SECTION ADDP B AUTOMATIC DRIVE POSITIONER C

CONTENTS

PRECAUTION5
PRECAUTIONS 5 Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-SIONER" SIONER" 5 Precaution for Work 5
PREPARATION6
PREPARATION
SYSTEM DESCRIPTION7
COMPONENT PARTS
SYSTEM11
AUTOMATIC DRIVE POSITIONER SYSTEM
MANUAL FUNCTION
MEMORY FUNCTION
EXIT ASSIST FUNCTION
ENTRY ASSIST FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION19 INTELLIGENT KEY INTERLOCK FUNCTION : System Diagram	F
DIAGNOSIS SYSTEM (DRIVER SEAT CON- TROL UNIT)	H
ECU DIAGNOSIS INFORMATION25	I
DRIVER SEAT CONTROL UNIT	AD
AUTOMATIC DRIVE POSITIONER CON- TROL UNIT	K
BCM (BODY CONTROL MODULE)35 List of ECU Reference35	
WIRING DIAGRAM36	Μ
AUTOMATIC DRIVE POSITIONER SYSTEM	Ν
BASIC INSPECTION51	
DIAGNOSIS AND REPAIR WORK FLOW51 Work Flow	0
INSPECTION AND ADJUSTMENT54	Ρ
ADDITIONAL SERVICE WHEN REMOVING BAT- TERY NEGATIVE TERMINAL	

.... 18

D

Е

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Work Proce- dure	. 54
ADDITIONAL SERVICE WHEN REPLACING	
	. 54
CONTROL UNIT : Description	. 54
CONTROL UNIT : Work Procedure	. 55
SYSTEM INITIALIZATION	55
SYSTEM INITIALIZATION : Description	
SYSTEM INITIALIZATION : Work Procedure	. 55
MEMORY STORING	. 56
MEMORY STORING : Description	
MEMORY STORING : Work Procedure	
INTELLIGENT KEY INTERLOCK STORING INTELLIGENT KEY INTERLOCK STORING : De-	. 56
scription	. 56
INTELLIGENT KEY INTERLOCK STORING : Work Procedure	. 57
SYSTEM SETTING	-
SYSTEM SETTING : Description	
SYSTEM SETTING : Work Procedure	. 57
DTC/CIRCUIT DIAGNOSIS	. 59
U1000 CAN COMM CIRCUIT	. 59
U1000 CAN COMM CIRCUIT Description	
Description	. 59
Description DTC Logic	. 59 . 59
Description	. 59 . 59 . 59
Description DTC Logic Diagnosis Procedure Special Repair Requirement	. 59 . 59 . 59 . 59 . 59
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN)	. 59 . 59 . 59 . 59 . 59 . 60
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description	. 59 . 59 . 59 . 59 . 59 . 60 . 60
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN)	. 59 . 59 . 59 . 59 . 60 . 60 . 60
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic	. 59 . 59 . 59 . 59 . 60 . 60 . 60
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 60
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 60
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure Description DESCRIPTION	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR DTC Logic DTC Logic DTC Logic DTC Logic DTC Logic DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR DESCRIPTION DTC Logic DTC Logic DTC Logic DTC Logic Diagnosis Procedure Description Description Description	. 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR DTC Logic DTC Logic DTC Logic DTC Logic DTC Logic DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR DESCRIPTION DTC Logic Diagnosis Procedure Diagnosis Procedure Diagnosis Procedure DTC Logic Diagnosis Procedure DESCRIPTION DTC Logic	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure	. 59 . 59 . 59 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63 . 63 . 63
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure B2116 TILT MOTOR Description	. 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63 . 63 . 65
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure	. 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63 . 63 . 65 . 65
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure B2116 TILT MOTOR Description DESCIPTION	. 59 . 59 . 59 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63 . 63 . 65 . 65 . 65
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure B2116 TILT MOTOR Description DTC Logic Diagnosis Procedure	. 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 63 . 63 . 63 . 63 . 63 . 65 . 65 . 65 . 65
Description DTC Logic Diagnosis Procedure Special Repair Requirement U1010 CONTROL UNIT (CAN) Description DTC Logic Diagnosis Procedure B2112 SLIDING MOTOR Description DTC Logic Diagnosis Procedure B2113 RECLINING MOTOR Description DTC Logic Diagnosis Procedure B2116 TILT MOTOR Description DTC Logic Diagnosis Procedure B2116 TILT MOTOR Description DTC Logic Diagnosis Procedure B2118 UART COMMUNICATION LINE	. 59 . 59 . 59 . 59 . 60 . 60 . 60 . 60 . 61 . 61 . 61 . 61 . 61 . 63 . 63 . 63 . 63 . 65 . 65 . 65 . 67 . 67

B2130 EEPROM DTC Logic	
Diagnosis Procedure	
POWER SUPPLY AND GROUND CIRCUIT	70
BCM BCM : Diagnosis Procedure	
DRIVER SEAT CONTROL UNIT DRIVER SEAT CONTROL UNIT : Diagnosis Procedure DRIVER SEAT CONTROL UNIT : Special Repair Requirement	70
AUTOMATIC DRIVE POSITIONER CONTROL UNIT	71
SLIDING SWITCH Description Component Function Check Diagnosis Procedure Component Inspection	73 73 73
RECLINING SWITCH Description Component Function Check Diagnosis Procedure Component Inspection	76 76 76
LIFTING SWITCH (FRONT) Description Component Function Check Diagnosis Procedure Component Inspection	79 79 79 80
LIFTING SWITCH (REAR)	82 82 82
TILT SWITCH a Description a Component Function Check a Diagnosis Procedure a Component Inspection a	85 85 85
TELESCOPIC SWITCH	87 87 87
SEAT MEMORY SWITCH	89 89

Component Inspection	90
DOOR MIRROR REMOTE CONTROL SWITCH	92
CHANGEOVER SWITCH	
CHANGEOVER SWITCH : Description	92
CHANGEOVER SWITCH :	
Component Function Check	92
CHANGEOVER SWITCH : Diagnosis Procedure	
CHANGEOVER SWITCH : Component Inspec-	
tion	93
MIRROR SWITCH	
MIRROR SWITCH : Description	94
MIRROR SWITCH: Component Function Check	(
	94
MIRROR SWITCH : Diagnosis Procedure	94
MIRROR SWITCH : Component Inspection	
POWER SEAT SWITCH GROUND CIRCUIT.	97
Diagnosis Procedure	97
TILT & TELESCOPIC SWITCH GROUND CIR	
CUIT	
Diagnosis Procedure	98
	~~
SLIDING SENSOR	
Description	99
Component Function Check	
Diagnosis Procedure	99
RECLINING SENSOR	400
Description	
Component Function Check	
Diagnosis Procedure	102
LIFTING SENSOR (FRONT)	105
Description	
Component Function Check	105
Diagnosis Procedure	
	105
LIFTING SENSOR (REAR)	. 108
Description	
Component Function Check	108
Diagnosis Procedure	
	100
TILT SENSOR	. 111
Description	111
Component Function Check	
Diagnosis Procedure	
-	
TELESCOPIC SENSOR	
Description	114
Component Function Check	114
Diagnosis Procedure	
-	
MIRROR SENSOR	. 117
DRIVER SIDE	447
DRIVER SIDE : Description	
DRIVER SIDE : Component Function Check	117

DRIVER SIDE : Diagnosis Procedure117	٨
PASSENGER SIDE	A
PASSENGER SIDE : Component Function Check	В
SLIDING MOTOR 121 Description 121 Component Function Check 121	С
Diagnosis Procedure	D
RECLINING MOTOR123Description123Component Function Check123	E
Diagnosis Procedure	
LIFTING MOTOR (FRONT)	F
LIFTING MOTOR (REAR)127	G
Description	Н
TILT MOTOR129	
Description	
TELESCOPIC MOTOR131	ADF
Description	K
DOOR MIRROR MOTOR133	
Description	L
Diagnosis Procedure	M
SEAT MEMORY INDICATOR	IVI
Description	Ν
Diagnosis Procedure	
SYMPTOM DIAGNOSIS138	0
ADP SYSTEM SYMPTOMS 138 Symptom Table	Р
NORMAL OPERATING CONDITION	-
Description	
REMOVAL AND INSTALLATION	
DRIVER SEAT CONTROL UNIT	

AUTOMATIC DRIVE POSITIONER CON-		
TROL UNIT	141	
Removal and Installation		
SEAT MEMORY SWITCH	142	
Removal and Installation	142	

POWER SEAT SWITCH	143
Removal and Installation	143
ADP STEERING SWITCH	144
Removal and Installation	144

< PRECAUTION >

PRECAUTION PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this G 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 ADP battery, and wait at least 3 minutes before performing any service.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and 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, and wring the water out of the cloth to wipe the dirty area.

Then rub with a soft and 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, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

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

А

Ε

F

Н

Κ

L

Μ

Ρ

INFOID:00000008242825

PREPARATION

< PREPARATION >

PREPARATION PREPARATION

Special Service Tool

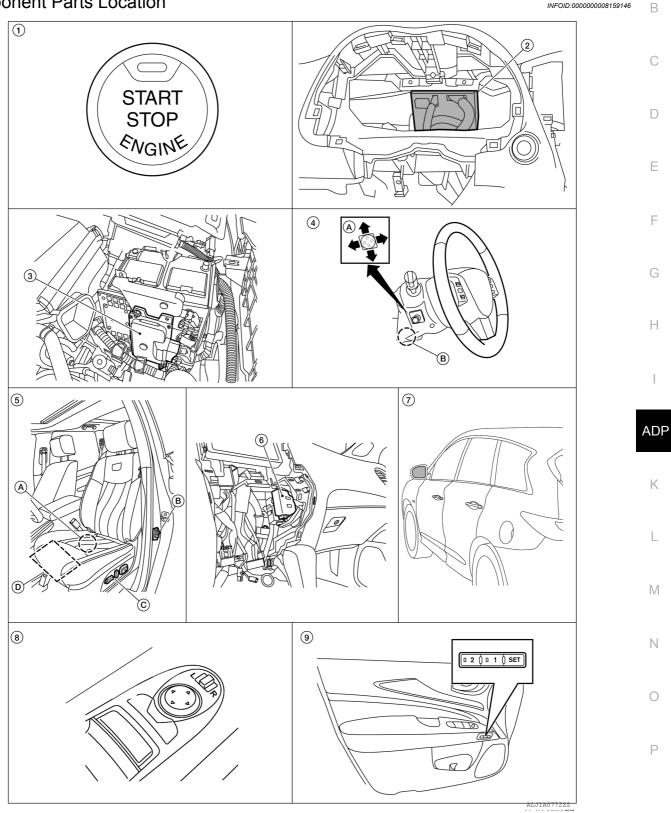
INFOID:00000008202699

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
(J-46534) Trim tool set	Removing trim components

SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location



А

I

INFOID:000000008159146

COMPONENT PARTS

< SYSTEM DESCRIPTION >

1. Push-button ignition switch 2. BCM (view with instrument panel re- 3. TCM moved) A. ADP steering switch 5. A. Driver seat control unit Automatic drive positioner control 4. 6. B. Tilt motor, telescopic motor B. Front door switch LH unit (view with AV control unit re-C. Power seat switch LH moved) D. Sliding motor LH, reclining motor LH, lifting motor LH (front/rear) 7. Door mirror LH (RH similar) 8. Power mirror remote control switch 9. Seat memory switch

Component Description

INFOID:000000008159147

Component parts	Description
Driver seat control unit	 Main units of automatic drive positioner system. It is connected to the CAN. It communicates with automatic drive positioner control unit via UART communication. It performs memory function after receiving the door unlock signal from BCM. Operates each motor of seat to the registered position. Requests the operation of steering column and door mirror to automatic drive positioner control unit Operates the specific seat motor with the signal from power seat switch. Transmits the ignition switch signal (ACC/ON) via UART communication to automatic drive positioner control unit.
Automatic drive positioner control unit	 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, door mirror and seat memory switch. Operates steering column and door mirror with the signal from the driver seat control unit
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
ТСМ	 The following signals are transmitted to driver seat control unit via CAN communication. Shift position signal (P range) Identification of transmission: CVT
Combination meter	Transmits the vehicle speed signal to driver seat control unit via CAN communication.
CVT shift selector (Detention switch)	 Detention switch is installed on CVT shift selector. It is turned OFF when CVT shift selector is in P position. Driver seat control unit judges that CVT shift selector is in P po- sition if continuity does not exist in this circuit.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Comp	oonent parts	Description
Power mirror remote con-	Mirror switch	 Mirror switch is integrated in power mirror remote control switch. It operates angle of door mirror face. It transmits mirror face adjust operation to automatic drive positioner control unit.
trol switch	Changeover switch	 Changeover switch is integrated in power 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.
	Tilt switch	 Tilt switch is equipped to steering column. The operation signal is input to automatic drive positioner control unit when tilt switch is operated.
ADP steering switch	Telescopic switch	 Telescopic switch is equipped to steering column. The operation signal is input to automatic drive positioner control unit when telescopic switch is operated.
	Set switch	It is used for registration and setting change of driving position and Intelligent Key interlock function.
Seat memory switch	Seat memory switch	 The maximum 2 driving positions can be registered by memory switch 1 to 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 sys- tem by turning ON or blinking.
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	 The operation signal is input to driver seat control unit when reclining switch is operated. 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.
	Door mirror motor	It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies.
Door mirror (driver side/ passenger side)	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 po- sition according to the change of the voltage of 2 sensor input terminals.

Ρ

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Com	ponent parts	Description
	Tilt motor	 Tilt motor 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 motor	Tilt sensor	 Tilt sensor is integrated in tilt motor. 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 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 motor	Telescopic sensor	 Telescopic sensor is integrated in telescopic motor. 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.
5	Sliding motor LH	 Seat sliding motor LH is installed to the seat cushion frame. Seat sliding motor LH is activated with driver seat control unit. Slides the seat frontward/ rearward by changing the rotation direction of sliding motor.
Sliding motor LH	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.
Reclining motor LH	Reclining motor LH	 Seat reclining motor LH is installed to seat back frame. Seat reclining motor LH is activated with driver seat control unit. Seatback is reclined frontward/rearward 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.
	Lifting motor LH (front)	 Lifting motor LH (front) is installed to seat side cushion frame. Lifting motor LH (front) is activated with driver seat control unit. Seat lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).
Lifting motor LH (front)	Lifting sensor (front)	 Lifting sensor (front) is installed in lifting motor (rear). When lifting motor (rear) 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 (rear) of the seat.
	Lifting motor LH (rear)	 Lifting motor LH (rear) is installed to seat slide cushion frame. Lifting motor LH (rear) is activated with driver seat control unit. Seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).
Lifting motor LH (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.

