SECTION ADP
AUTOMATIC DRIVE POSITIONER

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011545044

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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.**

Precaution for Work

INFOID:0000000011565253

- 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 prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

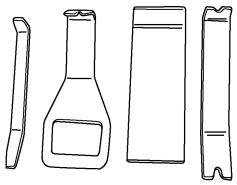
PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000011219163

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

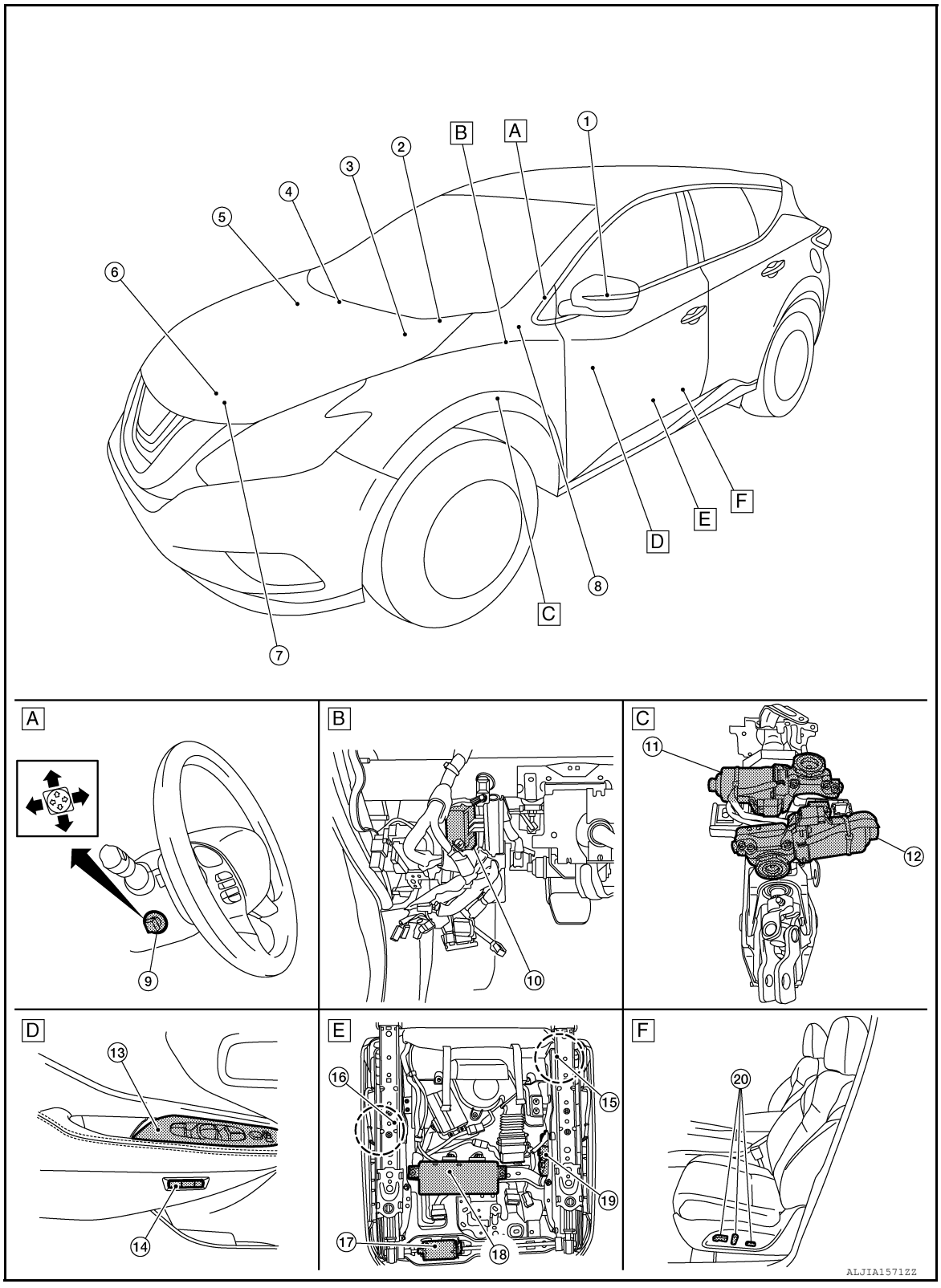
Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000011554378



A. Steering column
B. LH side of instrument panel (view with instrument panel removed)
C. Steering column (view with assembly removed)
D. View of left front door finisher
E. Driver seat bottom (view with seat removed)
F. LH side of driver seat

No.	Component		Function
1.	Door mirror (driver side)	Door mirror motor	Makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies. Refer to MIR-4, "Component Parts Location" for detailed installation location.
		Mirror sensor	• Mirror sensor is installed to door mirror. • The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated. • Automatic drive positioner control unit calculates door mirror position according to the change of the voltage of 2 sensor input terminals. Refer to MIR-4, "Component Parts Location" for detailed installation location.
2.	BCM		Recognizes the following status and transmits it to driver seat control unit via CAN communication. • Handle position: LHD • Driver door: OPEN/CLOSE • Ignition switch position: ACC/ON • Door lock: UNLOCK (with Intelligent Key or driver side door request switch operation) • Key ID • Starter: CRANKING/OTHER Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
3.	IPDM E/R		Transmits the detention switch signal to driver seat control unit via CAN communication. Refer to PCS-5, "Component Parts Location" for detailed installation location.
4.	CAN gateway		Refer to LAN-108, "Component Parts Location".
5.	ABS actuator and electric unit (control unit)		Transmits the vehicle speed signal to driver seat control unit via CAN communication. Refer to BRC-12, "ABS Actuator and Electric Unit (Control Unit)" for detailed installation location.
6.	ECM		Refer to EC-21, "ECM".
7.	TCM		Refer to TM-13, "CVT CONTROL SYSTEM : TCM".
8.	Combination meter		Transmits the vehicle speed signal to driver seat control unit via CAN communication.
9.	Tilt & telescopic switch		Refer to ADP-10, "Tilt & Telescopic Switch".
10.	Automatic drive positioner control unit		Refer to ADP-9, "Automatic Drive Positioner Control Unit".
11.	Tilt motor	Tilt motor	Refer to ADP-10, "Tilt & Telescopic Motor".
		Tilt sensor	
12.	Telescopic motor	Tilt motor	Refer to ADP-10, "Tilt & Telescopic Motor".
		Tilt sensor	

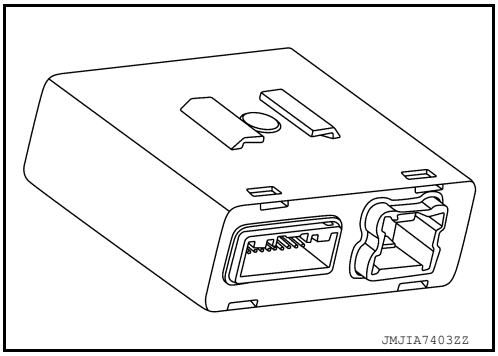
No.	Component		Function
13.	Power window main switch (door mirror remote control switch)	Mirror switch	• Mirror switch is integrated in door mirror remote control switch. • It operates angle of door mirror face. • It transmits mirror face adjust operation to automatic drive positioner control unit. Refer to PWC-7, "Main Power Window and Door Lock/Unlock Switch" for detailed installation location.
		Select switch	• Changeover switch is integrated in 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. Refer to PWC-7, "Main Power Window and Door Lock/Unlock Switch" for detailed installation location.
14.	Seat memory switch		Refer to ADP-9, "Seat Memory Switch".
15.	Reclining motor	Reclining motor	• Reclining motor is installed to seat back frame. • Reclining motor is activated with driver seat control unit. • Seatback is reclined forward/backward by changing the rotation direction of reclining motor.
		Reclining sensor	• Reclining sensor is integrated in reclining motor. • The pulse signal is input to driver seat control unit when the reclining is operated. • Driver seat control unit counts the pulse and calculates the reclining amount of the seat.
16.	Lifting motor (rear)	Lifting motor (rear)	• Lifting motor (rear) is installed to seat frame assembly (driver side). • Lifting motor (rear) is activated with driver seat control unit. • Lifting motor (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).
		Lifting sensor (rear)	• Lifting sensor (rear) is installed to seat side cushion frame. • The pulse signal is input to driver seat control unit when lifting (rear) is operated. • Driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat.
17.	Sliding motor	Sliding motor	• Sliding motor is installed to the seat cushion frame. • Sliding motor is activated with driver seat control unit. • Slides the seat forward/backward by changing the rotation direction of sliding motor.
		Sliding sensor	• Sliding sensor is integrated in sliding motor. • The pulse signal is input to driver seat control unit when sliding is performed. • Driver seat control unit counts the pulse and calculates the sliding amount of the seat.
18.	Driver seat control unit		Refer to ADP-9, "Driver Seat Control Unit".
19.	Lifting motor (front)	Lifting motor (front)	• Lifting motor (front) is installed to seat frame assembly (driver side). • Lifting motor is activated with driver seat control unit. • Lifting motor (front) is moved upward/downward by changing the rotation direction of lifting motor (front).
		Lifting sensor (front)	• Lifting sensor (front) is installed in lifting motor (front). • When lifting motor (front) operates, pulse signal is transmitted to driver seat control unit from lifting sensor. Driver seat control unit counts the pulse and calculates the lift position (front) of the seat.

No.	Component		Function
20.	Power seat switch	Sliding switch	• Sliding switch is equipped to power seat switch on seat cushion side surface. • The operation signal is input to driver seat control unit when sliding switch is operated.
		Reclining switch	• Reclining switch is equipped to power seat switch on seat cushion side surface. • The operation signal is input to driver seat control unit when reclining switch is operated.
		Lifting switch (front)	• Lifting switch (front) is equipped to power seat switch on seat cushion side surface. • The operation signal is input to driver seat control unit when lifting switch (front) is operated.
		Lifting switch (rear)	• Lifting switch (rear) is equipped to power seat switch on seat cushion side surface. • The operation signal is input to driver seat control unit when lifting switch (rear) is operated.

Automatic Drive Positioner Control Unit

INFOID:0000000011554379

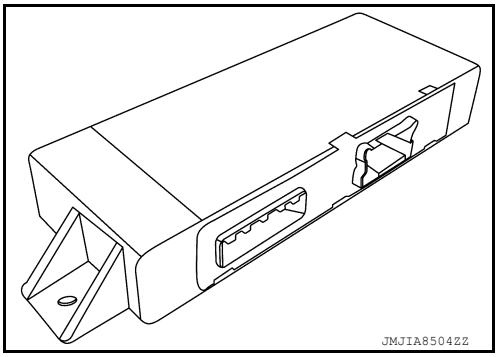
- It communicates with driver seat control unit via UART communication.
- Performs various controls with the instructions of driver seat control unit.
- Performs the controls of tilt & telescopic and door mirror.
- Operates steering column and door mirror with the signal from the driver seat control.



Driver Seat Control Unit

INFOID:0000000011554380

- Main unit of automatic drive positioner system.
- It is connected to the CAN communication system.
- It communicates with automatic drive positioner control unit via UART communication.
- The address of each part is recorded.
- Operates each motor of seat to the registered position.
- Requests the operation of steering column and door mirror to automatic drive positioner control unit.
- Performs the control of seat memory switch.
- Operates the specific seat motor with the signal from power seat switch.



Seat Memory Switch

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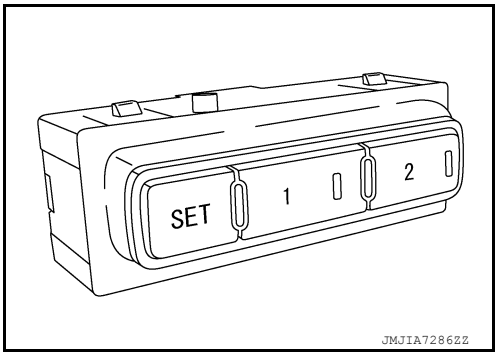


SET SWITCH

It is used for registration and setting change of driving position.

SEAT MEMORY SWITCH

- The maximum 2 driving positions can be registered by memory switch 1 and 2.
- Driving position is set to the registered driving position when memory switch is pressed while operation conditions are satisfied.

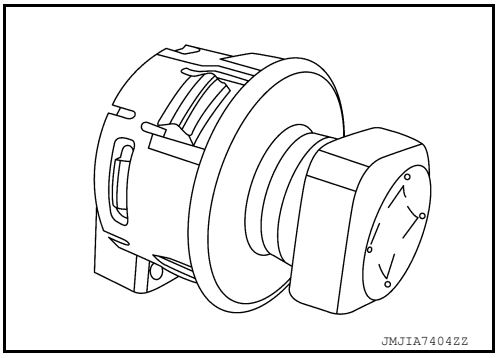
SEAT MEMORY INDICATOR

Memory indicator indicates the status of auto driving position system by turning ON or blinking.

Tilt & Telescopic Switch

INFOID:0000000011554382

- Tilt & telescopic switch is equipped to steering column.
- The operation signal is input to automatic drive positioner control unit when switch is operated.



Tilt & Telescopic Motor

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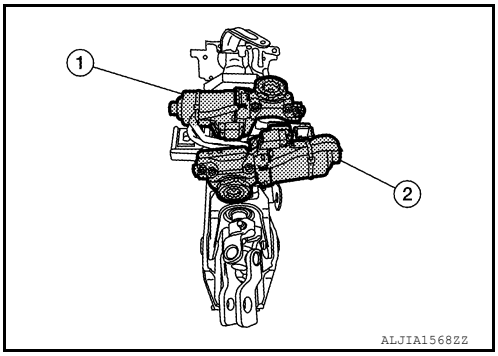


TILT MOTOR

- Tilt motor (1) is installed to steering column assembly.
- Tilt motor is activated with automatic drive positioner control unit.
- Steering column is tilted upward/downward by changing the rotation direction of tilt motor.

TILT SENSOR

- Tilt sensor is integrated in tilt motor (1).
- 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.

TELESCOPIC MOTOR

- Telescopic motor (2) is installed to steering column assembly.
- Telescopic motor is activated with automatic drive positioner control unit.
- Compresses steering column by changing the rotation direction of telescopic motor.

TELESCOPIC SENSOR

- Telescopic sensor is integrated in telescopic motor (2).
- 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.

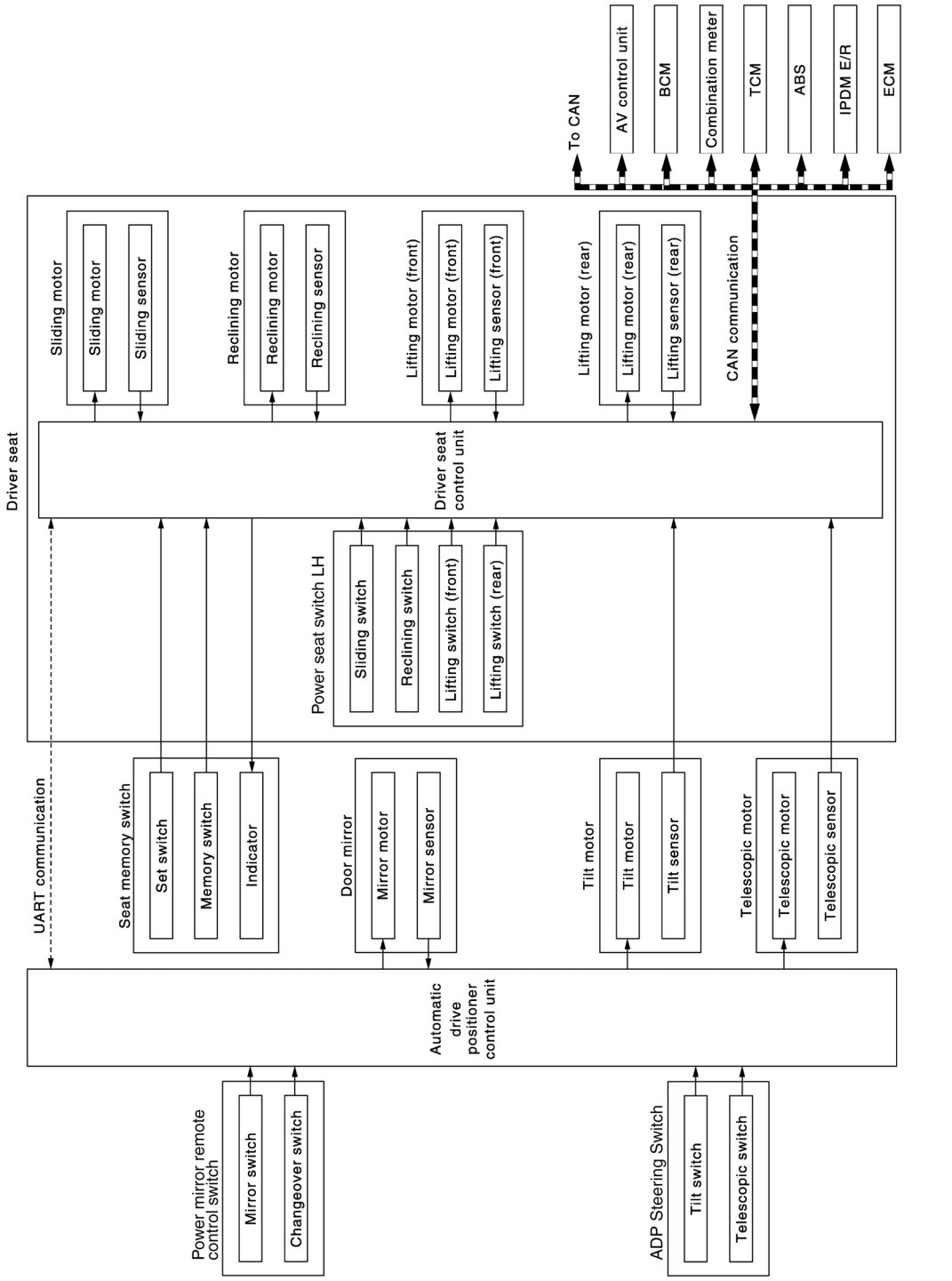
SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:0000000011219167

