı	Connector No.	П	B11	48	В	1
Connector Name	Name WIRE TO WIRE		45	> 3	1	Connector Name		WIRE TO WIRE	09	> 0	1
Connector Type	Type TH80EN-CS16-TM4	<u> </u>	╀	= B		Connector Type	Т	NSTREMESS	67	2 ≥	
	1		╁	2 2	1		1				
修			L	FG	- [With BOSE system]	修					
Ě	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ц	49	,	- [Without BOSE system]		<u> </u>		Connector No.	П	B503
į			20 S	SB	- [With BOSE system]	5	29	40 17 13 19	Connector Name		TINIT IONITED SEAT CONTROL
	C T C C C C C C C C C C C C C C C C C C		_	re	- [Without BOSE system]		9	67 33 21 48 32 66		П	
			+	SB	1		3	97 50 E1 40 0E 00 5	Connector Type	П	TH32FW
	8 8 8 8 8	_	\dashv	ŋ	1				ģ		
			\dashv	D_	1				唐		
la	Color Signal Name [Specification]		54 E	BR	1	Terminal	Color	Signal Name [Specification]			
No.	of Wire		4	×	-	O	of Wire				
-			_	W	_	-	g	_		3	8 9 10 11 12 13 14
2	- 7		. 22	^	1	3	٦	1		17 19	21 24 25 26 27 28 29 30 31 32
8	2			œ	ı	9	>				
4	^	L	09	۳	1	17	ΡŢ	1			
2		L	61 B	BG	1	19	Ь	1	Terminal	Color	3
9	- 8	L	62	8	1	21	>	1	o N	of Wire	Signal Name [Specification]
6		L	H		1	32	m	1	-	L/w	×
9	BB	L	╀		1	33	gg		e	Σ×	CAN-H
t	SHIFLD	L	F	œ	1	40	88	1	4	0/8	S I IDING I IMIT SW
t		L	╁	SB	1	48	~	1	· c	-	BLICKLE SW
14		L	ł		1	9	ű		α	. ×	P PANGE SW
4	ן ו	L	+		1	9	2 >			. (/w	DILL SE (BECLINING)
0 9	r ;	1	+],		00 5	- 6		n (5 (c	PULSE (REULINING)
16			+		1	67	ag B	1	0	В/В	PULSE (RR LIFTING)
17	BR –	_	+		1				Ξ	BR	SLIDING SW (BACKWARD)
20			\dashv	9	1		ſ		12	SB	RECLINING SW (BACKWARD)
21	SB		\dashv	>	1	Connector No.		B502	13	LG/R	FRONT LIFTING SW (DOWNWARD)
22		_1	\dashv	æ	1	Connector Name		WIRE TO WIRE	14	g/B	REAR LIFTING SW (DOWNWARD)
23				BR			\neg		16	0	VCC
24	SB –			G	_	Connector Type		NS16MW-CS	17	Y/R	XT
25	BR -		85		-	4			19	>	CAN-L
56	TG		. 98	,	-	唐			21	۲	P RANGE SW
27	γ –		87 G	GR	-	F	<u> </u>		24	Я	PULSE (SLIDING)
28			-	2	_		19	3 1 17 40 59	22	Y/B	PULSE (FR LIFTING)
	۰ -		-	BG	-		α	E 66 30 18 01 33 67	26	\	SLIDING SW (FORWARD)
31	SHIELD -		94	Ь	_		기	3 00 35 40 21 30 01	27	R/G	RECLINING SW (FORWARD)
32	- 5	_	95 G	GR	1				28	W/B	FRONT LIFTING SW (UPWARD)
33			+	GR	1				59	P/L	REAR LIFTING SW (UPWARD)
34	BG -		97 S	SB	-	Terminal	Color	Simal Name [Specification]	30	Д	POWER WALK-IN SW
35	GR -		. 66	,	-	No.	of Wire	orginal realine Lobechicacion	31	GR	SENSOR GND
36	BR -		100 Y.	Y/B	-	-	W/I	-	32	B/W	GND (SIGNAL)
37	P - [With climate controlled seat]	l				3	R/Y	-			
37	Y - [Without climate controlled seat]					9	٦				
38	V - [With climate controlled seat]					17	Y/R	1			
38	GR - [Without climate controlled seat]					19	>	1			
Н	SHIELD -					21	۲	1			
H	- 1					32	B/W	1			
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43	q					40	R/W	1			
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< DTC/CIRCUIT DIAGNOSIS >

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Signal Name WRE TO WIRE		В
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		G
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D30 D000R MIRROR (7112MW-NH		ADP
POSITIES POSITIES		K
	1	ı
T T T T T T T T T T T T T T T T T T T		_
FER SEAT CONTROL UNIT FEW-CS 12		M
N N N N N N N N N N		Ν
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DOOR MI	DOOR MIRROR (WITH AUTOMATIC DI	RIVE	POSI	DRIVE POSITIONER)				
Connector No.	D33	8	9	-	93 GR	-	5 B	-
Connector Name	DOOR MIRROR (PASSENGER SIDE)	6	۳	-	94 L	-	. ∀	-
DOLLING MAILE		10	W	-	Н	-	10 GR	_
Connector Type	TH12MW-NH	11	^	-		_	19 0	_
þ		12	۳	1	98 SHIELD	-	20 Y	1
医		13	_	-	36 T	_	28 B	
) H	7	14	4	1	100 P	1	\dashv	1
		12	4	1			\dashv	1
	o	16	*	-			31 R	
	12 11 10 9 8	17	┥	1	Connector No.	F51	\dashv	1
		81	BG	1	Connector Name	A/T ASSEMBLY		1
		31	\dashv	1			43 P	1
la.	Cinnal Nama [Spacification]	20	D_	-	Connector Type	RK10FG-DGY	44	_
No. of Wire		30	~	1	4		45 Y	1
1 LG	 [With automatic drive positioner] 	31	Н		彦	<	46 V	
Υ .	 [Without automatic drive positioner] 	32	BG	-	Ę	«		
2 Y	- [With automatic drive positioner]	33	Ь		119	1		
2 LG	- [Without automatic drive positioner]	34	^	-		(5 4 3 2 1)	Connector No.	F157
4	1	35	BB	1		10 9 8 7 6		(2 HIGGN TOGEROO ROGOROWALL/ NO.
2	- [With automatic drive positioner]	36	>	1		1		LOM (TRANSMISSION CONTROL MODULE)
5 GR	Ľ	37	≻	1			Connector Type	SP10FG
6 GR	L	38	~	1	Terminal Color		ď	
9	_	38	В	1	No. of Wire		ß	<
7 G	- [With automatic drive positioner]	40	5	1	-	1	\$ E	«
7 0	- [Without automatic drive positioner]	4	L		2 R	-	Ć.	
8		45	Ł	1	3	1		(1 2 3 4 5)
6	-	4	H	1	>	1		6 7 8 0 10
10 BR	1	4	╀	ı	9 2	1) ,
11 W	1	45	H	1	. Д	1		
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		47	L	1	8	1		oignal Name [opecification]
		48	<u> </u>	1	9 GR	1	-	VIGN
Connector No.	E106	49	┝	1	H	ı	2 -	BATT
2	DOWN OF DOWN	29	В	1			3	CAN-H
Collinación Marina		99	D I	-			- 4	K-LINE
Connector Type	TH80FW-CS16-TM4	67	SB	1	Connector No.	F103	- 2	GND
ą		89	_	1	Connector Name	WIRE TO WIRE	- 9	VIGN
手		69	≥	1			7 -	REV LAMP RLY
Ę		70	9	-	Connector Type	TK36FW-NS10	- 8	CAN-L
	97 92 121 121 121 121 121 121 121 121 121	80	*	-	4		- 6	STARTER RLY
		81	Ь	-	彦		- 01	GND
	8 O1 8182 8218 8218 8218 8218 8218 8218	82	5	1	E E			
		83	>	1	-			
		84	-	1	46 46 44			
la E		82	BG	1				
No. of Wire		98	D LG	1				
1 GR	-	87	Υ.	-				
3 BG	-	88	GR	-	lal	Simal Nama [Snavification]		
4 B/W	-	88	М	-	No. of Wire			
2 C	1	96	>	1	2 G	1		
H		91	H	1	3	1		
7 LG		92	В	-	4 G	1		

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< DTC/CIRCUIT DIAGNOSIS >

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	Н
ONER) - (With automatic drive positioner) - (With automatic drive positioner) - (Without automa	ADP
North	1.6
VE POST VE P	K
	L
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)	M
RROR (WITH WILL FUSE BLOCK (J./B) NS06FW-M2 Signal Nam	Ν
	0
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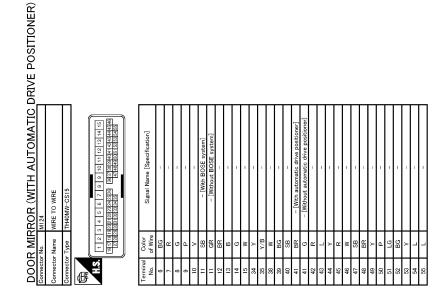
Concept File	MIRROR (WITH AUTOMATIC	DRIVE POSITIONER)	JONER)		-	
Marcon Water Connector Name Con	Sonnector No. M7	+	-		+	1
This DAM CS IT NAM		+	1 1		+	
1 1 1 1 1 1 1 1 1 1	Т	┝	Т	Г	┝	1
1		Н	1	q	Н	1
Colored Colo	23 (24) (27)	\dashv	- [With BOSE system]	医	4	ı
	1 6 23 33 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	+	- [Without BOSE system]		_	1
Convention from the conv	2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	+	- [With BOSE system]			
	3 3 2 2 2 2 2 2 3 3 3 5 3 5	+	- [Without BOSE system]	2 1		
		+	1]	Connector No.	M51
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10 10 10 10 10 10 10 10	Color	+	1	Color	Connector Type	TH32FW-NH
10 10 10 10 10 10 10 10		+	– [With A/T]	1	þ	
10 10 10 10 10 10 10 10	- BG	+	- [With M/T]		李	
Commercial Plane Commercial	- rg	+	1	2 P -	Ĕ	
1		\dashv	-			
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Lange Lang		L			17 18	19 20 21 22 23 24 25 26 27 30
Fig. 18			1	Ť		
SHERP	7		1			
Strict	- I	L	1		ᆫ	
No. Color	SHIELD -	L	1	1		
CR CR CR CR CR CR CR CR	- ^	L	1		۱ ۲	TILT SW (UPWARD)
CR	L	L	1		2 LG	MIRROR SELECT SW (RH)
LG	⊢	L	1		_	MIRROR SW (UPWARD)
100 100	L	7 89	1	7	>	MIRROR SW (LEFTWARD)
10 1 1 1 1 1 1 1 1 1		Н	-	7	L	MIRROR SENSOR (RH VERTICAL)
Signation Compact Co	BR -		1		_	MIRROR SENSOR (LH VERTICAL)
Signature Color	- 5	_	1		7 BG	TILT SENSOR
Signature controlled seat] Signature cont		_	1	Color	_	ADDRESS 1
1 CR Connector No. C	SB	82 Y	-	of Wire	٧ 01	TX (UART)
Signature Sign	- 8	H	1	1	H	TELESCOPIC SW (FRONTWARD)
15 16 17 18 19 19 19 19 19 19 19	M	84 ∨	-	2 P -	Н	IND 1
14 W 14 15 15 15 16 17 17 18 18 19 19 19 19 19 19		R2 T	-		Н	IND 2
Signature Sign	- ^	-	-		\dashv	MIRROR MOTOR (RH VERTICAL)
16 N 16 N 16 N 16 N 16 N 17 18 N 18		Н	-		Н	MIRROR MOTOR (RH HORIZONTAL)
17 BR 19 BR 10	۰ -	-	-		16 Y	MIRROR MOTOR (LH COMMON)
Commercer Type BD16FW BD	SHIELD -	\dashv	1	П	+	TILT SW (DOWNWARD)
19 28 28 29 29 29 29 29 2	- 5	+	1	П	+	MIRROR SELECT SW (LH)
100 100		-	_	4	-	MIRROR SW (DOWNWARD)
10 10 10 10 10 10 10 10	BG -	A 96	1		_	MIRROR SW (RIGHTWARD)
With climate controlled seat 100 V/B	GR -	_	-		21 L	MIRROR SENSOR (RH HORIZONTAL)
- [With climate controlled seat] - [Without climate controlled sea	BR	≻	1	9 10 11 12 13 14 15	F	MIRROR SENSOR (LH HORIZONTAL)
- [Without climate controlled seat] - [Without climate climate controlled seat] - [Without climate climate climate climate climate climate	L	Ͱ	1		L	TELESCOPIC SENSOR
- [With climate controlled seat]	L - [Without climate controlled seat]	l		2 3 4 5 6 7	L	SET SW
Terminal Coding Signal Name (Specification) 22 P P	L				L	ADDRESS 2
Terminal Golor Color Signal Name (Specification) 27 G Color Colo	'				L	RX (UART)
No. of Wire Organization 30 SB R - 32 BR R - 3	SHIELD -			Color	_	TELESCOPIC SW (BACKWARD)
3 LG - 31 G - 31 G - 32 BR 32 BR 32 BR 32 BR 32 BR 32 BR 33 BR 33 BR 34 BR 34 BR 35 BR				of Wire	Н	MIRROR MOTOR (RH COMMON)
- 4 B - 32 BR				Н	Н	MIRROR MOTOR (LH VERTICAL)
	SHIELD -			4 B	L	MIRROR MOTOR (LH HORIZONTAL)