SYSTEM А AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram INFOID:000000008159134 В Combination meter С AV control unit IPDM E/R BCM ABS ECM TCM To CAN D Ε Lifting sensor (front) Lifting sensor (rear) CAN communication Lifting motor (front) Lifting motor (front) Lifting motor (rear) Lifting motor (rear) Reclining sensor Reclining motor Reclining motor Sliding sensor Sliding motor Sliding motor F G Driver seat control unit Driver seat Н Lifting switch (front) Lifting switch (rear) Power seat switch LH Reclining switch Sliding switch ADP Κ UART communication Seat memory switch Telescopic sensor Telescopic motor Memory switch Telescopic motor Mirror sensor Mirror motor Door mirror Tilt sensor Set switch Tilt motor Indicator Tilt motor L Μ drive positioner control unit Automatic Ν Changeover switch ADP Steering Switch Power mirror remote control switch Telescopic switch Mirror switch Tilt switch Ρ

AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:000000008159135

OUTLINE

Revision: March 2012

AL-TTA0797GB

< SYSTEM DESCRIPTION >

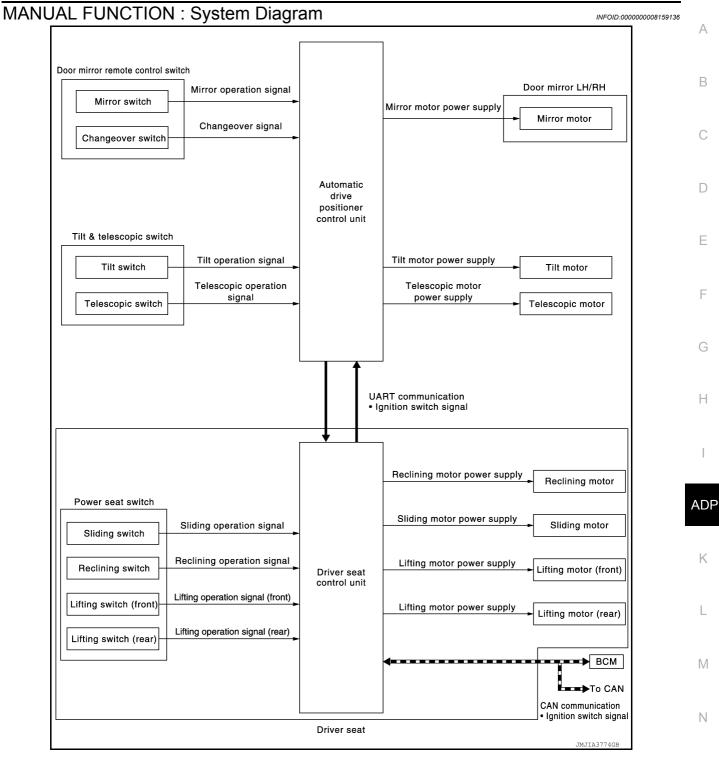
The system automatically moves the driver seat, steering column and door mirror position by the driver seat control unit and the automatic drive positioner control unit. The driver seat control unit corresponds with the automatic drive positioner control unit by UART communication.

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

NOTE:

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

< SYSTEM DESCRIPTION >



MANUAL FUNCTION : System Description

OUTLINE

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

OPERATION PROCEDURE

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

INFOID:000000008159137

Ρ

< SYSTEM DESCRIPTION >

DETAIL FLOW

Seat

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

Tilt and Telescopic

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

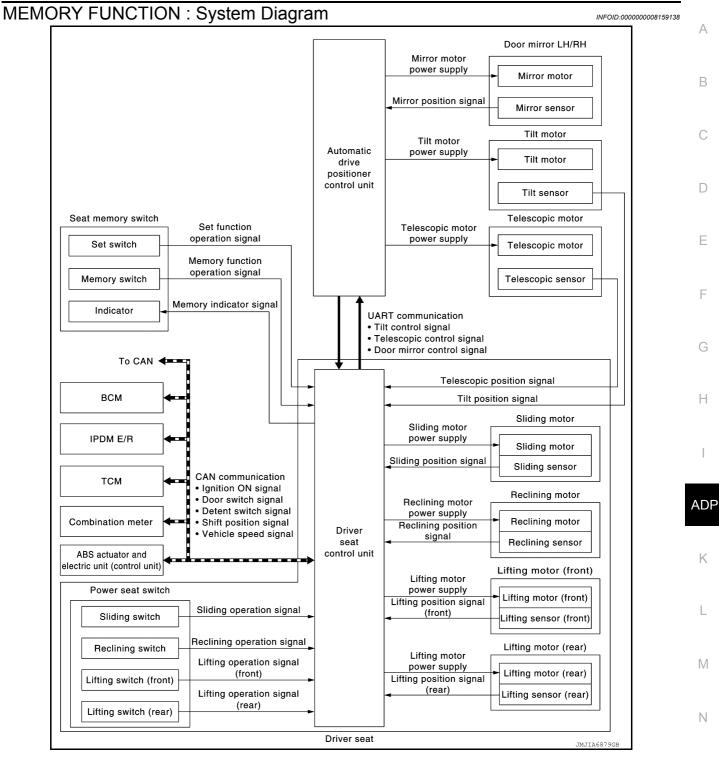
Door Mirror

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

NOTE:

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

< SYSTEM DESCRIPTION >



MEMORY FUNCTION : System Description

OUTLINE

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

NOTE:

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

OPERATION PROCEDURE

1. Turn ignition switch ON.

Revision: March 2012

ADP-15

INFOID:000000008159139

Ρ

< SYSTEM DESCRIPTION >

2. Press desired memory switch.

3. 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
Ignition position	ON
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

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

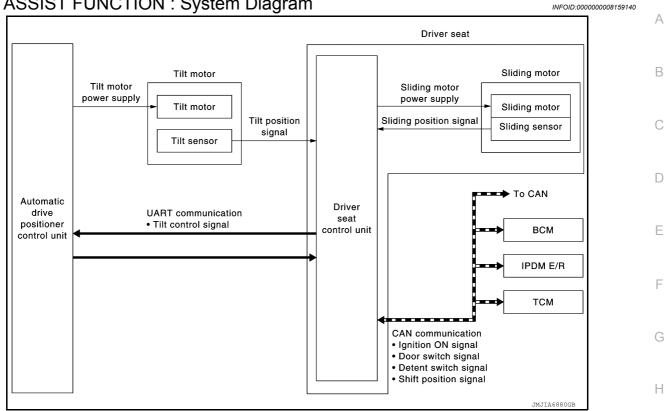
DETAIL FLOW

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

EXIT ASSIST FUNCTION

< SYSTEM DESCRIPTION >

EXIT ASSIST FUNCTION : System Diagram



EXIT ASSIST FUNCTION : System Description

INFOID:000000008159141

OUTLINE	
When exiting, if the conditions are satisfied, the seat is moved backward from normal sitting position and the steering column is moved up.	ADP
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 for the system setting procedure, refer to Owner's Manual. 	Κ
OPERATION PROCEDURE1. Open the front door LH with ignition switch in OFF position.2. Front seat LH and steering column will move to the exiting position.	L
OPERATION CONDITION Satisfy all of the following items. The exit assist function is not performed if these items are not satisfied.	Μ

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

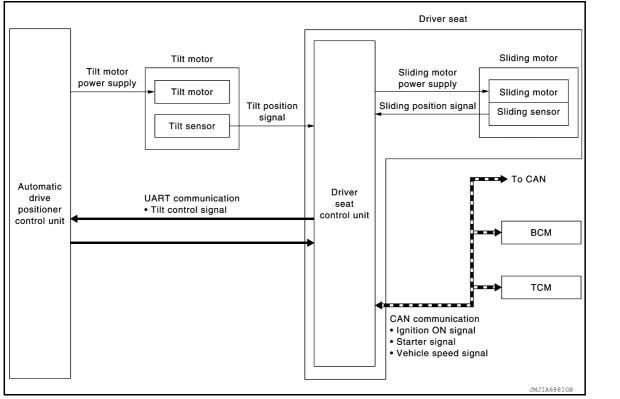
DETAIL FLOW

< SYSTEM DESCRIPTION >

Order	Input	Output	Control unit condition
1	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 Diagram



ENTRY ASSIST FUNCTION : System Description

INFOID:000000008159143

INFOID:000000008159142

OUTLINE

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 for the system setting procedure, refer to Owner's Manual.

OPERATION PROCEDURE

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

OPERATION CONDITION

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

< SYSTEM DESCRIPTION >

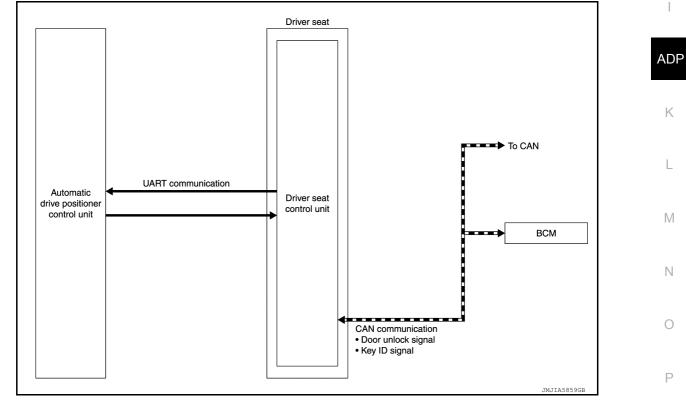
Item	Request status
Seat, steering column	The vehicle is not moved after performing the exit assist function.
Switch inputs	
Power seat switch	
 ADP steering switch 	OFF
 Door mirror control switch 	(Not operated)
Set switch	
Memory switch	
CVT selector lever	P position

DETAIL FLOW

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 oper- ating 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.

INTELLIGENT KEY INTERLOCK FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION : System Diagram



INTELLIGENT KEY INTERLOCK FUNCTION : System Description

INFOID:000000008159145

INFOID:000000008159144

• By associating Intelligent Key and automatic drive positioner system, the unlock operation of Intelligent Key or driver side door request switch performs memory function and entry/exit assist function.

< SYSTEM DESCRIPTION >

- Registration of Intelligent Key interlock function can register a different key ID to the driver seat control unit, one by one, for memory switch 1 and 2. A total of 2 key IDs can be registered.
- When ignition switch is OFF, and door unlock operation is performed using Intelligent Key or driver side door request switch, driver seat automatically adjusts to a driving position other than seat sliding. Seat sliding and steering column tilt perform return operation and are set to standby status.
- In standby status, when ignition switch is operated from OFF to ACC, return operation sets seat sliding and steering column tilt to a registered position.

NOTE:

- When another key ID is newly registered to a key switch to which a key ID is already registered, the previously registered key ID is overwritten and becomes unusable.
- When starter signal turns ON during return operation, the operation is interrupted, starter signal turns from ON to OFF, and operation restarts.

OPERATION PROCEDURE

- 1. Unlock driver door by Intelligent Key or driver side door request switch.
- 2. Operation other than memory function of seat sliding is performed. Seat sliding and steering column tilt perform exit assist operation.
- 3. Turn ignition switch ACC.

4. Driver seat and steering column will return from the exiting position to entry position.

NOTE:

Further information for Intelligent Key interlock function. Refer to <u>ADP-56, "INTELLIGENT KEY INTERLOCK</u> <u>STORING : Description"</u>.

OPERATION CONDITION

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

Item	Request status
Ignition position	OFF
Intelligent Key interlock function	Registered
Switch inputs Power seat switch Tilt & telescopic switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)
CVT shift selector	P position

DETAIL FLOW

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

Fail Safe

INFOID:000000008265317

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication		<u>ADP-59</u>
Only manual functions operate normally.	CONTROL UNIT	U1010	<u>ADP-60</u>
	EEPROM	B2130	<u>ADP-69</u>

< SYSTEM DESCRIPTION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis	А
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<u>ADP-67</u>	-
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	<u>ADP-61</u>	D
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	<u>ADP-63</u>	D
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	<u>ADP-65</u>	-
	•			С

Ε

F

G

Н

ADP

Κ

L

Μ

Ν

IN

0

Ρ

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

CONSULT Function

INFOID:000000008145227

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 auto drive positioner system and disp		
ACTIVE TEST	Drive each output device.	
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat con- trol 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	—	×	×	Display 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 passen- ger 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.
KEY ON SW	"ON/OFF"	×	×	ON/OFF status judged from the key on switch signal.

Revision: March 2012

2013 Infiniti JX

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	
KYLS DR UNLK	"ON/OFF"	×	×	ON/OFF status judged from the driver side door unlock ac- tuator 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 (for-ward) signal.	
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the ADP steering switch (back-ward) signal.	
SLIDE PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.	

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

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.

WORK SUPPORT

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

ECU DIAGNOSIS INFORMATION DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Cond	ition	Value/Status	
DETENT SW	CVT selector lever	P position	OFF	
DETEINT SW	CVT selector level	Other than above	ON	D
P RANG SW CAN	O) /T. e ele eter levrer	P position	ON	
P RANG SVI CAN	CVT selector lever	Other than above	OFF	E
STARTER SW	Ignition position	Cranking	ON	
STARTER SW	Ignition position	Other than above	OFF	
R RANGE (CAN)	CVT selector lever	R position	ON	F
IN NAMEL (CAN)		Other than above	OFF	
VEHICLE SPEED	The condition of vehicle sp	eed is displayed	km/h	
DOOR SW-FL	Driver door	Open	OPEN	
DOOR 3W-FL		Close	CLOSED	
DOOR SW-FR	Passenger door	Open	OPEN	Н
DOOR SW-FR	Fassenger door	Close	CLOSED	
	Ignition owitch	ON position	ON	
IGN ON SW	Ignition switch	Other than above	OFF	
ACC ON SW	Ignition switch	ACC or ON position	ON	
ACC ON SW		Other than above	OFF	A
	Intelligent Key	Inserted in key slot	ON	
KEY ON SW		Not Inserted in key slot	OFF	
	Intelligent Key or driver side door request switch	ON	ON	K
KYLS DR UNLK		OFF	OFF	
KEYLESS ID	UNLOCK button of Intellige	ent Key is pressed	1, 2, 3, 4 or 5	L
VHCL SPEED (ABS)	CAN signal from ABS	Received	ON	
VHCL SFEED (ABS)	CAN SIGNAL HOLL ADS	Not received	OFF	
HANDLE	Driving position		LHD	N
HANDLE	Driving position		RHD	
TRANSMISSION	Transmission type		A/T	N
SET SW	Set switch	Push	ON	
SET SW	Set Switch	Release	OFF	
	Momory quitch 1	Push	ON	С
MEMORY SW1	Memory switch 1	Release	OFF	
	Momory quitch 2	Push	ON	
MEMORY SW2	Memory switch 2	Release	OFF	P
	Cliding owitch (forward)	Operate	ON	
SLIDE SW-FR	Sliding switch (forward)	Release	OFF	
	Cliding owitch (hoolgy, and)	Operate	ON	
SLIDE SW-RR	Sliding switch (backward)	Release	OFF	

А

INFOID:000000008145228

- *

В

С

< ECU DIAGNOSIS INFORMATION >

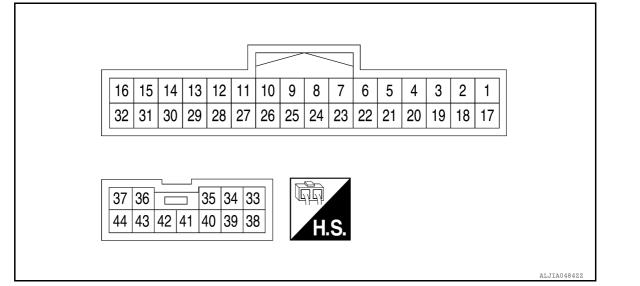
Monitor Item	Condit	tion	Value/Status
		Operate	ON
RECLN SW-FR	Reclining switch (forward)	Release	OFF
	Reclining switch (back-	Operate	ON
RECLN SW-RR	ward)	Release	OFF
		Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
	Lifting quitch front (down)	Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
	Lifting owitch roor (up)	Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
LIFT RR SW-DN	Lifting owitch roor (down)	Operate	ON
LIFT KK SW-DN	Lifting switch rear (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIR CON SW-OP		Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIR CON SW-DN		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
	Changeover switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
	changeover switch	Other than above	OFF
TILT SW-UP	Tilt switch	Upward	ON
	The Switch	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
		Forward	The numeral value decreases *
SLIDE PULSE	Seat sliding	Backward	The numeral value increases*
		Other than above	No change to numeral value*
		Forward	The numeral value decreases*
RECLN PULSE	Seat reclining	Backward	The numeral value increases *
		Other than above	No change to numeral value [*]
		Up	The numeral value decreases *
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *
		Other than above	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condi	tion	Value/Status
		Up	The numeral value decreases *
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *
		Other than above	No change to numeral value*
MIR/SEN RH U-D	Door mirror (passenger side	e)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger side	e)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
		Upward	The numeral value decreases *
TILT PULSE	LSE Tilt position	Downward	The numeral value increases *
		Other than above	No change to numeral value*
		Forward	The numeral value decreases *
TELESCO PULSE	Telescopic position	Backward	The numeral value increases *
		Other than above	No change to numeral value [*]

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

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Con	dition	Voltage (V)	0
+	-	Signal name	Input/ Output	Con		(Approx)	
5 (W)	Ground	Sensor power supply	Output	-	_	Battery voltage	Ρ
6 (P)	Ground	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0	
(R)		Signal		(leal)	Release	Battery voltage	