SYSTEM DIAGRAM



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OUTLINE

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

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

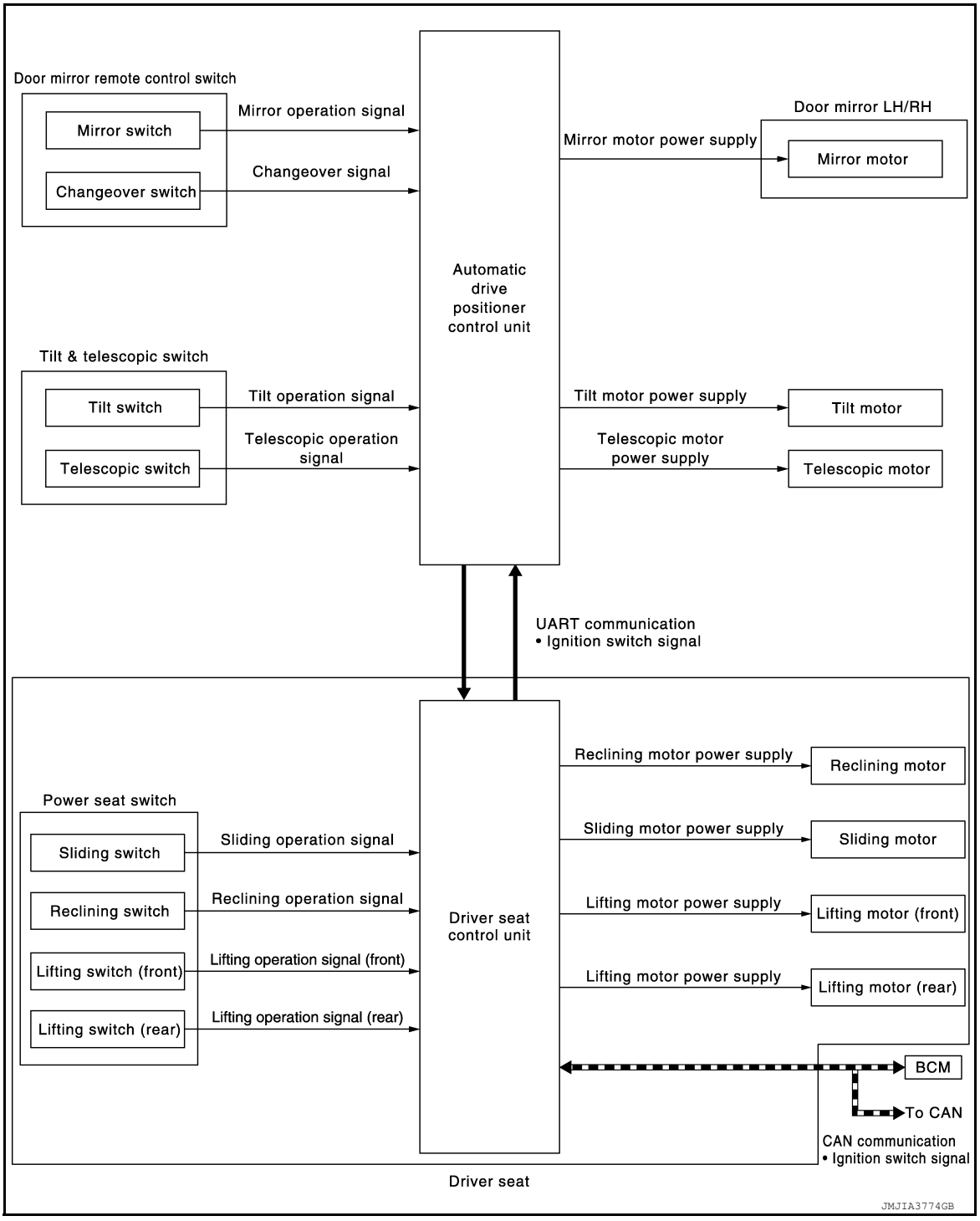
NOTE:
The lumbar support system is controlled independently with no link to the automatic drive positioner system.

MANUAL FUNCTION

MANUAL FUNCTION : System Description

INFOID:0000000011219169

SYSTEM DIAGRAM



DESCRIPTION

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

Operation procedure

1. Operate power seat switch, ADP steering switch or door mirror remote control switch.
2. The driver seat, steering column or door mirror operates according to the operation of each switch.

DETAIL FLOW

Seat

Order	Input	Output	Control unit condition
1	Power seat switch (sliding, lifting, reclining)	—	The power seat switch signal is inputted to the driver seat control unit when the power seat switch is operated.
2	—	Motors (sliding LH, lifting LH, reclining LH)	The driver seat control unit outputs signals to each motor according to the power seat switch input signal.

Tilt and Telescopic

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

Door Mirror

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

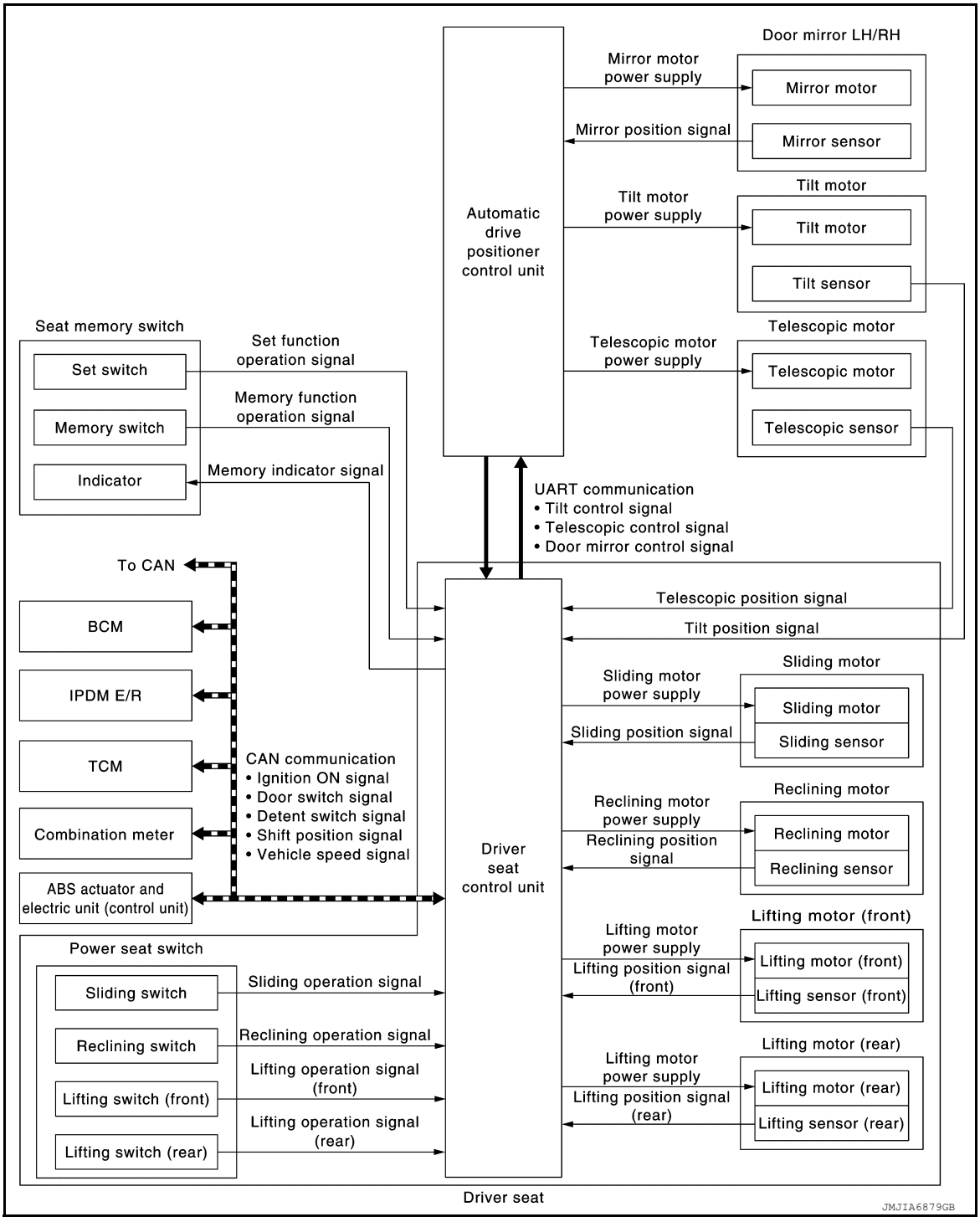
NOTE:
The door mirrors can be operated manually when ignition switch is in either ACC or ON position. The ignition switch signal (ACC/ON) is transmitted from BCM to the driver seat control unit via CAN communication and from the driver seat control unit to the automatic drive positioner control unit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

MEMORY FUNCTION

MEMORY FUNCTION : System Description

INFOID:0000000011219171

SYSTEM DIAGRAM



INPUT SIGNAL AND OUTPUT SIGNAL

Several types of signals are transmitted from the following units to the driver seat control unit via CAN communication.

Component	Signal
ABS actuator and electric unit (control unit)	Vehicle speed signal
Combination meter	Vehicle speed signal
IPDM E/R	Detention switch signal

Component	Signal
BCM	Ignition switch signal
ECM	Shift position signal

DESCRIPTION

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) operation allows changing to the other driving position.

NOTE:

For further information on the memory storage procedure, refer to Owner's Manual.

Operation Procedure

1. Press desired memory switch.
2. Front seat LH, steering column 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.

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

Detail Flow

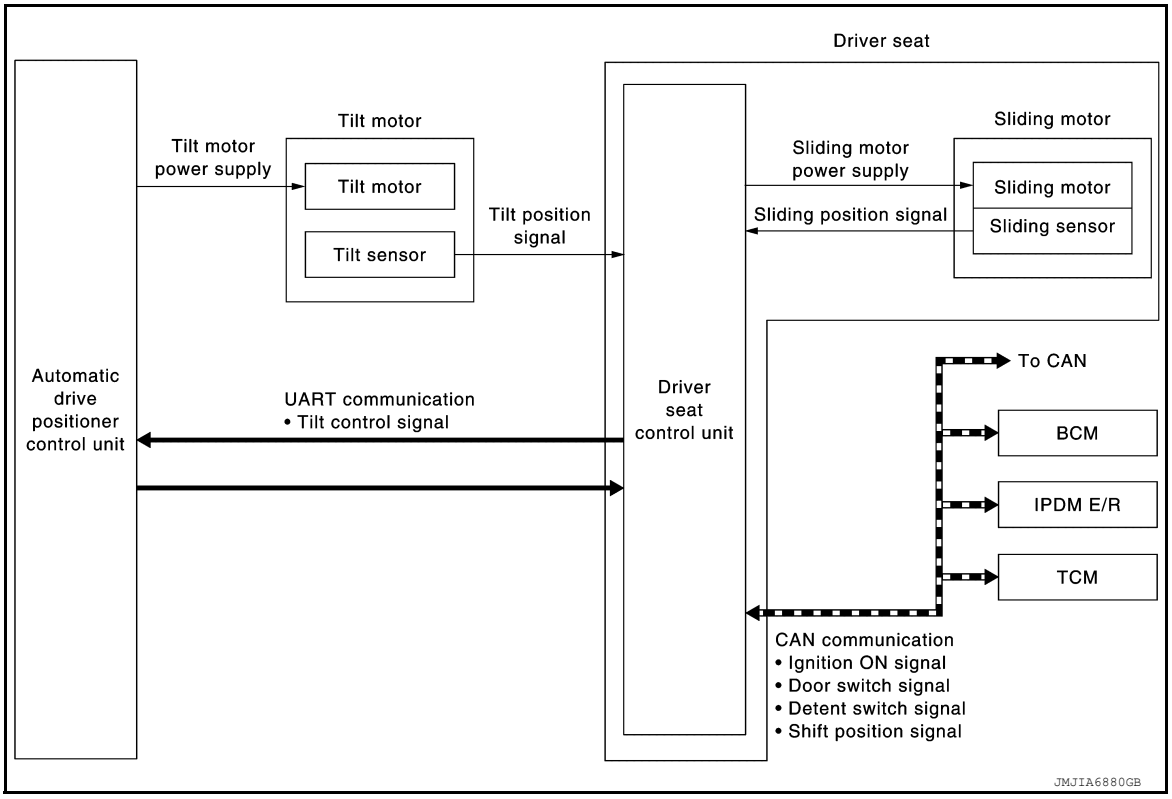
Order	Input	Output	Control unit condition
1	Memory switch	—	The memory switch signal is inputted to the automatic drive positioner control unit when memory switch 1 or 2 is operated.
2	—	Motors (seat, steering, door mirror)	Driver seat control unit operates each motor of seat when it recognizes the memory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

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION : System Description

INFOID:0000000011219173

SYSTEM DIAGRAM



INPUT SIGNAL AND OUTPUT SIGNAL

Several types of signals are transmitted from the following units to the driver seat control unit via CAN communication.

Component	Signal
ABS actuator and electric unit (control unit)	Vehicle speed signal
Combination meter	Vehicle speed signal
BCM	• Ignition switch signal • Door switch signal
ECM	Shift position signal
IPDM E/R	Detention switch signal

DESCRIPTION

When exiting, if the conditions are satisfied, the seat is moved backward from normal sitting position and the steering column is moved up.
The seat slide amount at entry/exit operation can be changed.
NOTE:
- This function is set to ON before delivery (initial setting).
- For further information on the system setting procedure, refer to Owner's Manual.

Operation Procedure

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

Operation Condition

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

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

Detail Flow

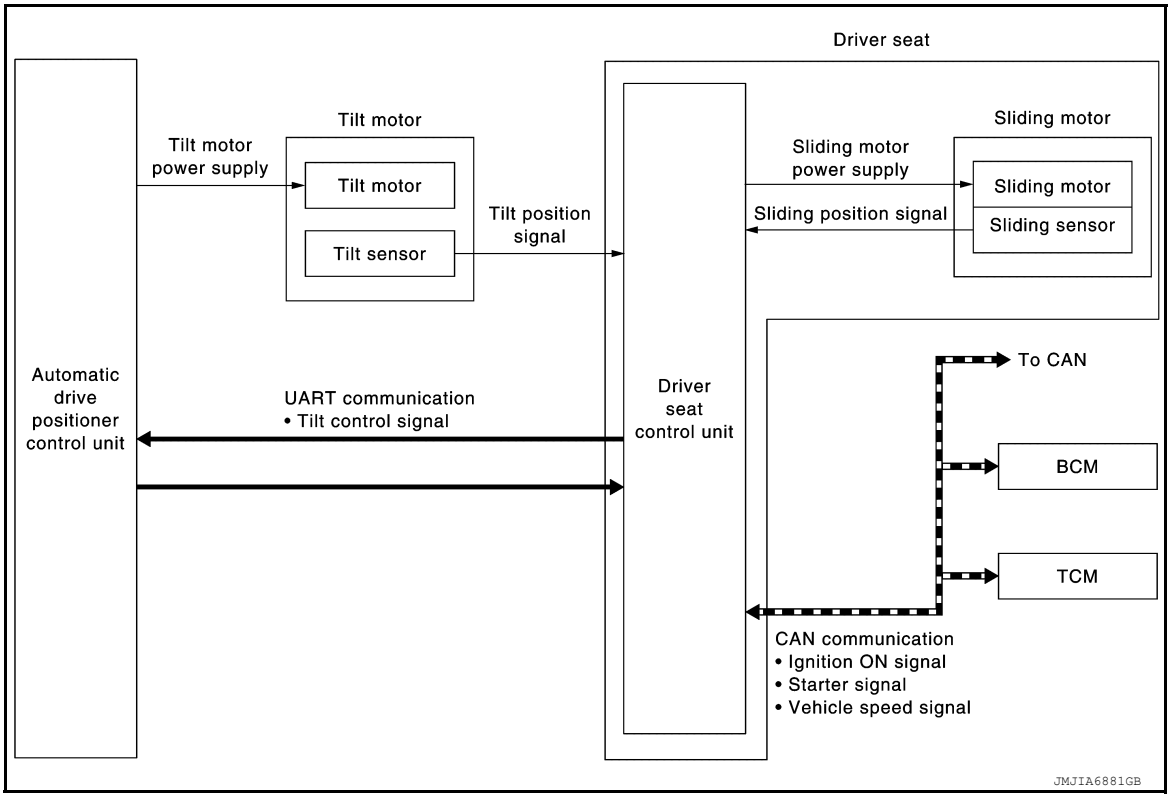
Order	Input	Output	Control unit condition
1	Front door switch LH	—	Driver seat control unit receives front door switch LH signal (open) from BCM via CAN communication.
2	—	Motors (seat sliding LH, tilt)	Driver seat control unit operates the seat sliding motor LH, which recognizes that the driver side door is opened with ignition switch OFF. Driver seat control unit then requests the operations of tilt motor to auto drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor for a constant amount.

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Description

INFOID:0000000011219175

SYSTEM DIAGRAM



INPUT SIGNAL AND OUTPUT SIGNAL

Several types of signals are transmitted from the following units to the driver seat control unit via CAN communication.

Component	Signal
ABS actuator and electric unit (control unit)	Vehicle speed signal
Combination meter	Vehicle speed signal
BCM	• Ignition switch signal • Key ID signal
IPDM E/R	Detention switch signal

DESCRIPTION

The seat is in the exiting position when either following condition is satisfied; the seat returns from exiting position to the previous driving position.

NOTE:

- This function is set to OFF before delivery (initial setting).
- For further information on the system setting procedure, refer to Owner's Manual.