JCLWM6291GB

< DTC/CIRCUIT DIAGNOSIS >

R SUPPLY R S	А
IGN RELAY (F/B) CONT KEYLESS ENTRY RECEIVER COMM COMBI SW INPUT 3 COMBI SW INPUT 3 COMBI SW INPUT 3 FUSIAN SW CAN-H KEY SLOT ILL ON IND ACC RELECTOR POWER SUPPLY S./L CONDITION 1 S./L CONDITION 2 ASOD GLUTCH SW WITH AT] PASSENGER BOOK RECUEST SW ENWER PAN MOTOR RECUEST SW SIHET PUSHES SENTEY RECEIVER POWER SUPPLY COMBIS SW INPUT 1 COMBIS SW INPUT 4 COMBIS SW INPUT 5 COMBIS SW INPUT 6 COMBIS SW INPUT 7 COMBIS SW INPUT 8 COMBI	В
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- MODULE) - MODULE) 17 18 19 10 17 18 19 10 17 18 19 10 10 10 10 10 10 10	Е
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Connector No. MII	G
(BAT)	Н
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Name WIRE TO WIRE	ADP
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	L
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Connector Name Conn	0
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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT (WITH AUTOMATIC DRIVE POSITIONER)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III	MONITOR	ITEM
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Monitor Item	Condit	ion	Value/Status
SET SW	Set switch	Push	ON
3E1 3W	Set Switch	Release	OFF
MEMORY SWA	Mamary awitch 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY CWO	Mamanu avvitah 2	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
CLIDE CW ED	Cliding quitab (frant)	Operate	ON
SLIDE SW-FR	Sliding switch (front)	Release	OFF
SLIDE SW-RR	Cliding switch (roor)	Operate	ON
SLIDE SW-KK	Sliding switch (rear)	Release	OFF
DECLN CW ED	Declining quitab (front)	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
DECLN SW DD	Paolining switch /roor\	Operate	ON
RECLN SW-RR	Reclining switch (rear)	Release	OFF
LIFT FR SW-UP	Lifting quitab front ()	Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
LIET ED OW DN	Lifting quitab front (doug)	Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
LIFT KK SW-UP	Litting Switch real (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
LIFT KK SW-DN	Litting Switch real (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIIN CON SW-OF	WIIITOI SWILCII	Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIIK CON SW-DIN	WIIITOI SWILCII	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
WIIIX COIN GVV-IXII	WIIITOI SWILOIT	Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
WIII CON GVV-LII	WILLION SWILON	Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
WIII OI IIIO OVV-IX	Changeover Switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
	Shangeover switch	Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
1.21 000 01	THE SWILOTT	Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
TIET OVV DOVVIN	THE SWILOTT	Other than above	OFF

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	dition	Value/Status							
TEL 5000 0W 5D	T. 1	Forward	ON							
TELESCO SW-FR	Telescopic switch	Other than above	OFF							
TELESCO SW-RR	Tilt switch	Backward	ON							
TELESCO SW-KK	THE SWILCH	Other than above	OFF							
FORWARD SW	Seat back	Folded down	ON							
I ORWARD 3W	Seat back	Other than above	OFF							
WALK-IN SW	Power walk-in switch	Pressed	ON							
WALK IIV OW	1 OWEI WAIK III SWIGH	Other than above	OFF							
FWD LIMIT SW	Seat sliding	Front edge	ON							
T VVD ENVIT OVV	ocat sliding	Other than above	OFF							
SEAT BELT SW	Seat belt	Fastened	ON							
OE/ (I BEE! OW	Cour bon	Other than above	OFF							
DETENT SW*1	A/T selector lever	P position	OFF							
DETERM OW	7.4.1 00.00.00.10.10.1	Other than above	ON							
PARK BRAKE SW*2	Parking brake	Applied	ON							
TAIRLE OV	. animing praise	Release	OFF							
STARTER SW	Ignition position	Cranking	ON							
	.g	Other than above	OFF							
		Forward	The numeral value decreases *3							
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3							
		Other than above	No change to numeral value ^{*3}							
		Forward	The numeral value decreases *3							
RECLN PULSE	Seat reclining	Backward	The numeral value increases *3							
		Other than above	No change to numeral value ^{*3}							
		Up	The numeral value decreases *3							
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *3							
		Other than above	No change to numeral value*3							
		Up	The numeral value decreases *3							
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *3							
		Other than above	No change to numeral value ^{*3}							
MIR/SEN RH U-D	Door mirror (passenger s	side)	Change between 3.4 (close to peak) 0.6 (close to valley)							
MIR/SEN RH R-L	Door mirror (passenger s	side)	Change between 3.4 (close to left edge) 0.6 (close to right edge)							
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)							
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)							
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)							
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)							

^{*1:} A/T model

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^{*2:} M/T model

^{*3:} The value at the position attained when the battery is connected is regarded as 32768.

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

33|34|35|36| 37|38|39 |40|41|42|43|44|45|46|47|48



JMJIA0199ZZ

PHYSICAL VALUES

	nal No. e color)	Description				Voltage (V)								
+	-	Signal name	Input/ Out- put	Con	(Approx)									
1 L/W	Ground	UART communication (RX)	Input	Ignition switch ON		2mSec/div 2mSec/div JMJIA0118ZZ								
3 R/Y	_	CAN-H	_	-	_	_								
4 O/B	Ground	Sliding limit switch signal	Input	Seat sliding front 6 Seat switch & pow pressed	edge er walk-in switch is	0 5								
5 L	Ground	Seat belt buckle switch signal (driv-	Input	Seat belt fastened pressed	& seat switch	5								
_		er side)		Other than above		0								
8 L/Y	Ground	Parking brake switch signal	Input	Parking brake	Applied Release	0 Battery voltage								
9 W/G	Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div 2V/div JMJIA0119ZZ								
					Stop	0 or 5								
10 P/B	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div 2V/div JMJIA0119ZZ								
				Stop	0 or 5									

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	Con	dition	(Approx)
11 (BR)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(02)		baokwara digirar			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(20/11)		dominara digital		(II of II)	Battery voltage	
14 (GB)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(02)		dominara digital		(1001)	Release	Battery voltage
16 (O)	Ground	Sensor power sup- ply	Out- put	-	_	Battery voltage
17 (Y/R)	Ground	UART communication (TX)	Out- put	Ignition switch ON		10mSec/div 2V/div JMJIA0121ZZ
19 (V)	_	CAN-L	_	-	_	_
21 (L/Y)	Ground	Detention switch switch	Input	A/T selector lever	P position Except P position	0 20mSec/div MANAMAMAMA
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
25 (Y/B)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div
					Stop	0 or 5

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Voltage (V)						
+	-	Signal name	Input/ Out- put	Cond	dition	(Approx)						
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0						
(1)		waru signai			Release	Battery voltage						
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0						
(K/G)		iorwaru signai			Release	Battery voltage						
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0						
(۷۷/۵)		upwaru signai		(Holle)	Release	Battery voltage						
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0						
(1 / =)		upwaru signai		(ICai)	Release	Battery voltage						
30	Ground	Power walk-in	Input	Power walk-in	Pressed	0						
(P)	Ordana	switch signal	mput	switch	Other than above	Battery voltage						
31 (GR)	Ground	Sensor ground	_	-	_	0						
32 (B/W)	Ground	Ground (signal)	_	-	_	0						
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage						
35 (W/R)	Ground	Sliding motor for- ward output	Out-	Seat sliding	Operate (forward)	Battery voltage						
(**/***)		wara output	put		Release	0						
36 (G/Y)	Ground	Reclining motor for- ward output signal	Out-	Seat reclining	Operate (forward)	Battery voltage						
(0/1)		wara output signal	put		Release	0						
37 (G/W)	Ground	Lifting motor (front) downward output	Out- put	Seat lifting (front)	Operate (downward)	Battery voltage						
(0/11)		downward output	put		Stop	0						
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out- put	Seat lifting (rear)	Operate (upward)	Battery voltage						
(=/ 1)		apmara output	put		Stop	0						
39 (R/B)	Ground	Lifting motor (rear) downward output	Out-	Seat lifting (rear)	Operate (downward)	Battery voltage						
(10,0)		downward output	put		Stop	0						
40 (R/W)	Ground	Power source (Fuse)	Input	-	_	Battery voltage						
				Seat back is folder walk-in switch pre-	d down and power ssed	0						
41 (Y/G)	Ground	Forward switch signal	Input	Seat back is fold using is operation	ip and seat reclin-	battery voltage						
				Seat back is fold u	ip and power walk-	5						
42	Ground	Sliding motor back-	Out-	Seat sliding	Operate (backward)	Battery voltage						
(W)		ward output	put	· · · · · · · · · · · · · · · · · · ·	Stop	0						

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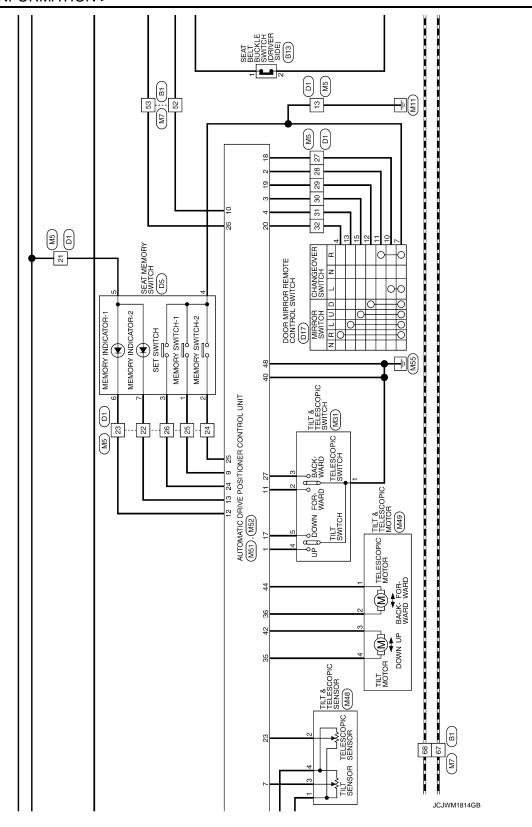
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< ECU DIAGNOSIS INFORMATION >

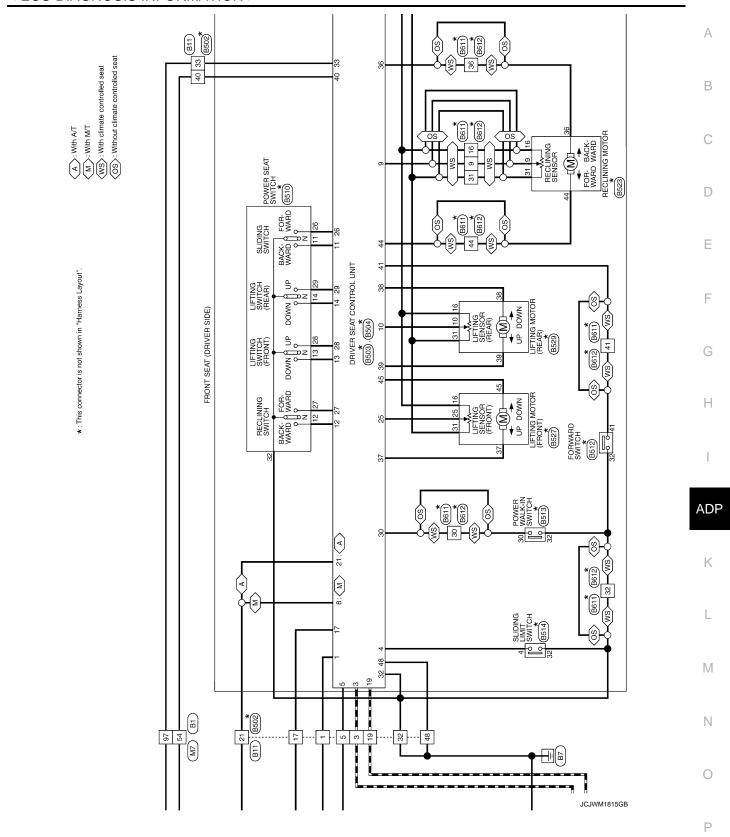
	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	dition	(Approx)	
44 (P)	Ground	Reclining motor backward output	Out-	Seat reclining	Operate (backward)	Battery voltage
(٢)		backwaru output	put		Stop	0
45 (L/R)	Ground	Lifting motor (front)	Out-	Seat lifting (front)	Operate (upward)	Battery voltage
(L/K)		upward output	put		Stop	0
48 (B)	Ground	Ground (power)		_	_	0

< ECU DIAGNOSIS INFORMATION >

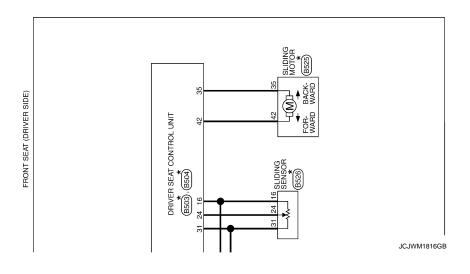
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -Α INFOID:0000000006471618 В M124 C $\langle A \rangle$: With A/T $\langle M \rangle$: With M/T AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M51) (M52) D 44 45 46 Е DOOR MIRROR (DRIVER SIDE) F ★: This connector is not shown in "Harness Layout". [5] (MS UP- LEFT- RIGHT WARD WARD G 44 40 Н 45 METER AND A/C AMP. (M67) DOWN-WARD 46 ADP M137): < A CIRCUIT BREAKER (M62) TCM (TRANSMISSION CONTROL MODULE) A/T ASSEMBLY
(F51): < A > JOINT K DATA LINK CONNECTOR (M24) FUSE BLOCK (J/B) (M1) **AUTOMATIC DRIVE POSITIONER** BCM (BODY CONTROL MODULE) (M118) (M118) (M128) KEY SLOT DATA LINE 40F - Hillian M 10A To CAN system Ν (M7) [B] E106 Me 404 BATTERY 0 2010/10/12 Ρ JCJWM1813GB



< ECU DIAGNOSIS INFORMATION >



★: This connector is not shown in "Harness Layout".