Н

ADP

Κ

L

Μ

Ν

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Conc	altion	(Approx)
7 (Y)	Ground	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down) Release	0 Battery voltage
8 (B/G)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(6/9)		signal			Release	Battery voltage
9 (SB)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
(-)		5			Release	Battery voltage
10	Ground	Memory indicator 2 signal	Output	Memory indicator	Illuminate	1
(G)				2	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	10mSec/div
					Other than above	0 or 5
13 (G)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div 10mSec/div 2V/div JMJIA011922 0 or 5
15 (SB)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		10msec/div Thurman war war 5V/div JMJIA139122
16 (P)		CAN-H		-	_	_
21	Ground	Set switch signal	Input	Set switch	Press	0
(L)		J			Other than above	5
22 (V)	Ground	Lifting switch (rear) up sig- nal	Input	Seat lifting switch (rear)	Operate (up)	0 Battery voltage
23	Cround	Lifting switch (front) up sig-	Inne-4	Seat lifting switch	Release Operate (up)	0
(G)	Ground	nal	Input	(front)	Release	Battery voltage

Revision: March 2012

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition		Voltage (V)	
+	-	Signal name	Input/ Output	Condition		(Approx)	
24 (P)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0	В
(.)		0.9.10.			Release	Battery voltage	0
25 (L)	Ground	Sliding switch forward sig- nal	Input	Sliding switch	Operate (forward)	0	С
()					Release	Battery voltage	D
26	Ground	Memory indicator 1 signal	Output	Memory indicator	Illuminate	1	D
(Y)	e.eu.u		Carpar	1	Other than above	Battery voltage	
27	Ground	Memory switch 1 signal	Input	Memory switch 1	Press	0	E
(V)	Giouna	Memory Switch + Signal	input	Memory Switch 1	Other than above	5	
28 (B/G)	Ground	Tilt sensor signal	Input	Tilt	Operate	10mSec/div	F G H
					Other than above	0 or 5	П
29 (R)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div	AD
					Stop	0 or 5	K
30 (Y)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div	L
					Stop	0 or 5	
31 (L)	Ground	Sliding sensor signal	Input	Seat sliding	Operate Stop	10mSec/div 10mSec/div 2V/div _{JMJIA011922} 0 or 5	N O P
32		CAN-L			_	_	
(W) 34	Ground	Lifting motor LH (front)	Output	Seat lifting (front)	Operate (down)	Battery voltage	
(SB)	Ground	down output signal	Output	Seat muny (nont)	Stop	0	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Cond		(Approx)
35 (V)	Ground	Reclining motor LH for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
(v)		ward output signal		-	Release	0
36 (W)	Ground	Sliding motor LH back- ward output signal	Output	Seat sliding	Operate (backward)	Battery voltage
(**)		ward output signal			Stop	0
37 (R)	Ground	Power source	Input	_	-	Battery voltage
39 (B)	Ground	Ground (power)	_	-		0
40 (L)	Ground	Lifting motor LH (rear) down output signal	Output	Output Seat lifting (rear)	Operate (down)	Battery voltage
(L)					Stop	0
41 (Y)	Ground	Lifting motor LH (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
(1)		oulput signal			Stop	0
42 (GR)	Ground	Lifting motor LH (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
(GR)		oulput signai			Stop	0
43 (B/G)	Ground	nd Reclining motor LH back-	Output	Seat reclining	Operate (backward)	Battery voltage
(0/0)		ward output signal		-	Stop	0
44 (G)	Ground	Sliding motor LH forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
(0)					Release	0

Fail Safe

INFOID:000000008145229

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	<u>ADP-59</u>
Only manual functions operate normally.	CONTROL UNIT	U1010	<u>ADP-60</u>
	EEPROM	B2130	<u>ADP-69</u>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<u>ADP-67</u>
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	<u>ADP-61</u>
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	<u>ADP-63</u>
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	<u>ADP-65</u>

< ECU DIAGNOSIS INFORMATION >

DTC Index

INFOID:000000008145230

А

CONSULT	Tim	ing ^{*1}			
display	Current mal- function function		Item	Reference page	
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	<u>ADP-59</u>	
CONTROL UNIT [U1010]	0	1-39	Control unit	<u>ADP-60</u>	
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	<u>ADP-61</u>	
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-63	
STEERING TILT [B2116]	0	1-39	Tilt motor output	<u>ADP-65</u>	
UART COMM [B2128]	0	1-39	UART communication	ADP-67	
EEPROM [B2130]	0	1-39	EEPROM	<u>ADP-69</u>	

*1.

• 0: Current malfunction is present

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

L

Μ

Ν

Ρ

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

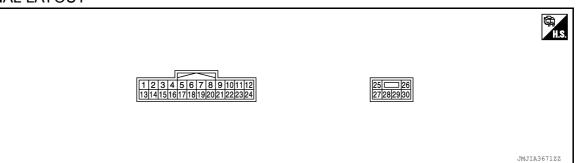
< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000008145231

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description	Condit	ion	Voltage (V)		
+	-	Signal name	Input/ Output	Condition		(Approx.)	
1	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0	
(LG)	Ground	The switch up signal	input	The Switch	Other than above	5	
0		Oheren er steh DU		Ohenenen	RH	0	
2 (V)	Ground	Changeover switch RH signal	Input	Changeover switch position	Neutral or LH	5	
3	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0	
(G)	Ground	winter switch up signal	input		Other than above	5	
4	Ground	d Mirror switch left signal	Input	Mirror switch	Operated (left)	0	
(P)	Ground		mput		Other than above	5	
5 (W)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)	
6 (R)	Ground	Door mirror sensor (driv- er side) up/down signal	Input	Door mirror LH p	osition	Change between 3.4 (close to peak) 0.6 (close to valley)	
7	Ground	Telescopic switch for-	Input	Telescopic	Operate (forward)	0	
(BR)	Ground	ward signal	input	switch	Other than above	5	
8 (G)	Ground	UART communication (TX/RX)	Output	Ignition switch ON		10msec/div 10msec	

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Conditi	on	(Approx.)
10 Cround	Ground	Door mirror motor (pas- senger side) up output	Output	Door mirror RH	Operate (up)	Battery voltage
(P)	Ground	signal	Output		Other than above	0
11	Ground	Door mirror motor (pas- senger side) left output	Output	Door mirror RH	Operate (left)	Battery voltage
(R)	Cround	signal	Output		Other than above	0
		Door mirror motor (driv- er side) down output sig-			Operate (down)	Battery voltage
12	Ground	nal	Output	Door mirror (LH)	Other than above	0
(G)	Cround	Door mirror motor (driv- er side) right output sig-	Output		Operate (right)	Battery voltage
		nal			Other than above	0
13	Ground	Tilt switch down signal	Input	out Tilt switch -	Operate (down)	0
(Y)	Cround		mput		Other than above	5
14 (P)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH Neutral or	0
(F)				switch position	RH Operate	5
15 (R)	Ground	Mirror switch down sig- nal	Input	Mirror switch	(down)	0
(1)					Other than above	5
16	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
(W)					Other than above	5
17 (G)	Ground	Door mirror sensor (pas- senger side) left/right signal	Input	Door mirror RH po	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
18 (BG)	Ground	Door mirror sensor (driv- er side) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
19 (L)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (back- ward)	0
(-)				Switch	Other than above	5
20 (Y)	Ground	Ground	_			0
21 (BG)	Ground	Door mirror motor sen- sor power supply	Input	_		5

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:000000007913161

А

Е

F

G

Н

I

	ECU	Reference	
		BCS-27, "Reference Value"	
DOM		BCS-47, "Fail Safe"	С
BCM		BCS-47, "DTC Inspection Priority Chart"	
		BCS-49, "DTC Index"	

ADP

Κ

L

Μ

Ν

0

Ρ

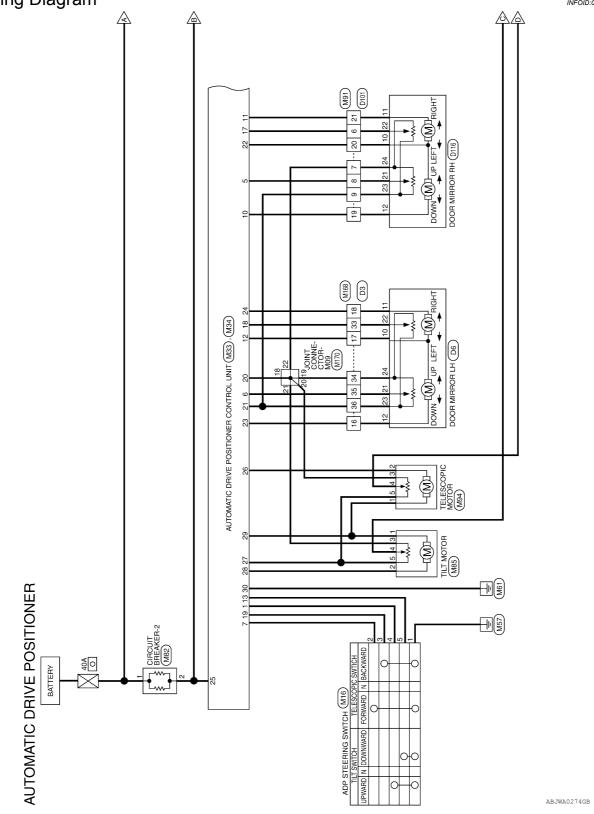
< WIRING DIAGRAM >

WIRING DIAGRAM

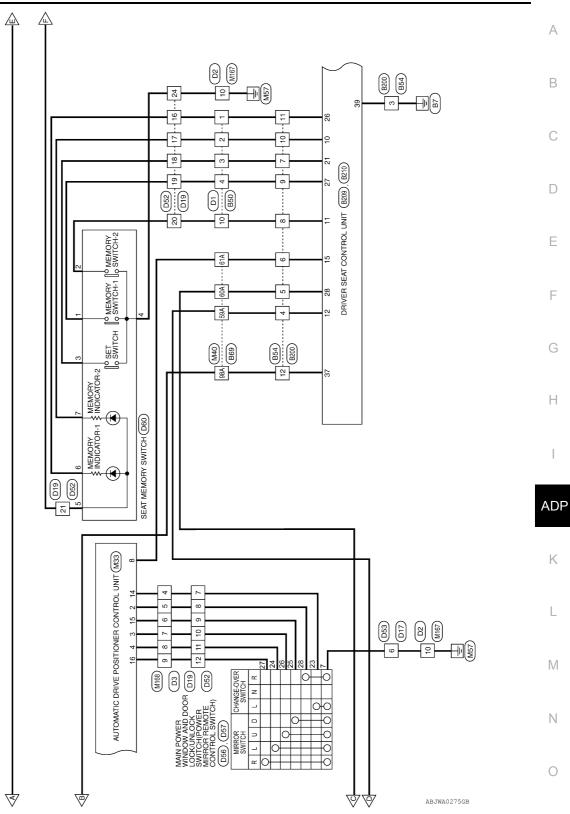
AUTOMATIC DRIVE POSITIONER SYSTEM

Wiring Diagram





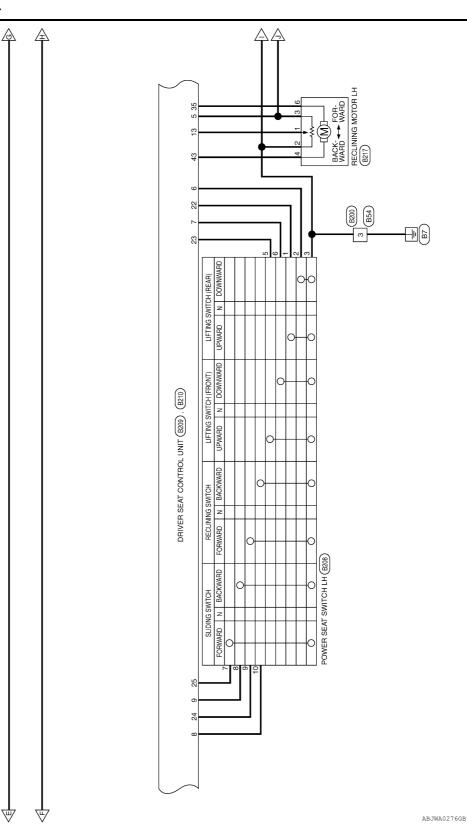
< WIRING DIAGRAM >



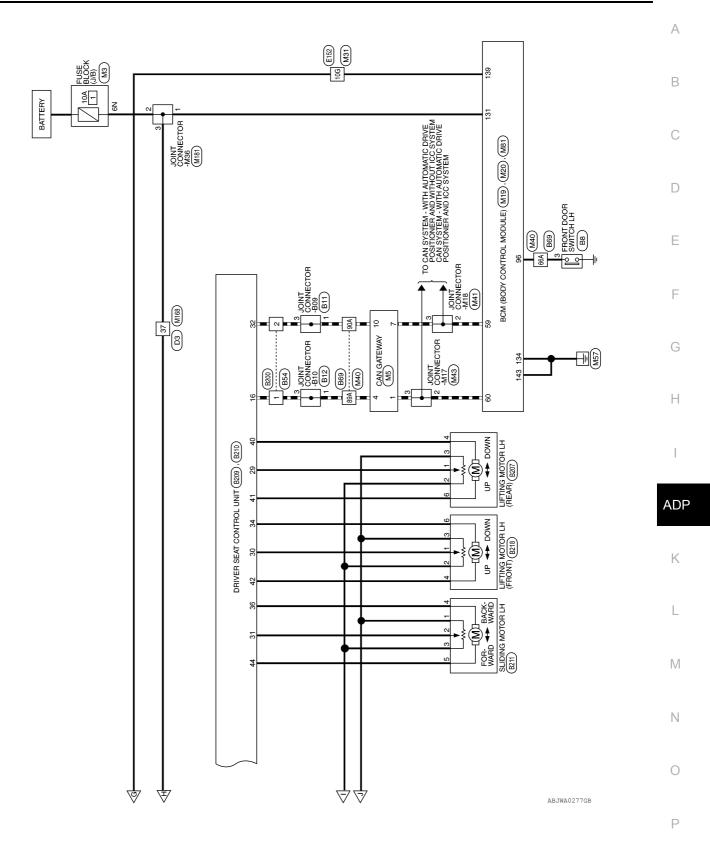
Ρ



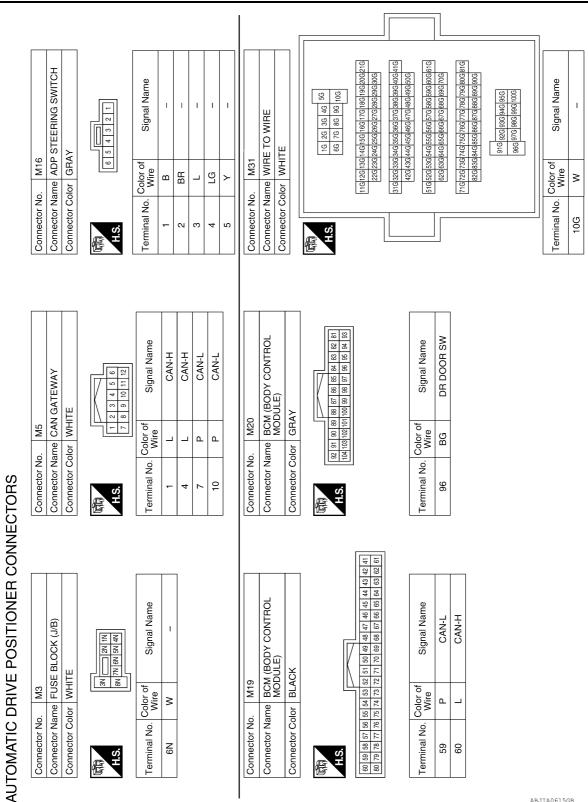
< WIRING DIAGRAM >



< WIRING DIAGRAM >



< WIRING DIAGRAM >



ABJIA0615GE

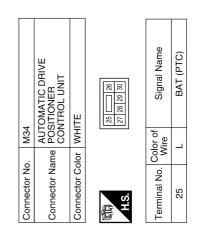
< WIRING DIAGRAM >

Signal Name	MIRROR SW (RIGHTWARD)	MIRROR SENSOR (RH HORIZONTAL)	MIRROR SENSOR (LH HORIZONTAL)	TELESCOPIC SW (BACKWARD)	GND (SENSOR GND)	POWER SUPPLY (SENSOR FOR 5V)	MIRROR MOTOR (RH COMMON (DOWN&RIGHT))	MIRROR MOTOR (LH VERTICAL(UP))	MIRROR MOTOR (LH HORIZONTAL(LEFT))
Color of Wire	Μ	G	BG	L	≻	BG	ŋ	Μ	BG
Terminal No.	16	17	18	19	20	21	22	23	24