Operation Procedure

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

Operation Condition

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

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

Detail Flow

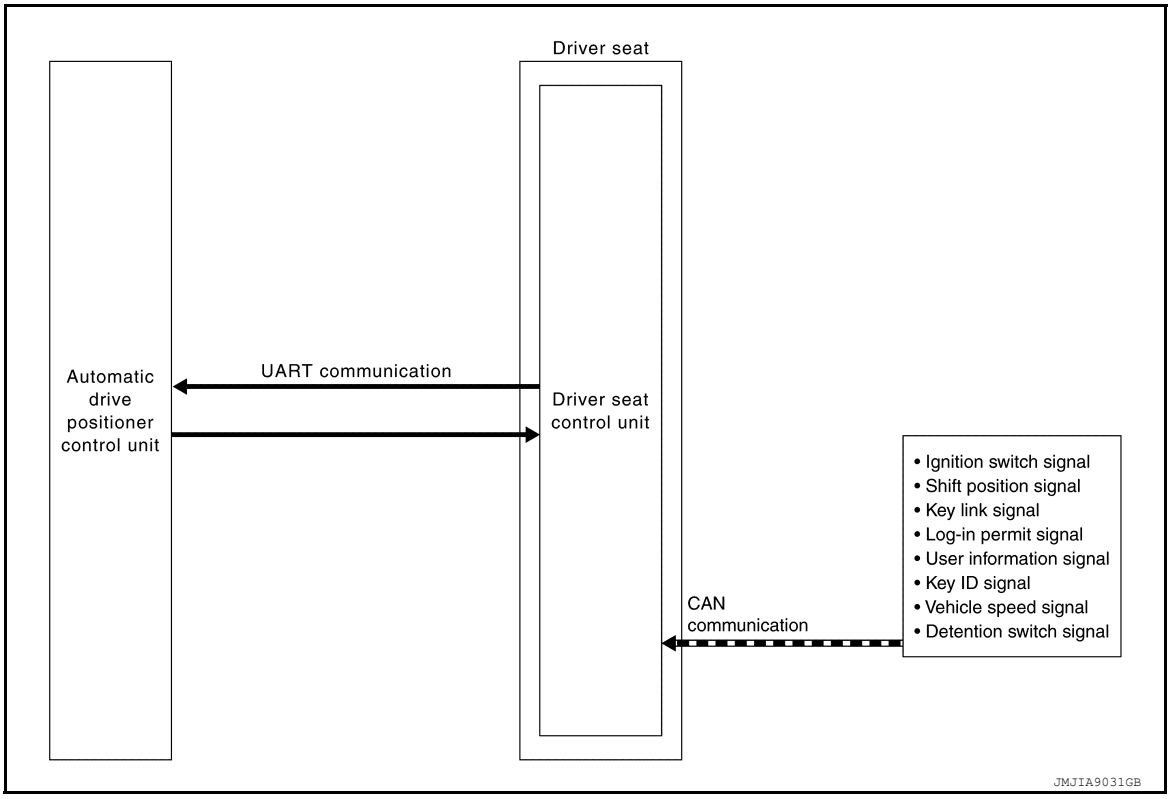
Order	Input	Output	Control unit condition
1	Door switch/Ignition switch	—	Driver seat control unit receives the signals of ignition switch signal and front door switch from BCM via CAN communication.
2	—	Motors (sliding LH, tilt)	Driver seat control unit operates the sliding motor LH when the operating conditions are satisfied and requests the operation of tilt motor to automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates the tilt motor.
	Sensors (sliding, tilt)	—	Each sensor monitors the operating positions of seat and steering column then stops the operation of motor when each part reaches the recorded address.

LINKING KEY FOB TO THE METER DISPLAY

LINKING KEY FOB TO THE METER DISPLAY : System Description

INFOID:0000000011219177

SYSTEM DIAGRAM



INPUT SIGNAL AND OUTPUT SIGNAL

Several types of signals are transmitted from the following units to the driver seat control unit via CAN communication.

Component	Signal
ABS actuator and electric unit (control unit)	Vehicle speed signal
Combination meter	Vehicle speed signal
BCM	• Ignition switch signal • Key ID signal
ECM	Shift position signal
Chassis control module	• Key link signal • Log-in permit signal
Display control unit	User information signal
IPDM E/R	Detention switch signal

DESCRIPTION

Log-in function is the function that registers the setting status of various systems and retrieves the status for each Intelligent Key as desired.

Registered information is automatically adjusted to the driving position (seat, steering column, and door mirror position) registered by unlocking the driver side door with the Intelligent Key or by operating the user selection function on the display.

When user selection is performed by display operation, the user information registered with another Intelligent Key can also be retrieved.

NOTE:

For the registration of the log-in function, the status is automatically registered as one of the following vehicle statuses when the ignition switch is turned to OFF. For details on registration, refer to ADP-56, "MEMORY STORING : Description".

Item	Request status
Ignition position	ON
Driver side door	Close
Navigation system	Activated
CONSULT	Not connected

Operation Procedure
1. Turn ignition switch ON.
2. Push desired user change switch on display.
3. Driver seat, steering and door mirror will move to the memorized position.

Operation Condition
All of the following conditions must be satisfied in order to retrieve the registration information of the log-in function.
If one of the following conditions is not satisfied, the interlocked operation of the driving position for log- in function is interrupted.

Item	Request status
Ignition position	ON
Navigation system	Activated
Initialization	Done
Switch inputs • Power seat switch • Tilt & telescopic switch • Door mirror remote control switch • Set switch • Memory switch	OFF (Not operated)
CVT shift selector	P position
Log-in function memory	Registered
Vehicle speed	0 km/h (0 MPH)
CONSULT	Not connected

Fail Safe

INFOID:0000000011219178

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	ADP-60
	CONTROL UNIT	U1010	ADP-61
	EEPROM	B2130	ADP-70
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-68
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-62
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-64
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-66

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

CONSULT Function (AUTO DRIVE POS)

INFOID:0000000011219179

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

APPLICATION ITEMS

Diagnostic mode	Description
ECU IDENTIFICATION	Displays part numbers of driver seat control unit parts.
SELF DIAGNOSTIC RESULT	Performs self-diagnosis for the automatic drive positioner system and displays the results.
ACTIVE TEST	Drive each output device.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
WORK SUPPORT	Changes the setting of each function.

SELF-DIAGNOSIS RESULTS

Refer to ADP-31, "DTC Index".

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor LH.
SEAT RECLINING	Activates/deactivates the reclining motor LH.
SEAT LIFTER FR	Activates/deactivates the lifting motor LH (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor LH (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.

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
DETENT SW	“ON/OFF”	×	×	The selector lever position “OFF (P position) / ON (other than P position)” judged from the detention switch signal.
P RANG SW CAN	“ON/OFF”	×	×	ON/OFF status judged from the P range switch signal.
STARTER SW	“ON/OFF”	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
R RANGE (CAN)	“ON/OFF”	×	×	ON/OFF status judged from the R range switch signal.
VEHICLE SPEED	—	×	×	Displays the vehicle speed signal received from combination meter by numerical value [km/h].
DOOR SW–FL	“OPEN/CLOSED”	×	×	ON/OFF status judged from the door switch (front driver side) signal.
DOOR SW–FR	“OPEN/CLOSED”	×	×	ON/OFF status judged from the door switch (front passenger side) signal.
IGN ON SW	“ON/OFF”	×	×	ON/OFF status judged from the ignition switch signal.
ACC ON SW	“ON/OFF”	×	×	ON/OFF status judged from the ACC switch signal.

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
KYLS DR UNLK	“ON/OFF”	×	×	ON/OFF status judged from the driver side door unlock actuator output switch signal.
KEYLESS ID	—	×	×	Key ID status judged from the key ID signal.
VHCL SPEED (ABS)	“RCV”	×	×	Vehicle speed status judged from vehicle speed signal.
HANDLE	“RHD/LHD”	×	×	RHD/LHD status judged from handle position signal.
TRANSMISSION	“A/T”	×	×	CVT status judged from transmission.
SET SW	“ON/OFF”	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW1	“ON/OFF”	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW2	“ON/OFF”	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW–FR	“ON/OFF”	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW–RR	“ON/OFF”	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW–FR	“ON/OFF”	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW–RR	“ON/OFF”	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW–UP	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW–DN	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW–UP	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW–DN	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW–UP	“ON/OFF”	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW–DN	“ON/OFF”	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW–RH	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW–LH	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.
MIR CHNG SW–R	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW–L	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
TILT SW-UP	“ON/OFF”	×	×	ON/OFF status judged from the ADP steering switch (up) signal.
TILT SW-DOWN	“ON/OFF”	×	×	ON/OFF status judged from the ADP steering switch (down) signal.
TELESCO SW-FR	“ON/OFF”	×	×	ON/OFF status judged from the ADP steering switch (forward) signal.
TELESCO SW-RR	“ON/OFF”	×	×	ON/OFF status judged from the ADP steering switch (backward) signal.
SLIDE PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
RECLN PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U–D	"V"	–	×	Voltage input from door mirror sensor (passenger side) up/down is displayed.
MIR/SEN RH R–L	"V"	–	×	Voltage input from door mirror sensor (passenger side) left/right is displayed.
MIR/SEN LH U–D	"V"	–	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R–L	"V"	–	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
TILT PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
TELESCO PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
KEY NUMBER	—	×	×	Displays the current log-in user with the log-in function
KEY 1	—	×	×	Displays the registration or non-registration status of the log-in function
KEY 2	—	×	×	Displays the registration or non-registration status of the log-in function
KEY 3	—	×	×	Displays the registration or non-registration status of the log-in function
KEY 4	—	×	×	Displays the registration or non-registration status of the log-in function

WORK SUPPORT

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

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000011219180

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

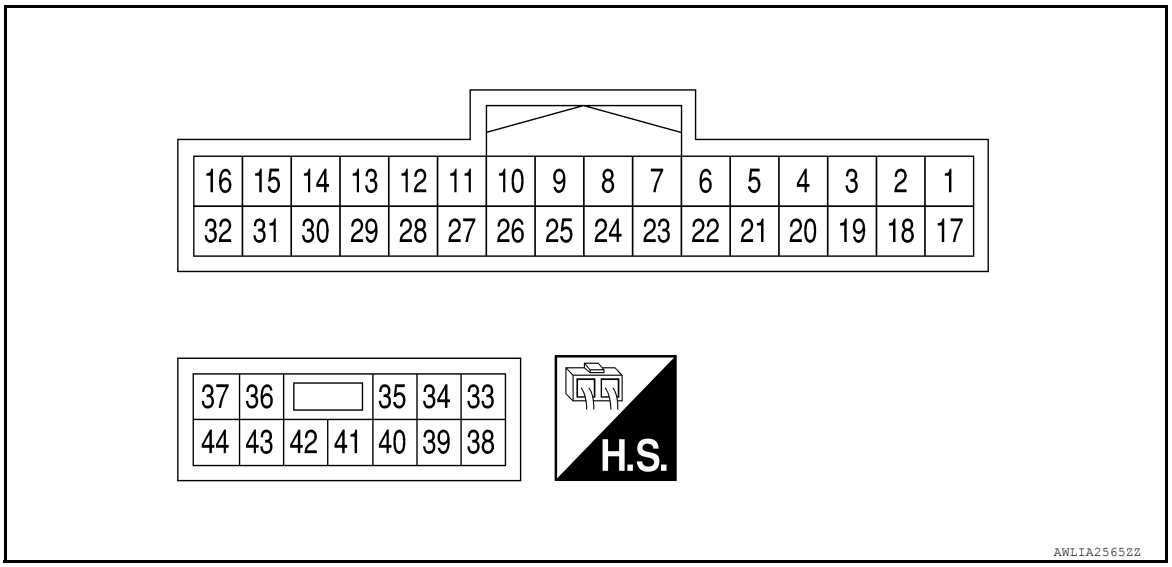
Monitor Item	Condition		Value/Status
DETENT SW	CVT selector lever	P position	OFF
		Other than above	ON
P RANG SW CAN	CVT selector lever	P position	ON
		Other than above	OFF
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
R RANGE (CAN)	CVT selector lever	R position	ON
		Other than above	OFF
VEHICLE SPEED	The condition of vehicle speed is displayed		km/h
DOOR SW-FL	Driver door	Open	OPEN
		Close	CLOSED
DOOR SW-FR	Passenger door	Open	OPEN
		Close	CLOSED
IGN ON SW	Ignition switch	ON position	ON
		Other than above	OFF
ACC ON SW	Ignition switch	ACC or ON position	ON
		Other than above	OFF
KYLS DR UNLK	Intelligent Key or driver side door request switch	ON	ON
		OFF	OFF
KEYLESS ID	UNLOCK button of Intelligent Key is pressed		1, 2, 3, 4 or 5
VHCL SPEED (ABS)	CAN signal from ABS	Received	ON
		Not received	OFF
HANDLE	Driving position		LHD
			RHD
TRANSMISSION	Transmission type		A/T
SET SW	Set switch	Push	ON
		Release	OFF
MEMORY SW1	Memory switch 1	Push	ON
		Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
		Release	OFF
SLIDE SW–FR	Sliding switch (forward)	Operate	ON
		Release	OFF
SLIDE SW–RR	Sliding switch (backward)	Operate	ON
		Release	OFF
RECLN SW–FR	Reclining switch (forward)	Operate	ON
		Release	OFF

Monitor Item	Condition		Value/Status
RECLN SW–RR	Reclining switch (backward)	Operate	ON
		Release	OFF
LIFT FR SW–UP	Lifting switch front (up)	Operate	ON
		Release	OFF
LIFT FR SW–DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW–UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
LIFT RR SW–DN	Lifting switch rear (down)	Operate	ON
		Release	OFF
MIR CON SW–UP	Mirror switch	Up	ON
		Other than above	OFF
MIR CON SW–DN	Mirror switch	Down	ON
		Other than above	OFF
MIR CON SW–RH	Mirror switch	Right	ON
		Other than above	OFF
MIR CON SW–LH	Mirror switch	Left	ON
		Other than above	OFF
MIR CHNG SW–R	Changeover switch	Right	ON
		Other than above	OFF
MIR CHNG SW–L	Changeover switch	Left	ON
		Other than above	OFF
TILT SW-UP	Tilt switch	Upward	ON
		Other than above	OFF
TILT SW-DOWN	Tilt switch	Downward	ON
		Other than above	OFF
TELESCO SW-FR	Telescopic switch	Forward	ON
		Other than above	OFF
TELESCO SW-RR	Telescopic switch	Backward	ON
		Other than above	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *
		Backward	The numeral value increases*
		Other than above	No change to numeral value*
RECLN PULSE	Seat reclining	Forward	The numeral value decreases*
		Backward	The numeral value increases *
		Other than above	No change to numeral value*
LIFT FR PULSE	Seat lifter (front)	Up	The numeral value decreases *
		Down	The numeral value increases *
		Other than above	No change to numeral value*
LIFT RR PULSE	Seat lifter (rear)	Up	The numeral value decreases *
		Down	The numeral value increases *
		Other than above	No change to numeral value*

Monitor Item	Condition		Value/Status
MIR/SEN RH U–D	Door mirror (passenger side)		Change between 3.4 (close to peak) and 0.6 (close to valley)
MIR/SEN RH R–L	Door mirror (passenger side)		Change between 3.4 (close to left edge) and 0.6 (close to right edge)
MIR/SEN LH U–D	Door mirror (driver side)		Change between 3.4 (close to peak) and 0.6 (close to valley)
MIR/SEN LH R–L	Door mirror (driver side)		Change between 0.6 (close to left edge) and 3.4 (close to right edge)
TILT PULSE	Tilt position	Upward	The numeral value decreases *
		Downward	The numeral value increases *
		Other than above	No change to numeral value*
TELESCO PULSE	Telescopic position	Forward	The numeral value decreases *
		Backward	The numeral value increases *
		Other than above	No change to numeral value*

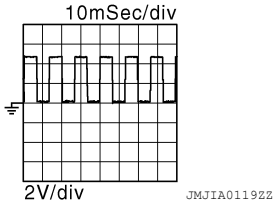
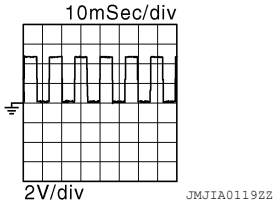
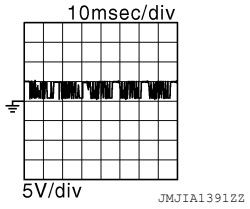
*: The value at the position attained when the battery is connected is regarded as 32768.

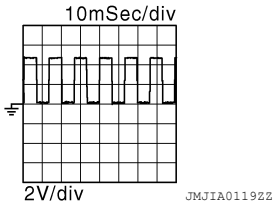
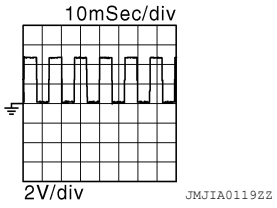
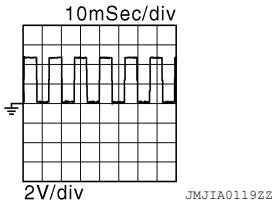
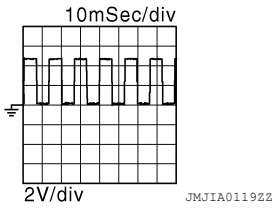
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
5 (W)	Ground	Sensor power supply	Output	—		Battery voltage
6 (R)	Ground	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
					Release	Battery voltage
7 (Y)	Ground	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
					Release	Battery voltage
8 (BR)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
					Release	Battery voltage

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
9 (SB)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					Release	Battery voltage
10 (G)	Ground	Memory indicator 2 signal	Output	Memory indicator 2	Illuminate	1
					Other than above	Battery voltage
11 (GR)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press	0
					Other than above	5
12 (W)	Ground	Telescopic sensor signal	Input	Telescopic	Operate	
					Other than above	0 or 5
13 (G)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	
					Stop	0 or 5
15 (SB)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		
16 (P)	—	CAN high	—	—		—
21 (L)	Ground	Set switch signal	Input	Set switch	Press	0
					Other than above	5
22 (V)	Ground	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
					Release	Battery voltage
23 (G)	Ground	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
					Release	Battery voltage
24 (P)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
					Release	Battery voltage
25 (L)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
26 (Y)	Ground	Memory indicator 1 signal	Output	Memory indicator 1	Illuminate	1
					Other than above	Battery voltage
27 (V)	Ground	Memory switch 1 signal	Input	Memory switch 1	Press	0
					Other than above	5
28 (BR)	Ground	Tilt sensor signal	Input	Tilt	Operate	
					Other than above	0 or 5
29 (R)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	
					Stop	0 or 5
30 (Y)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	
					Stop	0 or 5
31 (LG)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	
					Stop	0 or 5
32 (W)	—	CAN low	—	—		—
34 (SB)	Ground	Lifting motor LH (front) up signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
					Stop	0
35 (V)	Ground	Reclining motor LH forward signal	Output	Seat reclining	Operate (forward)	Battery voltage
					Release	0
36 (W)	Ground	Sliding motor LH backward signal	Output	Seat sliding	Operate (backward)	Battery voltage
					Stop	0

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
37 (R)	Ground	Power source	Input	—		Battery voltage
39 (B)	Ground	Ground (power)	—	—		0
40 (L)	Ground	Lifting motor LH (rear) down signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
					Stop	0
41 (Y)	Ground	Lifting motor LH (rear) up signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
					Stop	0
42 (GR)	Ground	Lifting motor LH (front) down signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
					Stop	0
43 (BR)	Ground	Reclining motor LH backward signal	Output	Seat reclining	Operate (backward)	Battery voltage
					Stop	0
44 (G)	Ground	Sliding motor LH forward signal	Output	Seat sliding	Operate (forward)	Battery voltage
					Release	0

Fail Safe

INFOID:0000000011219181

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	ADP-60
	CONTROL UNIT	U1010	ADP-61
	EEPROM	B2130	ADP-70
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-68
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-62
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-64
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-66