< ECU DIAGNOSIS INFORMATION >

	А
Bita Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	В
B16 POIFB-A A03FW	С
Connector Name Connector Name Connector Name Terminal Color No. Ownector Name Connector Name Con	D
Sification of the story of the	Е
811 WIRE TO WIRE NS.16FW-CS NS.16FW-17 Signal Name (Specification) Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	F
	G
Commetter No. Commetter Type Color Wife C	Н
- [With BOSE system] - [With BOSE system] - [With BOSE system] - [With OSE system] - [With OSE system] - [Without BOSE system]	I
1 (WAN) - (WAN	ADP
R > N N <td>K</td>	K
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Connector No. BI Connector No. BI Connector No. BI Connector No.	0
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< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER Connector No. B502	LG/R	Connector No. B510	Connector No. B513
WIRE TO WIRE	14 G/B REAR LIFTING SW (DOWNWARD) 16 0 VCC	Connector Name POWER SEAT SWITCH (DRIVER SIDE)	Connector Name POWER WALK-IN SWITCH (DRIVER SIDE)
NS16MW-CS	17 Y/R TX	Connector Type NS10FW-CS	Connector Type TK02FBR
	, N	匮	香
19 3 1 - 17 40 59	24 R PULSE (SLIDING) 25 Y/B PULSE (FR LIFTING)	H.S. [32] [14 [29]	HS.
5 66 32 48 21 33 67	26 Y SLIDING SW (FORWARD)	12 27 11 26 13 28	32 30
$\ $	W/B		
	P/L	- 1	- 1
Signal Name [Specification]	30 P POWER WALK-IN SW	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
		t	t
-		12 SB –	H
1	ſ	13 LG/R –	
I	Connector No. B504	14 G/B –	
1	Connector Name DRIVER SEAT CONTROL UNIT	$^{+}$	Connector No. B514
	Т	K/G	Connector Name SLIDING LIMIT SWITCH (DRIVER SIDE)
1 1	Connector Type INSTORM-CS	28 W/B	Connector Type TKO9MBD-D
		$^{+}$	7
1		┨	6
1	33 35 36 37 38 39		
1	41 42 44 45	Connector No. B512	
-		Connector Name FORWARD SWITCH (DRIVER SIDE)	32 4
		Connector Type S02FW	
B503	la l	4	
DRIVER SEAT CONTROL UNIT	of Wire	修	lal
WINCOUST H	33 R BAT (C/B)	H.S.	of Wire
I H32FW	Y/A		- 4 U/B
	G/W	200	1
	./\	72	
4	39 R/B REAR LIFTING MOTOR (BACKWARD)		
-+	R/W	nal	
19 21 24 29 26 27 28 29 30 31 32	5//k	of Wire	
	42 W SLIDING MOTOR (BACKWARD) 44 P RECLINING MOTOR (BACKWARD)	32 B/W = =	
Color	- 1	┨	
of Wire	<u> </u>		
RX			
CAN-H			
SLIDING LIMIT SW			
BUCKLE SW			
P RANGE SW			
PULSE (RECLINING)			
PULSE (RR LIFTING)			
DECLINING SW (BACKWARD)			
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ecification]	Е
Signal Name [Specification] Sign	F
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Terminal Color 16 Color 16 Color	К
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AUTOMATIC DRIVE POSITIONER Jonnector Name RECLUMING MOTOR (DRIVER SIDE) Jonnector Type 1	M
Name RECLINII Name RECLINII Type NS06FW Name SLIDING Name SLIDING	N
AUTOMA: Connector Name Connector Na	0
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< ECU DIAGNOSIS INFORMATION >

Commence Mo DOL	Т	ヿ	Connector Type TH40FW-CS15	E	1.5. 15 14 13 12 11 10 9 8 7 8 5 4 3 2 1	4645 4443 4241 4039 3837 38 2625 24 5554 53 53 53 48 47 2634		Terminal Color Signal Name [Specification]	T	\dashv	9 (T 0	×	12 L -	13 B -	14 Y	M :	> !	35 V/B	89	9	41 Y –	\dashv	_	> 1	45 P = =	:>	а	w		æ	7	0 8	TO #5	1							
Connecton No		. [Connector Type A08FW	B	Es.	3567214		Terminal Golor Signal Name [Specification]	T	2 Y –	GR	α 0.	- 0 9	7 Р		ı	Connector No. D17	Connector Name DOOR MIRROR REMOTE CONTROL SWITCH	Connector Type TK16FBB				1 2 3 4 7 5 6 7	8 9 10 11 12 13 14 15 16	51 11 01 0		Terminal Color		- · ·	2 Y _	+	+	- FG	+	8 P - [With A/T]	. «	a ex	10 GR -		12 G –	13 W	- ×
_	44 V – – 45 P – –	W	> (48 P – 49 W	SB	52 L = -	Connector No. D3	Connector Name DOOR MIRROR (DRIVER SIDE)	Connector Type TH12MW-NH	á	THAT I	HS.	5 6 7 2 1 4	12 11 10 9 8	2		lal	9	SB - [With automatic drive positioner]	+	SB - N	4 L –		М	S GR	6 BR = [Without automatic drive positioner]	ĺ	L	Ь	10 BR –	+	12 V –										
AUTOMATIC DRIVE POSITIONER	Т	Т	Connector Type TH40FW-CS15	B	1.5. 15 14 13 12 11 10 9 8 7 8 5 4 3 2 1	ر		Terminal Color Signal Name [Specification]	т	۵	5 B - [Except for A/T models with automatic drive positioner]	1	:: 0	- d 6			+	+	14 V		H	20 V –	\dashv	\dashv	+	24 Y = 24 = 24 = 24 = 24 = 24 = 24 = 24	╁	GR	H	29 G –	+	+	32 BR =	30 50	╀	╀	╀	Ľ	40 G –	\dashv	\dashv	40 00

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< ECU DIAGNOSIS INFORMATION >

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< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER Connector No. M1
+
23 BG
+
25 BR
┝
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92 SB
31 %
32 BR
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34 G
+
3/ B = [With automatic drive nositioner
, ,
BR
39 L - [Without automatic drive positioner]
>
BR
4
42 R
5 > 2 P
+
46 BR
H
48 LG
49 P
+
t
Connector No. M6
Gonnector Name WIRE TO WIRE
Connector Type TH80MW-CS16-TM4
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2 H
0 7
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-E
No. of Wire
1 BG

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< ECU DIAGNOSIS INFORMATION >

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Connector Name Wife TO WIFE
Connector Name WIRE TO WIRE
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With BOSE system] With BOSE system] With BOSE system] Libout BOSE system] - [With A-7] - [With A-7] - [With M-7] - [With
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AUTOMATIC DRIVE POSITIONER Connector Name WIRE TO WIRE Connector Type TH80MW-CS16-TM4
WINE TO WINE THEOMY-CSIG-TMA THEOMY-CSIG-TMA Signal Name (Specification) Signal Name (Specification) Signal Controlled seat) - [With climate controlled seat]
NMATIC DRIVE Nichted
Connector Name Color
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< ECU DIAGNOSIS INFORMATION >

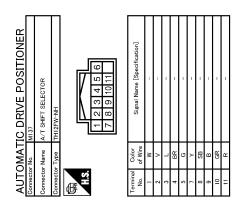
∀	L.	-		-	-	[-	-		
Connector No. M48	leu	Color	Signal Name [Specification]	40 B	GND (SIGNAL)		29	g,	INTAKE SENSOR GROUND	
Connector Name TILT & TELESCOPIC SENSOR	No.	ot Wire	THE THE WORLD	41	GND (SENSOR)	T	09	7 0	IN-VEHICLE SENSOR GROUND	
Connector Type TK04FW	- 0		MIRROR SELECT SW (RH)	+	μ	ABD)	10	۲ W	STINI DAD SENSOR GROUND	
1	1 65	2 6	MIRROR SW (HPWARD)	╀	GND (POWER)		8	3 -	ION CONTROL MODE OLITPLIT SIGNAL	
	4	, >	MIRROR SW (LETWARD)	┨		1	92	g Sg	FCV SIGNAL	
	ł		MIRROR SENSOR (RH VERTICAL)			_	69	-	A/G I AN SIGNAL	
	9	GR	MIRROR SENSOR (LH VERTICAL)	Connector No.	M62		70	~	EACH DOOR MOTOR POWER SUPPLY	
1 3 3 1	7 B	BG	TILT SENSOR		dryst da Hillogio		1.1	æ	GROUND	
1 7 0 +	6	BR	ADDRESS 1	Connector Name			72	Ь	CAN-L	
	. 01	۸	TX (UART)	Connector Type	M02FW-LC					
	11	GR	TELESCOPIC SW (FRONTWARD)	4						
-ea	12 B	BG	IND 1	厚		O	Connector No.		M116	
No. of Wire	13	Д	IND 2	Ě			Connector Name		MIRE TO WIRE	
1 W -	14	W	MIRROR MOTOR (RH VERTICAL)	Ties.	<u> </u>	,				
2 P –	Н	BG	MIRROR MOTOR (RH HORIZONTAL)]	O	Connector Type		TK36MW-NS10	
3 BG -	. 91	٨	MIRROR MOTOR (LH COMMON)		2					
4 Y	17 E	BR	TILT SW (DOWNWARD)				厚			
	18	Ь	MIRROR SELECT SW (LH)				Ę			
	H	SB	MIRROR SW (DOWNWARD)	Terminal Color	Simol Name Saccition	<u> </u>		III I c	colonical and and colonical colonical and	
Connector No. M49	20 E	BR	MIRROR SW (RIGHTWARD)	No. of Wire			_	8 7 8 9 10	21222222222222222222222222222222222222	
OCTOM PIET & TILL TO DECORDED	21	1	MIRROR SENSOR (RH HORIZONTAL)	1 W	1		<u>-1</u>]			
	L	9	MIRROR SENSOR (LH HORIZONTAL)	2 SB	-					
Connector Type NS04FW-CS	H	Ь	TELESCOPIC SENSOR							
	24	~	SET SW				Terminal	Color	3	
	L	>	ADDRESS 2	Connector No.	M67		No.	of Wire	Signal Name [Specification]	
	L	<u>a</u>	RX (UART)		City City Cutture Cutture		2	Α	1	
	27	9	TELESCOPIC SW (BACKWARD)	Connector Name			3	BG	1	
֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞	H	SB	MIRROR MOTOR (RH COMMON)	Connector Type	TH32FW-NH		4	œ	1	
4 3 2 1	┞	U	MIRROR MOTOR (LH VERTICAL)]	5	8	1	
	H	L	MIRROR MOTOR (I H HORIZONTAL)	1			6.	~	1	
	┨	ł				<u> </u>	10	<u>~</u>	1	
Terminal Color				Ź		· [61	BG	1	
_	Connector No.	M52		41 42	43 44 45 46 47 53 54	55 56	20	-	1	
- 5		Т		57 58	59 60 61 62 63 65 66 69 70	71 72	28	æ	1	
2 GB	Connector Name		AUTOMATIC DRIVE POSITIONER CONTROL UNIT				58	5	1	
3 BG	Connector Type	Ť	NS16FW-CS				30	57	1	
- 7		1		Terminal Golor			31	3	1	
	1			_	Signal Name [Specification]	_	14	BG	1	
	ŧ			41 BR	ACC POWER SUPPLY		42	g	1	
Connector No. M51	ē E	22	35 36 7	42 BR	FUE	7	43	۵	1	
г		3 :] :	┝	INTAKE SENSOR SIGNAL		44	_	1	
Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT		40 41	42 44 48	F	IN-VEHICLE SENSOR SIGNAL	_	45	G	1	
Connector Type TH32FW-NH				ŀ	AMBIENT SENSOR SIGNAL		46	>	1	
1				46 BG	SIINI OAD SENSOB SIGNAL			l		
	Terminal	Golor		╀	EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL	ASOR SIGNAL				
		of Wire	Signal Name [Specification]	╀	IGNITION POWER SUPPLY					
	t	BR.	POWER SUPPLY (SENSOR)	F	BATTERY POWER SUPPLY	T				
1 2 3 4 5 6 7 9 10 11 12 13 14 15 16	┞	~	BAT (FUSE)	┝	GROUND					
17 18 19 20 21 22 23 24 25 26 27 30 31 32	32		TILT MOTOR (UPWARD)	┝	CAN-H					
	╀	ű	TELESCOPIC MOTOR (FORWARD)	57 LG	BRAKE FLUID LEVEL SWITCH SIGNAL	IGNAL				
	39	5 8	BAT (C/B)	288	FUEL LEVEL SENSOR SIGNAL GROUND	QNIION				
	┨		(2)(2)	$\frac{1}{2}$						

JCJWM1824GB

< ECU DIAGNOSIS INFORMATION >

	A
No. MI24	В
Commettor P Commet	D
No. M123	E
Connector No. M123	G
No. M122	ADP
Connector No. M122	К
Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] BOWER WINDOW POWER SUPPLY (RAP) POWER WINDOW POWER SUPPLY (RAP) MATIS BOW (BODY CONTROL MODULE) NS 16FW-CS Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] NTEROR LID LOSC OUTPUT ALL DOOR FUEL LID LONG OUTPUT ALL DOOR LINES SIGNAL HI (FRONT) TURN SIGNAL HI (FRONT) TURN SIGNAL HI (FRONT) TURN SIGNAL HI (FRONT) ROOM LAMP TIMER CONTROL	L
Color Name BC Name Name BC Name Na	N
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JCJWM1826GB

Fail Safe

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

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication*1	U1000	With ADP: ADP-48
	CAN communication	01000	Without ADP: ADP-48
Only manual functions operate normally.	Tilt sensor*1	B2118	With ADP: ADP-53
	Tilt sensor	DZ110	Without ADP: ADP-53
	Telescopic sensor	B2119	ADP-56
	Detent switch	B2126	ADP-59
	Parking brake switch	B2127	ADP-61
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-49
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-51

^{*1:} Driver seat without automatic driver positioner system display only "U1000 CAN COMM CIRCUIT" and "B2112 SEAT SLIDE".

DTC Index

CONSULT-III Timing*1				
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT*2	0	1-39	CAN communication	With ADP: ADP-48
[U1000]	0	1-39	CAN communication	Without ADP: ADP-48
SEAT SLIDE*2	0	1-39	Coat alide meter autout	With ADP: ADP-49
[B2112]	0	1-39	Seat slide motor output	Without ADP: ADP-49
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-51
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56
DETENT SW* ² [B2126]	0	1-39	Detention switch condition	<u>ADP-59</u>
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	<u>ADP-61</u>
UART COMM [B2128]	0	1-39	UART communication	ADP-63

^{*1.}

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^{• 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.

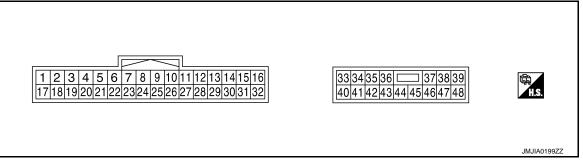
^{*2:} Driver seat without automatic driver positioner system display only "U1000 CAN COMM CIRCUIT" and "B2112 SEAT SLIDE".