Signal Name	MIRROR SENSOR (LH VERTICAL)	TELESCOPIC SW (FRONTWARD)	UART (TX/RX)	I	MIRROR MOTOR (RH VERTICAL (UP))	MIRROR MOTOR (RH HORIZONTAL (LEFT))	MIRROR MOTOR (LH COMMON (DOWN& RIGHT))	TILT SW (DOWNWARD)	MIRROR SELECT SW (LH)	MIRROR SW (DOWNWARD)
Color of Wire	В	BR	თ	I	Ч	В	U	٢	٩	В
Terminal No.	9	2	æ	6	10	11	12	13	14	15

~	AUTOMATIC DRIVE POSITIONER CONTROL UNIT	ITE	5 7 8 9 10 11 12 17 18 19 20 21 22 23 24	Signal Name	TILT SW (UPWARD)	MIRROR SELECTOR SW (RH)	MIRROR SW (UPWARD)	MIRROR SW (LEFTWARD)	MIRROR SENSOR (RH VERTICAL)
. M33		lor WHITE	1 2 3 4 13 14 15 16	Color of Wire	ГG	>	U	٩	8
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	2	3	4	£

Signal Name	TELESCOPIC MOTOR (BACKWARD)	POWER SUPPLY (SENSOR FOR 16V)	TILT MOTOR (DOWNWARD)	STRG MOTOR COMMON (UPWARD/ FORWARD)	GND (POWER)	
Color of Wire	^	Ъ	SB	BR	В	
Terminal No.	26	27	28	29	30	



ABJIA0616GB

L

Μ

Ν

Ο

Ρ

А

В

С

D

Е

F

G

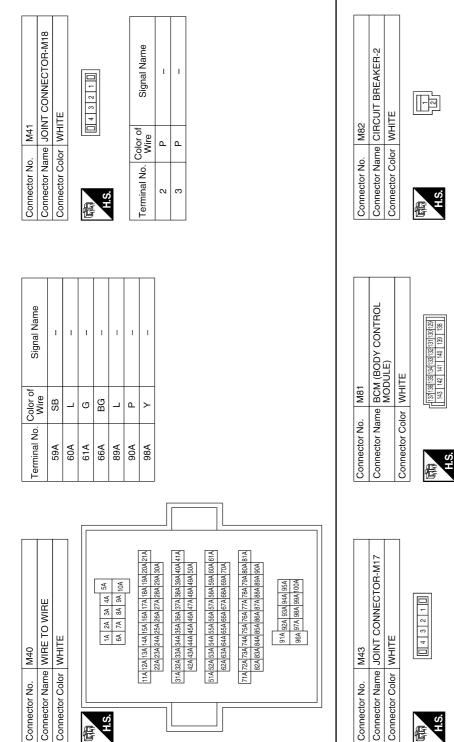
Н

I

ADP

Revision: March 2012

< WIRING DIAGRAM >



Terminal No.Color of
WireSignal Name131WBAT BCM FUSE134BGND 2139WBAT POWER F/L143BGND 1

I

_

С

Signal Name

Color of Wire

Terminal No.

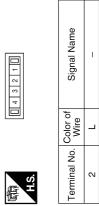
1 1

≥

-

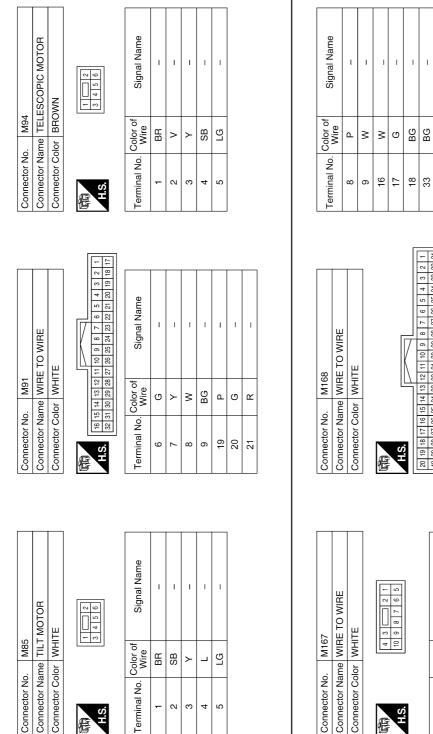
_

N

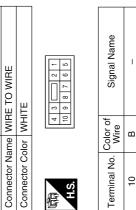


ABJIA0617GB

< WIRING DIAGRAM >



I I. I. I



ABJIA0618GB

Ρ

А

В

С

D

Е

F

G

Н

I

ADP

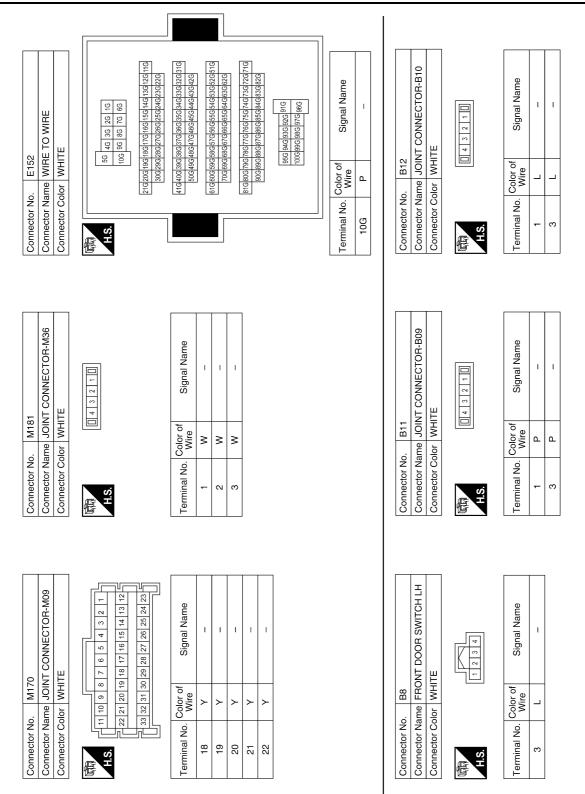
Κ

L

Μ

Ν

< WIRING DIAGRAM >



ABJIA0619GB

< WIRING DIAGRAM >

| | | | | |

 |

 |

 |

 | | | | |] | | | [| | |
 | | | | | | | | | | | |
|---|---------------|--------------|---|--
--
--
--
--
--

--
--
--
---|---|--
---	--	--	---	--	---	---	---	---	---
I	I	I	I	I	I				

 | I

 |

 |

 | | | WIRE | | | 4 5 | 11 12 | | Signal Name | , | |
 | 1 | 1 | I | I | I | I | I | Ι | I | 1 | |
| ~ | SB
-
SB | 2 > | > [| ਸ਼ > |

 |

 |

 |

 | | | ame WIRE TO | - | - | 1 2 3 | 6 7 8 9 10 | - | Color of | | . >
 | В | 8 | BR | SB | _ | GR | > | 9 | 7 | ъ | |
| 9 | 2 | | ה ל | 0 7 |

 | 12

 |

 |

 | | Connector No | Connector Na | Connector Co | | f | H.S. | | | | 5
 | e | 4 | 5 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | |
| _ | | | | |

 |

 |

 |

 | | | | | | | | | | | |
 | | | | | | | | | | | |
| | 2 1
7 6 | | | ignal Name |

 | I

 | I

 | I

 | 1 | | Signal Name | I | I | 1 | I | I | I | I | |
 | | | | | | | | | | | |
| | 5 4 0 3 | 0 6 01 11 71 | - | |

 | _

 | ٩

 | GR

 | BR | olor of | Wire | BR | L L | ~ | L | L I | д. | | |
 | | | | | | | | | | | |
| | 臣 | H.S. | | Terminal No. |

 |

 | 2

 | 3

 | 4 | | | 59A | 60A | 61A | 66A | 89A | 90A | 98A | |
 | | | | | | | | | | | |
| | | _ | L | |

 |

 |]

 |

 | | | | | | | | | | | |
 | | | | | | | | | |] | |
| | mσ | 5 | | Signal Name |

 | 1

 | I

 | I

 | 1 1 | | VIBE | 1 | | | 1 2A 1A | 1 7A 6A | - | 6A 15A 14A 13A 12A 11A
6A 25A 24A 23A 22A | |
 | 86A 35A 34A 33A 32A 31A
6A 45A 44A 43A 42A | | 68 558 548 538 528 518
68 658 648 638 628 | | 6A 75A 74A 73A 72A 71A | wzo wco wco wco woo | A 92A 91A | A 97A 96A |] | | |
| | 1 2 • | - | · | |

 | >

 | BR

 | SB

 | > 9 | | me WIRF TO W | | | | 5A 4A 3A | 10A 9A 8A | | 21A 20A 19A 18A 17A -
30A 29A 28A 27A 2 | |
 | 41A 40A 39A 38A 37A 5
50A 49A 48A 47A 4 | | 61A 60A 59A 58A 57A 5 | | 81A 80A 79A 78A 77A | | 95A 94A 93 | 100A 99A 98. | | | |
| | E | H.S. | - | Terminal No. |

 | _

 | 2

 | e

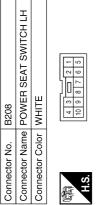
 | 10 | nnactor No | unnector Na | onnector Co | | | S H | | | |
 | | | | | | | | | | | |
| | | 6 | 6
1 2 11 10 9 8 7 0
1 2 1 1 1 10 9 8 7 0
1 2 1 1 1 10 9 8 7 0
1 2 1 1 1 10 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 10 1 1 1 1
1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 6 1 2 1 1 6 1 1 1 1 1 1 1 1 1 < | 1 1 </td <td>1 1<!--</td--><td>1 1<!--</td--><td>1 1<!--</td--><td>1 1</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>1 1</td><td>1 1 1 1 1 1 2 1 0 0 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 <</td><td>Image: Signal Name Image: Signal</td><td>1 1</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Imag</td><td>Image: Signal Name Image: Signal Name Signal Name Image: Signal Name - - <</td><td>Image: Signal Name Image: Signal Name 1 1 1</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name
Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td></td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td>Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td>Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name <td>Signal Name Image: Signal Name Image: Signal Name<td></td><td></td></td></td></td></td></td> | 1 1 </td <td>1 1<!--</td--><td>1 1
 1 1<!--</td--><td>1 1</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>1 1</td><td>1 1 1 1 1 1 2 1 0 0 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 <</td><td>Image: Signal Name Image: Signal</td><td>1 1</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Imag</td><td>Image: Signal Name Image: Signal Name Signal Name Image: Signal Name - - <</td><td>Image: Signal Name Image: Signal Name 1 1 1</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td></td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name
 Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td>Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td>Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name <td>Signal Name Image: Signal Name Image: Signal Name<td></td><td></td></td></td></td></td> | 1 1 </td <td>1 1<!--</td--><td>1 1</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>1 1</td><td>1 1 1 1 1 1 2 1 0 0 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 <</td><td>Image: Signal Name Image: Signal</td><td>1 1</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Imag</td><td>Image: Signal Name Image: Signal Name Signal Name Image: Signal Name - -
 - - - - - - - - - - - - - - - - <</td><td>Image: Signal Name Image: Signal Name 1 1 1</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td></td><td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td></td><td>Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td><td>Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name <td>Signal Name Image: Signal Name Image: Signal Name<td></td><td></td></td></td></td> | 1 1 </td <td>1 1
 1 1</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>1 1</td> <td>1 1 1 1 1 1 2 1 0 0 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 <</td> <td>Image: Signal Name Image: Signal</td> <td>1 1</td> <td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Imag</td> <td>Image: Signal Name Image: Signal Name Signal Name Image: Signal Name - - <</td> <td>Image: Signal Name Image: Signal Name 1 1 1</td> <td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td> <td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td> <td></td> <td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td> <td></td> <td></td> <td>Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name
 Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td> <td></td> <td>Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name</td> <td>Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name <td>Signal Name Image: Signal Name Image: Signal Name<td></td><td></td></td></td> | 1 1 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 1 | 1 1 1 1 1 1 2 1 0 0 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 × 1 1 1 < | Image: Signal Name Image: Signal | 1 1 | Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Imag | Image: Signal Name Image: Signal Name Signal Name Image: Signal Name - - < | Image: Signal Name Image: Signal Name 1 1 1 | Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name | Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal
Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name | | Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name | | | Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name | | Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name | Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name Image: Signal Name <td>Signal Name Image: Signal Name Image: Signal Name<td></td><td></td></td> | Signal Name Image: Signal Name Image: Signal Name <td></td> <td></td> | | |

Р

< WIRING DIAGRAM >

Signal Name	I	I	I	I	I
Color of Wire	7	L	SB	٩	BG
Terminal No. Color of Wire	9	7	8	6	10

Signal Name	SET SW	REAR LIFTER SW (UPWARD)	FRONT LIFTER SW (UPWARD)	RECLINER SW (FORWARD)	SLIDE SW (FORWARD)	IND 1	ADDRESS 1	PULSE (TILT)	PULSE (REAR LIFTER)	PULSE (FRONT LIFTER)	LUSE (SLIDE)	CAN-L
Color of Wire	_	>	G	٩	_	≻	>	BG	В	≻	Γ	M
Terminal No.	21	22	23	24	25	26	27	28	29	30	31	32



Signal Name	I	I	I	Ι	I	
Color of Wire	٧	щ	В	Ι	G	
Terminal No. Color of Wire	Ļ	2	ę	4	5	

Signal Name	SLIDE SW (BACKWARD)	IND 2	ADDRESS 2	PULSE (TELESCOPIC)	PULSE (RECLINER)	Ι	UART (TX/RX)	CAN-H	I	I	I	I
Color of Wire	SB	σ	GR	N	G	-	SB	٩.	I	I	I	I
Terminal No.	6	10	÷	12	13	71	15	16	17	18	19	20





Signal Name	I	I	I	Ι	T	I
Color of Wire	В	В	×	L	I	Y
Terminal No. Color of Wire	٦.	2	e	4	5	9

6	DRIVER SEAT CONTROL UNIT	TE	
r No. B209	Connector Name DRIVER SEAT	Connector Color WHITE	
Connector No.	Connector	Connector	

	_	_	
	-	17	
	2	19 18	
	с	19	
	4	20	
	ŝ	21	
	9	22	
17	7	26 25 24 23 22 21	
	8	24	
	6	25	
	10	26	
		27	
	16 15 14 13 12 11	32 31 30 29 28 27	
	13	29	
	14	33	
	15	31	
	16	32	
	-		
		d l	
	<u>``</u>	0 L	
日相	Į 🔨		
Ľ	y .		

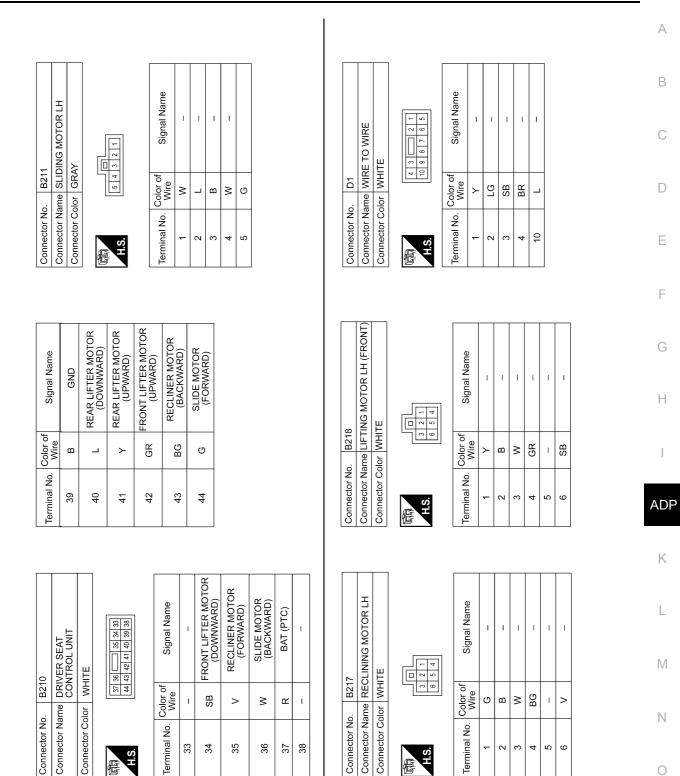
Signal Name	I	I	I	I	POWER SUPPLY (ENCODER)	REAR LIFTER SW (DOWNWARD)	FRONT LIFTER SW (DOWNWARD)	RECLINER SW (BACKWARD)
Color of Wire	Ι	I	Ι	-	M	В	٢	BG
Terminal No. Color of Wire	-	2	e	4	5	9	7	8

٦

ABJIA0621GB

AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



E

H.S.