DTC Index

INFOID:0000000011219182

CONSULT display	Timing*1		Item	Reference page
	Current malfunction	Previous malfunction		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-60
CONTROL UNIT [U1010]	0	1-39	Control unit	ADP-61
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-62
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-64

CONSULT display	Timing*1		Item	Reference page
	Current malfunction	Previous malfunction		
STEERING TILT [B2116]	0	1-39	Tilt motor output	ADP-66
UART COMM [B2128]	0	1-39	UART communication	ADP-68
EEPROM [B2130]	0	1-39	EEPROM	ADP-70

*1:

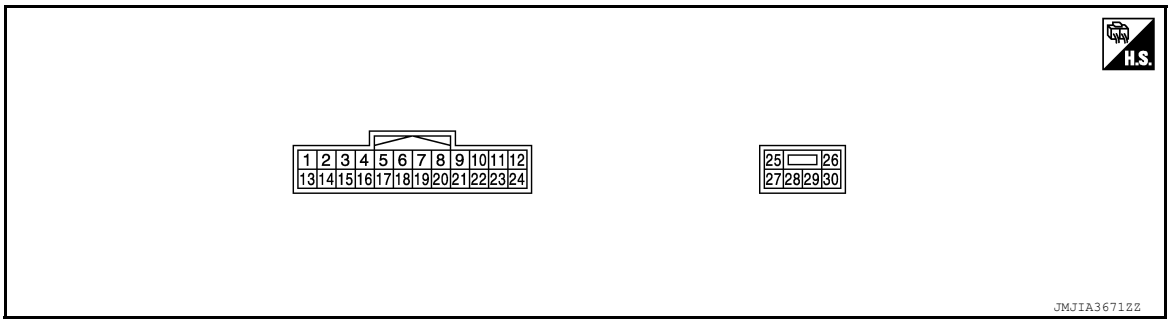
- 0: Current malfunction is present.
- 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset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

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

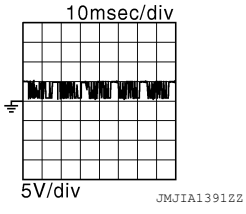
Reference Value

INFOID:0000000011219183

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
1 (LG)	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
					Other than above	5
2 (GR)	Ground	Changeover switch RH signal	Input	Changeover switch position	RH	0
					Neutral or LH	5
3 (G)	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
					Other than above	5
4 (P)	Ground	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
					Other than above	5
5 (W)	Ground	Door mirror sensor (passenger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) and 0.6 (close to valley)
6 (R)	Ground	Door mirror sensor (driver side) up/down signal	Input	Door mirror LH position		Change between 3.4 (close to peak) and 0.6 (close to valley)
7 (BR)	Ground	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
					Other than above	5
8 (G)	Ground	UART communication (TX/RX)	Output	Ignition switch ON		

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Door mirror motor (passenger side) up signal	Output	Door mirror RH	Operate (up)	Battery voltage
					Other than above	0
11 (G)	Ground	Door mirror motor (passenger side) left signal	Output	Door mirror RH	Operate (left)	Battery voltage
					Other than above	0
12 (LG)	Ground	Door mirror motor (driver side) down signal	Output	Door mirror LH	Operate (down)	Battery voltage
					Other than above	0
		Door mirror motor (driver side) right signal			Operate (right)	Battery voltage
					Other than above	0
13 (Y)	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
					Other than above	5
14 (P)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH	0
					Neutral or RH	5
15 (R)	Ground	Mirror switch down signal	Input	Mirror switch	Operate (down)	0
					Other than above	5
16 (W)	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
					Other than above	5
17 (G)	Ground	Door mirror sensor (passenger side) left/right signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) and 0.6 (close to right edge)
18 (BG)	Ground	Door mirror sensor (driver side) left/right signal	Input	Door mirror LH position		Change between 0.6 (close to left edge) and 3.4 (close to right edge)
19 (L)	Ground	Telescopic switch backward signal	Input	Telescopic switch	Operate (backward)	0
					Other than above	5
20 (Y)	Ground	Ground	—	—		0
21 (BG)	Ground	Door mirror motor sensor power supply	Input	—		5

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
22 (SB)	Ground	Door mirror motor (passenger side) down signal	Output	Door mirror (RH)	Operate (down)	Battery voltage
					Other than above	0
		Door mirror motor (passenger side) right signal			Operate (right)	Battery voltage
					Other than above	0
23 (L)	Ground	Door mirror motor (driver side) up signal	Output	Door mirror (LH)	Operate (up)	Battery voltage
					Other than above	0
24 (BG)	Ground	Door mirror motor (driver side) left signal	Output	Door mirror (LH)	Operate (left)	Battery voltage
					Other than above	0
25 (L)	Ground	Power source	Input	—		Battery voltage
26 (V)	Ground	Telescopic motor backward signal	Output	Steering telescopic	Operate (backward)	Battery voltage
					Other than above	0
27 (L)	Ground	Tilt and telescopic motor power source		—		Battery voltage
28 (SB)	Ground	Tilt motor down signal	Output	Steering tilt	Operate (down)	Battery voltage
					Other than above	0
29 (BR)	Ground	Tilt motor up signal	Output	Steering tilt	Operate (up)	Battery voltage
					Other than above	0
		Telescopic motor forward signal		Steering telescopic	Operate (forward)	Battery voltage
					Other than above	0
30 (GR)	Ground	Ground	—	—		0

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000011219184

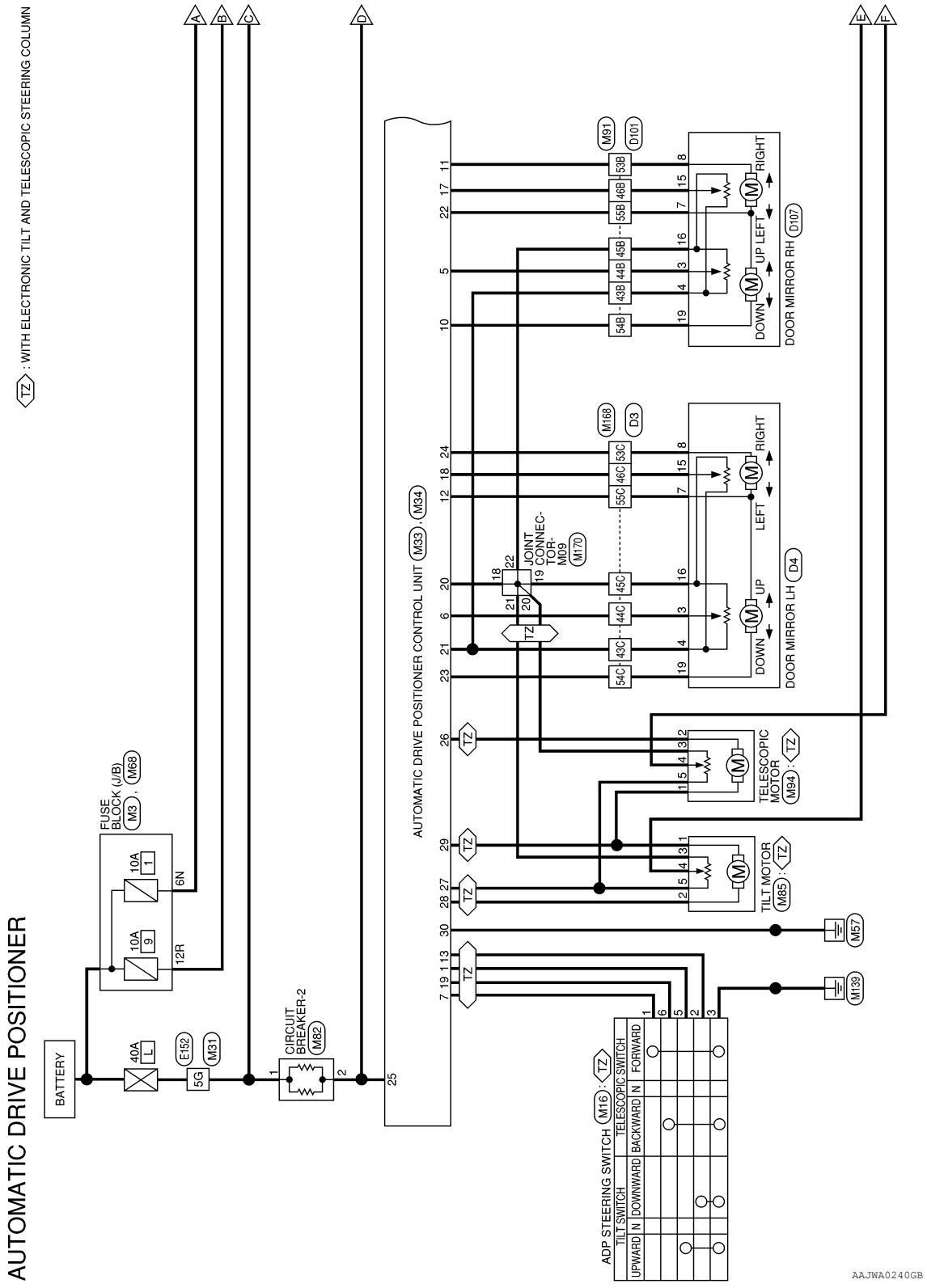
ECU	Reference
BCM	BCS-30, "Reference Value"
	BCS-50, "Fail Safe"
	BCS-51, "DTC Inspection Priority Chart"
	BCS-52, "DTC Index"