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Conditi	on	Voltage (V)
+	_	Signal name	Input/ Output	Conditi	OII	(Approx.)
1	Ground	Tilt switch upward signal	Input	Tilt switch	Operate (upward)	0
(Y)	Ground	Till Switch upward Signal	Шрис	THE SWILCH	Other than above	5
2		Changeover switch RH		Changeover	RH	0
(LG)	Ground	signal	Input	switch position	Neutral or LH	5
3	Ground	Mirror switch upward sig-	Input	Mirror switch	Operated (upward)	0
(G)	Ground	nal	прис	WIIIOI SWILCII	Other than above	5
4	Ground	Mirror switch leftward sig-	Innut	Mirror switch	Operated (leftward)	0
(V)	Ground	nal	Input	WIIIOI SWILCII	Other than above	5
5 (R)	Ground	Door mirror sensor (RH) upward/downward signal	Input	Mirror face (door m	nirror RH)	Change between 3.4 (close to peak) 0.6 (close to valley)
6 (GR)	Ground	Door mirror sensor (LH) upward/downward signal	Input	Mirror face (door m	nirror LH)	Change between 3.4 (close to peak) 0.6 (close to valley)
7 (O)	Ground	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.8 (close to bottom)
0					Press	0
9 (BR)	Ground	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
10 (V)	Ground	UART communication (TX)	Output	Ignition switch ON		2mSec/div

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition	an.	Voltage (V)
+	_	Signal name	Input/ Output	Condition	on	(Approx.)
11	Cround	Telescopic switch forward	lanut	Tologopia puitab	Operate (forward)	0
(GR)	Ground	signal	Input	Telescopic switch	Other than above	5
12					Illuminate	1
(O)	Ground	Memory indictor 1 signal	Output	Memory indictor 1	Other than above	Battery voltage
13					Illuminate	1
(P)	Ground	Memory indictor 2 signal	Output	Memory indictor 2	Other than above	Battery voltage
14	Ground	Door mirror motor (RH)	Output	Door mirror RH	Operate (upward)	Battery voltage
(W)	Ground	upward output	Output	Door million Kin	Other than above	0
15	0	Door mirror motor (RH)	Outrot	Danasiman DII	Operate (leftward)	Battery voltage
(O)	Ground	leftward output	Output	Door mirror RH	Other than above	0
		Door mirror motor (LH)			Operate (down- ward)	Battery voltage
16	Ground	downward output	Output	Door mirror (LH)	Other than above	0
(Y)		Door mirror motor (LH)		,	Operate (rightward)	Battery voltage
		rightward output			Other than above	0
17 (BR)	Ground	Tilt switch downward sig-	Input	Tilt switch	Operate (down- ward)	0
(DIV)		Tidi			Other than above	5
18		Changeover switch LH		Changeover	LH	0
(P)	Ground	signal	Input	switch position	Neutral or RH	5
19 (SB)	Ground	Mirror switch downward signal	Input	Mirror switch	Operate (down- ward)	0
(00)		Signal			Other than above	5
20	Cround	Mirror switch rightward	la must	Mirror ossitale	Operate (rightward)	0
(BR)	Ground	signal	Input	Mirror switch	Other than above	5
21 (L)	Ground	Door mirror sensor (RH) leftward/rightward signal	Input	Door mirror RH pos	sition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
22 (G)	Ground	Door mirror sensor (LH) leftward/rightward signal	Input	Door mirror LH pos	sition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
23 (P)	Ground	Telescopic sensor signal	Input	Telescopic position	ı	Change between 0.8 (close to top) 4.4 (close to bottom)

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Conditio	20	Voltage (V)
+	-	Signal name	Input/ Output	Condition	וונ	(Approx.)
24					Press	0
24 (R)	Ground	Set switch signal	Input	Set switch	Other than above	5
25					Press	0
(LG)	Ground	Memory switch 2 signal	Input	Memory switch 2	Other than above	5
26 (P)	Ground	UART communication (RX)	Input	Ignition switch ON		10mSec/div 2V/div JMJIA0121ZZ
07		Talanania awitah hasik			Operate (backward)	0
27 (G)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Other than above	5
		Door mirror motor (RH) downward output			Operate (down- ward)	Battery voltage
30 (SB)	Ground	downward output	Output	Door mirror (RH)	Other than above	0
(36)		Door mirror motor (RH)			Operate (rightward)	Battery voltage
		rightward output			Other than above	0
31	Ground	Door mirror motor (LH)	Output	Door mirror (LH)	Operate (upward)	Battery voltage
(G)	Giodila	upward output	Output	Door Hillion (EIT)	Other than above	0
32	Ground	Door mirror motor (LH)	Output	Door mirror (LH)	Operate (leftward)	Battery voltage
(L)	Cround	leftward output	Odiput	Door million (Erry	Other than above	0
33 (W)	Ground	Sensor power supply	Input			5
34 (V)	Ground	Power source (Fuse)	Input	_		Battery voltage
35	Ground	Tilt motor upward output	Output	Steering tilt	Operate (upward)	Battery voltage
(L)			2		Other than above	0
36	Ground	Telescopic motor forward	Output	Steering telescop-	Operate (forward)	Battery voltage
(GR)		output signal		ic	Other than above	0
39 (W)	Ground	Power source (C/B)	Input	_		Battery voltage
40 (B)	Ground	Ground	_	_		0

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition	on.	Voltage (V)	
+	_	Signal name	Input/ Output		JII	(Approx.)	
41 (Y)	Ground	Sensor ground	_	_		0	
42 (O)	Ground	Tilt motor downward out-	Output	Steering tilt	Operate (down- ward)	Battery voltage	
(0)		put			Other than above	0	
44	0	4	Telescopic motor back-	Output Steering telescopic	Steering telescon- (ba	Operate (backward)	Battery voltage
(G)	Ground	ward output	Output		Other than above	0	
48 (B)	Ground	Ground	_	_		0	

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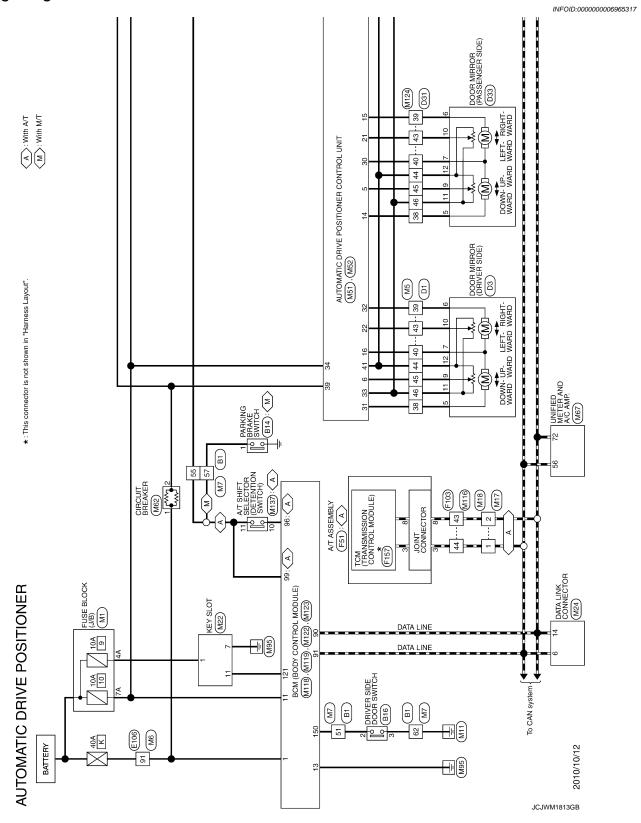
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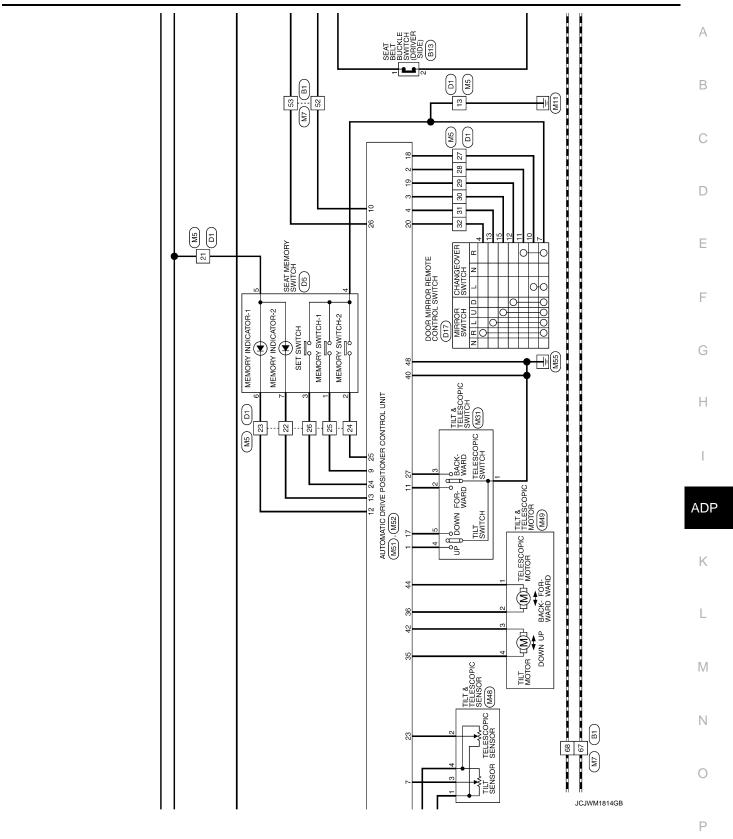
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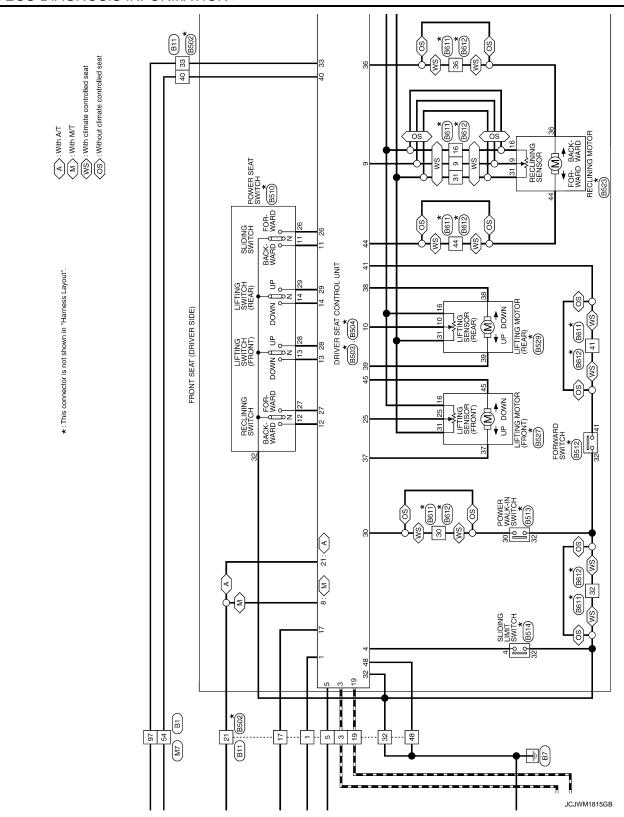
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Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -



< ECU DIAGNOSIS INFORMATION >





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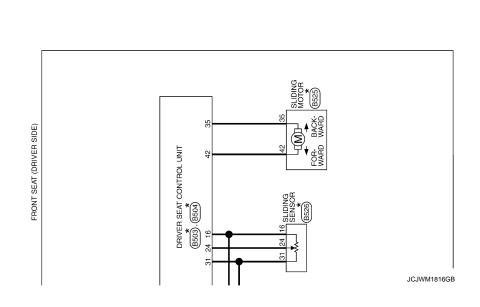
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: This connector is not shown in "Harness Layout".

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< ECU DIAGNOSIS INFORMATION >

AUT	MATIC	AUTOMATIC DRIVE POSITIONER	Ĺ	-			:		
Connector No.	No.		4	+		1	Connector No.	B11	Connector No. B14
Connector Name		WIRE TO WIRE	45	> 3	1		Connector Name	WIRE TO WIRE	Connector Name PARKING BRAKE SWITCH
Connector Type		TH80FW-CS16-TM4	47	Н		1	Connector Type	NS16FW-CS	Connector Type P01FB-A
q.			48	+		- 1000	4		Œ
季			9	2 >	1	- [With BUSE system]	生		A STATE OF THE STA
H.S.	96		209	╀	ļ	- [With BOSE system]	i.S	1 2 10	15.
	8 8		8 8	╀		- [Without BOSE system]		2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	I-
	8		51	╁				60 67 33 21 48 32 66 5 8	3
	S III		52	H					
			53	L		1			
Terminal	Color	i i	54	H		1	Terminal Color		ā
No.	of Wire	oignai Name [opecinication]	52	>		1	No. of Wire	e signal Name [Specification]	No. of Wire Signal Name [Specimeation]
-	W	-	99	W		-	1 G	-	1 V -
2	٦	_	22	^		-	3 L	_	
3	œ	_	28	ч		_	2 ^	_	
4	>	_	09	Н		_	17 LG	_	Connector No. B16
5	W	_	9	Н		_	19 P	_	Connector Name DRIVER SIDE DOOR SWITCH
9	В	-	62	В		1	21 Y		
6	ŋ	1	63	-		1	32 B	1	Connector Type A03FW
10	BR	1	64	۵		1	L	1	
12	SHIELD	1	65	В		1	40 BR	1	
13	¥	1	99	SB		1	48 B	1	
14	7	1	67	Ь		1	9B 09	1	113
15	æ	-	89	L		-	H	-	C
16	W	_	69	Ь		-	67 GR	-	7
17	BR	1	70	_		1			က
20	9	1	80	9		1			
21	SB	1	81	>		1	Connector No.	B13	Terminal Color
22	GR	1	82	~		1		Г	_
23	М	1	83	┝		1	Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	T
24	SB	1	84	┝		1	Connector Type	A03FW	3
25	BR	-	82	1		1			
26	FG	-	98	У		-	修	Ē	
27	У	-	87	GR		1	Ę		
28	æ	1	91	H		1	2	<u>-</u>	
29	^	-	93	58		1		C	
31	SHIELD	_	94	Ь		-		7	
32	9	-	95	GR		1			
33	ď	-	96	Н		-]	
34	BG	-	97	Н		-	lal	Cimal Nama [Spacification]	
35	GR	-	66	Н		-	No. of Wire		
36	BR	-	100	Y/B		-	1 W	-	
37	Д	 [With climate controlled seat] 					2 B	-	
37	- *	 [Without climate controlled seat] 							
		 [With climate controlled seat] 							
88	GR	 [Without climate controlled seat] 							
7	SHELD	-							
41	_	1							
45	۵	1							
┑	SHIELD	1							

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< ECU DIAGNOSIS INFORMATION >

Connector No. BS13	A B C
Connector No. B510	E F G
13 LG/R FRONT LIFTING SW (DOWNWARD) 16	ADP
AUTOMATIC DRIVE POSITIONER	M N O