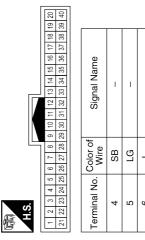
E

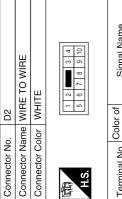
AAJIA0119GB

Ρ

< WIRING DIAGRAM >

Signal Name	I	I	I	I	I	I	1	I	I	I
Color of Wire	>	Y	ГG	BG	_	٨	×	BG	SB	v
Terminal No. Color of Wire	8	6	16	17	18	33	34	35	36	37

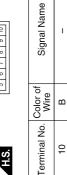


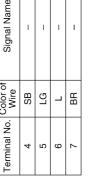


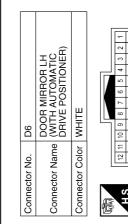
Connector Name WIRE TO WIRE

Connector No. D3

Connector Color WHITE







Connector Name WIRE TO WIRE

Connector No. D17

Connector Color WHITE

33								
4	ue ue							
15	Zai							
16	Signal Name	1	- 1	1	1	1		1
17	g							
18	Si							
19								
20								
24 23 22 21 20 19 18 17 16 15 14 13	of							
22	ire o	BG		g	BG	>	SB	╎≻
23	Color of Wire	ш			ш	-	05	ľ.
24								
o. L	Terminal No.	10	11	12	21	22	23	24

Signal Name

Color of Wire

Terminal No.

4

H.S.

佢

I

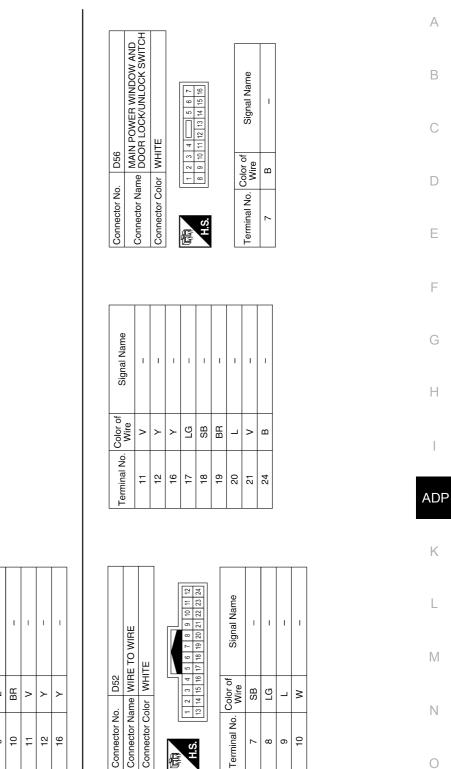
ш

9

ABJIA0622GB

AUTOMATIC DRIVE POSITIONER SYSTEM

Revision: March 2012



Signal Name Т T Т Т Т I. Color of Wire BBB > ш _ Terminal No. 17 19 20 21 24

< WIRING DIAGRAM >

Connector No.	D19
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE
L L L	

Signal Nam	I	I	I	I	I	I	1
Color of Wire	SB	LG	_	BR	>	≻	≻
Terminal No.	7	8	6	10	11	12	16

Ъ

		Γ	4	1						
Connector No.	Ň.		Ë	297						
Connector Name WIRE TO WIRE	Nan	эг	3	Ē	ш	0	≥	Ë		
Connector Color	Colc	٥r	<	WHITE	Ë					
E				_		Ν				
	-	2	С	4	5	9	7	÷	6	9
0.L	13	14	15	13 14 15 16 17 18 19 20 21 22	17	8	5	20	21	22

7	œ	6	10	

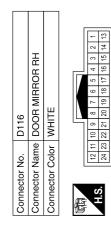
ABJIA0623GB

Ρ

I

Revision: March 2012

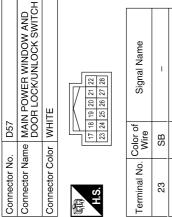
< WIRING DIAGRAM >



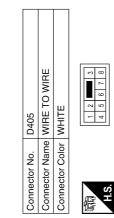
Signal Name	I	1	I	I	I	I	I
Color of Wire	SB	σ	BR	ВВ	٢	^	L
Terminal No. Color of Wire	10	11	12	21	22	23	24



Signal Name	I	1	I	I	1	I	I
Color of Wire	≻	_	BR	>	BR	SB	ГG
Terminal No. Color of Wire	9	7	8	6	19	20	21



Signal Name	I	I	I	I	I	I	
Color of Wire	SB	>	Γ	Μ	¥	G	
Terminal No. Color of Wire	23	24	25	26	27	28	





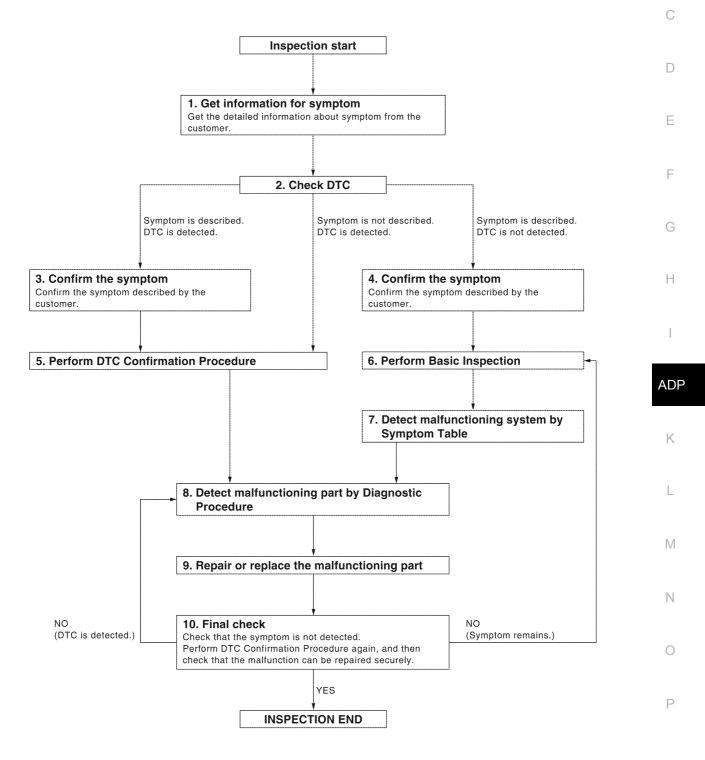
ABJIA0629GB

< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

WORK FLOW



DETAILED FLOW

Revision: March 2012

А

В

INFOID:000000008184629

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

$\mathbf{2}$. CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM

Check "Self Diagnostic Result" with CONSULT. Refer to <u>ADP-31, "DTC Index"</u>.

Is any symptom described and any DTC is displayed?

Symptom is described, DTC is displayed.>>GO TO 3. Symptom is not described, DTC is displayed.>>GO TO 7. Symptom is described, DTC is not displayed.>>GO TO 4.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 7.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 5.

5. CHECK NORMAL OPERATING CONDITION

Check normal operating condition. Refer to <u>ADP-139</u>, "Description".

Is the incident normal operation?

YES >> Inspection End.

NO >> GO TO 6.

6. PERFORM BASIC INSPECTION

Isolate the malfunctioning point with a basic inspection.

>> GO TO 8.

7. PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 9.

NO >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".

8. PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 9.

9. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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

>> GO TO 10.

10. REPAIR OR REPLACE

Repair or replace the malfunctioning part.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 11.	٨
11. FINAL CHECK	А
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. <u>Are all malfunctions corrected?</u> YES >> Inspection End.	В
Symptom is detected.>> GO TO 4. DTC is detected.>> GO TO 7.	С
	D
	E
	F
	Н
	I
	AD
	K
	L

Р

Ο

M

Ν

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

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

Function	Condition	Procedure	
Memory (Seat, steering, mirror)	Erased	Perform storing	
		Perform initialization	
Entry/exit assist	ON	Set slide amount ^{*1}	
Intelligent Key interleek	Erased	Perform initialization	
Intelligent Key interlock	Elaseu	Perform storing	

^{*1}: Default value is 40 mm.

NOTE:

Notice that disconnecting the battery when detected DTC are present will erase the DTC memory.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Work Procedure

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-55, "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 <u>ADP-57, "INTELLIGENT KEY INTERLOCK STORING</u>: <u>Work Procedure"</u>.

>> GO TO 4.

4.SYSTEM SETTING

Perform system setting. Refer to ADP-57, "SYSTEM SETTING : Work Procedure".

>> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000008266371

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
	ON	Perform initialization
Entry/exit assist	ON	Set slide amount ^{*1}

< BASIC INSPECTION >

Driver door switch is ON (open) \rightarrow OFF (close) \rightarrow ON (open).

< BASIC INSPECTION >

>> Inspection End.

4. STEP B-1

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

>> Inspection End. MEMORY STORING

MEMORY STORING : Description

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:000000008266376

INFOID:00000008266375

Memory Storage Procedure

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

1.STEP 1

Check the following conditions.

Ignition switch: ON

ČVT 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. INTELLIGENT KEY INTERLOCK STORING

INTELLIGENT KEY INTERLOCK STORING : Description

INFOID:000000008266377

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



< BASIC INSPECTION >

INTELLIGENT KEY INTERLOCK STORING : Work Procedure

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 В driving position and turnout operation can be performed.

1.STEP 1

Check the following conditions.

- · Ignition switch: OFF
- Initialization: done
- · Driving position: registered

>> GO TO 2.

2.STEP 2

- 1 Push set switch. NOTE:
- Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.
- 2. Push the Intelligent Key unlock button within 5 seconds after pushing memory switch (while the memory indicator is turned ON).

NOTE:

From the time registration is performed, the applicable memory indicator blinks for 5 seconds.

>> GO TO 3.

3.STEP 3

Confirm the operation of each part with memory operation and Intelligent Key interlock operation.

>> Inspection End. SYSTEM SETTING

SYSTEM SETTING : Description

The settings of the automatic driving 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	IVI
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	Ν
Entry/exit assist (seat)	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	x	Y	ON	0
Entry/exit assist (steering column)	Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated)	x	x	ON	

SYSTEM SETTING : Work Procedure

CHOOSE METHOD

There are three setting methods. Which method do you choose? With CONSULT>>GO TO 2.

INFOID:00000008266380

ADP

Κ

INFOID:000000008266379

INFOID:00000008266378

А

D

Е

F

Н

L

< BASIC INSPECTION >

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 of "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) are ON: Memory switch indicator blink two times.
- Entry/exit assist (seat/steering column) are OFF: Memory switch indicator blink once.

>> Inspection End.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

	IRCUIT DI			А
U1000 C	AN COMM C	IRCUIT		A
Descriptio	n		INFOID:00000008145234	В
Refer to LAN	I-39, "CAN COMML	JNICATION SYSTEM : CAN Communication Sig	nal Chart".	
DTC Logic	0		INFOID:00000008145235	С
DTC DETE	CTION LOGIC			
DTC	Trouble diagnosis name	DTC detecting condition	Possible cause	D
U1000	CAN COMM CIR- CUIT	 Driver seat control unit cannot communicate to other control units. Driver seat control unit cannot communicate for more than the specified time. 	 Harness or connectors (CAN communication line is open or shorted) 	E
DTC CONF 1. STEP 1	IRMATION PROC	EDURE		F
	switch ON and wai	t at least 3 seconds.		G
2. STEP 2 Check "Self of Is the DTC d YES >> F		ith CONSULT. procedure. Refer to <u>ADP-59, "Diagnosis_Procedu</u>		H
	Procedure		INFOID:00000008145236	ADP
	I-22, "Trouble Diagr			K
•	epair Requirem	ent	INFOID:00000008145237	
Refer to Owr	ner's Manual.			L
				в. /
				Μ
				Ν
				0
				Ρ

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

Description

Refer to LAN-39, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC Logic

INFOID:000000008145239

INFOID:000000008145238

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000008145240

1. REPLACE DRIVER SEAT CONTROL UNIT

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

>> Replace driver seat control unit. Refer to ADP-140, "Removal and Installation".

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:00000008145241 · The seat sliding motor LH is installed to the seat frame. The seat sliding motor LH is installed with the driver seat control unit. Slides the seat frontward/rearward by changing the rotation direction of sliding motor LH. DTC Logic INFOID:000000008145242 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name E The driver seat control unit detects the output of slid- Driver seat control unit SEAT SLIDE ing motor LH output terminal for 0.1 second or more · Front power seat LH (sliding mo-B2112 even if the sliding switch is not input. tor) harness is shorted F DTC CONFIRMATION PROCEDURE 1.PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT. Is the DTC detected? YES >> Refer to ADP-61, "Diagnosis Procedure". Н NO >> Inspection End. Diagnosis Procedure INFOID:000000008145243 Regarding Wiring Diagram information, refer to <u>ADP-36</u>, "Wiring Diagram". ADP 1.PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT. 3. Erase the DTC. 4. Perform DTC confirmation procedure. Refer to <u>ADP-65, "DTC Logic"</u>. Is the DTC displayed again? YES >> GO TO 2. Μ NO >> Check intermittent incident. Refer to GI-53, "Intermittent Incident". **2.**CHECK SLIDING MOTOR LH CIRCUIT (POWER SHORT) 1. Turn ignition switch OFF. Ν 2. Disconnect sliding motor LH and driver seat control unit connector. Check voltage between sliding motor LH harness connector and ground. 3.

(+)				0
Sliding motor LH		(-) Voltage (V)	Voltage (V) (Approx.)	
Connector	Terminals			Р
B211	4	Ground 0	0	
D211	5	Giodila	U	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

А

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

>> Inspection End

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description

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

DTC Logic

DTC DETECTION LOGIC

-	DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	
-	B2113	SEAT RECLINING	The driver seat control unit detects the output of re- clining motor LH output terminal for 0.1 second or more even if the reclining switch is not input.	 Driver seat control unit Front power seat LH (reclining motor) harness is shorted 	Ε
DT	C CONFI	RMATION PROCE	DURE		F
1.	PERFORM	M DTC CONFIRMAT	ION PROCEDURE		
1. 2. Is 1		tion switch ON. Self diagnostic result" etected?	with CONSULT.		G
Y	ES >> F	Refer to <u>ADP-63, "Dia</u> nspection End.	agnosis Procedure".		Н
Di	agnosis	Procedure		INFOID:00000008145246	
					I
Re	garding W	iring Diagram inform	ation, refer to <u>ADP-36, "Wiring Diagram"</u> .		
4					ADF
		M DTC CONFIRMAT	ION PROCEDURE		
1. 2.		tion switch ON. Self diagnostic result"	with CONSULT.		Κ
3.	Erase the	e DTC.			
4. Is t		splayed again?	ocedure. Refer to <u>ADP-63, "DTC Logic"</u> .		L
Y	ES >> (GO TO 2.			
~			vident. Refer to <u>GI-53, "Intermittent Incident"</u>		Μ
		tion switch OFF.	LH CIRCUIT (POWER SHORT)		
1. 2.	Disconne	ect reclining motor LH	and driver seat control unit connector.		Ν
3.	Check vo	oltage between reclin	ing motor LH harness connector and ground	d.	