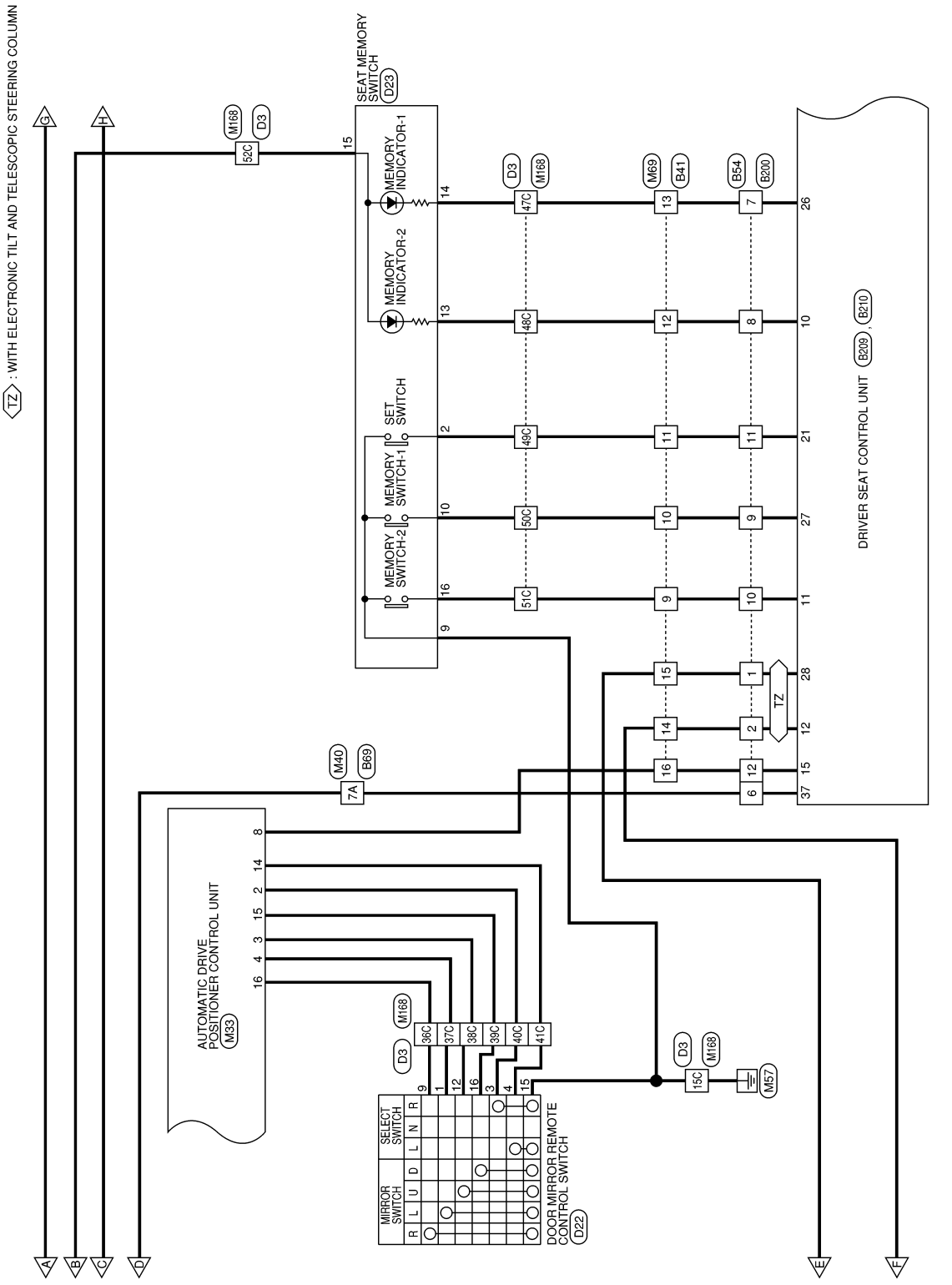
WIRING DIAGRAM

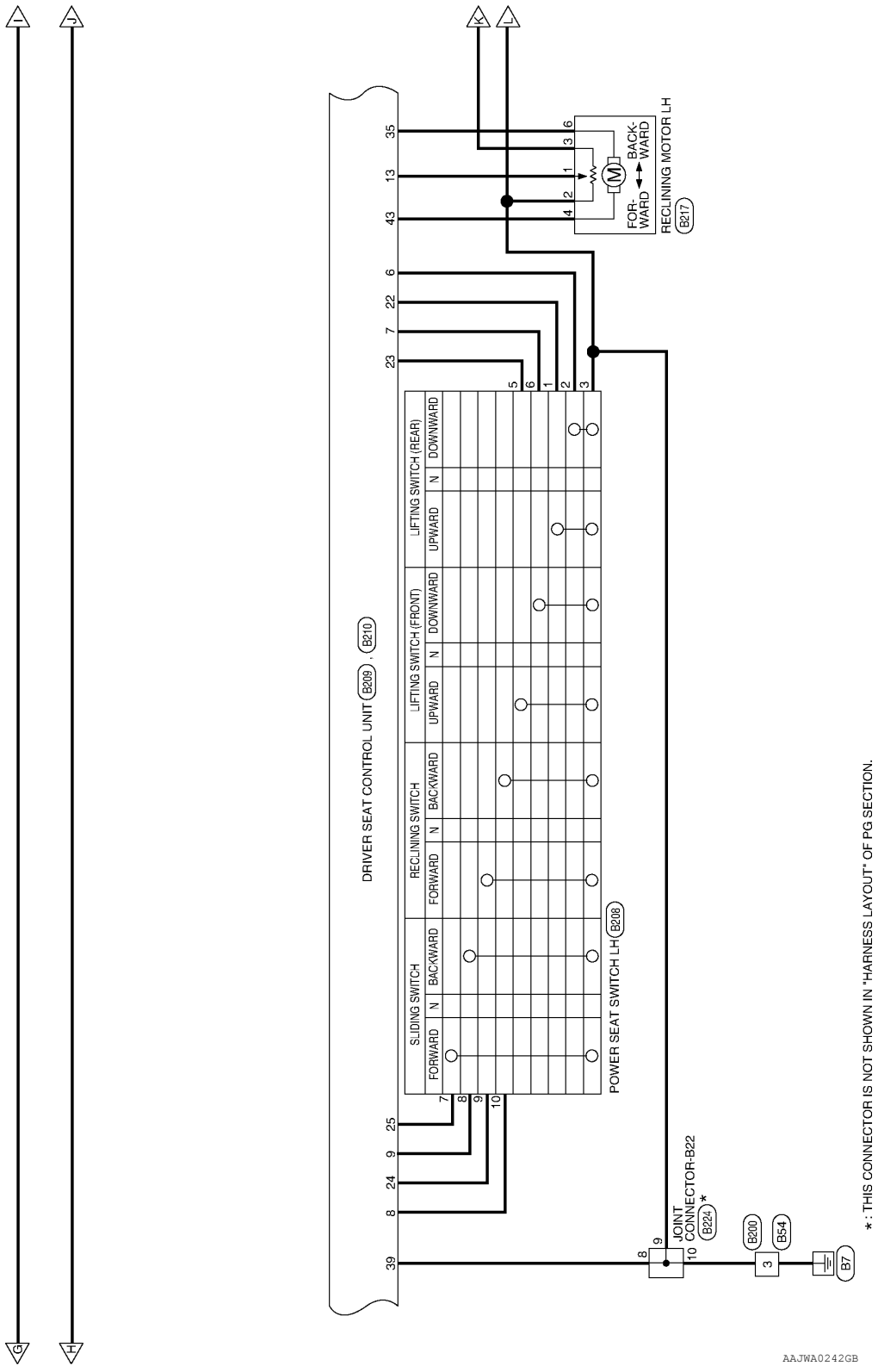
AUTOMATIC DRIVE POSITIONER SYSTEM

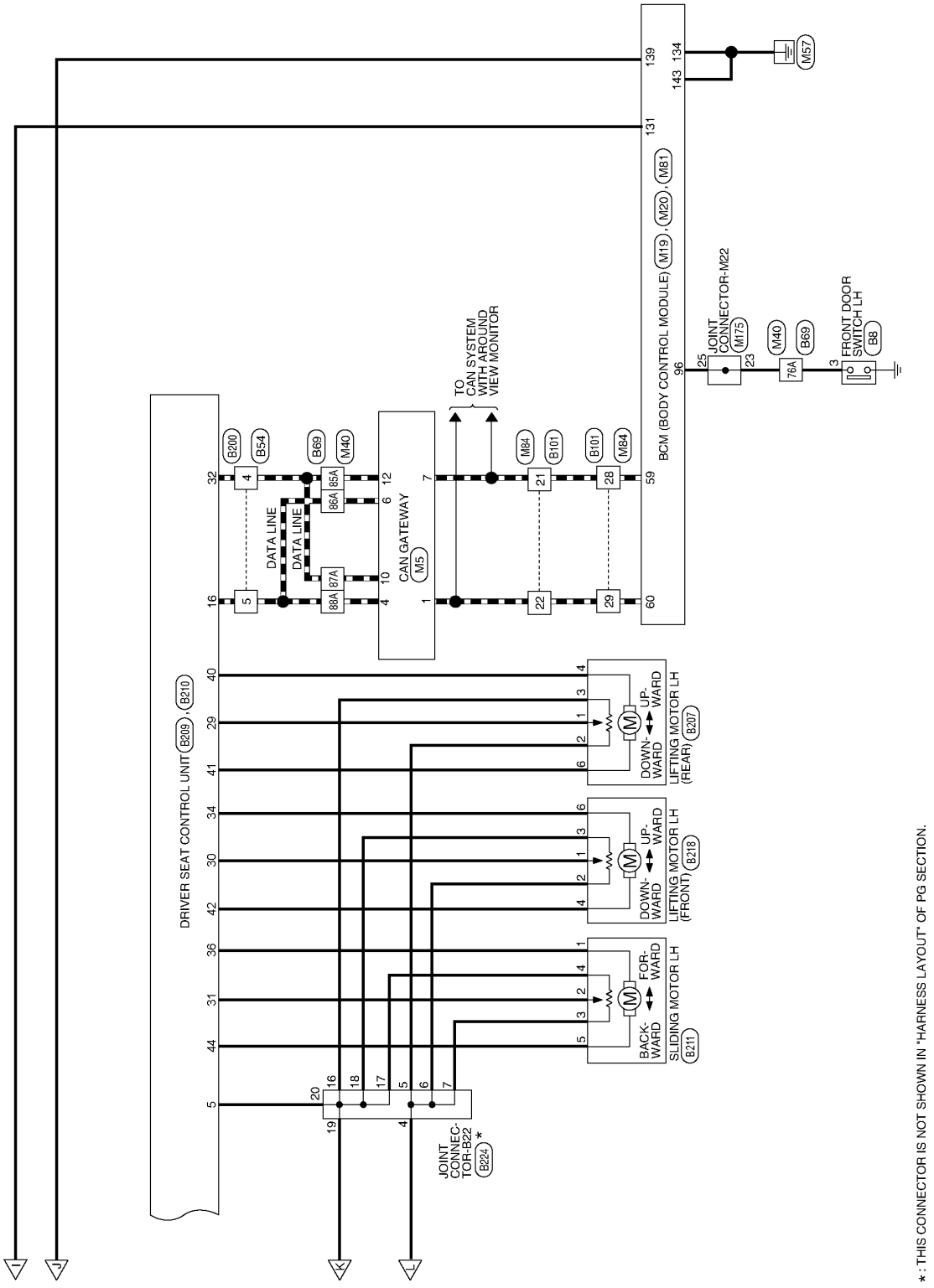
Wiring Diagram

INFOID:0000000011219185




TZ : WITH ELECTRONIC TILT AND TELESCOPIC STEERING COLUMN
SEAT MEMORY SWITCH
D23
MEMORY INDICATOR-1
MEMORY INDICATOR-2
SET SWITCH
MEMORY SWITCH-1
MEMORY SWITCH-2
DRIVER SEAT CONTROL UNIT
B209
B210
AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M33
DOOR MIRROR REMOTE CONTROL SWITCH
D22
MIRROR SWITCH
SELECT SWITCH
M168
D3
M40
B69
M69
B41
B54
B200
M57
AAJWA0241GB


G
H
DRIVER SEAT CONTROL UNIT B209 , B210
POWER SEAT SWITCH LH B208
SLIDING SWITCH
FORWARD
N
BACKWARD
RECLINING SWITCH
FORWARD
N
BACKWARD
LIFTING SWITCH (FRONT)
UPWARD
N
DOWNWARD
LIFTING SWITCH (REAR)
UPWARD
N
DOWNWARD
RECLINING MOTOR LH B217
FOR-WARD
BACK-WARD
JOINT CONNECTOR-B22 *
B224
B200
B54
B7
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.
AAJWA0242GB



AAJWA0243GB

AUTOMATIC DRIVE POSITIONER CONNECTORS

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

H.S.

3N		2N	1N
7N	6N	5N	4N
8N			

Terminal No.	Color of Wire	Signal Name
6N	W	–

Connector No.	M5
Connector Name	CAN GATEWAY
Connector Color	WHITE

H.S.

1	2	3	4	5	6
7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
4	L	CAN-H
6	L	CAN-H
7	P	CAN-L
10	P	CAN-L
12	P	CAN-L

Connector No.	M16
Connector Name	ADP STEERING SWITCH
Connector Color	GRAY

H.S.

6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	Y	–
3	GR	–
5	LG	–
6	L	–

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

H.S.

60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H

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

H.S.

92	91	90	89	88	87	86	85	84	83	82	81
104	103	102	101	100	99	98	97	96	95	94	93

Terminal No.	Color of Wire	Signal Name
96	BG	DR DOOR SW

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

H.S.

1G	2G	3G	4G	5G
6G	7G	8G	9G	10G

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
22G	23G	24G	25G	26G	27G	28G	29G	30G		

31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
42G	43G	44G	45G	46G	47G	48G	49G	50G		

51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
62G	63G	64G	65G	66G	67G	68G	69G	70G		

71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
82G	83G	84G	85G	86G	87G	88G	89G	90G		

91G	92G	93G	94G	95G
96G	97G	98G	99G	100G

Terminal No.	Color of Wire	Signal Name
5G	L	–

AAJIA0588GB

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

H.S.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name
1	LG	TILT SW (UPWARD)
2	GR	MIRROR SELECTOR SW (RH)
3	G	MIRROR SW (UPWARD)
4	P	MIRROR SW (LEFTWARD)
5	W	MIRROR SENSOR (RH VERTICAL)
6	R	MIRROR SENSOR (LH VERTICAL)
7	BR	TELESCOPIC SW (FRONTWARD)
8	G	UART (TX/RX)
9	–	–
10	BR	MIRROR MOTOR [RH VERTICAL (UP)]
11	G	MIRROR MOTOR [RH HORIZONTAL (LEFT)]
12	LG	MIRROR MOTOR [LH COMMON (DOWN& RIGHT)]
13	Y	TILT SW (DOWNWARD)
14	P	MIRROR SELECT SW (LH)
15	R	MIRROR SW (DOWNWARD)
16	W	MIRROR SW (RIGHTWARD)
17	G	MIRROR SENSOR (RH HORIZONTAL)
18	BG	MIRROR SENSOR (LH HORIZONTAL)
19	L	TELESCOPIC SW (BACKWARD)
20	Y	GND (SENSOR GND)
21	BG	POWER SUPPLY (SENSOR FOR 5V)
22	SB	MIRROR MOTOR [RH COMMON (DOWN&RIGHT)]
23	L	MIRROR MOTOR [LH VERTICAL (UP)]
24	BG	MIRROR MOTOR [LH HORIZONTAL (LEFT)]

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

H.S.

25	26
27	28	29	30

Terminal No.	Color of Wire	Signal Name
25	L	BAT (PTC)
26	V	TELESCOPIC MOTOR (BACKWARD)
27	L	POWER SUPPLY (SENSOR)
28	SB	TILT MOTOR (DOWNWARD)
29	BR	STRG MOTOR COMMON (UPWARD/ FORWARD)
30	GR	GND (POWER)

AAJIA0589GB

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN

H.S.

7R	6R	5R	4R		3R	2R	1R
16R	15R	14R	13R	12R	11R	10R	9R	8R

Terminal No.	Color of Wire	Signal Name
12R	V	–

Connector No.	M82
Connector Name	CIRCUIT BREAKER-2
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	L	–

Terminal No.	Color of Wire	Signal Name
7A	L	– (WITH AUTOMATIC DRIVE POSITIONER)
76A	BG	–
85A	P	–
86A	L	–
87A	P	–
88A	L	–

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

137	136	135	134	133	132	131	130	129
143	142	141	140	139	138			

Terminal No.	Color of Wire	Signal Name
131	W	BAT BCM FUSE
134	GR	GND2
139	L	BAT POWER F/L
143	GR	GND1

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

1A	2A	3A	4A	5A
6A	7A	8A	9A	10A

11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A
	22A	23A	24A	25A	26A	27A	28A	29A	30A	
31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A
	42A	43A	44A	45A	46A	47A	48A	49A	50A	
51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A
	62A	63A	64A	65A	66A	67A	68A	69A	70A	
71A	72A	73A	74A	75A	76A	77A	78A	79A	80A	81A
	82A	83A	84A	85A	86A	87A	88A	89A	90A	

91A	92A	93A	94A	95A
96A	97A	98A	99A	100A

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
9	LG	–
10	V	–
11	SB	–
12	BR	–
13	Y	–
14	SB	–
15	L	–
16	G	–

AAJIA0590GB

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
21	P	–
22	L	–
28	P	–
29	L	–

Connector No.	M85
Connector Name	TILT MOTOR
Connector Color	WHITE

H.S.

1		2
3	4	5	6

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	SB	–
3	Y	–
4	L	–
5	L	–

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

H.S.

1B	2B	3B	4B	5B	6B	7B	8B	9B	10B	11B	12B	13B	14B	15B
16B	17B	18B	19B	20B	21B	22B	23B	24B	25B	26B	36B	37B	38B	39B	40B	41B	42B	43B	44B	45B	46B
27B	28B	29B	30B	31B	32B	33B	34B	35B			47B	48B	49B	50B	51B	52B	53B	54B	55B	56B	

Terminal No.	Color of Wire	Signal Name
43B	BG	–
44B	W	–
45B	Y	–
46B	G	–
53B	G	– (WITH AUTOMATIC DRIVE POSITIONER)
54B	BR	– (WITH AUTOMATIC DRIVE POSITIONER)
55B	SB	– (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M94
Connector Name	TELESCOPIC MOTOR
Connector Color	BROWN

H.S.

1		2
3	4	5	6

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	V	–
3	Y	–

Terminal No.	Color of Wire	Signal Name
4	SB	–
5	L	–

AAJIA0591GB

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
18	Y	–
19	Y	–
20	Y	–
21	Y	–
22	Y	–

Terminal No.	Color of Wire	Signal Name
38C	G	–
39C	R	–
40C	GR	–
41C	P	–
43C	BG	–
44C	R	–
45C	Y	–
46C	BG	–
47C	Y	–
48C	BR	–
49C	SB	–
50C	V	–
51C	LG	–
52C	V	–
53C	BG	– (WITH AUTOMATIC DRIVE POSITIONER)
54C	L	– (WITH AUTOMATIC DRIVE POSITIONER)
55C	LG	– (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
15C	B	–
36C	W	–
37C	P	–

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
23	BG	–
25	BG	–

AAJIA0592GB

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

H.S.

Terminal No.	Color of Wire	Signal Name
3	O	–

Terminal No.	Color of Wire	Signal Name
6	L	–
7	Y	–
8	W/V	–
9	Y/V	–
10	G/W	–
11	BR/Y	–
12	W/L	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
5G	P	–

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	BR	–
3	B	–
4	P	–
5	L	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
9	G/W	–
10	Y/V	–
11	BR/Y	–
12	W/V	–
13	Y	–
14	BR	–
15	L	–
16	W/L	–

AAJIA0593GB

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

5A	4A	3A	2A	1A
	9A	8A	7A	6A
10A				

21A	20A	19A	18A	17A	16A	15A	14A	13A	12A	11A
	30A	29A	28A	27A	26A	25A	24A	23A	22A	
41A	40A	39A	38A	37A	36A	35A	34A	33A	32A	31A
		50A	49A	48A	47A	46A	45A	44A	43A	42A
61A	60A	59A	58A	57A	56A	55A	54A	53A	52A	51A
	70A	69A	68A	67A	66A	65A	64A	63A	62A	
81A	80A	79A	78A	77A	76A	75A	74A	73A	72A	71A
	90A	89A	88A	87A	86A	85A	84A	83A	82A	
95A	94A	93A	92A	91A						
100A	99A	98A	97A	96A						

Terminal No.	Color of Wire	Signal Name
7A	L	–
76A	O	–
85A	P	–
86A	L	–
87A	P	–
88A	L	–

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
21	P	–
22	L	–
28	P	–
29	L	–

Connector No.	B207
Connector Name	LIFTING MOTOR LH (REAR)
Connector Color	WHITE

H.S.

3	2	1
6	5	4

Terminal No.	Color of Wire	Signal Name
1	R	–
2	B	–
3	W	–
4	L	–
6	Y	–

Terminal No.	Color of Wire	Signal Name
6	R	–
7	Y	–
8	G	–
9	V	–
10	GR	–
11	L	–
12	SB	–

Connector No.	B200
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

5	4	3		2	1
12	11	10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	W	–
3	B	–
4	W	–
5	P	–

AAJIA0594GB

Connector No.	B208
Connector Name	POWER SEAT SWITCH LH
Connector Color	WHITE

H.S.

4	3		2	1
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	–
2	R	–
3	B	–
5	G	–
6	Y	–
7	L	–
8	SB	–
9	P	–
10	BR	–

Connector No.	B209
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	W	POWER SUPPLY (ENCODER)
6	R	REAR LIFTER SW (DOWNWARD)
7	Y	FRONT LIFTER SW (DOWNWARD)
8	BR	RECLINER SW (BACKWARD)
9	SB	SLIDE SW (BACKWARD)
10	G	IND 2
11	GR	ADDRESS 2
12	W	PULSE (TELESCOPIC)
13	G	PULSE (RECLINER)
14	–	–
15	SB	UART (TX/RX)
16	P	CAN-H
17	–	–
18	–	–
19	–	–
20	–	–
21	L	SET SW
22	V	REAR LIFTER SW (UPWARD)
23	G	FRONT LIFTER SW (UPWARD)
24	P	RECLINER SW (FORWARD)
25	L	SLIDE SW (FORWARD)
26	Y	IND 1
27	V	ADDRESS 1
28	BR	PULSE (TILT)
29	R	PULSE (REAR LIFTER)
30	Y	PULSE (FRONT LIFTER)
31	LG	PULSE (SLIDE)
32	W	CAN-L

AAJIA0595GB

Connector No.	B210
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
33	–	–
34	SB	FRONT LIFTER MOTOR (UPWARD)
35	V	RECLINER MOTOR (FORWARD)
36	W	SLIDE MOTOR (BACKWARD)

Connector No.	B211
Connector Name	SLIDING MOTOR LH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	–
2	LG	–
3	B	–
4	W	–
5	G	–

Terminal No.	Color of Wire	Signal Name
37	R	BAT (PTC)
38	–	–
39	B	GND
40	L	REAR LIFTER MOTOR (DOWNWARD)
41	Y	REAR LIFTER MOTOR (UPWARD)
42	GR	FRONT LIFTER MOTOR (DOWNWARD)
43	BR	RECLINER MOTOR (BACKWARD)
44	G	SLIDE MOTOR (FORWARD)

Connector No.	B217
Connector Name	RECLINING MOTOR LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	B	–
3	W	–
4	BR	–
6	V	–

Connector No.	B218
Connector Name	LIFTING MOTOR LH (FRONT)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	B	–
3	W	–
4	GR	–
6	SB	–

Connector No.	B224
Connector Name	JOINT CONNECTOR-B22
Connector Color	PINK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	–
5	B	–
6	B	–
7	B	–
8	B	–
9	B	–
10	B	–
16	W	–
17	W	–
18	W	–
19	W	–
20	W	–

AAJIA0596GB

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
15C	B	–
36C	W	–
37C	GR/Y	–
38C	G/BR	–
39C	W/G	–
40C	GR	–
41C	W	–
43C	L/O	–
44C	G/W	–
45C	Y	–
46C	V/G	–
47C	Y/O	–
48C	GR/O	–

Terminal No.	Color of Wire	Signal Name
49C	Y/V	–
50C	BR/Y	–
51C	L/R	–
52C	V	–
53C	L/BR	– (WITH AUTOMATIC DRIVE POSITIONER)
54C	G/W	– (WITH AUTOMATIC DRIVE POSITIONER)
55C	O	– (WITH AUTOMATIC DRIVE POSITIONER)

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

H.S.

Terminal No.	Color of Wire	Signal Name
3	G/W	–
4	L/O	–
7	O	–
8	L/BR	– (WITH AUTOMATIC DRIVE POSITIONER)
15	V/G	–
16	Y	–
19	G/W	–

Connector No.	D22
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR/Y	–
3	GR	–
4	W	–
9	W	–
12	G/BR	–
15	B	–
16	W/G	–

Connector No.	D23
Connector Name	SEAT MEMORY SWITCH
Connector Color	WHITE

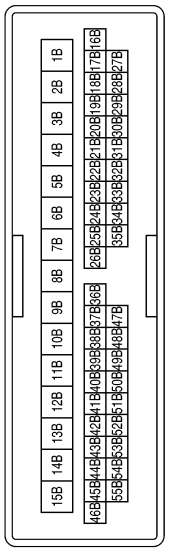
H.S.

Terminal No.	Color of Wire	Signal Name
2	Y/V	–
9	B	–
10	BR/Y	–
13	GR/O	–
14	Y/O	–
15	V	–
16	L/R	–

AAJIA0597GB

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

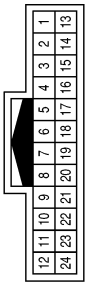
H.S.