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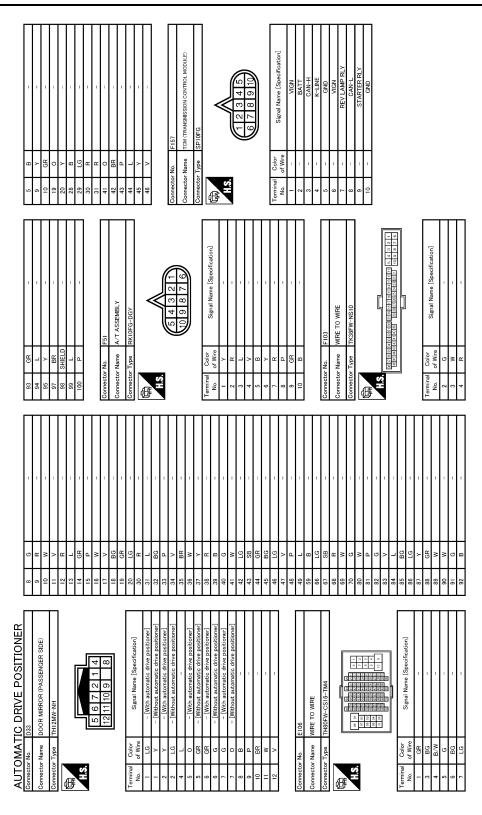
	Connector No.	Connector Name WIRE TO WIRE	Connector Type NS12MBR-CS		H.S.	30 16 31 9 32		Terminal Color Signal Name [Specification]	t	Н	Н	31 GK = =	38	44 P	Н			Connector No. B612	Connector Name WIRE TO WIRE	Connector Type NS12FBR-CS	1	H.S. [36 44 [77] 157 158	9 31 16		Terminal Color Signal Name [Specification]		91	+	31 GR =	H	41 Y/G –	4	
_ <u> </u>	Color Signal Name [Specification] No. of Wire	T	H	31 GR –	Connector No. B527	ē	Connector Type NS06FW-CS	歷	H.S.	16 94 95	[2] [3]		Terminal Color Signal Name [Specification]	+	Н	31 GR –	╁	1	Connector No. B529	9			H.S.	16 31 10		la	of Wire	+	16 0 = =	38 L/7	39 R/B -		
∀[Т	Connector Name RECLINING MOTOR (DRIVER SIDE)	Connector Type NS06FW-CS		H.S.	16 31 9		Terminal Color No. of Wire Signal Name [Specification]	۲	t	GR	36 G/Y = -		Connector No. B525	٩		1	低	HS.	42 35		Terminal Color		42 W -	Connector No. 18526	Γ,		Connector lype 6098-0241	£			24 31 16	10112 tyl

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	Н
Signal Name (Specification) Signal Name (Specification) - [With automatic drive positioner] - [Without automatic drive positioner]	I
D3 DOOR MIRROR (DRIVER SIDE) TH12MW-NH TH12MW-NH TSIGNAL Name [Specifics - [With automatic drive p - [With automatic drive p - [With utunatic drive p - [With utunatic drive p - [With automatic drive p - [With utunatic drive p - [With utunati	ADP
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- [With automatic drive positioner] - [With automatic drive positioner] - [Without but omatic drive positioner]	I
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Signal Name (Specification)	M
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Connector No. M7		4	>	1	Connector No.	M17	M
Connector Name WIRE TO WIRE		45	£ 8		Connector Name	WIRE TO WIRE	6 LG IIL BAI
Connector Type TH80MW-CS16-TM4		47	SB	-	Connector Type	TK02FW	В
[48	<u>ق</u> (4		11 SB KEY SWITCH SIGNAL
		64 6	5 5	- [With BOSE system]	李		
-		£ 6	8 8	- [With BOSE system]	H.S.		Connector No M24
56 05 05 05 05 05 05 05 05 05 05 05 05 05		8 09	3 2	- [Without BOSE system]][-	Т
3 3		19	۳				Connector Name DATA LINK CONNECTOR
2		52	>	1			Connector Type BD16FW
		53	Ь	-			4
lal	-	54	BR	-	Terminal Color	Complete Name Complete State Complet	
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1 BG -		22	BG	- [With M/T]	1	-	
2 LG –		99	_	1	2 P	-	7 2 2
3 G		27	>	1			1 2 3 4 5 6 7 8
		28	۳	-			
\dashv		09	ŋ	1	Connector No.	M18	Į.
- B 9		9	BG	1	Occasion Nome	MIDE TO WIDE	Terminal Color
H		62	В	-	Collinector Marine	WINE TO MINE	No. of Wire olgital reality Lopechication
П		63	^		Connector Type	TK02MW	3 FG -
12 SHIELD -		64	SB	-	4		4 B -
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15 GR -		67	Ь	1	21	<u> </u>	- ^ L
┞		89	٦	1		٥ ۲	. 5
H		69	۵	1		7	-1 SB
20 BR –		70	-	1			14 P
H		80	ŋ	1			
22 R -		8	Ρ	1	Terminal Color		
L		82	>	1	No. of Wire	oignai Name [opecification]	
H		83	BR	1	-	1	Connector No. M31
25 W -		84	۸	-	2 P	1	HOTIMS SIGOSSIST 8 T IIT
26 Y -		82	٦	1			
27 V –		98	Y	-			Connector Type TK06FGY
28 P –		87	GR	-	Connector No.	M22	ď
29 V –		16	Я	-	N	TO 13 XEX	19
31 SHIELD -		93	9	1	Connector Name	NET SECT	
32 G -		94	۵	1	Connector Type	TH12FW-NH	
33 R -		98	GR	1			7 7 7
L		96	>	-	B		1
GR		6	SB	1	Ę	[
36 BR -		66	>	-	2		
37 P – [With climate controlled seat]	eat]	100	Y/B	-		1 2 3 5 6	lal
_	seat					7 11	ī.
>	eat]						- B
7	seat				L		GR
SHIELD					je j	Signal Name [Specification]	9
7					No. of Wire	7	>
42 P –	T				>	BAT	5 BR –
43 SHIELD -	7				2 GR	CLOCK	

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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NO N		А
INTAKE SENSOR GROUND IN-VEHICLE SENSOR GROUND AMBIENT SENSOR GROUND SINL, DAL SENSOR GROUND ION CONTROL MODE OUTPUT SIGNAL ACL LAN SIGNAL ACL LAN SIGNAL CAN-L CAN-L Signal Name [Specification] Signal Name [Specification]		В
		С
Connector No. Connector No		D
SOR) WINNINARD) FER) S (BACKWARD) FER) AMP. S AMP. S AMP. S AMP. S AMP. S AMP. S S S S S S S S S S S S S S S S S S S		Е
CAND (SIGNAL) CAND (SENSOR) TILT MOTOR (DOWNWARD) TILESCOPIC MOTOR (BACKWARD) GNID (POWER) MOZ CIRCUIT BREAKER MOZFW-LC MASPW-LC INTRES BROOF SIGNAL INTARE SENSOR SIGNAL INTARE SENSOR SIGNAL SIGNAL AMBIENT SENSOR SIGNAL INTARE SENSOR SIGNAL INTARE SENSOR SIGNAL INTARE SENSOR SIGNAL INTARE SENSOR SIGNAL RAMBIENT SENSOR SIGNAL BATTERY POWER SUPPLY GROUND GAN-H BRAKE FLUID LEVEL SENSOR SIGNAL GAN-H GROUND GAN-H BRAKE FLUID LEVEL SENSOR SIGNAL BRAKE SIGNAL BRAKE		F
1 Y 1 1 1 1 1 1 1 1		G
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Signal Name [Specification] MIRROR SWI (LEPWARD) MIRROR SWI (LEFWARD) MIRROR SWI (LEFWARD) MIRROR SENSOR (HA VERTICAL) MIRROR SENSOR (LH VERTICAL) MIRROR SENSOR (LH VERTICAL) MIRROR SENSOR (LH VERTICAL) MIRROR MOTOR (RH VERTICAL) MIRROR MOTOR (RH HORIZONTAL) MIRROR SENSOR (LH HORIZONTAL) MIRROR MOTOR (LH HORIZONTAL)		I
NITESON NITE		ADP
Terminal Codor No. of Wine 1		K
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AUTOMAT Connector Name Conne		0
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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AUTOMATIC DRIVE POSITIONER										
Connector No. M118	Connector No.	П	M122	Connector No.	Н	M123	Conne	Connector No.	M124	
Connector Name BCM (BODY CONTROL MODULE)	Connector Name		BCM (BODY CONTROL MODULE)	Connector Name		BCM (BODY CONTROL MODULE)	Conne	Connector Name	WIRE TO WIRE	
Connector Type M03FB-LC	Connector Type	П	TH40FB-NH	Connector Type	Ħ	TH40FG-NH	Conne	Connector Type	TH40MW-CS15	
#\$ 	H.S.	91 90 98 98		H.S.	131 130 133 138 151 150 149 148		售	H.S. 1 2 3 16171819	2 3 4 5 6 7 8 9 10 11 12 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 13 14 15 14 15 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	
Terminal Golor Signal Name [Specification] No. of Wire	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	nal Color of Wire	Signal Name [Specification]	
1 W BAT (F/L)	72	œ	ROOM ANT 2-	112	æ	RAIN SENSOR SERIAL LINK	9	BG	t	
2 Y POWER WINDOW POWER SUPPLY (BAT)	73	9	ROOM ANT 2+	113	5	OPTICAL SENSOR	7	æ	1	
3 BG POWER WINDOW POWER SUPPLY (RAP)	74	SB	PASSENGER DOOR ANT-	114	œ	CLUTCH INTERLOCK SW	ω	g	I	
	75	BR	PASSENGER DOOR ANT+	116	SB	STOP LAMP SW 1	o	۵		
-	9/	>	DRIVER DOOR ANT-	118	æ	STOP LAMP SW 2	유	+	1	
Connector No. M119	77	<u>5</u>	DRIVER DOOR ANT+	119	g	DR DOOR UNLOCK SENSOR	=	SB	- [With BOSE system]	
Connector Name BCM (BODY CONTROL MODULE)	78	>	ROOM ANT 1-	121	SS BS	KEY SLOT SW	=	æ	 [Without BOSE system] 	
Т	79	E E	ROOM ANT 1+	123	*	IGN F/B	12	BR	1	
Connector Type NS16FW-CS	80	æ	NATS ANTENNA AMP.	124	BG	PASSENGER DOOR SW	2	+	1	
₫.	81	> 4	NATS ANTENNA AMP.	129	BG	TRUNK LID OPENER CANCEL SW	4	+	1	
- -	82	r	IGN RELAY (F/B) CONI	132	9	P/W SW & RHI G/U COMM	2	M	1	
	83	> >	KEYLESS ENTRY RECEIVER COMM	133	> 2	PUSH-BUTTON IGNITION SWILL POWER	34	> 5	1	
6 / 1 8 9	600	- 6	COMBI SW INFOL 3	10.	2 6	DECENZED / SENSOD OND	S &	9 %	1 1	
11 12 13 14 15 16 17 18 19	8 8	2 6	S IO-INI OM IO-IO-IO	2 5	2 >	PLOTIVED / SENSON GIVE	9 6	S	ı	
	60	ă o	POST SW	130	-	TIPE DESCRIPE BECENTED COMM	8 8	2 8	1 1	
	6	†-	H-NAC	140	a e	SHIET N/P	5 4	G BB	- [With automatic drive positioner]	
Terminal	60	٢	KEY SLOT II.	141	6	SECHRITY INDICATOR I AMP	4	í	- [Without automatic drive positioner]	
	93	} >	dNI NO	142	: H	COMBI SW OUTPUT 5	42	5 ec	-	
4 LG INTERIOR ROOM LAMP POWER SUPPLY	92	BG	ACC RELAY CONT	143	>	COMBI SW OUTPUT 1	43	7	ı	
5 P PASSENGER DOOR UNLOCK OUTPUT	96	GR	A/T SHIFT SELECTOR POWER SUPPLY	144	9	COMBI SW OUTPUT 2	44	У	-	
7 SB STEP LAMP	97	٦	S/L CONDITION 1	145	٦	COMBI SW OUTPUT 3	45	ч	_	
>	86	SB	S/L CONDITION 2	146	SB	COMBI SW OUTPUT 4	46	_	I	
DRIVER DOOR,	66	œ	ASCD CLUTCH SW [With M/T]	150	œ	DRIVER DOOR SW	47	SB	I	
GR BA	66	œ	SHIFT P [With A/T]	151	5	REAR WINDOW DEFOGGER RELAY CONT	48	æ	T	
13 B GND	001	>	PASSENGER DOOR REQUEST SW				49	>	I	
W PUSH-BUTTO	101	۵ ۵	DRIVER DOOR REQUEST SW				20	+	1	
55	102	1	BLOWER FAN MOTOR RELAY CONT				ō	5	ı	
17 BR TURN SIGNAL RH (FRONT)	203	Ť	KEYLESS ENTRY RECEIVER POWER SUPPLY				52	Sg >	1	
	9 5	\$ 4	S/L DINIT POWER SUPPLY				3 5	-	n	
- - -	6 6	3 0	COMBI SW INFOLL				5 12	-	1 1	
	601	: >	COMBI SW INPUT 2							
	110	ŋ	HAZARD SW							
	111	>	S/L UNIT COMM							

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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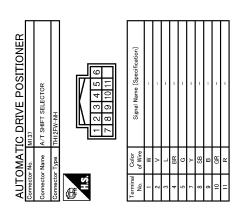
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< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status				
FR WIPER HI	Other than front wiper switch HI	Off				
FR WIPER III	Front wiper switch HI	On				
FR WIPER LOW	Other than front wiper switch LO	Off				
FR WIFER LOW	Front wiper switch LO	On				
ED MACHED CW	Front washer switch OFF	Off				
FR WASHER SW	Front washer switch ON	On				
ED WIDED INT	Other than front wiper switch INT/AUTO	Off				
FR WIPER INT	Front wiper switch INT/AUTO	On				
ED WIDED STOD	Front wiper is not in STOP position	Off				
FR WIPER STOP	Front wiper is in STOP position	On				
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi tion				
TUDN CICNAL D	Other than turn signal switch RH	Off				
TURN SIGNAL R	Turn signal switch RH	On				
TURN SIGNAL L	Other than turn signal switch LH	Off				
TURN SIGNAL L	Turn signal switch LH	On				
TAIL LAMD CW	Other than lighting switch 1ST and 2ND	Off				
TAIL LAMP SW	Lighting switch 1ST or 2ND	On				
LILDEAN CVA	Other than lighting switch HI	Off				
HI BEAM SW	Lighting switch HI	On				
LIEAD LAMB OWA	Other than lighting switch 2ND	Off				
HEAD LAMP SW 1	Lighting switch 2ND	On				
LIEAD LAMB OW	Off					
HEAD LAMP SW 2	EAD LAMP SW 2 Other than lighting switch 2ND Lighting switch 2ND					
DACCING CV	Other than lighting switch PASS	Off				
PASSING SW	Lighting switch PASS	On				
ALITO LIQUIT OW	Other than lighting switch AUTO	Off				
AUTO LIGHT SW	Lighting switch AUTO	On				
ED EOO 0W	Front fog lamp switch OFF	Off				
FR FOG SW	Front fog lamp switch ON	On				
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off				
DOOR SW-DR	Driver door closed	Off				
DOOK SW-DK	Driver door opened	On				
DOOR SW AS	Passenger door closed	Off				
DOOR SW-AS	Passenger door opened	On				
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off				
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off				