(+) Reclining motor LH		(-)	Voltage (V) (Approx.)	0
Connector	Terminals	(Approx.)		5
B217	4	Ground	0	Р
DZ 17	6	Ground	U	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

 $\mathbf{3}$.check driver seat control unit output signal

А

В

С

D

INFOID:000000008145244

INFOID:000000008145245

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

1. Connect driver seat control unit connector.

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

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)	
Connector	Terminals		(, , , , , , , , , , , , , , , , , , ,	
B210	35	Ground	0	
B210	39	Ground	U	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

>> Inspection End.

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2116 TILT MOTOR

Descr	ription

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

- The tilt motor is activated with the automatic drive positioner control unit.
- The steering column is tilted up/down by changing the rotation direction tilt motor.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detect	ing condition	Possible cause
B2116	STEERING TILT	The automatic drive position motor operation for 0.1 sec	oner control unit detects tilt ond or more when tilt switch id there is no output of auto-	 Automatic drive positioner control unit Tilt motor harness is shorted
DTC CON	FIRMATION PROC	EDURE		
1.PERFO	RM DTC CONFIRMA	TION PROCEDURE		
2. Check Is the DTC YES >: NO >:	nition switch ON. "Self diagnostic resul" <u>detected?</u> > Refer to <u>ADP-65. "D</u> > Inspection End. is Procedure			INFQID:0000000814524
Regarding	Wiring Diagram inform	nation, refer to <u>ADP-36</u>	, "Wiring Diagram".	
1.PERFO	RM DTC CONFIRMA	TION PROCEDURE		
 Check Erase 	nition switch ON. "Self diagnostic resul the DTC. m DTC confirmation p	" with CONSULT.	P-65, "DTC Logic".	
<u>Is the DTC</u> YES >:	displayed again? > GO TO 2.			
•	Check intermittent in TILT MOTOR CIRCU		"Intermittent Incident".	
1. Turn ig 2. Discor	nition switch OFF.		ind tilt motor connector. or and ground.	
	(+)			
	Tilt motor		(–)	Voltage (V) (Approx.)
C	onnector	Terminals		
	M85	1	Ground	0
		2		

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

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

А

В

С

INFOID:000000008145247

INFOID:000000008145248

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

	+) ositioner control unit	(-)	Voltage (V) (Approx.)	
Connector	Terminals		(
M34	28	Ground	0	
11/13/4	29	Giðullu	U	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u>

NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description

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

DTC Logic

INFOID:000000008145251

INFOID:000000008145250

А

D

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2128	UART COMM	The communication between driver seat control unit and automatic drive positioner control unit is interrupt- ed for a period of time.	 UART communication line (UART communication line is open or shorted) Driver seat control unit Automatic drive positioner control unit
TC CONFI	RMATION PROCE	DURE	
.PERFORM	M DTC CONFIRMATIO	ON PROCEDURE	
2. Check "S <u>s the DTC de</u> YES >> R	tion switch ON. Self diagnostic result" v <u>etected?</u> Refer to <u>ADP-67, "Diac</u> nspection End.		
	Procedure		
Jiagnosis	Tioccure		INFOID:00000008;
		tion, refer to <u>ADP-36, "Wiring Diagram"</u> .	
1.PERFORM	M DTC CONFIRMATIO	ON PROCEDURE	
2. Check "S 3. Erase the			
		cedure. Refer to <u>ADP-67, "DTC Logic"</u> .	
	<u>splayed again?</u> GO TO 2.		
		dent. Refer to GI-53, "Intermittent Incident".	
2. CHECK U	JART COMMUNICATI	ON LINE CONTINUITY	
1. Turn ignit	tion switch OFF.	unit and automatic drive positioner control un	

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

Driver seat control unit connec- tor					
Connector	Terminal	Connector	Terminal		
B209	15	M33	8	Yes	

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

Ρ

B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

Driver seat contro		Continuity	
Connector	Terminal	Ground	Continuity
B209	15		No

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u>.

NO >> Repair or replace harness.

B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

B2130 EEPROM

DTC Logic

INFOID:000000008145253

А

В

Μ

Ν

Ο

Ρ

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	
B2130	EEPROM	Driver seat control unit detected CPU malfunction.	Driver seat control unit	
TC CONFI	RMATION PROCE	EDURE		
1.PERFORM	M DTC CONFIRMAT	ION PROCEDURE		
	tion switch ON. Self diagnostic result			
s the DTC de	•	with CONSOLT.		
YES >> F	Refer to ADP-69, "Dia	agnosis Procedure".		
	nspection End.			
Jiagnosis	Procedure		INFOID:00000008145254	
1. PERFOR	M DTC CONFIRMA	TION PROCEDURE		
	tion switch ON.			
 Check "S Erase the 	Self diagnostic resulť e DTC.	with CONSULT.		
	•	ocedure. Refer to <u>ADP-69, "DTC Logic"</u> .		
	<u>splayed again?</u> GO TO 2.			
		cident. Refer to <u>GI-53, "Intermittent Incident"</u>		
2. REPLACE	E DRIVER SEAT CC	NTROL UNIT		A
Replace drive	er seat control unit. F	Refer to ADP-140, "Removal and Installation	<u>"</u> .	
>>	nspection End.			

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT BCM

BCM : Diagnosis Procedure

INFOID:000000008242839

Regarding Wiring Diagram information, refer to BCS-52, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.		
139	Fusible link battery power	O (40A)		
131	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.

B	CM	Ground	Voltage (Approx.)	
Connector	Connector Terminal		(Approx.)	
M81	131		Battery voltage	
ΙΟΙΟΙ	139	—	Dallery Vollage	

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.

В	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M81	134		Yes	
Ινίο Ι	143	—	162	

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:000000008145255

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-36, "Wiring Diagram".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

	ilage beth					tor and ground.	
(+) Driver seat co Connector	ontrol unit Terminal	()	Power source	Condition	Voltage (V) (Approx.)		
B210	37	Ground	Battery power sup- ply	Ignition switch OFF	Battery voltage		
NO >>	O TO 2. Check the Repair or	e following replace ha			1		
• 2. снеск G	Circuit bre						
			er seat con	trol unit ha	rness conne	ector and ground.	
Drive	er seat contro	ol unit					
Connec		Termina	l Grour	nd C	Continuity		
B210)	39			Yes	-	
V – S S In							
NO >> R RIVER S	EAT CC	eplace har NTROL	UNIT : S	Special F	Repair Re	quirement INFOID:00000008145256	,
NO >> R ORIVER S .PERFORM	EPAIR OF REAT CC	eplace har ONTROL	UNIT : S				ŀ
NO >> R PRIVER S .PERFORM	EPAIR OF REAT CC	eplace har ONTROL	UNIT : S				1
NO >> R PRIVER S .PERFORM erform additi >> R N	Repair or re EAT CC A ADDITIC ional servi Refer to <u>AI</u> IAL : Desc	oplace har ONTROL ONAL SER ice when r OP-54, "Al	UNIT : S VICE emoving ba	ttery negat	tive termina	EMOVING BATTERY NEGATIVE TERMI-	1
NO >> R PERFORM PERFORM Perform addition >> R NUTOMAT	EAT CC EAT CC A ADDITIC ional servi Efer to <u>AI</u> IAL : Desc TIC DRI	DNAL SER	UNIT : S VICE emoving ba DDITIONAL	ttery negat	tive termina WHEN RI ROL UN	EMOVING BATTERY NEGATIVE TERMI- IT : Diagnosis Procedure	,
NO >> R RIVER S PERFORM erform additi >> R NUTOMAT UTOMAT	Repair or re EAT CC A ADDITIC ional servi Refer to <u>AI</u> AL : Desc TIC DRI TIC DRI	DNAL SER DNAL SER Ce when r DP-54, "Al VE POS	UNIT : S VICE emoving ba DITIONAL SITIONEI	ttery negat SERVICE R CONT CONTR	tive termina WHEN RI ROL UN	EMOVING BATTERY NEGATIVE TERMI- IT	
NO >> R PERFORM PERFORM Perform additi PERFORM PERFORM PERFORM NOTE:	Repair or re EAT CC A ADDITIC ional servi Refer to <u>AI</u> AL : Desc TIC DRI TIC DRI TIC DRI DRIN	ontrol onal ser onal	UNIT : S VICE emoving ba DDITIONAL SITIONEI TIONER	ttery negat SERVICE R CONT CONTR nal and th	tive termina WHEN RI ROL UN ROL UNIT e driver sea	MOVING BATTERY NEGATIVE TERMI- IT : Diagnosis Procedure INFOID:00000008145257 at control unit connector until DTC is con-	

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+)			
Automatic drive position	()	Voltage (V) (Approx.)	
Connector	Terminal		
M34	Ground	Battery voltage	
Is the inspection result r	ormal?		

the inspection result normal?

YES >> GO TO 2. NO

- >> Check the following.
 - · Repair or replace harness.
 - · Circuit breaker.
- 2. CHECK GROUND CIRCUIT

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
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:000000008145258

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to ADP-54, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMI-NAL : Description".

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

Description

Sliding switch is equipped to the power seat switch LH on the seat frame. The operation signal is input to the driver seat control unit when the sliding switch is operated. ${}^{\rm B}$

Component Function Check

1. CHECK FUNCTION

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

2. Check sliding switch signal under the following conditions.

Monitor item	Condition	ו	Status
	Cliding quitch (forward)	Operate	ON
SLIDE SW-FR	Sliding switch (forward)	Release	OFF
SLIDE SW-RR	Cliding quitch (healquerd)	Operate	ON
SLIDE SW-RR	Sliding switch (backward)	Release	OFF
he inspection result norm ES >> Inspection End. D >> Perform diagno		nosis Procedure".	
agnosis Procedure			INFOID:000000008145262

1. CHECK SLIDING SWITCH SIGNAL

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

(+)		(–) C									
Driver seat c	ontrol unit	(–)	(–) Condition	Voltage (V) (Approx.)							
Connector	Terminals			(/ ())							
	9			Operate (backward)	0						
B 200	3		- Ground					Orayund	Sliding	Release	Battery voltage
B209	25			switch	switch	switch	switch	switch	* switch	Operate (forward)	0
	25			Release	Battery voltage						
ne inspection	n result norm	nal?	I		1						

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.

А

D

ADP

Ρ

INFOID:000000008145260

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver seat co	ontrol unit	Power seat sv	witch LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B209	9	B208	8	Yes
6209	25	6200	7	165

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

Driver seat control un	it connector		Continuity
Connector	Terminal	Ground	Continuity
B209	9	Ground	No
B209	25		NO

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

1. Connect the driver seat control unit.

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

(+) Driver seat contr	ol unit	(-)	Voltage (V) (Approx.)
Connector	Terminals	-	(Αρριοχ.)
B209	9	Ground	Battery voltage
B209	25	Ground	Dattery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>ADP-140, "Removal and Installation"</u>.

4. CHECK SLIDING SWITCH

Refer to ADP-74, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power seat switch LH. Refer to <u>ADP-143</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to ADP-140, "Removal and Installation".
- NO >> Repair or replace malfunctioning part.

Component Inspection

1. CHECK SLIDING SWITCH

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

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Teri	minal	Condition		Continuity
Power sea	at switch LH			Continuity
	8	Sliding switch (backward)	Operate	Yes
3	0		Release	No
5	7	Sliding switch (forward)	Operate	Yes
	/	Siluing Switch (IOIWalu)	Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>ADP-143, "Removal and Installation"</u>.

I

А

В

С

D

Е

F

G

Н

L

Μ

Ν

Ο

Ρ

ADP

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SWITCH

Description

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

Component Function Check

INFOID:000000008145265

INFOID:00000008145264

1.CHECK FUNCTION

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

Monitor item	Condition		Status
RECLN SW-FR	Reclining switch (forward)	Operate	ON
REGEN SW-FR	Reclining Switch (lorward)	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 <u>ADP-76, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000008145266

Regarding Wiring Diagram information, refer to <u>ADP-36, "Wiring Diagram"</u>.

1. CHECK RECLINING SWITCH SIGNAL

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

(+)					
Driver seat co	ntrol unit	(-)	Cor	ndition	Voltage (V) (Approx.)
Connector	Termi- nals				(Αρριοχ.)
	24			Operate (forward)	0
B209		Ground	Reclining	Release	Battery voltage
B209	8	Ground	switch	Operate (backward)	0
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

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.

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver seat cont	rol unit	Power sea	t switch LH cor	nnector		-	А
Connector	Terminal	Conne	ctor Ter	minal	Continuity		
B209	24	- B20	Q	9	Yes	-	В
B209	8	- B20		10	165		D
4. Check continu	uity betwee	en driver s	seat control unit harness connector and ground.		ector and ground.	С	
Driver se	at control un	it			Continuity	•	
Connector		Terminal	Ground		Continuity		
B209		24	Cround		No		D
		8			110		
3. CHECK DRIVE	O 3. r or replac ER SEAT (e harness		PUT			E F
	witch ON. between			t harne	ess connect	or and ground.	G
(+)			Ve	oltage (V)		Н
Driver seat	t control unit		(-)		Approx.)		
Connector	Term	ninals				<u>.</u>	
B209		8	Ground	Batt	ery voltage		
		24					
Is the inspection re YES >> GO TO NO >> Repla 4. CHECK RECL	O 4. ce driver s	seat contro	ol unit. Refer	to <u>AD</u>	<u>P-140. "Re</u>	moval and Installation".	ADP K
Refer to ADP-77,	"Compone	ent Inspect	ion".				Γ
Is the inspection revealed of the inspection rev	O 5. ce power :	seat switcl		to <u>ADF</u>	2-143, "Ren	noval and Installation".	L
Refer to <u>GI-53, "In</u>							Μ
Is the inspection re							
YES >> Repla	ce driver s	seat contro	ol unit. Refer unctioning p		<u>P-140, "Re</u>	moval and Installation".	Ν
Component In	spectior	า				INFOID:000000008145267	
1. CHECK RECL	INING SW	/ITCH					0
 Turn ignition s Disconnect pc Check continu 	ower seat	switch LH.		_H tern	ninals.		Ρ

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terr	ninals	Condi	tion	Continuity
Power sea	at switch LH	Condi		Continuity
	10	Reclining switch	Operate	Yes
3	10	(backward)	Release	No
5	9	Reclining switch	Operate	Yes
	9	(forward)	Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>ADP-143</u>, "<u>Removal and Installation</u>".

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Monitor item	Condition	ı	Status
LIFT FR SW-UP	Lifting quitch front (up)	Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
	Lifting quitch front (down)	Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
he inspection result norm ES >> Inspection End. D >> Perform diagnos	<u>al?</u> sis procedure. Refer to <u>ADP-79, "Diac</u>	nosis Procedure".	
agnosis Procedure			INFOID:0000000814527(

Regarding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".

1. CHECK LIFTING SWITCH SIGNAL

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

(+)					
Driver seat co	ntrol unit	()	Co	ondition	Voltage (V)
Connector	Termi- nals				
	7			Operate (down)	0V
B209	7	Ground	Lifting switch	Release	Battery voltage
			(front)	Operate (up)	0V
	23			Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and power seat switch LH.

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

INFOID:00000008145268

INFOID:000000008145269

D

- ADP

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat cor	itrol unit	Power seat sv	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B209	7	B208	6	Yes
B209	23	6200	5	165

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

Connector Terminal B209 7 Connector 7 No 000000000000000000000000000000000000	Driver seat contr		Continuity		
B209 7 No	Connector	Terminal	Ground	Continuity	
	B200	7	Ground	No	
	6209	23		INO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$\mathbf{3}$. 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.

(+)	trol unit	(-)	Voltage (V)	
Connector	Terminals		(Approx.)	
B209	7	Ground	Battery voltage	
B203	23	Ground	Ballery Vollage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>ADP-140, "Removal and Installation"</u>.

4. CHECK LIFTING SWITCH (FRONT)

Refer to ADP-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power seat switch LH. Refer to <u>ADP-143</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

Component Inspection

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.

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Condition	Continuity	
Power seat switch LH		Condition		
	6	Lifting switch front (down)	Operate	Yes
3	0		Release	No
3	5 Lifting s	Lifting switch front (up)	Operate	Yes
		Linung Switch Hont (up)	Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>ADP-143, "Removal and Installation"</u>.

А

В

С

D

Е

F

G

Н

ADP

Κ

L

Μ

Ν

Ο

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description

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

Component Function Check

INFOID:000000008145273

INFOID:00000008145272

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Inspection End.