Terminal No.	Color of Wire	Signal Name
43B	V/GR	–
44B	BR/G	–
45B	L/GR	–
46B	Y/GR	–
53B	G/W	–
54B	BR	–
55B	L/W	–

Connector No.	D107
Connector Name	DOOR MIRROR RH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
3	BR/G	–
4	V/GR	–
7	L/W	–
8	G/W	–
15	Y/GR	–
16	L/GR	–
19	BR	–

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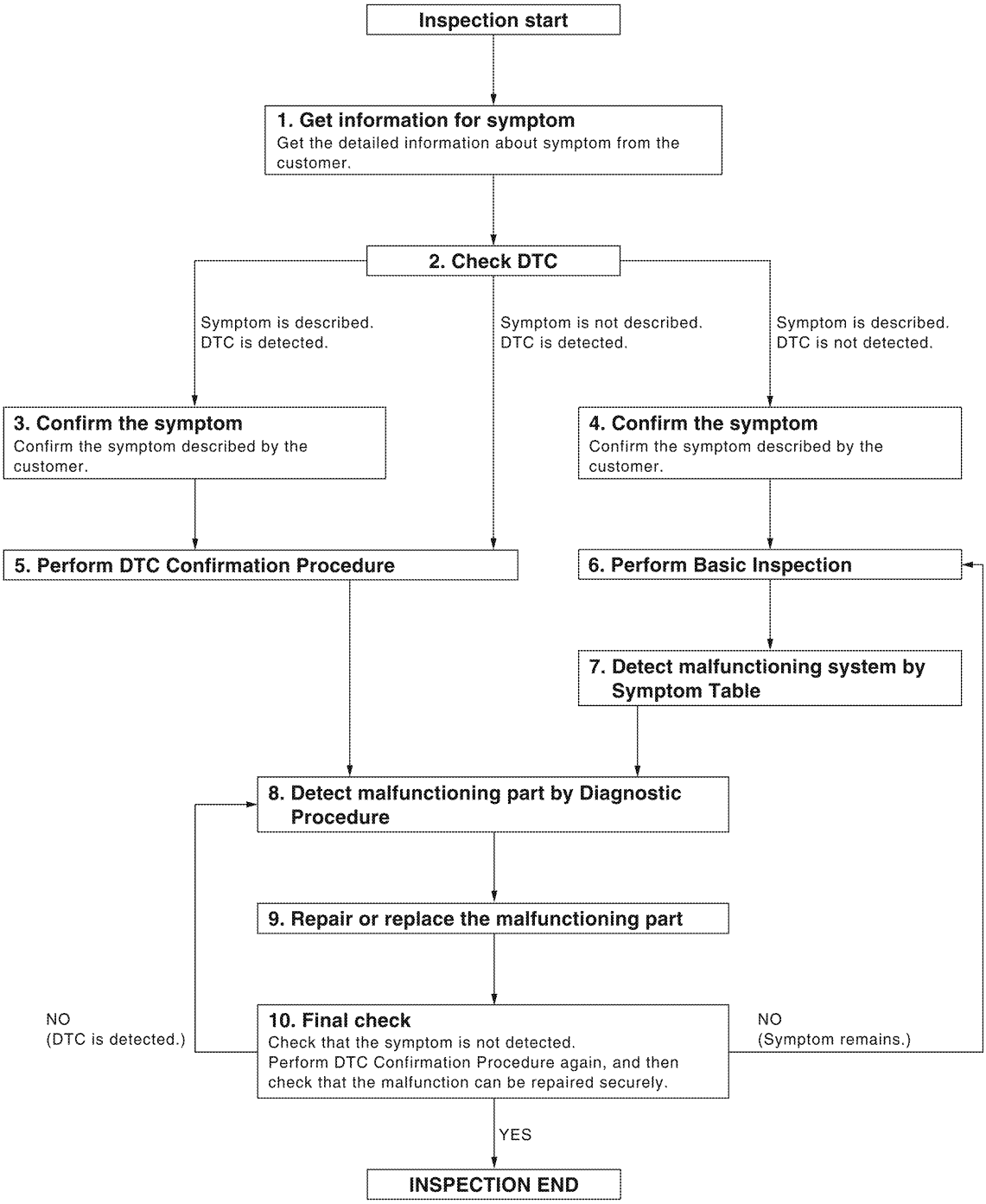
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011219186

WORK FLOW



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DETAILED FLOW

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

Check “Self Diagnostic Result” with CONSULT.
Refer to ADP-31, "DTC Index".

Is any symptom described and is any DTC displayed?

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

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 8.
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

6. PERFORM BASIC INSPECTION

Isolate the malfunctioning point with a basic inspection.

>> GO TO 7.

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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.

>> GO TO 8.

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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

>> GO TO 9.

9. REPAIR OR REPLACE

Repair or replace the malfunctioning part.

>> GO TO 10.

10. 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 6.
DTC is detected.>> GO TO 8.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Work Procedure

INFOID:0000000011219188

1. SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-56, "SYSTEM INITIALIZATION : Work Procedure".

>> GO TO 2.

2. MEMORY STORAGE

Perform memory storage. Refer to ADP-56, "MEMORY STORING : Work Procedure".

>> GO TO 3.

3. INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to ADP-57, "LINKING KEY FOB TO THE METER DISPLAY : Work Procedure".

>> GO TO 4.

4. SYSTEM SETTING

Perform system setting. Refer to ADP-58, "SYSTEM SETTING : Work Procedure".

>> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000011219189

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 storing
Entry/exit assist	ON	Perform initialization
		Set slide amount*1
Linking a key fob to meter display	Erased	Perform initialization
		Perform storing

*1: Default value is 40 mm.

NOTE:
Notice that disconnecting the battery when detected DTC is present will erase the DTC memory.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Work Procedure

INFOID:0000000011219190

1. SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-56, "SYSTEM INITIALIZATION : Work Procedure".

>> GO TO 2.

2. MEMORY STORAGE

Perform memory storage. Refer to ADP-56, "MEMORY STORING : Work Procedure".

>> GO TO 3.

3.INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to ADP-57, "LINKING KEY FOB TO THE METER DISPLAY : Work Procedure".

>> GO TO 4.

4.SYSTEM SETTING

Perform system setting. Refer to ADP-58, "SYSTEM SETTING : Work Procedure".

>> Inspection End.

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION : Description

INFOID:0000000011219191

Always perform the initialization when the battery terminal is disconnected or the driver seat control unit is replaced.
The entry/exit assist function will not operate normally if no initialization is performed.

SYSTEM INITIALIZATION : Work Procedure

INFOID:0000000011219192

INITIALIZATION PROCEDURE

1. CHOOSE METHOD

There are two initialization methods.
Which method do you use?
With door switch>> GO TO 2.
With vehicle speed>> GO TO 4.

2. STEP A-1

Turn ignition switch from ACC to OFF position.

>> GO TO 3.

3. STEP A-2

Driver door switch is ON (open) → OFF (close) → ON (open).

>> Inspection End.

4. STEP B-1

Drive the vehicle at more than 25 km/h (16 MPH).

>> Inspection End.

MEMORY STORING

MEMORY STORING : Description

INFOID:0000000011219193

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

MEMORY STORING : Work Procedure

INFOID:0000000011219194

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

1.STEP 1

Check the following conditions.
- Ignition switch: ON
- CVT shift selector: P (Park) position

>> GO TO 2.

2.STEP 2

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

>> GO TO 3.

3.STEP 3

1. Push set switch.
   NOTE:
   - Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.
   - Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 seconds.
2. Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch.
   NOTE:
   - To enter driver seat positions into blank memory, memory indicator will be turned on for 5 seconds.
   - To modify driver seat positions, memory indicator will be turned OFF for 0.5 seconds then turned ON for 5 seconds.

   NOTE:
   If memory is stored in the same memory switch, the previous memory will be deleted.

>> GO TO 4.

4.STEP 4

Confirm the operation of each part with memory operation.

>> Inspection End.

LINKING KEY FOB TO THE METER DISPLAY

LINKING KEY FOB TO THE METER DISPLAY : Description

INFOID:0000000011219195

Always perform when the battery terminal is disconnected or the driver seat control unit is replaced. Linking key fob to the meter display will not operate normally if no memory storage is performed.

LINKING KEY FOB TO THE METER DISPLAY : Work Procedure

INFOID:0000000011219196

Intelligent Key Interlock Storage Procedure

Performing the following operation associates the registered driving position with Intelligent Key. When driver door unlock operation is performed by Intelligent Key or driver door request switch, display of the registered driving position and turnout operation can be performed.

1.STEP 1

Check the following conditions:
- Ignition switch: ON
- Initialization: done
- Driving position: registered

>> GO TO 2.

2.STEP 2

1. Switch ignition from ON to OFF (ADP memory automatically at the ignition OFF timing).

>> GO TO 3.

3.STEP 3

Confirm the operation of each part with memory operation and linking a key fob to the meter display operation.

>> Inspection End.

SYSTEM SETTING

SYSTEM SETTING : Description

INFOID:0000000011219197

The settings of the automatic drive positioner system can be changed using CONSULT, the display unit in the center of the instrument panel and the set switch. Always check the settings before and after disconnecting the battery terminal or replacing driver seat control unit.

Setting Change

×: Applicable

Item	Content	CONSULT	Set switch	Factory setting
Amount of seat sliding for entry/exit assist	The amount of seat sliding for entry/exit assist can be selected from 3 items. [40 mm/80 mm/150 mm]	x	—	40 mm
Entry/exit assist (seat)	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	x	x	ON
Entry/exit assist (steering column)	Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated)	x		ON

SYSTEM SETTING : Work Procedure

INFOID:0000000011219198

1. CHOOSE METHOD

There are two setting methods.

Which method do you choose?

With CONSULT>> GO TO 2.
With set switch>> GO TO 4.

2. WITH CONSULT - STEP 1

Select “Work support”.

>> GO TO 3.

3. WITH CONSULT - STEP 2

1. Select “EXIT SEAT SLIDE SETTING”, or “EXIT TILT SETTING” then touch display to change between ON and OFF.
- EXIT SEAT SLIDE SETTING: Entry/exit assist (seat)
- EXIT TILT SETTING: Entry/exit assist (steering column)
2. Select “SEAT SLIDE VOLUME SET” and touch either “40 mm”, “80 mm”, or “150 mm”.
3. Then touch “OK”.

>> Inspection End.

4. WITH SET SWITCH - STEP 1

Turn ignition switch OFF.

>> GO TO 5.

5. WITH SET SWITCH - STEP 2

Push set switch and hold for more than 10 seconds then confirm blinking of the memory switch indicator.
• Entry/exit assist (seat/steering column) is ON: Memory switch indicator blinks two times.

- Entry/exit assist (seat/steering column) is OFF: Memory switch indicator blinks once.

>> Inspection End.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:0000000011219200

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
U1000	CAN COMM CIRCUIT (CAN communication circuit)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON and wait at least 2 seconds.

>> GO TO 2.

2. STEP 2

CONSULT
Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-60, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011219201

1. SELF DIAGNOSTIC RESULT

CONSULT
1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Check DTC.

Is DTC “U1000” displayed?

YES >> Refer to LAN-21, "Trouble Diagnosis Flow Chart".
NO >> GO TO 2.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:0000000011219204

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
U1010	CONTROL UNIT (Control unit)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

BCM

FAIL-SAFE

—

Diagnosis Procedure

INFOID:0000000011219205

1. REPLACE DRIVER SEAT CONTROL UNIT

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

>> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

B2112 SLIDING MOTOR

DTC Description

INFOID:0000000011219207

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2112	SEAT SLIDE (Seat slide)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Sliding motor LH circuit (terminals 4 and 5 to ground)
		Threshold	Approx. 0V
		Diagnosis delay time	0.1 seconds or more

POSSIBLE CAUSE

- Driver seat control unit
- Slide motor harness is shorted

FAIL-SAFE

Only manual functions, except seat sliding, operate normally.

DTC CONFIRMATION PROCEDURE

1.SELF-DIAGNOSIS WITH AUTOMATIC DRIVE POSITIONER CONTROL UNIT

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-62, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011219208

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1.SELF DIAGNOSTIC RESULT

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” of “AUTO DRIVE POS”.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-66, "DTC Description".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2.CHECK SLIDING MOTOR LH CIRCUIT (POWER SHORT)

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

(+)		(–)	Voltage (V) (Approx.)
Sliding motor LH			
Connector	Terminals		
B211	1	Ground	0V
	5		

Is the inspection result normal?

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

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminals		
B210	36	Ground	0V
	44		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

B2113 RECLINING MOTOR

DTC Description

INFOID:0000000011219210

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2113	SEAT RECLINING (Seat reclining)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Reclining motor LH circuit (terminals 4 and 6 to ground)
		Threshold	Approx. 0V
		Diagnosis delay time	0.1 seconds or more

POSSIBLE CAUSE

- Driver seat control unit
- Reclining motor harness is shorted

FAIL-SAFE

Only manual functions, except seat reclining, operate normally.

DTC CONFIRMATION PROCEDURE

1.SELF-DIAGNOSIS WITH AUTOMATIC DRIVE POSITIONER CONTROL UNIT

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Check DTC.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-64, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011219211

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-64, "DTC Description".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2.CHECK RECLINING MOTOR LH CIRCUIT (POWER SHORT)

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

(+)		(–)	Voltage (V) (Approx.)
Reclining motor LH			
Connector	Terminals		
B217	4	Ground	0
	6		

Is the inspection result normal?

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

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminals		
B210	35	Ground	0
	43		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

B2116 TILT MOTOR

DTC Description

INFOID:0000000011219213

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2116	STEERING TILT (Steering tilt)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Steering tilt motor circuit (terminals 1 and 2 to ground)
		Threshold	Approx. 0V
		Diagnosis delay time	0.1 seconds or more

POSSIBLE CAUSE

- Automatic drive positioner control unit
- Tilt motor harness is shorted

FAIL-SAFE

Only manual functions, except steering tilt, operate normally.

DTC CONFIRMATION PROCEDURE

1.SELF-DIAGNOSIS WITH AUTOMATIC DRIVE POSITIONER CONTROL UNIT

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Check DTC.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-66, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011219214

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-66, "DTC Description".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2.CHECK TILT MOTOR CIRCUIT (POWER SHORT)

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

(+)		(–)	Voltage (V) (Approx.)
Tilt motor			
Connector	Terminals		
M85	1	Ground	0V
	2		

Is the inspection result normal?

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

3. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Automatic drive positioner control unit			
Connector	Terminals		
M34	28	Ground	0V
	29		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".

B2128 UART COMMUNICATION LINE

DTC Description

INFOID:0000000011219216

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2128	UART COMM (Universal asynchronous receiver transmitter communication)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	—
		Diagnosis delay time	—

POSSIBLE CAUSE

- UART communication line
  (UART communication line is open or shorted)
- Driver seat control unit
- Automatic drive positioner control unit

FAIL-SAFE

Only manual functions, except door mirror, operate normally.

DTC CONFIRMATION PROCEDURE

1.SELF-DIAGNOSIS WITH AUTOMATIC DRIVE POSITIONER CONTROL UNIT

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Check DTC.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-68, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011219217

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-68, "DTC Description".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

2. CHECK UART COMMUNICATION LINE CONTINUITY

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

Driver seat control unit connector		Automatic drive positioner control unit connector		Continuity
Connector	Terminal	Connector	Terminal	
B209	15	M33	8	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	15		No

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Repair or replace harness.

B2130 EEPROM

DTC Description

INFOID:0000000011219218

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2130	EEPROM (EEPROM malfunction)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	—
		Diagnosis delay time	—

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.SELF-DIAGNOSIS WITH AUTOMATIC DRIVE POSITIONER CONTROL UNIT

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Check DTC.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-70, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011219219

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO DRIVE POS”.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-70, "DTC Description".

Is the DTC displayed again?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> GO TO 2.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000011556897

Regarding Wiring Diagram information, refer to BCS-55, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Fusible link battery power	L (40A)
BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M81.
2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M81	131	—	Battery voltage
	139		

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	134	—	Yes
	143		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000011219221

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

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1.CHECK FUSE

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

Signal name	Fuse No.
Battery power supply	L (40 A)

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2. CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Power source	Condition	Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B210	37	Ground	Battery power supply	Ignition switch OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following:
- Repair or replace harness.
- Circuit breaker-2.

3. CHECK GROUND CIRCUIT

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B210	39		Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:0000000011219222

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to ADP-55, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Work Procedure"'.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:0000000011219223

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

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1.CHECK FUSE

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

Signal name	Fuse No.
Battery power supply	L (40 A)

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2. CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (V) (Approx.)
Automatic drive positioner control unit			
Connector	Terminal		
M34	25	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following:
- Repair or replace harness.
- Circuit breaker-2.

3. CHECK GROUND CIRCUIT

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M34	30		Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Special Repair Requirement

INFOID:0000000011219224

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to ADP-55, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Work Procedure".

SLIDING SWITCH

Component Function Check

INFOID:0000000011219226

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “SLIDE SW-FR”, “SLIDE SW-RR”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-74, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219227

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK SLIDING SWITCH SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminals				
B209	9	Ground	Sliding switch	Operate (backward)	0
				Release	Battery voltage
	25			Operate (forward)	0
				Release	Battery voltage

Is the inspection result normal?

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

2. CHECK SLIDING SWITCH CIRCUIT

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

Driver seat control unit		Power seat switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	9	B208	8	Yes
	25		7	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	9		No
	25		

Is the inspection result normal?

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminal		
B209	9	Ground	Battery voltage
	25		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

4. CHECK SLIDING SWITCH

Refer to ADP-75, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace malfunctioning part.

Component Inspection

INFOID:0000000011219228

1. CHECK SLIDING SWITCH

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

Power seat switch LH		Condition		Continuity
Terminal				
3	8	Sliding switch (backward)	Operate	Yes
			Release	No
	7	Sliding switch (forward)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

RECLINING SWITCH

Component Function Check

INFOID:0000000011219230

1.DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “RECLN SW-FR”, “RECLN SW-RR”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-76, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219231

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK RECLINING SWITCH SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B209	24	Ground	Reclining switch	Operate (forward)	0
				Release	Battery voltage
	8			Operate (backward)	0
				Release	Battery voltage

Is the inspection result normal?

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

2. CHECK RECLINING SWITCH CIRCUIT

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

Driver seat control unit		Power seat switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	24	B208	9	Yes
	8		10	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	24		No
	8		

Is the inspection result normal?

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminal		
B209	8	Ground	Battery voltage
	24		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

4. CHECK RECLINING SWITCH

Refer to ADP-77, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000011219232

1. CHECK RECLINING SWITCH

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

Power seat switch LH		Condition		Continuity
Terminal				
3	10	Reclining switch (backward)	Operate	Yes
			Release	No
	9	Reclining switch (forward)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

LIFTING SWITCH (FRONT)

Component Function Check

INFOID:0000000011219234

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “LIFT FR SW-UP”, “LIFT FR SW-DN”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-78, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219235

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK LIFTING SWITCH SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B209	7	Ground	Lifting switch (front)	Operate (down)	0V
				Release	Battery voltage
	23			Operate (up)	0V
				Release	Battery voltage

Is the inspection result normal?

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

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

Driver seat control unit		Power seat switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	7	B208	6	Yes
	23		5	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	7		No
	23		

Is the inspection result normal?

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminal		
B209	7	Ground	Battery voltage
	23		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

4. CHECK LIFTING SWITCH (FRONT)

Refer to ADP-79, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000011219236

1. CHECK LIFTING SWITCH (FRONT)

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

LIFTING SWITCH (REAR)

Component Function Check

INFOID:0000000011219238

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “LIFT RR SW-UP”, “LIFT RR SW-DN”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-80, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219239

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B209	6	Ground	Lifting switch (rear)	Operate (down)	0
				Release	Battery voltage
	22			Operate (up)	0
				Release	Battery voltage

Is the inspection result normal?

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

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seat control unit		Power seat switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	6	B208	2	Yes
	22		1	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	6		No
	22		

Is the inspection result normal?

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminal		
B209	6	Ground	Battery voltage
	22		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".

4. CHECK LIFTING SWITCH (REAR)

Refer to ADP-81, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000011219240

1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch LH		Condition		Continuity
Terminal				
3	1	Lifting switch rear (up)	Operate	Yes
			Release	No
	2	Lifting switch rear (down)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace power seat switch LH. Refer to ADP-135, "Removal and Installation".