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	_
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off	
SDL LOCK SW	Other than power door lock switch LOCK	Off	_
CDL LOCK SW	Power door lock switch LOCK	On	_
	Other than power door lock switch UNLOCK	Off	 ,
DL UNLOCK SW	Power door lock switch UNLOCK	On	
EY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	-
EY CYL LK-SVV	Driver door key cylinder LOCK position	On	
EV CVI LINI CW	Other than driver door key cylinder UNLOCK position	Off	
EY CYL UN-SW	Driver door key cylinder UNLOCK position	On	
EY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	_
IAZARD SW	Hazard switch is OFF	Off	
IAZARD SW	Hazard switch is ON	On	
EAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	
I/L WASH SW	NOTE: The item is indicated, but not monitored.	Off	
R CANCEL SW	Trunk lid opener cancel switch OFF	Off	
IN CANCEL 3W	Trunk lid opener cancel switch ON	On	
R/BD OPEN SW	Trunk lid opener switch OFF	Off	_
R/BD OPEN 5W	While the trunk lid opener switch is turned ON	On	
	Off	-	
RNK/HAT MNTR	On	_	
KE LOOK	LOCK button of the Intelligent Key is not pressed	Off	P
KE-LOCK	LOCK button of the Intelligent Key is pressed	On	
KE LINII OOK	UNLOCK button of the Intelligent Key is not pressed	Off	_
KE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On	_
VE TD/DD	TRUNK OPEN button of the Intelligent Key is not pressed	Off	=
KE-TR/BD	TRUNK OPEN button of the Intelligent Key is pressed	On	_
	PANIC button of the Intelligent Key is not pressed	Off	=
KE-PANIC	PANIC button of the Intelligent Key is pressed	On	=
	UNLOCK button of the Intelligent Key is not pressed	Off	=
KE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On	_
KE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off	
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On	_
ADTION OFNOOD	Bright outside of the vehicle	Close to 5 V	_
PTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	_
50 0W 55	Driver door request switch is not pressed	Off	_
EQ SW -DR	Driver door request switch is pressed	On	_
	Passenger door request switch is not pressed	Off	_
REQ SW -AS	Passenger door request switch is pressed	On	_
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	_
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	<u> </u>

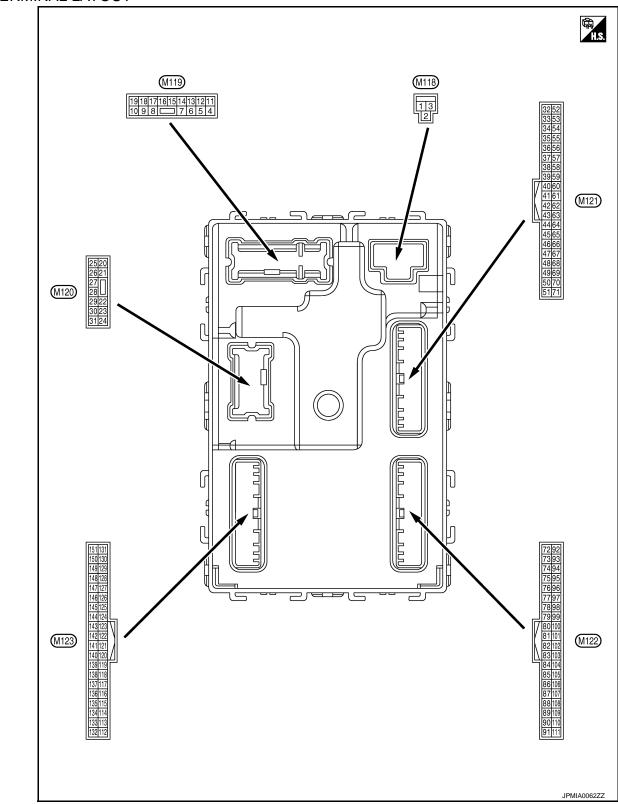
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Monitor Item	Condition	Value/Status
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off
INEQ 3W -DD/TIN	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
FU3H 3W	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
IGN KL12 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	The clutch pedal is not depressed	Off
CLOCH 3W	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DDAKE OW O	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANOL CVA	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off
DETE/CANCL SW	Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models)	On
OFT DAI/ALOVA/	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit, this tem is not monitored.	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
NOTE: For models without steering lock unit, this item is not monitored.	Ignition switch in ON position	On
UNLK SEN -DR	Driver door is unlocked	Off
OHER GEN -DIX	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
OOLLOW -IE DIM	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
DETE OVV TEDIVI	Selector lever in P position	On
SET DN JDDM	Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models)	Off
SFT PN -IPDM	Selector lever in P or N position The clutch pedal is depressed	On
CET D MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On

Monitor Item	Condition	Value/Status
SFT N -MET	Selector lever in any position other than N	Off
I IN -IVI⊏I	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
INGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without teering lock unit, this tem is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this stem is not monitored.	Steering is unlocked	On
I/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
or models without teering lock unit, this em is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
'EH SPEED 1	While driving	Equivalent to speed- ometer reading
'EH SPEED 2	While driving	Equivalent to speed- ometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
OOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
O OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch ON	Set
DMT ENO OTET	The engine start is prohibited	Reset
RMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
YEV CW CLOT	The Intelligent Key is not inserted into key slot	Off
EY SW -SLOT	The Intelligent Key is inserted into key slot	On
KE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
KE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONEDM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM 1D4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CON INWIDO	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONTINUIDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
COM INWIEL	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
11 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
IF 3	The ID of third Intelligent Key is registered to BCM	Done
TD 0	The ID of second Intelligent Key is not registered to BCM	Yet
TP 2	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
IPI	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
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
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGOTTET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI I RI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGST KKT	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
VAVA DALINIO L'ARAD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

Α

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Р

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch (OFF	12 V
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch (NC	12 V
					mp battery saver is activated. or room lamp power supply)	0 V
4 (LG)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V
7 (SB)	Ground	Step lamp	Output	Step lamp	ON	0 V
(00)					OFF LOCK	12 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	(Actuator is activated) Other than LOCK	0 V
					(Actuator is not activated)	0 0
9	Ground	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (GR)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V
					OFF	0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position.
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	JSNIA0010GB Battery voltage
(30)					ACC	0 V

	nal No.	Description						Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)		
17 (BR)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V		
					Turn signal switch OFF	6.5 V 0 V		
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKID0926E 6.5 V		
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF ON	12 V 0 V		
(*)		Control		idii p	Turn signal switch OFF	0 V		
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V		
23	Crownd	To tak lid on on	Output	Tought	OPEN (Trunk lid opener actuator is activated)	12 V		
(Y)	Ground	Trunk lid open	Trunk lid open	Output	Trunk lid	Other than OPEN (Trunk lid opener actuator is not activated)	0 V	
					Turn signal switch OFF	0 V		
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s		
30				Trunk room	ON	6.5 V 0 V		
30	Ground	Trunk room lamp	Output	lamp	OFF	12 V		

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
34		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 S S S S S S S S S
(SB)	Ground	(-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
35	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(V)	Sissans	(+)	Supu	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
38	Ground	Rear bumper anten-	Output	When the trunk lid opener re- quest switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(B)	Glound	na (–)	Output	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No. color)	Description			O Pri	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
39		Rear bumper anten-		When the trunk lid opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(W)	Ground	na (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V	
50 (G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	P
					ON (Trunk lid is opened)	0 V	
				Ignition switch ON (A/T mod- els)	When selector lever is in P or N position When selector lever is not	12 V 0 V	
52 (BR)	Ground	Starter relay control	Output -	Ignition switch	in P or N position When the clutch pedal is depressed	Battery voltage	
				ON (M/T mod- els)	When the clutch pedal is not depressed	0 V	
60* ¹		Push-button ignition		Push-button ig-	Pressed	0 V	
(BR)	Ground	switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage	
					ON (Pressed)	0 V	
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 10 ms JPMIA0016GB 1.0 V	
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V	
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V	

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Not pressed	0 V (V) 15 10 5 0 JPMIA0011GB 11.8 V
72	Ground	Room antenna 2 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)		(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(G)	Giouna	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description	T.			Value	А
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)	^
74	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	С
(SB)	Glound	tenna (–)	Output	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E F
75	Ground	When the passenger door an-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	G H I		
(BR)	Clound	tenna (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	ADP K
76	Constant	Driver door antenna	0.4-14	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(V)	Ground	(-)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	O P

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
77		Driver door antenna		When the driv- er door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
78	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(BR)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
Remote keyless entry		Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
83 (Y) Groun	Ground	receiver communication	Output	When operating gent Key	g either button on the Intelli-	(V) 15 10 5 1 ms JMKIA0065GB
87 (Y) Ground		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
	Ground				Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0041GB 1.4 V
88	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
(BG)					Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89* ²	Crownd	Push-button ignition	lanut	Push-button ig- nition switch	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	(push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 JPMIA0015GB
					ON	6.5 V 12 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V)		·	·		ON	0 V
95	0	100	0 1 1	1	OFF	0 V
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97* ²	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Cround	tion No. 1	mpat	Olooning look	UNLOCK status	12 V
98* ²	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(SB)	Giodila	tion No. 2	iliput	Steering lock	UNLOCK status	0 V
		Selector lever P posi-		Selector lever	P position	0 V
		tion switch		Selector lever	Any position other than P	12 V
		ASCD clutch switch (M/T models without	Input	ASCD clutch switch	OFF (Clutch pedal is depressed)	0 V
99 (R)	Ground	ICC)			ON (Clutch pedal is not depressed)	12 V
		ICC clutch switch (M/		ICC clutch	OFF (Clutch pedal is depressed)	0 V
		T models with ICC)		switch	ON (Clutch pedal is not depressed)	12 V
				ON (Pressed)	0 V	
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(BG)	O. Sana	lay control	- Cuiput	.go ownor	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V
106* ² Ground		Steering lock unit	0	Innitian at 101	OFF or ACC	12 V
	power supply	Output	Ignition switch	ON	0 V	

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
	Ground				Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)					Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	Description				Value	
color)	Signal name	Input/ Output		Condition	Value (Approx.)	
				All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
	Combination switch		Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
O8 R) Ground Combination switch INPUT 4	Input	switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0036GB 1.3 V		
				Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB	
	-	Signal name Cround Combination switch	Signal name Output Cround Combination switch Input	Signal name Output Cround Combination switch Input Combination	Ground Combination switch INPUT 4 Combination switch Input Input Switch Combination switch Input Inp	

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	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	All switches OFF	(V) 15 10 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
109 (W)	Ground				Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT/ AUTO	(V) 15 10 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 JPMIA0012GB 1.1 V

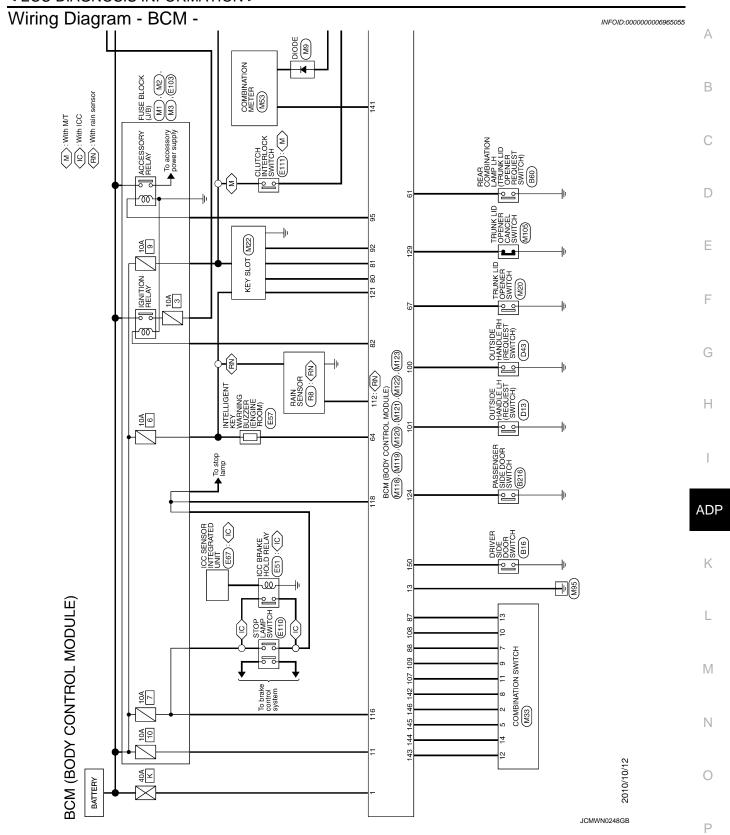
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* ² Gro	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (BR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 JPMIA0156GB
113 (G)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle When dark outside of the	8.7 V Close to 5 V Close to 0 V
114 (R)	Ground	Clutch interlock	Input	Clutch interlock switch	vehicle OFF (Clutch pedal is not depressed) ON (Clutch pedal is de-	0 V
()				• · · · · · · · · · · · · · · · · · · ·	pressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	Input	switch	ON (Brake pedal is depressed)	Battery voltage
(BR)	Ground	Stop lamp switch 2	iiiput		h OFF (Brake pedal is not ICC brake hold relay OFF	0 V
		(With ICC)			h ON (Brake pedal is de- brake hold relay ON	Battery voltage
119 (GR)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V

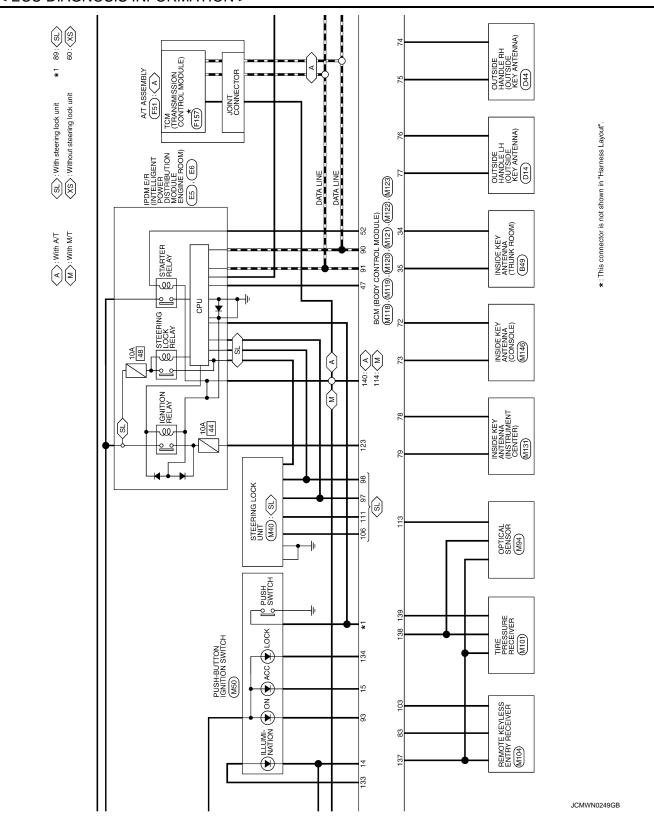
	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
121	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V
(SB)				When the Intellig	gent Key is not inserted into	0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V Battery voltage
124 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					ON	0 V
132 (LG)	Ground	Power window switch and R.H.T. control unit communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
					ON (Tail lamps OFF)	9.5 V
133 (Y)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF ON	Battery voltage 0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C		0 V