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

Diagnosis Procedure

INFOID:000000008145274

Regarding Wiring Diagram information, refer to <u>ADP-36, "Wiring Diagram"</u>.

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

(+)						
Driver seat control unit		(—)	Condition		Voltage (V)	
Connector	Termi- nals				(Approx.)	
	6		Operate (down)	0		
B209	0	Cround	Ground Switch (rear)	Release	Battery voltage	
6209	22	Ground		Operate (up)	0	
	22			Release	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

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

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat contr	rol unit	Powe	er sear sv	vitch LH		_	А					
Connector	Terminal	Conne	ctor	Termina	Continuit	y						
 	6	D20	0	2	Vaa		В					
B209	22	B20	8	1	Yes 1		D					
4. Check continu	ity betweer	n driver se	eat cont	rol unit h	arness conr	nector and ground.	С					
	it control unit				Continuity							
Connector	Те	rminal	Gro	und	,	_	D					
B209		6 22			No		D					
Is the inspection result normal?												
YES >> GO TO NO >> Repair) 3. · or replace	harness.					E					
3. CHECK DRIVE	R SEAT C	ONTROL	UNIT	DUTPUT			F					
 Connect the du Turn ignition so Check voltage 	witch ON.			l unit harı	ness connec	ctor and ground.	G					
(+)												
Driver seat co	ntrol unit		(–)		ltage (V) .pprox.)		Н					
Connector	Termina	ls		(*)	(pp10/0.)							
B209	6 22	G	round	Batte	ery voltage							
Is the inspection re	sult norma	?										
YES >> GO TO	-						ADP					
NO >> Replace 4. CHECK LIFTIN				efer to <u>A</u>	<u>DP-140, "R</u>	emoval and Installation".						
		,					K					
Refer to <u>ADP-83, "</u> Is the inspection re			<u>on </u> .									
YES >> GO TO		<u></u>										
		eat switch	n LH. Re	efer to AL	<u> DP-143, "Re</u>	moval and Installation".	_					
5. CHECK INTER	MITTENT	INCIDEN	Т									
Refer to GI-53, "Int	termittent Ir	ncident".					\mathbb{M}					
Is the inspection re												
	YES >> Replace driver seat control unit. Refer to <u>ADP-140, "Removal and Installation"</u> .											
Component Ins	Component Inspection											
1. CHECK LIFTIN	1. CHECK LIFTING SWITCH (REAR)											
2. Disconnect po	2. Disconnect power seat switch LH.											
3. Check continu	ity betweer	i power s		CH LH TE	minals.	3. Check continuity between power seat switch LH terminals.						

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Condition	Continuity	
Power seat switch LH		Condition		
	1	Lifting switch rear (up)	Operate	Yes
32	I	Litting switch rear (up)	Release	No
	2	Lifting switch rear (down)	Operate	Yes
		Linung switch rear (down)	Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace power seat switch LH. Refer to <u>ADP-143</u>, "Removal and Installation".

TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TILT SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

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

2. Check tilt switch signal under the following conditions.

Monitor item	C	ondition	Status	
	Tilt ausitala (um)	Operate	ON	
TILT SW-UP	Tilt switch (up)	Release	OFF	
		Operate	ON	
TILT SW-DOWN	Tilt switch (down)	Release	OFF	

Is the inspection result normal?

YES	>> Inspection E	End.
-----	-----------------	------

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to ADP-36, "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)	
ADP steering switch (tilt switch)		(-)	Voltage (V) (Approx.)
Connector	Terminals		())
M16	4	Ground	Batten voltage
MITO	5	Ground	Battery voltage
Is the inspection	_		

YES >> GO TO 3.

NO >> GO TO 2.

NO >> GO TO Z.

- 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.

	e positioner control unit	ADP steering s	Continuity	
Connector	Terminal	Connector	Terminal	
M33	1	M16	4	Yes
M33	13	IN TO	5	165

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

А

D

,

INFOID:00000008145276

INFOID:000000008145277

INFOID:000000008145278

Н

G

ADP

Κ

L

Μ

Ν

TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	sitioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M33	1	Giouna	No	
	13		INO	

Is the inspection result normal?

YES >> Replace automatic drive positioner unit. Refer to <u>ADP-141, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK TILT SWITCH

Refer to ADP-86, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace ADP steering switch (tilt switch). Refer to <u>ADP-144</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-53. "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:000000008145279

1. CHECK TILT SWITCH

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

switch (t	steering ilt switch) minal	Condition		Continuity
	4	Tilt switch (up)	Operate	Yes
1		The Switch (up)	Release	No
1	•	Tilt switch (down)	Operate	Yes
	5	The Switch (down)	Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace ADP steering switch (tilt switch). Refer to <u>ADP-144, "Removal and Installation"</u>.

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

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

2. Check telescopic switch signal under the following conditions.

Monitor item	Condi	Condition		
	Talaasania switch (fanward)	Operate	ON	-
TELESCO SW-FR	Telescopic switch (forward)	Release	OFF	-
		Operate	ON	-
FELESCO SW-RR	Telescopic switch (backward)	Release	OFF	-

Is the inspection result normal?

YES >> Inspection E	End.
---------------------	------

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to ADP-36, "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.

(+)		
ADP steering switcl	n (telescopic switch)	(—)	Voltage (V) (Approx.)
Connector	Terminals		
M16	2	Ground	Battery voltage
WI IO	3	Ground	Dattery Voltage

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.

	omatic drive positioner control unit		ADP steering switch (tele- scopic switch)	
Connector	Terminal	Connector Terminal		
M33	7	M16	2	Yes
10133	19	WITO	3	Tes

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

А

D

INFOID:00000008145280

INFOID:000000008145281

INFOID:000000008145282

G

Н

- ADP

Κ

L

Μ

Ν

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace automatic drive positioner unit. Refer to <u>ADP-141, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK TELESCOPIC SWITCH

Refer to ADP-88, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace ADP steering switch (telescopic switch). Refer to <u>ADP-144, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

>> Inspection End.

Component Inspection

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 (tele- scopic switch) Terminal		Condition		Continuity
	2	Telescopic switch (forward)	Operate Release	Yes No
1	3	Telescopic switch	Operate	Yes
	3 (backw		Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace ADP steering switch (telescopic switch). Refer to <u>ADP-144, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Monitor item	Cond	ition	Status
MEMORY SW 1	Momon (out to h 1	Push	ON
	Memory switch 1	Release	OFF
MEMORY SW 2	Mamon (out tob 2	Push	ON
	Memory switch 2	Release	OFF
SET SW	Set switch	Push	ON
	Sei Switch	Release	OFF

Diagnosis Procedure

Regarding Wiring Diagram ir	nformation, refer to	ADP-36.	"Wiring Diagram".
riegarang trinig Biagram			Trining Blagrann.

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.

((+)		
Seat men	nory switch	()	Voltage (V) (Approx.)
Connector	Terminals		() () () () () () () () () ()
	1		
D60	2	Ground	5
	3		
he inspection r	esult 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.

Α

D

ADP

Κ

L

Ρ

INFOID:00000008145284

INFOID:000000008145285

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Seat memory switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
	11		2	
B209	21	D60	3	Yes
	27		1	

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-141, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK MEMORY SWITCH GROUND CIRCUIT

Check continuity between seat memory switch harness connector and ground.

Seat memo	ry switch		Continuity
Connector	Terminal	Ground	Continuity
D60	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEAT MEMORY SWITCH

Refer to ADP-90, "Component Inspection".

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".
- NO >> Replace seat memory switch. Refer to <u>ADP-142</u>, "<u>Removal and Installation</u>".

Component Inspection

1. CHECK SEAT MEMORY SWITCH

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

Term Seat mem	-	Condition		Continuity
Seatmenn	Ory Switch			
	1	Memory switch 1	Push	Yes
	I	Memory Switch 1	Release	No
4	2	Memory switch 2	Push	Yes
4	2	Memory Switch 2	Release	No
	3	Set switch	Push	Yes
	5	Set Switch	Release	No

Is the inspection result normal?

YES >> Inspection End.



SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO	>> Replace seat memory switch. Refer to <u>ADP-142, "Removal and Installation"</u> .	
----	--	--

А

В

С

D

Е

F

G

Н

ADP

Κ

L

Μ

Ν

0

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

Changeover switch is integrated into door mirror remote control switch. Changeover switch has three positions (L, N and R). It changes door mirror motor operation by transmitting control signal to automatic drive positioner control unit.

CHANGEOVER SWITCH : Component Function Check

INFOID:000000008145289

INFOID:00000008145288

1. CHECK FUNCTION

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

Monitor item	Cor	dition	Status
MIR CHNG SW-R	Mirror switch (right)	Operate	ON
	Minor Switch (fight)	Release	OFF
MIR CHNG SW-L	Mirror switch (left)	Operate	ON
	WIITOF SWITCH (Tert)	Release	OFF

Is the inspection result normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-92</u>, "CHANGEOVER SWITCH : Diagnosis Proce-<u>dure"</u>.

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000008145290

Regarding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".

1. CHECK CHANGEOVER SWITCH SIGNAL

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

(+) Automatic drive pos trol unit		(-)	Change over switch condition	Voltage (V) (Approx.)
Connector	Terminal			
	2		RIGHT	0
M33	2	Ground	Other than above	5
Wibb	14	Ground	LEFT	0
	14		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.