TILT SWITCH

Component Function Check

INFOID:0000000011219242

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “TILT SW-UP”, “TILT SW-DOWN”.
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition		Status
TILT SW-UP	Tilt switch (up)	Operate	ON
		Release	OFF
TILT SW-DOWN	Tilt switch (down)	Operate	ON
		Release	OFF

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-82, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219243

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK TILT SWITCH SIGNAL

1. Disconnect ADP steering switch (tilt switch).
2. Check voltage between ADP steering switch harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
ADP steering switch (tilt switch)			
Connector	Terminal		
M16	5	Ground	Battery voltage
	2		

Is the inspection result normal?

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

2. CHECK TILT SWITCH CIRCUIT

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

Automatic drive positioner control unit		ADP steering switch (tilt switch)		Continuity
Connector	Terminal	Connector	Terminal	
M33	1	M16	5	Yes
	13		2	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	1		No
	13		

Is the inspection result normal?

YES >> Replace automatic drive positioner unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK TILT SWITCH

Refer to ADP-83, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace ADP steering switch (tilt switch). Refer to ADP-136, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000011219244

1. CHECK TILT SWITCH

1. Turn ignition switch OFF.
2. Disconnect ADP steering switch (tilt switch).
3. Check continuity between ADP steering switch terminals.

ADP steering switch (tilt switch)		Condition		Continuity
Terminal				
3	5	Tilt switch (up)	Operate	Yes
			Release	No
	2	Tilt switch (down)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace ADP steering switch (tilt switch). Refer to ADP-136, "Removal and Installation".

TELESCOPIC SWITCH

Component Function Check

INFOID:0000000011219246

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “TELESCO SW-FR”, “TELESCO SW-RR”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-84, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219247

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK TELESCOPIC SWITCH SIGNAL

1. Disconnect ADP steering switch (telescopic switch).
2. Check voltage between ADP steering switch harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
ADP steering switch (telescopic switch)			
Connector	Terminal		
M16	1	Ground	Battery voltage
	6		

Is the inspection result normal?

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

2. CHECK TELESCOPIC SWITCH CIRCUIT

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

Automatic drive positioner control unit		ADP steering switch (telescopic switch)		Continuity
Connector	Terminal	Connector	Terminal	
M33	7	M16	1	Yes
	19		6	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	7		No
	19		

Is the inspection result normal?

YES >> Replace automatic drive positioner unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK TELESCOPIC SWITCH

Refer to ADP-85, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace ADP steering switch (telescopic switch). Refer to ADP-136, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000011219248

1. CHECK TELESCOPIC SWITCH

1. Turn ignition switch OFF.
2. Disconnect ADP steering switch (telescopic switch).
3. Check continuity between ADP steering switch terminals.

ADP steering switch (telescopic switch)		Condition		Continuity
Terminal				
3	1	Telescopic switch (forward)	Operate	Yes
			Release	No
	6	Telescopic switch (backward)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace ADP steering switch (telescopic switch). Refer to ADP-136, "Removal and Installation".

SEAT MEMORY SWITCH

Component Function Check

INFOID:0000000011219250

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “"MEMORY SW 1", “MEMORY SW 2”, "SET SW".
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-86, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219251

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK SEAT MEMORY SWITCH SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Seat memory switch			
Connector	Terminal		
D23	2	Ground	5
	10		
	16		

Is the inspection result normal?

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

2. CHECK MEMORY SWITCH CIRCUIT

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

Driver seat control unit		Seat memory switch		Continuity
Connector	Terminal	Connector	Terminal	
B209	11	D23	16	Yes
	21		2	
	27		10	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	11		No
	21		
	27		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK MEMORY SWITCH GROUND CIRCUIT

Check continuity between seat memory switch harness connector and ground.

Seat memory switch		Ground	Continuity
Connector	Terminal		
D23	9		Yes

Is the inspection result normal?

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

4. CHECK SEAT MEMORY SWITCH

Refer to ADP-87, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace seat memory switch. Refer to ADP-134, "Removal and Installation".

Component Inspection

INFOID:0000000011219252

1. CHECK SEAT MEMORY SWITCH

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

Seat memory switch		Condition		Continuity
Terminal				
9	10	Memory switch 1	Push	Yes
			Release	No
	16	Memory switch 2	Push	Yes
			Release	No
	2	Set switch	Push	Yes
			Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace seat memory switch. Refer to ADP-134, "Removal and Installation".

DOOR MIRROR REMOTE CONTROL SWITCH
SELECT SWITCH

SELECT SWITCH : Component Function Check

INFOID:0000000011219254

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “MIR CHNG SW-R”, “MIR CHNG SW-L”.
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition		Status
MIR CHNG SW-R	Mirror switch (right)	Operate	ON
		Release	OFF
MIR CHNG SW-L	Mirror switch (left)	Operate	ON
		Release	OFF

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-89, "SELECT SWITCH : Diagnosis Procedure".

SELECT SWITCH : Diagnosis Procedure

INFOID:0000000011219255

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK SELECT SWITCH SIGNAL

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

(+)		(-)	Select switch condition	Voltage (V) (Approx.)
Automatic drive positioner control unit				
Connector	Terminal			
M33	2	Ground	RIGHT	0
			Other than above	5
	14		LEFT	0
			Other than above	5

Is the inspection result normal?

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

2. CHECK HARNESS CONTINUITY

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

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M33	2	D22	3	Yes
	14		4	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	2		No
	14		

Is the inspection result normal?

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

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
D22	15		Yes

Is the inspection result normal?

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

4. CHECK SELECT SWITCH

Check select switch.
Refer to ADP-90, "SELECT SWITCH : Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-42, "Intermittent Incident".
NO >> Replace door mirror remote control switch. Refer to MIR-27, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace the malfunctioning parts.

SELECT SWITCH : Component Inspection

INFOID:0000000011219256

1. CHECK SELECT SWITCH

Check door mirror remote control switch.

Door mirror remote control switch		Select switch condition	Continuity
Terminal			
4	15	LEFT	Yes
		Other than above	No
3		RIGHT	Yes
		Other than above	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace door mirror remote control switch. Refer to MIR-27, "Removal and Installation".

MIRROR SWITCH

MIRROR SWITCH : Component Function Check

INFOID:0000000011219258

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “MIR CON SW-UP/DN”,“MIR CON SW-RH/LH “.
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition		Status
MIR CON SW-UP/DN	Mirror switch (up/down)	Operate	ON
		Release	OFF
MIR CON SW-RH/LH	Mirror switch (right/left)	Operate	ON
		Release	OFF

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-91, "MIRROR SWITCH : Diagnosis Procedure".

MIRROR SWITCH : Diagnosis Procedure

INFOID:0000000011219259

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK MIRROR SWITCH FUNCTION

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

(+) Automatic drive positioner control unit		(–)	Mirror switch condition	Voltage (V) (Approx.)
Connector	Terminal			
M33	3	Ground	UP	0
			Other than above	5
	4		LEFT	0
			Other than above	5
	15		DOWN	0
			Other than above	5
	16		RIGHT	0
			Other than above	5

Is the inspection result normal?

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

2. CHECK HARNESS CONTINUITY

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

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M33	3	D22	12	Yes
	4		1	
	15		16	
	16		9	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	3	Ground	No
	4		
	15		
	16		

Is the inspection result normal?

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

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
D22	15		Yes

Is the inspection result normal?

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

4. CHECK MIRROR SWITCH

Check mirror switch.
Refer to ADP-92, "MIRROR SWITCH : Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-42, "Intermittent Incident".
NO >> Replace door mirror remote control switch. Refer to MIR-27, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace the malfunctioning parts.

MIRROR SWITCH : Component Inspection

INFOID:0000000011219260

1. CHECK MIRROR SWITCH

Check door mirror remote control switch.

Door mirror remote control switch	Mirror switch condition	Continuity
Terminal		

9	15	RIGHT	Yes
		Other than above	No
1		LEFT	Yes
		Other than above	No
12		UP	Yes
		Other than above	No
16		DOWN	Yes
		Other than above	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to MIR-27, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000011219261

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

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

Power seat switch LH		Ground	Continuity
Connector	Terminal		
B208	3		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Repair or replace harness.

TILT &TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000011219262

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect ADP steering switch (tilt & telescopic switch).
3. Check continuity between ADP steering switch (tilt & telescopic switch) and ground.

ADP steering switch (tilt & telescopic switch)		Ground	Continuity
Connector	Terminal		
M16	3		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Repair or replace harness.

SLIDING SENSOR

Component Function Check

INFOID:0000000011219264

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “SLIDE PULSE”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-96, "Diagnosis Procedure".

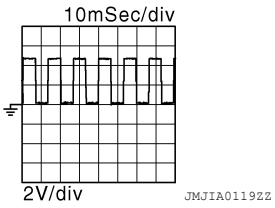
Diagnosis Procedure

INFOID:0000000011219265

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK SLIDING SENSOR SIGNAL

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

(+) Driver’s seat control unit		(–)	Condition		Voltage signal
Connector	Terminal				
B209	31	Ground	Seat sliding	Operate	
				Other than above	0 or 5V

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

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

Driver seat control unit		Sliding motor LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	31	B211	2	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	31		No

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.
2. Turn ignition switch ON.
3. Check voltage between sliding motor LH harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Sliding motor LH			
Connector	Terminal		
B211	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat control unit		Sliding motor LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	5	B211	4	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	5		No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK SLIDING SENSOR GROUND

1. Turn ignition switch OFF.
2. Check continuity between sliding motor LH harness connector and ground.

Sliding motor LH		Ground	Continuity
Connector	Terminal		
B211	3		Yes

Is the inspection result normal?

YES >> Replace sliding motor LH. Refer to SE-128, "Removal and Installation".
NO >> Repair or replace harness.

RECLINING SENSOR

Component Function Check

INFOID:0000000011219267

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “RECLN PULSE”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-98, "Diagnosis Procedure".

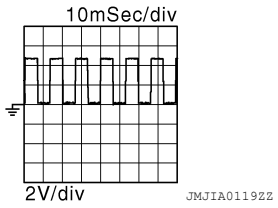
Diagnosis Procedure

INFOID:0000000011219268

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK RECLINING SENSOR SIGNAL

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

(+) Driver seat control unit		(–)	Condition		Voltage signal
Connector	Terminal				
B209	13	Ground	Seat reclining	Operate	
				Other than above	0 or 5V

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "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 LH.
3. Check continuity between driver seat control unit harness connector and reclining motor LH harness connector.

Driver seat control unit		Reclining motor LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	13	B217	1	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	13		No

Is the inspection result normal?

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

3. CHECK RECLINING SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Reclining motor LH			
Connector	Terminal		
B217	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat control unit		Reclining motor LH		Continuity
Connector	Terminal	Connector	Terminal	
B209	5	B217	3	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	5		No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK RECLINING SENSOR GROUND

1. Turn ignition switch OFF.
2. Check continuity between reclining motor LH harness connector and ground.

Reclining motor LH		Ground	Continuity
Connector	Terminal		
B217	2		Yes

Is the inspection result normal?

YES >> Replace reclining motor LH. Refer to SE-128, "Removal and Installation".
NO >> Repair or replace harness.

LIFTING SENSOR (FRONT)

Component Function Check

INFOID:0000000011219270

1.DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “LIFT FR PULSE”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-100, "Diagnosis Procedure".

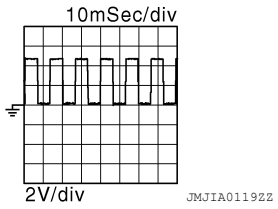
Diagnosis Procedure

INFOID:0000000011219271

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

(+)		(–)	Condition		Voltage signal
Driver seat control unit					
Connector	Terminal				
B209	30	Ground	Seat lifting (front)	Operate	
				Other than above	0 or 5V

Is the inspection result normal?

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

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

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

Driver seat control unit		Lifting motor LH (front)		Continuity
Connector	Terminal	Connector	Terminal	
B209	30	B218	1	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	30		No

Is the inspection result normal?

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

3. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY

1. Connect driver seat control unit.
2. Turn ignition switch ON.
3. Check voltage between lifting motor LH (front) harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Lifting motor LH (front)			
Connector	Terminal		
B218	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor LH (front)		Continuity
Connector	Terminal	Connector	Terminal	
B209	5	B218	3	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	5		No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK LIFTING SENSOR (FRONT) GROUND

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

Lifting motor LH (front)		Ground	Continuity
Connector	Terminal		
B218	2		Yes

Is the inspection result normal?

YES >> Replace lifting motor LH (front). Refer to SE-128, "Removal and Installation".
NO >> Repair or replace harness.

LIFTING SENSOR (REAR)

Component Function Check

INFOID:0000000011219273

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “LIFT RR PULSE”.
3. Check lifting sensor (rear) signal under the following conditions:

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

Is the inspection result normal?

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

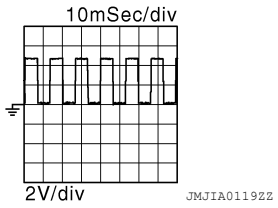
Diagnosis Procedure

INFOID:0000000011219274

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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

(+) Driver seat control unit		(–)	Condition		Voltage signal
Connector	Terminal				
B209	29	Ground	Seat lifting (rear)	Operate	
				Other than above	0 or 5V

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "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 LH (rear).
3. Check the continuity between driver seat control unit harness connector and lifting motor LH (rear) harness connector.

Driver seat control unit		Lifting motor LH (rear)		Continuity
Connector	Terminal	Connector	Terminal	
B209	29	B207	1	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	29		No

Is the inspection result normal?

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

3. CHECK LIFTING SENSOR (REAR) POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Lifting motor LH (rear)			
Connector	Terminal		
B207	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor LH (rear)		Continuity
Connector	Terminal	Connector	Terminal	
B209	5	B207	3	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	5		No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK LIFTING SENSOR (REAR) GROUND

1. Turn ignition switch OFF.
2. Check the continuity between lifting motor LH (rear) harness connector and ground.

Lifting motor LH (rear)		Ground	Continuity
Connector	Terminal		
B207	2		Yes

Is the inspection result normal?

YES >> Replace lifting motor LH (rear). Refer to SE-128, "Removal and Installation".
NO >> Repair or replace harness.

TILT SENSOR

Component Function Check

INFOID:0000000011219276

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “TILT PULSE”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-105, "Diagnosis Procedure".

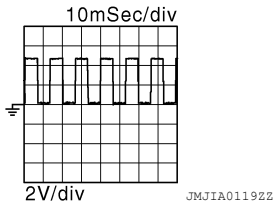
Diagnosis Procedure

INFOID:0000000011219277

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK TILT SENSOR SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B209	28	Ground	Steering column	Operate	
				Other than above	0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> GO TO 2.

2. CHECK TILT SENSOR CIRCUIT

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

Driver seat control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
B209	28	M85	4	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	28		No

Is the inspection result normal?

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

3. CHECK TILT SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Tilt motor			
Connector	Terminal		
M85	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK TILT SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive positioner control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
M34	27	M85	5	Yes

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M34	27		No

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace harness or connector.

5. CHECK TILT SENSOR GROUND CIRCUIT

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

Automatic drive positioner control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
M33	20	M85	3	Yes

Is the inspection result normal?

YES >> Replace tilt motor. Refer to ST-32, "Exploded View".
NO >> Repair or replace harness.

TELESCOPIC SENSOR

Component Function Check

INFOID:0000000011219279

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “TELESCO PULSE”.
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition		Value
TELESCO PULSE	Steering column	Operate (forward)	Change (decrease)
		Operate (backward)	Change (increase)
		Release	No change

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-107, "Diagnosis Procedure".

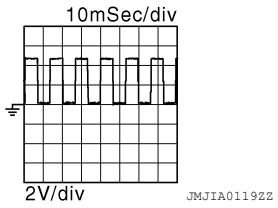
Diagnosis Procedure

INFOID:0000000011219280

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK TELESCOPIC SENSOR SIGNAL

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

(+) Driver seat control unit		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B209	12	Ground	Steering column	Operate	
				Other than above	0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> GO TO 2.

2. CHECK TELESCOPIC SENSOR CIRCUIT

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

Driver seat control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
B209	12	M94	4	Yes

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	12		No

Is the inspection result normal?

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

3. CHECK TELESCOPIC SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Telescopic motor			
Connector	Terminal		
M94	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK TELESCOPIC SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M34	27	M94	5	Yes

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M34	27		No

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK TELESCOPIC SENSOR GROUND CIRCUIT

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

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M33	20	M94	3	Yes

Is the inspection result normal?

YES >> Replace telescopic motor. Refer to ST-32, "Exploded View".
NO >> Repair or replace harness.

MIRROR SENSOR
DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011219282

1. DATA MONITOR

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “MIR/SEN LH U-D”, “MIR/SEN LH R-L”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-109, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011219283

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK DOOR MIRROR LH SENSOR SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Door mirror LH					
Connector	Terminal				
D4	3	Ground	Door mirror LH	Close to peak	3.4
				Close to valley	0.6
	15			Close to right edge	3.4
				Close to left edge	0.6

Is the inspection result normal?

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

2. CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

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

Automatic drive positioner control unit		Door mirror LH		Continuity
Connector	Terminal	Connector	Terminal	
M33	6	D4	3	Yes
	18		15	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	6		No
	18		

Is the inspection result normal?

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

3. CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

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

Automatic drive positioner control unit		Door mirror LH		Continuity
Connector	Terminal	Connector	Terminal	
M33	20	D4	16	Yes
	21		4	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	20		No
	21		

Is the inspection result normal?

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

4. CHECK TILT MOTOR ADJUSTING OPERATION

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

Is the operation normal?

YES >> Replace door mirror actuator (built into door mirror LH). Refer to MIR-21, "Removal and Installation".
NO >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000011219285

1. CHECK FUNCTION

CONSULT
1. Select “Data Monitor” mode of “AUTO DRIVE POS”.
2. Select “MIR/SEN RH U-D”, “MIR/SEN RH R-L”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-111, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011219286

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Door mirror RH					
Connector	Terminal				
D107	3	Ground	Door mirror RH	Close to peak	3.4
				Close to valley	0.6
	15			Close to right edge	3.4
				Close to left edge	0.6

Is the inspection result normal?

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

2. CHECK DOOR MIRROR RH SENSOR CIRCUIT 1

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

Automatic drive positioner control unit		Door mirror RH		Continuity
Connector	Terminal	Connector	Terminal	
M33	5	D107	3	Yes
	17		15	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	5		No
	17		

Is the inspection result normal?