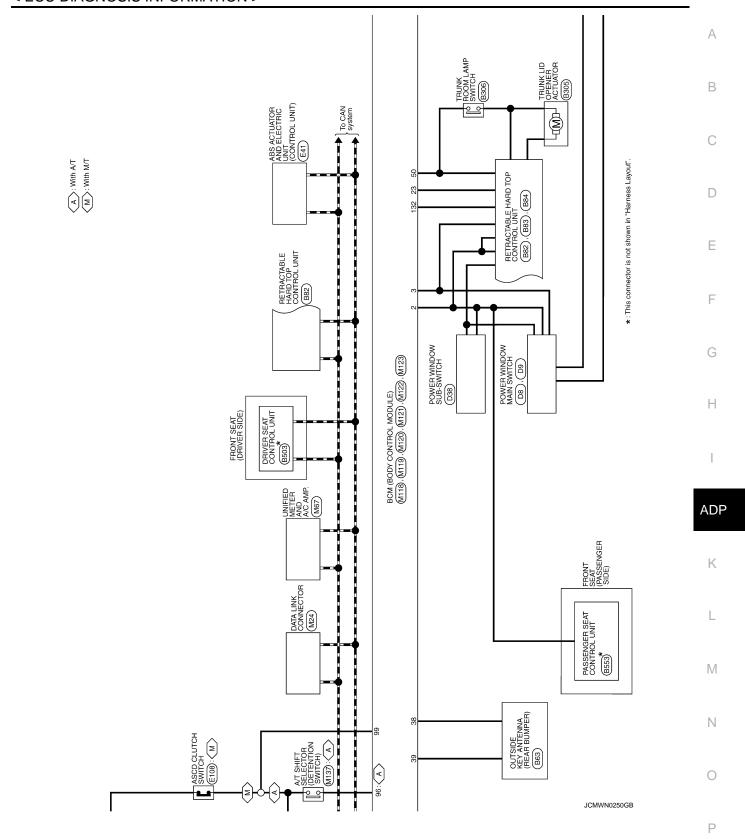
	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
138		Receiver and sensor			OFF	0 V
(Y)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D
(L)	Glound	er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(GR)	Cround	position (A/T models)	mput	30.00.01 10 101	Except P and N positions ON	0 V 0 V
141 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 1 s 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF Lighting switch 1ST Lighting switch HI	0 V
142		Combination switch		Combination switch	Lighting switch 2ND	15
(BR)	Ground	OUTPUT 5	Output	(Wiper volume dial 4)	Turn signal switch RH	5 0 2 ms JPMIA0031GB 10.7 V
					All switches OFF (Wiper volume dial 4)	0 V
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Front wiper switch HI (Wiper volume dial 4) Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB

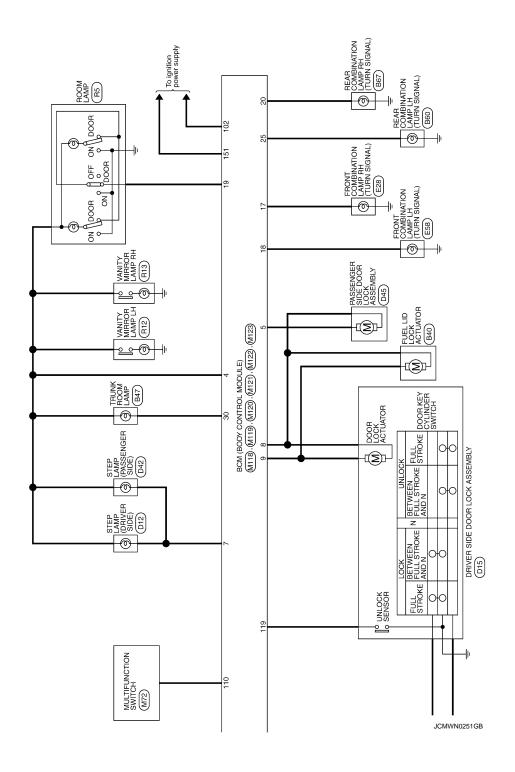
	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	Front wiper switch LO	15
(L)					Lighting switch AUTO	2 ms JPMIA0034GB
				Combination	All switches OFF	0 V
					Front fog lamp switch ON	
					Lighting switch 2ND	(V) 15
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)	0.00	OUTPUT 4	Output	(Wiper volume dial 4)	Turn signal switch LH	0 2 ms JPMIA0035GB
150 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	2.34.14	ger relay control	Carpat	defogger	Not activated	Battery voltage

^{*1:} Without steering lock unit *2: With steering lock unit





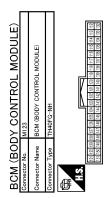




< ECU DIAGNOSIS INFORMATION >

COMMM W/T] SST SW SSW FR SUPPLY LY CONT LY CON	А
COMBI SW INPUT 5 COMBI SW INPUT 5 COMBI SW INPUT 5 COMBI SW INPUT 6 CAN-L CAN-L CAN-L CAN-L CAN-L CAN-H KEY SLOT ILL OH 100 ACC EBLECTOR POWER SUPPLY S.L CONDITION 7 S.L CONDITION 7 S.L CONDITION 8 ELOWER PAN MONT 1 PASSENGER BOOR REQUEST SW BLOWER PAN MONT 8 ELOWER PAN MONT 8 COMBI SW INPUT 2 COMBI SW INPUT 3 CO	В
N	С
88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	D
MODULE)	Е
FOY-NH FOOM FOY-NH FOY-	F
Connector No. MI2	G
	Н
Signal Name [Specification] TURN SIGNAL LH (FRONT) TURN SIGNAL LH	1
Signal Name [Specification TUBN SIGNAL LH (FERD) TUBN SIGNAL LH (FEAD)	ADP
Connector No. M Connector No. M Connector Name B M M M M M M M M M	К
nol	L
Y CONTROL MODULE) M33 COMBINATION SWITCH THISPW-NH 1 2 3 1 4 5 6 7 8 9 10 111 12 13 14	M
	N
Connector Name Conn	0
	MWN0252GB

Revision: 2011 December ADP-211 2011 G Convertible



Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	5	OPTICAL SENSOR
114	æ	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	Μ	IGN F/B
124	ВB	PASSENGER DOOR SW
129	ВB	TRUNK LID OPENER CANCEL SW
132	57	P/W SW & RHT C/U COMM
133	Å	PUSH-BUTTON IGNITION SW ILL POWER
134	PC	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Υ	RECEIVER / SENSOR POWER SUPPLY
139	7	TIRE PRESSURE RECEIVER COMM
140	ВD	SHIFT N/P
141	ч	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	^	COMBI SW OUTPUT 1
144	5	COMBI SW OUTPUT 2
145	7	COMBI SW OUTPUT 3
146	as	COMBI SW OUTPUT 4
150	٣	DRIVER DOOR SW
151	5	REAR WINDOW DEFOGGER RELAY CONT

JCMWN0253GB

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation	A
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	Е
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	(
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms	[
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal	[
B2601: SHIFT POSITION	Inhibit steering lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN) 	
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are ful- filled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (12 V) Vehicle speed: 4 km/h (2.5 MPH) or more	(
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (12 V) Selector lever P/N position signal: Except P and N positions (0 V) 	
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (12 V) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF	A
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) Interlock/PNP switch signal (CAN): OFF Status 2 Ignition switch is in the ON position Selector lever P/N position signal: P or N position (12 V) PNP switch signal (CAN): ON	1
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)	,
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)	

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< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
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)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (12 V) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (12 V)

DTC Inspection Priority Chart

INFOID:0000000006965057

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	B2013: ID DISCORD BCM-S/L	
	B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY	
	B2555: STOP LAMP	
	B2556: PUSH-BTN IGN SW	
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY	
	B2601: SHIFT POSITION	
	B2602: SHIFT POSITION B2603: SHIFT POSI STATUS	
	B2604: PNP/CLUTCH SW	
	B2605: PNP/CLUTCH SW	
	• B2606: S/L RELAY	
	• B2607: S/L RELAY	
	B2608: STARTER RELAY B2608: Q# QTATUS B2608: STARTER RELAY	
	B2609: S/L STATUS B260A: IGNITION RELAY	
4	B260B: STEERING LOCK UNIT	
	B260C: STEERING LOCK UNIT	
	B260D: STEERING LOCK UNIT	
	B260F: ENG STATE SIG LOST B260F: ENG STATE	
	• B2612: S/L STATUS	
	B2614: BCM B2615: BCM	
	• B2616: BCM	
	• B2617: BCMC	
	• B2618: BCM	
	B2619: BCM B261A: BUSH BTN ICN SW	
	B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE	
	B26E8: CLUTCH SW	
	B26E9: S/L STATUS	
	B26EA: KEY REGISTRATION	
	C1729: VHCL SPEED SIG ERR LIGATE: VEHICLE SPEED	
	U0415: VEHICLE SPEED	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	
	C1708: [NO DATA] FL	
E	 C1709: [NO DATA] FR C1710: [NO DATA] RR 	
5	• C1710. [NO DATA] RK • C1711: [NO DATA] RL	
	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	
	C1719: [PRESSDATA ERR] RL C1734: CONTROL LINIT.	
	C1734: CONTROL UNIT D2004: INCIDE ANTENNA	
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA	
U	B2623: INSIDE ANTENNA B2623: INSIDE ANTENNA	

DTC Index

INFOID:0000000006965058

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NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-16</u>, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-35
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-36
U0415: VEHICLE SPEED	_	_	_	_	BCS-37
B2013: ID DISCORD BCM-S/L*	×	×	_	_	SEC-49
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-50
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-41
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-44
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-45
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-47
B2195: ANTI-SCANNING	×	_	_	_	SEC-48
B2553: IGNITION RELAY	_	×	_	_	PCS-49
B2555: STOP LAMP	_	×	_	_	SEC-53
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-55</u>
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-57</u>
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-58</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-38
B2601: SHIFT POSITION	×	×	×	_	SEC-59
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-62</u>
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-64
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-67
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-69
B2606: S/L RELAY*	×	×	×	_	<u>SEC-71</u>
B2607: S/L RELAY*	×	×	×	_	<u>SEC-72</u>
B2608: STARTER RELAY	×	×	×	_	<u>SEC-74</u>
B2609: S/L STATUS*	×	×	×	_	<u>SEC-76</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-51
B260B: STEERING LOCK UNIT*	_	×	×	_	<u>SEC-80</u>
B260C: STEERING LOCK UNIT*	_	×	×	_	<u>SEC-81</u>
B260D: STEERING LOCK UNIT*	_	×	×	_	SEC-82
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-83
B2612: S/L STATUS*	×	×	×	_	SEC-88
B2614: BCM	_	×	×	_	PCS-53
B2615: BCM	_	×	×	_	PCS-56
B2616: BCM	_	×	×	_	PCS-59
B2617: BCM	×	×	×	_	<u>SEC-92</u>
B2618: BCM	×	×	×	_	PCS-62
B2619: BCM*	×	×	×	_	SEC-94
B261A: PUSH-BTN IGN SW	_	×	×	-	PCS-63
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-95</u>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2621: INSIDE ANTENNA		×			DLK-62
B2622: INSIDE ANTENNA		×	_	_	DLK-64
B2623: INSIDE ANTENNA		×		_	DLK-66
B26E8: CLUTCH SW	×	×	×	_	SEC-84
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-86</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-87
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_ '	×	WIT 24
C1706: LOW PRESSURE RR	_	_	_ '	×	<u>WT-24</u>
C1707: LOW PRESSURE RL	_	_	_ '	×	1
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_ '	×	WT 26
C1710: [NO DATA] RR	_	_	_ '	×	<u>WT-26</u>
C1711: [NO DATA] RL	_	_	_ '	×	1
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	- VAT 20
C1718: [PRESSDATA ERR] RR	_	_	_ '	×	<u>WT-29</u>
C1719: [PRESSDATA ERR] RL	_	_	_ '	×	1
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-31</u>

^{*:} For models without steering lock unit, this DTC is not applied.

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< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT: Description

INFOID:0000000006471628

All functions do not operate when manually operated.(power seat, tilt & telescopic, and door mirror.

ALL COMPONENT : Diagnosis Procedure

INFOID:0000000006471629

1. CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check driver seat control unit power supply and ground circuit.

Refer to ADP-64, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit.

Refer to ADP-65, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

POWER SEAT

POWER SEAT: Description

INFOID:0000000006471630

Power seat does not operate when manually operated.

POWER SEAT: Diagnosis Procedure

INFOID:0000000006471631

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to ADP-95, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

STEERING POSITION FUNCTION DOES NOT OPERATE

STEERING POSITION FUNCTION DOES NOT OPERATE: Description INFOID:000000006471632

Tilt & telescopic do not operate when manually operated.

< SYMPTOM DIAGNOSIS >

STEERING POSITION FUNCTION DOES NOT OPERATE: Diagno	osis Procedure
1. CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT	
Check tilt & telescopic switch ground circuit.	
Refer to ADP-96. "Diagnosis Procedure". Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace harness or connector.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1.	
SEAT SLIDING	
SEAT SLIDING : Description	INFOID:000000006471634
Seat sliding alone does not operate when manually operated.	
SEAT SLIDING : Diagnosis Procedure	INFOID:0000000006471635
1. CHECK SLIDING MECHANISM	
Check for the following.	
 Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. 	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CHECK SLIDING SWITCH	
Check sliding switch.	
Refer to ADP-67, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3.CHECK SLIDING MOTOR	
Check sliding motor.	
Refer to ADP-120, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	
SEAT RECLINING	
SEAT RECLINING : Description	INFOID:000000006471636
Seat reclining only does not operate when manually operated.	
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< SYMPTOM DIAGNOSIS >

SEAT RECLINING: Diagnosis Procedure

INFOID:0000000006471637

1. CHECK RECLINING MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.check reclining switch

Check reclining switch.