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

3. CHECK DOOR MIRROR RH SENSOR CIRCUIT 2

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

Automatic drive positioner control unit		Door mirror LH		Continuity
Connector	Terminal	Connector	Terminal	
M33	20	D107	16	Yes
	21		4	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	20		No
	21		

Is the inspection result normal?

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

4. CHECK TILT MOTOR ADJUSTING OPERATION

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

Is the operation normal?

YES >> Replace door mirror actuator (built into door mirror RH). Refer to MIR-21, "Removal and Installation".
NO >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

SLIDING MOTOR

Component Function Check

INFOID:0000000011219288

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “SEAT SLIDE“.
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-113, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219289

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK SLIDING MOTOR LH POWER SUPPLY

CONSULT
1. Turn the ignition switch to ACC.
2. Perform “SEAT SLIDE" in “Active Test” mode of “AUTO DRIVE POS”.
3. Check voltage between driver seat control unit harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B210	36	Ground	SEAT SLIDE	OFF	0
				FR (forward)	0
				RR (backward)	Battery voltage
	44			OFF	0
				FR (forward)	Battery voltage
				RR (backward)	0

Is the inspection result normal?

YES >> Replace sliding motor LH. Refer to SE-128, "Removal and Installation".
NO >> GO TO 2.

2. CHECK SLIDING MOTOR LH CIRCUIT

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

Driver seat control unit		Sliding motor LH		Continuity
Connector	Terminal	Connector	Terminal	
B210	36	B211	1	Yes
	44		5	

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

Driver seat control unit connector		Ground	Continuity
Connector	Terminal		
B210	36		No
	44		

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

RECLINING MOTOR

Component Function Check

INFOID:0000000011219291

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “SEAT RECLINING”.
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-115, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219292

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK RECLINING MOTOR LH POWER SUPPLY

CONSULT
1. Turn the ignition switch to ACC.
2. Perform “SEAT RECLINING“ in “Active Test” mode of “AUTO DRIVE POS”.
3. Check voltage between driver seat control unit harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B210	35	Ground	SEAT RECLINING	OFF	0
				FR (forward)	0
				RR (backward)	Battery voltage
	43			OFF	0
				FR (forward)	Battery voltage
				RR (backward)	0

Is the inspection result normal?

YES >> Replace reclining motor LH. Refer to SE-128, "Removal and Installation".
NO >> GO TO 2.

2. CHECK RECLINING MOTOR LH CIRCUIT

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

Driver seat control unit		Reclining motor LH		Continuity
Connector	Terminal	Connector	Terminal	
B210	35	B217	6	Yes
	43		4	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B210	35		No
	43		

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (FRONT)

Component Function Check

INFOID:0000000011219294

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “SEAT LIFTER FR”.
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-117, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219295

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK LIFTING MOTOR LH (FRONT) POWER SUPPLY

CONSULT
1. Turn the ignition switch to ACC.
2. Perform “SEAT LIFTER FR“ in “Active Test” mode of “AUTO DRIVE POS”.
3. Check voltage between driver seat control unit harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B210	34	Ground	SEAT LIFTER FR	OFF	0
				UP	0
				DWN (down)	Battery voltage
	42			OFF	0
				UP	Battery voltage
				DWN (down)	0

Is the inspection result normal?

YES >> Replace lifting motor LH (front). Refer to SE-128, "Removal and Installation".
NO >> GO TO 2.

2. CHECK LIFTING MOTOR LH (FRONT) CIRCUIT

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

Driver seat control unit		Lifting motor LH (front)		Continuity
Connector	Terminal	Connector	Terminal	
B210	34	B218	6	Yes
	42		4	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B210	34		No
	42		

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (REAR)

Component Function Check

INFOID:0000000011219297

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “SEAT LIFTER RR".
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-119, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219298

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK LIFTING MOTOR LH (REAR) POWER SUPPLY

CONSULT
1. Turn the ignition switch to ACC.
2. Perform “SEAT LIFTER RR“ in “Active Test” mode of “AUTO DRIVE POS”.
3. Check voltage between driver seat control unit harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)
Driver seat control unit					
Connector	Terminal				
B210	40	Ground	SEAT LIFTER RR	OFF	0
				UP	0
				DWN (down)	Battery voltage
	41			OFF	0
				UP	Battery voltage
				DWN (down)	0

Is the inspection result normal?

YES >> Replace lifting motor LH (rear). Refer to SE-128, "Removal and Installation".
NO >> GO TO 2.

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Driver seat control unit		Lifting motor LH (rear)		Continuity
Connector	Terminal	Connector	Terminal	
B210	41	B207	6	Yes
	40		4	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B210	41		No
	40		

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

TILT MOTOR

Component Function Check

INFOID:0000000011219300

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “TILT MOTOR“.
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-121, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219301

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK TILT MOTOR POWER SUPPLY

CONSULT
1. Turn ignition switch OFF.
2. Disconnect tilt motor.
3. Turn the ignition switch ON.
4. Select “TILT MOTOR” in “Active Test” mode of “AUTO DRIVE POS”.
5. Check voltage between tilt motor harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Tilt motor					
Connector	Terminal				
M85	2	Ground	TILT MOTOR	OFF	0
				UP	0
				DWN (down)	Battery voltage
	1			OFF	0
				UP	Battery voltage
				DWN (down)	0

Is the inspection result normal?

YES >> Replace tilt motor. Refer to ST-32, "Exploded View".
NO >> GO TO 2.

2. CHECK TILT MOTOR CIRCUIT

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

Automatic drive positioner control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
M34	28	M85	2	Yes
	29		1	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M34	28		No
	29		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace harness.

TELESCOPIC MOTOR

Component Function Check

INFOID:0000000011219303

1.ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “TELESCO MOTOR”.
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

YES >> Inspection End.
NO >> Perform diagnosis procedure. Refer to ADP-123, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219304

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK TELESCOPIC MOTOR POWER SUPPLY

CONSULT
1. Turn ignition switch OFF.
2. Disconnect telescopic motor.
3. Turn the ignition switch ON.
4. Perform “TELESCO MOTOR” in “Active Test” mode of “AUTO DRIVE POS”.
5. Check voltage between telescopic motor harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Telescopic motor					
Connector	Terminal				
M94	2	Ground	TELESCOPIC MOTOR	OFF	0
				FR (forward)	0
				RR (backward)	Battery voltage
	1			OFF	0
				FR (forward)	Battery voltage
				RR (backward)	0

Is the inspection result normal?

YES >> Replace telescopic motor. Refer to ST-32, "Exploded View".
NO >> GO TO 2.

2.CHECK TELESCOPIC MOTOR CIRCUIT

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

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M34	29	M94	1	Yes
	26		2	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M34	29		No
	26		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".
NO >> Repair or replace harness.

DOOR MIRROR MOTOR

Component Function Check

INFOID:0000000011219306

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “MIRROR MOTOR RH“ and “MIRROR MOTOR LH“.
3. Check that the function operates normally.

Test item		Description	
MIRROR MOTOR LH	UP	Door mirror (driver side)	Upward
	DN		Downward
	LH		Leftward
	RH		Rightward
	OFF		Stop
MIRROR MOTOR RH	UP	Door mirror (passenger side)	Upward
	DN		Downward
	LH		Leftward
	RH		Rightward
	OFF		Stop

Is the inspection result normal?

YES >> Door mirror motor function is OK.
NO >> Refer to ADP-125, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219307

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

(+) Door mirror		(–)	Door mirror remote control switch condition	Voltage (V) (Approx.)
Connector	Terminal			
D4 (LH) D107 (RH)	19	Ground	UP	Battery voltage
			Other than above	0
	8		LEFT	Battery voltage
			Other than above	0
	7		DOWN / RIGHT	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> Refer to ADP-127, "Component Inspection".
NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror.

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

Door mirror LH

Automatic drive positioner control unit		Door mirror LH		Continuity
Connector	Terminal	Connector	Terminal	
M33	12	D4	7	Yes
	23		1	
	24		8	

Door mirror RH

Automatic drive positioner control unit		Door mirror RH		Continuity
Connector	Terminal	Connector	Terminal	
M33	10	D107	19	Yes
	11		8	
	22		7	

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

Door mirror LH

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	12	Ground	No
	23		
	24		

Door mirror RH

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M33	10	Ground	No
	11		
	22		

Is the inspection result normal?

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

3. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

Door mirror LH

(+)		(-)	Mirror switch condition	Voltage (V) (Approx.)
Automatic drive positioner control unit				
Connector	Terminal			
M33	12	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
	23		UP	Battery voltage
			Other than above	0
	24		LEFT	Battery voltage
			Other than above	0

Door mirror RH

(+)		(-)	Mirror switch condition	Voltage (V) (Approx.)
Automatic drive positioner control unit				
Connector	Terminal			
M33	10	Ground	UP	Battery voltage
			Other than above	0
	11		LEFT	Battery voltage
			Other than above	0
	22		DOWN / RIGHT	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace automatic drive positioner control unit. Refer to ADP-133, "Removal and Installation".

4. CHECK DOOR MIRROR MOTOR

Check door mirror motor.
Refer to ADP-127, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-42, "Intermittent Incident".
NO >> Replace door mirror actuator. Refer to MIR-21, "Removal and Installation".

Component Inspection

INFOID:0000000011219308

1. CHECK DOOR MIRROR MOTOR-I

Check that door mirror motor does not trap foreign objects and does not have any damage.
Refer to MIR-21, "Exploded View".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace door mirror actuator. Refer to MIR-21, "Removal and Installation".

2. CHECK DOOR MIRROR MOTOR-II

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

Door mirror connector	Terminal		Operational direction
	(+)	(–)	
D4 (LH) D107 (RH)	7	8	RIGHT
	8	7	LEFT
	19	7	UP
	7	19	DOWN

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace door mirror actuator. Refer to MIR-21, "Removal and Installation".

SEAT MEMORY INDICATOR

Component Function Check

INFOID:0000000011219310

1. ACTIVE TEST

CONSULT
1. Select “Active Test” mode of “AUTO DRIVE POS”.
2. Select “MEMORY SW INDCTR“.
3. Check that the function operates normally.

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

Is the operation of relevant parts normal?

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

Diagnosis Procedure

INFOID:0000000011219311

Regarding Wiring Diagram information, refer to ADP-37, "Wiring Diagram".

1. CHECK SEAT MEMORY INDICATOR CIRCUIT

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

Driver seat control unit		Seat memory switch		Continuity
Connector	Terminal	Connector	Terminal	
B209	10	D23	13	Yes
	26		14	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B209	10		No
	26		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2. CHECK MEMORY INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Seat memory switch			
Connector	Terminal		
D23	15	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Check the following:
- 10A fuse No.1.
- Harness for open or short between memory indicator and fuse.

3. CHECK MEMORY INDICATOR

Refer to ADP-129, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat memory switch. Refer to ADP-134, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-132, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000011219312

1. CHECK SEAT MEMORY INDICATOR

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

Seat memory switch		Continuity
Terminal		
(+)	(-)	
15	13	Yes
	14	

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace seat memory switch. Refer to ADP-134, "Removal and Installation".

SYMPTOM DIAGNOSIS

ADP SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000011219313

NOTE:
Always perform the “Basic Inspection” before performing diagnosis in the following table. Refer to ADP-52, "Work Flow".

Symptom		Diagnosis procedure	Reference page
Manual functions (for specific part) do not operate.	Sliding operation	Check sliding switch.	ADP-74
	Reclining operation	Check reclining switch.	ADP-76
	Lifting operation (front)	Check lifting switch (front).	ADP-78
	Lifting operation (rear)	Check lifting switch (rear).	ADP-80
	Tilt operation	Check tilt switch.	ADP-82
	Telescopic sensor	Check telescopic switch.	ADP-84
	Door mirror operation	1. Changeover switch	ADP-89
		2. Mirror switch	ADP-91
	All parts of seat	Check power seat switch ground circuit.	ADP-94
Memory functions (for specific part) do not operate.	Sliding operation	Check sliding sensor.	ADP-96
	Reclining operation	Check reclining sensor.	ADP-98
	Lifting operation (front)	Check lifting sensor (front).	ADP-100
	Lifting operation (rear)	Check lifting sensor (rear).	ADP-103
	Tilt operation	Check tilt sensor.	ADP-105
	Telescopic operation	Check telescopic sensor.	ADP-107
	Door mirror operation	Check door mirror sensor.	Driver side: ADP-109 Passenger side: ADP-110
Memory functions and manual functions (for specific part) do not operate.	Sliding operation	Check sliding motor LH.	ADP-113
	Reclining operation	Check reclining motor LH.	ADP-115
	Lifting operation (front)	Check lifting motor LH (front).	ADP-117
	Lifting operation (rear)	Check lifting motor LH (rear).	ADP-119
	Tilt operation	Check tilt motor.	ADP-121
	Telescopic operation	Check telescopic motor.	ADP-123
	Door mirror operation	Check door mirror motor.	ADP-125
Entry/Exit assist function does not operate.		1. Check system setting.	ADP-12
		2. Perform initialization.	ADP-56
		3. Check front door switch (driver side).	DLK-179
Linking key fob to meter display.		1. Check door lock function.	DLK-185
		2. Perform memory storing.	ADP-56

NORMAL OPERATING CONDITION

Description

INFOID:0000000011219314

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

Symptom	Cause	Action to take	Reference page
Entry/exit assist function does not operate.	No initialization has been performed.	Perform initialization.	ADP-56
	Entry/exit assist function is disabled. **NOTE:** Entry/exit assist function is set to ON before delivery (initial setting).	Change the settings.	ADP-58
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function execution.	Perform the entry assist function.	ADP-19
Memory function, entry/exit assist function or linking a key fob to meter display function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: ADP-16
			Entry assist function: ADP-19
			Exit assist function: ADP-18
			Linking a key fob to meter display: ADP-21

REMOVAL AND INSTALLATION

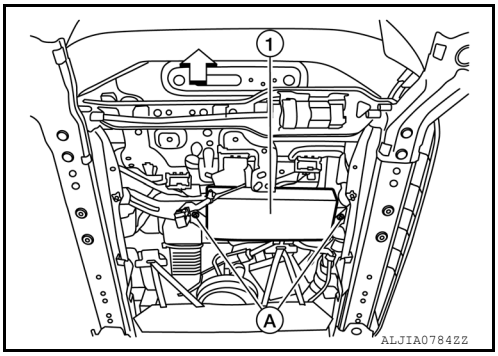
DRIVER SEAT CONTROL UNIT

Removal and Installation

INFOID:0000000011219315

REMOVAL

1. Remove the driver seat. Refer to SE-128, "Removal and Installation".
   ⇦: Front
2. Remove the two driver seat control unit screws (A).
3. Disconnect the two harness connectors from driver seat control unit.
4. Remove driver seat control unit (1).



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to ADP-55, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Work Procedure".

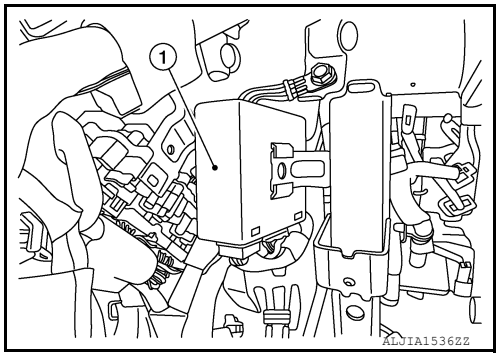
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

INFOID:0000000011219316

REMOVAL

1. Remove the instrument lower panel (LH). Refer to IP-24, "Removal and Installation".
2. Disconnect the two harness connectors from the automatic drive positioner control unit (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installing the automatic drive positioner control unit, perform additional service. Refer to ADP-55, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Work Procedure".

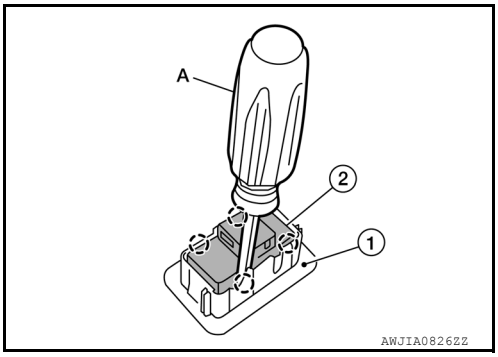
SEAT MEMORY SWITCH

Removal and Installation

INFOID:0000000011219317

REMOVAL

1. Remove front door finisher (LH). Refer to INT-15, "Removal and Installation".
2. Release the pawls using a suitable tool (A) and remove seat memory switch (2) from switch finisher (1).
   : Pawl



INSTALLATION

Installation is in the reverse order of removal.

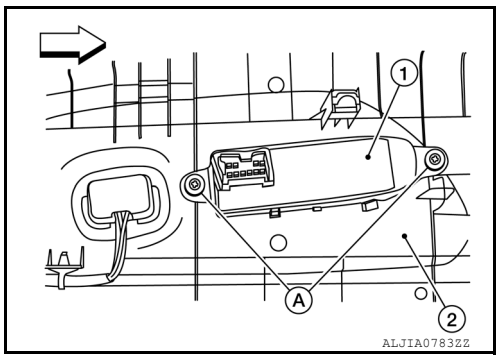
POWER SEAT SWITCH

Removal and Installation

INFOID:0000000011219318

REMOVAL

1. Remove seat cushion outer finisher (LH) (2). Refer to SE-164, "Seat Cushion".
   ⇦: Front
2. Remove the power seat switch screws (A).
3. Remove power seat switch (1) from seat cushion outer finisher (LH) (2).



INSTALLATION

Installation is in the reverse order of removal.

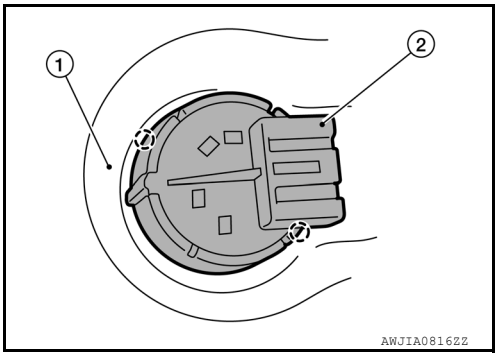
ADP STEERING SWITCH

Removal and Installation

INFOID:0000000011219319

REMOVAL

1. Remove steering column covers. Refer to IP-18, "Removal and Installation".
2. Release the pawls and remove ADP steering switch (2) from the steering column lower cover (1).
   : Pawl



INSTALLATION

Installation is in the reverse order of removal.