Refer to ADP-100, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK RECLINING MOTOR

Check reclining motor.

Refer to ADP-122, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT LIFTING (FRONT)

SEAT LIFTING (FRONT): Description

INFOID:0000000006471638

Seat lifting (front) only does not operate when manually operated.

SEAT LIFTING (FRONT): Diagnosis Procedure

INFOID:0000000006471639

1. CHECK LIFTING (FRONT) MECHANISM

Check for the following.

- · Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to ADP-124, "Component Function Check".

Is the inspection result normal?

< SYMPTOM DIAGNOSIS >		
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.		Λ
NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION		Α
Check the operation again.		
Is the result normal?		В
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.		
NO >> GO TO 1. SEAT LIFTING (REAR)		С
SEAT LIFTING (REAR) : Description	INFOID:000000006471640	D
Seat lifting (rear) only does not operate when manually operated.		
SEAT LIFTING (REAR) : Diagnosis Procedure	INFOID:000000006471641	Е
1. CHECK LIFTING (REAR) MECHANISM		
Check for the following. • Mechanism deformation or pinched foreign materials.		F
 Interference with other parts because of poor installation. 		
Is the inspection result normal?		G
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.		
2.CHECK LIFTING SWITCH (REAR)		Н
Check lifting switch (rear). Refer to ADP-73, "Component Function Check".		
Is the inspection result normal?		
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.		
3.CHECK LIFTING MOTOR (REAR)	A	ADP
Check lifting motor (rear). Refer to ADP-126, "Component Function Check".		17
Is the inspection result normal?		K
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.		
4.CONFIRM THE OPERATION		L
Check the operation again.		B. //
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".		M
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. STEERING TILT		Ν
STEERING TILT : Description	INFOID:000000006471642	
Steering tilt only does not operate when manually operated.		0
STEERING TILT : Diagnosis Procedure	INFOID:000000006471643	Р
1.CHECK STEERING TILT MECHANISM		T'
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation.		
Is the inspection result normal?		

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YES >> GO TO 2.

< SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunctioning parts.

2.check tilt switch

Check tilt switch.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK TILT MOTOR

Check tilt motor.

Refer to ADP-128, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

STEERING TELESCOPIC

STEERING TELESCOPIC : Description

INFOID:0000000006471644

Steering telescopic only does not operate when manually operated.

STEERING TELESCOPIC: Diagnosis Procedure

INFOID:0000000006471645

1. CHECK STEERING TELESCOPIC MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK TELESCOPIC SWITCH

Check telescopic switch.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK TELESCOPIC MOTOR

Check telescopic motor.

Refer to ADP-130, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

DOOR MIRROR

MANUAL FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	_
DOOR MIRROR : Description	INFOID:0000000006471646
Door mirror does not operate when manually operated.	
DOOR MIRROR : Diagnosis Procedure	INFOID:0000000006471647
1. CHECK DOOR MIRROR MECHANISM	
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation.	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CHECK MIRROR SWITCH	
Check mirror switch.	
Refer to ADP-90, "MIRROR SWITCH: Component Function Check".	
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.check mirror motor	
Check mirror motor. Refer to ADP-132, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1.	

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< SYMPTOM DIAGNOSIS >

MEMORY FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT : Description

INFOID:0000000006471648

All functions do not operate when memory operated. (power seat, tilt & telescopic, and door mirror)

ALL COMPONENT : Diagnosis Procedure

INFOID:0000000006471649

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-218, "ALL COMPONENT : Diagnosis Procedure"

2.perform memory storing procedure

Perform memory storing procedure.

Refer to ADP-10, "MEMORY STORING: Special Repair Requirement".

Is the inspection result normal?

YES >> Memory function is normal.

NO >> GO TO 3.

3. CHECK SEAT MEMORY SWITCH

Check seat memory switch.

Refer to ADP-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat memory switch.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT SLIDING

SEAT SLIDING: Description

INFOID:0000000006471650

Seat sliding only does not operate when memory operated.

SEAT SLIDING : Diagnosis Procedure

INFOID:0000000006471651

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-219, "SEAT SLIDING : Diagnosis Procedure"

2.CHECK SLIDING SENSOR

Check sliding sensor.

Refer to ADP-97, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

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< SYMPTOM DIAGNOSIS >		
Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.		А
SEAT RECLINING		В
SEAT RECLINING : Description	INFOID:0000000006471652	D
Seat reclining only does not operate when memory operated.		С
SEAT RECLINING : Diagnosis Procedure	INFOID:0000000006471653	
1. CHECK MANUAL OPERATION		D
Check manual operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to ADP-220, "SEAT RECLINING: Diagnosis Procedure" 2.CHECK RECLINING SENSOR		E
Check reclining sensor. Refer to ADP-100. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.		G
3.CONFIRM THE OPERATION Check the operation again.		Н
Is the result normal?		
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (FRONT)	ı	A D.D.
NO >> GO TO 1.	INFOID:000000006471654	ADP
NO >> GO TO 1. SEAT LIFTING (FRONT)		ADP K
NO >> GO TO 1. SEAT LIFTING (FRONT) SEAT LIFTING (FRONT): Description Seat lifting (front) only does not operate when memory operated.	INFOID:0000000006471654	
NO >> GO TO 1. SEAT LIFTING (FRONT) SEAT LIFTING (FRONT): Description Seat lifting (front) only does not operate when memory operated. SEAT LIFTING (FRONT): Diagnosis Procedure 1.CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2.	INFOID:0000000006471654	
NO >> GO TO 1. SEAT LIFTING (FRONT) SEAT LIFTING (FRONT): Description Seat lifting (front) only does not operate when memory operated. SEAT LIFTING (FRONT): Diagnosis Procedure 1.CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to ADP-220, "SEAT LIFTING (FRONT): Diagnosis Procedure"	INFOID:0000000006471654	K L M
NO >> GO TO 1. SEAT LIFTING (FRONT) SEAT LIFTING (FRONT): Description Seat lifting (front) only does not operate when memory operated. SEAT LIFTING (FRONT): Diagnosis Procedure 1.CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2.	INFOID:0000000006471654	K L

< SYMPTOM DIAGNOSIS >

SEAT LIFTING (REAR): Description

INFOID:0000000006471656

Seat lifting (rear) only does not operate when memory operated.

SEAT LIFTING (REAR): Diagnosis Procedure

INFOID:0000000006471657

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-221, "SEAT LIFTING (REAR): Diagnosis Procedure"

2.CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to ADP-106, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

STEERING TELESCOPIC

STEERING TELESCOPIC: Description

INFOID:0000000006471658

Steering telescopic only does not operate when memory operated.

STEERING TELESCOPIC: Diagnosis Procedure

INFOID:0000000006471659

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-222, "STEERING TELESCOPIC: Diagnosis Procedure"

2.CHECK TELESCOPIC SENSOR

Check steering telescopic sensor.

Refer to ADP-112, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

STEERING TILT

STEERING TILT: Description

INFOID:0000000006471660

Steering tilt only does not operate when memory operated.

< SYMPTOM DIAGNOSIS >

STEERING TILT : Diagnosis Procedure	INFOID:0000000006471661
1. CHECK MANUAL OPERATION	
Check manual operation. Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to ADP-221, "STEERING TILT : Diagnosis Procedure" 2.CHECK TILT SENSOR	
Check steering tilt sensor. Refer to ADP-109, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1. DOOR MIRROR	
DOOR MIRROR : Description	INFOID:0000000006471662
Door mirror does not operate when memory operated.	
DOOR MIRROR : Diagnosis Procedure	INFOID:0000000006471663
1.CHECK MANUAL OPERATION	
Check manual operation. Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Refer to ADP-223, "DOOR MIRROR : Diagnosis Procedure" 2.CHECK MIRROR SENSOR	
Check mirror sensor. • Refer to ADP-115, "DRIVER SIDE: Component Function Check". (Driver side) • Refer to ADP-117, "PASSENGER SIDE: Component Function Check". (Passenger side)	
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	

MEMORY INDICATE DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

MEMORY INDICATE DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:0000000006471664

1. CHECK MEMORY INDICATOR

Check memory indicator.

Refer to ADP-134, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE	
Diagnosis Procedure	А
1.CHECK SYSTEM SETTING	В
Check system setting. Refer to ADP-11, "SYSTEM SETTING: Special Repair Requirement". Is the inspection result normal? YES >> Synchronization function is normal. NO >> GO TO 2.	С
2. CHECK ALL FUNCTIONS MAMUAL OPERATION	D
Check all functions manual operation. Is the inspection result normal? YES >> GO TO 3. NO >> Refer to ADP-218. "ALL COMPONENT : Diagnosis Procedure". 3. CONFIRM THE OPERATION	E
Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	G
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POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

POWER WALK-IN FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006471666

1. CHECK POWER WALK-IN FUNCTION

Check power walk-in function.

Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description".

Is the inspection result normal?

YES >> Power walk-in function is OK.

NO >> GO TO 2.

2.perform initialization procedure

1. Perform initialization procedure.

Refer to ADP-10, "SYSTEM INITIALIZATION: Special Repair Requirement".

2. Check power walk-in function.

Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description".

Is the inspection result normal?

YES >> Power walk-in function is normal.

NO >> GO TO 3.

${f 3.}$ CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

Refer to ADP-81, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.

Refer to ADP-77, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK FORWARD SWITCH

Check forward switch.

Refer to ADP-75, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

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

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.

Refer to DLK-71, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8.CONFIRM THE OPERATION

Check the operation again.

POWER WALK-IN FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description". Α Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. В С D Е F G Н ADP K L M

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INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006471667

1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to <u>DLK-7</u>, "Work Flow".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. PERFORM MEMORY STORING PROCEDURE

1. Perform memory storing procedure.

Refer to ADP-10, "MEMORY STORING: Special Repair Requirement".

2. Check Intelligent Key interlock function.

Refer to ADP-34, "INTELLIGENT KEY INTERLOCK FUNCTION: System Description".

Is the inspection result normal?

YES >> Intelligent Key inter lock function is normal.

NO >> GO TO 1.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description A

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

Symptom	Cause	Action to take	Reference page
Seat synchronization function does not operate.	The synchronization function will not operate if the steering (tilt, telescopic) or the door mirror moves to the operating end while the seat synchronization function is operating.	Perform the memory function or drive the vehicle at more than 7km/h (4 MPH).	<u>ADP-24</u>
	Seat adjustment value has exceed any of the values below. Seat sliding: 76 mm Seat reclining: 9.1 degrees Seat lifting (rear): 20 mm	_	_
Side support or lumbar support does not perform memory operation.	The side support and the lumbar support are controlled independently with no link	_	Side support: SE-24
	to the automatic drive positioner system.		Lumbar support: <u>SE-27</u>
Memory function, power walk-in function, seat synchronization function, or Intelligent Key interlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: ADP-29
			Power walk-in function: ADP-39
			Seat synchronization function: <u>ADP-24</u>
			Intelligent Key interlock function: <u>ADP-34</u>

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PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Service Procedure Precautions for Models with a Pop-up Roll Bar

INFOID:0000000006471670

WARNING:

Always observe the following items for preventing accidental activation.

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll
 over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative,
 all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

Precaution for Battery Service

INFOID:0000000006471671

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Service INFOID:000000006471672

• When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.

PRECAUTIONS

< PRECAUTION >

- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Work INFOID:000000006471673

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

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DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER SEAT CONTROL UNIT

Exploded View

Refer to SE-233, "Exploded View".

Removal and Installation

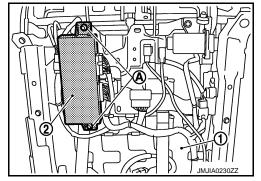
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REMOVAL

CAUTION:

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

- 1. Remove driver seat (1). Refer to <u>SE-244, "Removal and Installation"</u>.
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing driver seat, perform additional service when replacing control unit. Refer to <u>ADP-9</u>, "ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-23, "M/T MODELS : Exploded View"</u> (M/T models).

Removal and Installation

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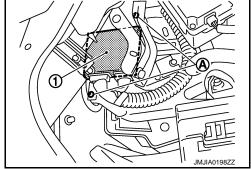
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REMOVAL

CAUTION:

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

- Remove instrument driver lower panel. Refer to <u>IP-13, "A/T MODELS: Removal and Installation"</u> (A/T models) or <u>IP-24, "M/T MODELS: Removal and Installation"</u> (M/T models).
- 2. Remove screws (A).
- 3. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

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SEAT MEMORY SWITCH

< REMOVAL AND INSTALLATION >

SEAT MEMORY SWITCH

Exploded View

Refer to INT-12, "Exploded View"

Removal and Installation

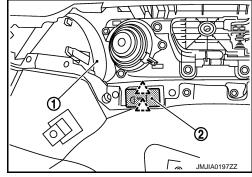
REMOVAL

CAUTION:

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

- Remove front door finisher (1). Refer to <u>INT-12</u>, "Removal and <u>Installation"</u>.
- 2. Press pawls and remove seat memory switch (2) from front door finisher (1).





INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Exploded View

Refer to SE-233, "Exploded View".

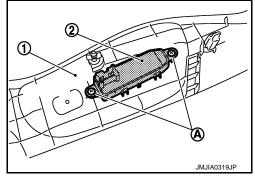
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-244</u>, "Removal and Installation".
- 2. Remove screws (A).
- 3. Remove power seat switch (2) from seat cushion outer finisher (1).



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

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SIDE SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

SIDE SUPPORT SWITCH

Exploded View

Refer to SE-233, "Exploded View"

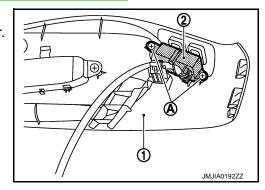
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to SE-244, "Removal and Installation"
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

TILT&TELESCOPIC SWITCH

< REMOVAL AND INSTALLATION >

TILT&TELESCOPIC SWITCH

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-23, "M/T MODELS : Exploded View"</u> (M/T models).

Removal and Installation

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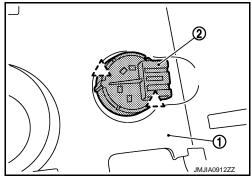
REMOVAL

CAUTION:

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

- 1. Remove steering column mask (1). Refer to <u>IP-13</u>, "A/T <u>MODELS</u>: <u>Removal and Installation"</u> (A/T models) or <u>IP-24</u>, "M/T <u>MODELS</u>: <u>Removal and Installation"</u> (M/T models).
- 2. Press pawls and remove tilt & telescopic switch (2) from steering column mask (1).





INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

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