< DTC/CIRCUIT DIAGNOSIS >

Connector Terminal Connector Terminal M33 2 D57 28 Yes 4. Check continuity between automatic drive positioner control unit connector and ground. Automatic drive positioner control unit Connector Terminal M33 2 14 Ground M33 2 0 No is the inspection result normal? YES > GO TO 3. NO >> Repair or replace harness. S. 3. Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Continuity Connector Terminal Ground Door mirror remote control switch Continuity Connector Terminal Ground VES >> Go TO 4. No S the inspection result normal? Yes YES >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". S the inspection result normal? Yes YES >> Refer to GL-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and I	Connector Terminal Connector Terminal M33 2 D57 28 Yes 4. Check continuity between automatic drive positioner control unit connector and ground. Automatic drive positioner control unit Continuity Connector Terminal Ground M33 2 Image: Continuity Connector Terminal Ground M33 2 Image: Continuity Connector Terminal Ground M33 2 Image: Continuity Sthe inspection result normal? Sthe inspection result normal? YES > GO TO 3. Continuity Door mirror remote control switch Continuity Connector Terminal Ground Door mirror remote control switch Continuity Sthe inspection result normal? Yes St be inspection result normal? Yes YES > Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". St he inspection result normal? Yes YES >> Refer to GL-53. "Intermittent Incident". NO<	Automatic drive pos unit	itioner control	Door mirror ren	note control swite	ch Continuity	
M33 14 D57 23 Yes 4. Check continuity between automatic drive positioner control unit connector and ground. Automatic drive positioner control unit Ground Continuity M33 14 Ground No S the inspection result normal? Yes So GO TO 3. No S the inspection result normal? Yes So GO TO 3. No S CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Continuity Connector Terminal Door mirror remote control switch Continuity Yes So GO TO 4. No >> Repair or replace harness. Continuity Yes s the inspection result normal? Yes Yes So GO TO 4. NO >> Replace door mirror remote control switch. Continuity YES >> Go TO 4. Yes So So TO 4. NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation". Check changeover switch. CHECK CHANGEOVER SWITCH Incident". No >> Replace door mirror remote control unit. Refer to <u>MIR-34, "Removal </u></u>	M33 14 D57 23 Yes A. Check continuity between automatic drive positioner control unit connector and ground. Automatic drive positioner control unit Continuity Connector Terminal Ground M33 2 No sthe inspection result normal? Yes YES >> CO TO 3. NO >> Repair or replace harness. C. 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 Door mirror remote control switch Continuity Connector Terminal Door mirror remote control switch Continuity Connector Terminal Door mirror remote control switch Yes s the inspection result normal? Yes YES >> Go To 4. NO >> Repair or replace harness. - CHECK CHANGEOVER SWITCH Component Inspection". S the inspection result normal? YES YES >> Refor to GLS3. "Intermittent Incident". NO >> Replace door mirror remote control switch. Re	Connector	Terminal	Connector	Terminal		
14 23 4. Check continuity between automatic drive positioner control unit connector and ground. Automatic drive positioner control unit Connector Terminal Ground Continuity M33 14 No as the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. C. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal Door mirror remote control switch Connector Terminal Door mirror remote control switch Continuity Door mirror remote control switch Connector Terminal Ground Yes sthe inspection result normal? YES >> GO TO 4. NO >> Replace door mirror remote control switch. Refer to MDP-93. "CHANGEOVER SWITCH : Component Inspection". Stein inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34.	14 23 4. Check continuity between automatic drive positioner control unit connector and ground. Automatic drive positioner control unit Connector Terminal 0 2 M33 14 No s 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 Continuity Continuity Control Terminal Ground Door mirror remote control switch Continuity Continuity Continuity Continuity Control Terminal Ground Zers S the inspection result normal? YES YES YES YES YES No YES YES YES YES YES YES <td>M22</td> <td>2</td> <td>DEZ</td> <td>28</td> <td>Vee</td> <td>-</td>	M22	2	DEZ	28	Vee	-
Automatic drive positioner control unit Continuity Ground 2 M33 14 No as 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 Terminal Door mirror remote control switch Connector Terminal Bob 7 Yes s the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH : Component Inspection". s the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Ste inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141.	Automatic drive positioner control unit Terminal Ground Continuity M33 14 No st 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 0 7 Yes s the inspection result normal? Yes YES > GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Continuity YES > GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". S the inspection result normal? YES YES >> Refer to GL53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GL53. "Intermittent Incident". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection <td>10133</td> <td>14</td> <td>D57</td> <td>23</td> <td>res</td> <td></td>	10133	14	D57	23	res	
Connector Terminal 3 Continuity 4 M33 14 No s the inspection result normal? No YES > GO TO 3. NO > Repair or replace harness. 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal Door mirror remote control switch Connector Terminal Door mirror remote control switch Connector Terminal Brown Yes s the inspection result normal? YES > GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to GL=53. "Intermittent Incident". NO >> Repaire door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GL=53. "Intermittent Incident". S the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-9141. "Removal and Installation". <td>Connector Terminal Ground Continuity M33 14 No s the inspection result normal? YES > S of TO 3. YES >> Repair or replace harness. S. 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 0 Door mirror remote control switch Continuity 0 Door mirror remote control switch Continuity 0 Door mirror remote control switch Continuity 2 S the inspection result normal? Yes 3 the inspection result normal? Yes YES >> GO TO 4. Yes A. CHECK CHANGEOVER SWITCH Component Inspection". S the inspection result normal? YES YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". S * Replace automatic drive positioner control unit. Refer to ADP-141. "Remo</td> <td>4. Check contir</td> <td>uity betwee</td> <td>n automatic d</td> <td>Irive positione</td> <td>r control unit</td> <td>connector and ground.</td>	Connector Terminal Ground Continuity M33 14 No s the inspection result normal? YES > S of TO 3. YES >> Repair or replace harness. S. 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 0 Door mirror remote control switch Continuity 0 Door mirror remote control switch Continuity 0 Door mirror remote control switch Continuity 2 S the inspection result normal? Yes 3 the inspection result normal? Yes YES >> GO TO 4. Yes A. CHECK CHANGEOVER SWITCH Component Inspection". S the inspection result normal? YES YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". S * Replace automatic drive positioner control unit. Refer to ADP-141. "Remo	4. Check contir	uity betwee	n automatic d	Irive positione	r control unit	connector and ground.
Connector Terminal Ground M33 14 No sthe 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 0 7 Ves sthe inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". St he inspection result normal? YES YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". St he inspection result normal? YES YES >> Refer to GI-53. "Intermittent Incident". S. CHECK INTERMITTENT INCIDENT Sthe inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent Incide	Connector Terminal Ground M33 2 14 No s the inspection result normal? YES > GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal 0 Dof 0 Dof 0 Dof 0 Dof 0 Dof 0 Terminal 0 Ground Check control switch Continuity 2 Sthe inspection result normal? YES > GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". s the inspection result normal? YES YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". D. CHECK INTERMITTENT INCIDENT Check KINTERMITTENT INCIDENT Check	Automatic dri	ve positioner c	ontrol unit		Continuity	-
M33 2 No is the inspection result normal? YES > S O 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 Door mirror remote control switch Connector Terminal Door Terminal Door 7 VES > GO TO 4. NO > Repair or replace harness. 4. CHECK CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check Intermittent Incident". Sten inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent Incident". Sten inspection result normal? YES >> Replace automatic drive positioner control unit. Refer	M33 2 No is the inspection result normal? YES >> SO TO 3. YES >> Repair or replace harness. 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal Ground Continuity Dos 7 VES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93. "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check INTERMITTENT INCIDENT Check INTERMITTENT INCIDENT Check Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent Incident". Is the inspection result normal? YES >> Repl	Connec	tor	Terminal	Ground	Continuity	
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 Connector Terminal 056 7 VES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace dor mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent Incident". State inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and	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 Connector Terminal D56 7 Yes Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GL-53, "Intermittent Incident". NO >> Replar or replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GL-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO	M33		2	Giounu	No	-
YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal 056 7 Yes Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93. "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation".	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 Door mirror remote control switch Ground Continuity Connector Terminal Ground Yes Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93. "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repaice automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". <tr< td=""><td>1000</td><td></td><td>14</td><td></td><td>NO</td><td></td></tr<>	1000		14		NO	
NO >> Repair or replace harness. 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal Door Terminal St the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Repaire or remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repaice automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repaice automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repaic or replace the malfunctioning parts.	NO >> Repair or replace harness. 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal Ground Continuity Door mirror remote control switch Continuity Door mirror remote control switch Continuity Door mirror remote control switch Continuity State inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. NO >> Repair or replace the malfunctioning parts. <td>Is the inspection</td> <td>result norma</td> <td>al?</td> <td></td> <td></td> <td>-</td>	Is the inspection	result norma	al?			-
3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Connector Terminal Ground Continuity D56 7 Yes Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". So >> Repaice automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repaic or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection Maconenenergenenergenergenergenergenergener	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 0 Connector 0 Terminal 0 056 7 Yes Is the inspection result normal? YES > GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to <u>ADP-93</u> . "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to <u>GI-53</u> . "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53</u>. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation".</u> NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection More oversetter A. CHANGEOVER SWITCH : Component Inspection More oversetter </u>						
Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Ground Continuity D56 7 YES > GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection Noraconnecestresser	Check continuity between door mirror remote control switch connector and ground. Door mirror remote control switch Continuity Connector Terminal Continuity Door mirror remote control switch Continuity Door mirror remote control switch Continuity Door mirror remote control switch Sector result normal2 YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". S. CHECK INTERMITTENT INCIDENT Check intermittent Incident". Seplace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection Werea concomment or replace the malfunctioning parts. CHANGEOVER SWI	· ·					
Door mirror remote control switch Ground Continuity 056 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". So Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection Monocommon Properties Monocommon Properties Monocommon Properties Yes Yes Yes Yes Yes <	Door mirror remote control switch Ground Continuity D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93. "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". So check intermittent incident. Refer to GI-53. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection Monocomment Inspection NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection Monocomment Inspection NO >> Repair or replace the mal	J. CHECK DOC	R	REMOTE CO	ONTROL SWI	TCH GROUN	
Connector Terminal Ground Continuity D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to <u>ADP-93. "CHANGEOVER SWITCH : Component Inspection".</u> Is the inspection result normal? YES >> Refer to <u>GI-53. "Intermittent Incident".</u> NO >> Replace door mirror remote control switch. Refer to <u>MIR-34. "Removal and Installation".</u> 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53. "Intermittent Incident".</u> Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> So >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> NO >> Replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection MOD-2000000000000000000000000000000000000	Connector Terminal Ground Continuity D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Component Inspection". Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES YES >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". So >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection MFOLLOWORGENERSUTCH	Check continuity	between do	or mirror rem	ote control sw	vitch connecto	or and ground.
Connector Terminal Ground Continuity D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to <u>ADP-93. "CHANGEOVER SWITCH : Component Inspection".</u> Is the inspection result normal? YES >> Refer to <u>GI-53. "Intermittent Incident".</u> NO >> Replace door mirror remote control switch. Refer to <u>MIR-34. "Removal and Installation".</u> 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53. "Intermittent Incident".</u> Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53. "Intermittent Incident".</u> Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation".</u> NO >> Replace SWITCH : Component Inspection <td>Connector Terminal Ground Continuity D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection MFOLLOWORDERSUFFUE 1. CHECK CHANGEOVER SWITCH Component Inspection</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Connector Terminal Ground Continuity D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection MFOLLOWORDERSUFFUE 1. CHECK CHANGEOVER SWITCH Component Inspection						
Connector Terminal Ground D56 7 Yes Is the inspection result normal? Yes YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93. "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53. "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection UNFOL: 2000000000000000000000000000000000000	Connector Terminal Ground D56 7 Yes Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. . 4. CHECK CHANGEOVER SWITCH . . Check changeover switch. . . Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". . Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". . 5. CHECK INTERMITTENT INCIDENT . . Check intermittent incident. . . Refer to GI-53, "Intermittent Incident". . . Is the inspection result normal? . . YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". . NO >> Repair or replace the malfunctioning parts. . CHANGEOVER SWITCH : Component Inspection . . MOID_DOUCCONSTRUCT . . . NO >> Repair or replace the malfunctioning parts. . . <t< td=""><td></td><td></td><td>l switch</td><td></td><td>Continuity</td><td></td></t<>			l switch		Continuity	
State inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection NFOLD.00000000145297 1. CHECK CHANGEOVER SWITCH Setter Switch	Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to <u>ADP-93</u> , "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to <u>GI-53</u> , "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to <u>MIR-34</u> , "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53</u> , "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . S >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection INFORMORDOWER 14529 1. CHECK CHANGEOVER SWITCH Setter Switch	Connec	tor	Terminal	Ground		
YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". So >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection CHANGEOVER SWITCH : Component Inspection MODED 1. CHECK CHANGEOVER SWITCH	YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection NFOL2000000000000000000000000000000000000	D56		7		Yes	
NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection NFOLD000000000000000000000000000000000000	NO >> Repair or replace harness. 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection NPOID:000000000000000000000000000000000000			<u>al?</u>			
4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection NFORD.000000000000000000000000000000000000	 4. CHECK CHANGEOVER SWITCH Check changeover switch. Refer to <u>ADP-93, "CHANGEOVER SWITCH : Component Inspection"</u>. Is the inspection result normal? YES >> Refer to <u>GI-53, "Intermittent Incident"</u>. NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation"</u>. 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u>. Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u>. NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 						
Check changeover switch. Refer to <u>ADP-93, "CHANGEOVER SWITCH : Component Inspection"</u> . Is the inspection result normal? YES >> Refer to <u>GI-53, "Intermittent Incident"</u> . NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation"</u> . 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u> . Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH	Check changeover switch. Refer to <u>ADP-93, "CHANGEOVER SWITCH : Component Inspection"</u> . Is the inspection result normal? YES >> Refer to <u>GI-53, "Intermittent Incident"</u> . NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation"</u> . 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u> . Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH						_
Check changeover switch. Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection I. CHECK CHANGEOVER SWITCH	Refer to ADP-93, "CHANGEOVER SWITCH : Component Inspection". Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection I. CHECK CHANGEOVER SWITCH	4. CHECK CHA	NGEOVER	SWITCH			
Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection I. CHECK CHANGEOVER SWITCH	Is the inspection result normal? YES >> Refer to GI-53, "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection INFORMED/LINER/L						
YES >> Refer to GI-53. "Intermittent Incident". NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation"</u> . 5 . CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u> . Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH	YES >> Refer to <u>GI-53</u> , <u>"Intermittent Incident"</u> . NO >> Replace door mirror remote control switch. Refer to <u>MIR-34</u> , <u>"Removal and Installation"</u> . 5 . CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53</u> , <u>"Intermittent Incident"</u> . Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141</u> , <u>"Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1 . CHECK CHANGEOVER SWITCH				CH : Compone	ent inspection	<u>"</u> .
NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH	NO >> Replace door mirror remote control switch. Refer to MIR-34, "Removal and Installation". 5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-53, "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO >> Replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH				oidont"		
5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53</u> , "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141</u> , "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH	5. CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to <u>GI-53</u> , "Intermittent Incident". Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141</u> , "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH					Refer to MIR	-34. "Removal and Installation".
Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u> . <u>Is the inspection result normal?</u> YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH	Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u> . <u>Is the inspection result normal?</u> YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH						
Refer to <u>GI-53, "Intermittent Incident"</u> . <u>Is the inspection result normal?</u> YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH	Refer to <u>GI-53, "Intermittent Incident"</u> . <u>Is the inspection result normal?</u> YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH						
Is the inspection result normal? YES >> Replace automatic drive positioner control unit. Refer to ADP-141. "Removal and Installation". NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection INFOID:0000008145291 1. CHECK CHANGEOVER SWITCH	<u>Is the inspection result normal?</u> YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection 1. CHECK CHANGEOVER SWITCH			Incident".			
YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141. "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection INFOID:00000008145291 1. CHECK CHANGEOVER SWITCH	YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection	-					
NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection INFOID:00000008145291 1. CHECK CHANGEOVER SWITCH INFOID:00000008145291	NO >> Repair or replace the malfunctioning parts. CHANGEOVER SWITCH : Component Inspection INFOLD:0000000814529 1. CHECK CHANGEOVER SWITCH	· · · · ·			ioner control ι	unit. Refer to	ADP-141, "Removal and Installation".
1. CHECK CHANGEOVER SWITCH	1. CHECK CHANGEOVER SWITCH						
1. CHECK CHANGEOVER SWITCH	1. CHECK CHANGEOVER SWITCH	CHANGEOVI	ER SWIT	CH : Comr	ponent Inst	pection	INFQID:00000008145291
Check door mirror remote control switch.	Check door mirror remote control switch.	1. CHECK CHA	NGEOVER	SWITCH			
		Check door mirro	or remote co	ntrol switch.			

Termir Door mirror remote		Change over switch condition	Continuity
23		LEFT	Yes
23	7	Other than above	No
28		RIGHT	Yes
20		Other than above	No



< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation"</u>. MIRROR SWITCH

MIRROR SWITCH : Description

It operates angle of the door mirror face.

It transmits mirror face adjust operation to automatic drive positioner control unit.

MIRROR SWITCH : Component Function Check

1. CHECK FUNCTION

- 1. Select "MIR CON SW-UP/DN", "MIR CON SW-RH/LH " in "DATA MONITOR" mode with CONSULT.
- 2. Check mirror switch signal under the following conditions.

Monitor item	Con	dition	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 <u>ADP-94, "MIRROR SWITCH : Diagnosis Procedure"</u>.

MIRROR SWITCH : Diagnosis Procedure

INFOID:000000008145294

Regarding Wiring Diagram information, refer to ADP-36, "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 pos trol unit		(-)	Mirror switch Condition	Voltage (V) (Approx.)
Connector	Terminal			
	3		UP	0
	5		Other than above	5
	4		LEFT	0
M33	4	Ground	Other than above	5
10135	15	Ground	DOWN	0
	15		Other than above	5
	16		RIGHT	0
	10		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.

INFOID:000000008145292

< DTC/CIRCUIT DIAGNOSIS >

- 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 А switch connector.

rc

Automati	c drive positione	er control unit		Continuity		
Con	nector	Terminal		Continuity		
		3	Ground			F
Λ.	133	4	Ground	No		
IV	155	15		NO		G
		16				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

Door mirror remote cont	trol switch		Continuity		AD
Connector	Terminal	Ground	Continuity		
D57	7		Yes		
Is the inspection result no	ormal?				K
YES >> GO TO 4.					
NO >> Repair or rep					1
4. CHECK MIRROR SW	VITCH				
Check mirror switch.		_			
Refer to <u>ADP-95, "MIRR</u>		Component	Inspection".		M
Is the inspection result no					
YES >> Refer to GI-5					
_			itch. Refer to MIR	-34, "Removal and Installation".	Ν
5. CHECK INTERMITTE	ENT INCIDEN	Т			
Check intermittent incide					\cap
Refer to GI-53, "Intermitte	<u>ent Incident"</u> .				0
Is the inspection result no	<u>ormal?</u>				
YES >> Replace auto NO >> Repair or rep				ADP-141, "Removal and Installation".	Ρ
MIRROR SWITCH	: Compone	nt Inspec	tion	INFOID:00000008145295	
1. CHECK MIRROR SW	VITCH				
Check door mirror remote	e control switc	h			

Check door mirror remote control switch.

Н

< DTC/CIRCUIT DIAGNOSIS >

Termir	nal		
Door mirror remote control switch		Mirror switch condition	Continuity
27		RIGHT	Yes
27	7	Other than above	No
24		LEFT	Yes
24		Other than above	No
26		UP	Yes
20		Other than above	No
25		DOWN	Yes
25		Other than above	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror remote control switch. Refer to <u>MIR-34, "Removal and Installation"</u>.

POWER SEAT SWITCH GROUND CIRCUIT < DTC/CIRCUIT DIAGNOSIS > POWER SEAT SWITCH GROUND CIRCUIT А **Diagnosis** Procedure INFOID:000000008145296 В Regarding Wiring Diagram information, refer to ADP-36, "Wiring Diagram". С 1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT 1. Turn ignition switch OFF. 2. Disconnect power seat switch LH. D Check continuity between power seat switch LH connector and ground. 3. Power seat switch LH Е Continuity Connector Terminal Ground B208 3 Yes F Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident". NO >> Repair or replace harness. G Н

ADP

Κ

L

Μ

Ν

0

Р

TILT & TELESCOPIC SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000008145297

Regarding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".

$1. \ \mathsf{CHECK} \ \mathsf{ADP} \ \mathsf{STEERING} \ \mathsf{SWITCH} \ (\mathsf{TILT} \ \& \ \mathsf{TELESCOPIC} \ \mathsf{SWITCH}) \ \mathsf{GROUND} \ \mathsf{CIRCUIT}$

- 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 (ti	It & telescopic switch)		Continuity	
Connector	Terminal	Ground	Continuity	
M16	1		Yes	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-53, "Intermittent Incident"</u>.

NO >> Repair or replace harness.

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS > SLIDING SENSOR

SLIDIN	NG 31		R					А
Descrip	otion						INFOID:000000008145298	
 The pul 	lse sign	al is inp	ut to the		frame. t control unit when sliding i lse and calculates the slidi			В
Compo	nent	Functi	on Ch	neck			INFOID:000000008145299	С
1 . CHEC	CK FUN	ICTION						
					ITOR" mode with CONSUL er the following conditions			D
	Monitor it	em			Condition	Value		Е
					Operate (forward)	Change (decreas	se)	
SLIDE	PULSE		Seat sli	ding	Operate (backward)	Change (increas	e)	_
					Release	No change		F
Is the ins	pection	result n	ormal?					
		ection E				ie Dreesdure"		G
				procedure.	Refer to <u>ADP-99, "Diagnos</u>	<u>sis Procedure"</u> .		
Diagno	sis Pr	rocedu	Ire				INFOID:000000008145300	
								Н
Regardin	a Wirin	n Diaora	im infor	mation refe	er to ADP-36, "Wiring Diag	ram"		
rtegaran	9 77111	g Diagra			or to <u>Abrilloo, Winng Didg</u>	ium.		I
1								
1. CHEC	CK SLIL	DING SE	NSOR	SIGNAL				
		switch			- 4 4			AD
2. Read	a voltag	e signai	betwee	n ariver se	at control unit harness con	nector and ground with o	scilloscope.	
(+)							Κ
Driver's s	eat con-							
trol u	unit	(-)	Cor	ondition Voltage signal				
Connec-	Termi-							L
tor	nal							
				Operate	10mSec/div			Μ
B209	31	Ground	Seat sliding	Operate	2V/div JMJIA011922			Ν
				Other				0
				than above	0 or 5			
Is the ins	pection	result n	ormal?					Ρ
				control uni	t. Refer to <u>ADP-140, "Rem</u>	oval and Installation".		
	>> GO				<u></u>			
2. снес		DING SE	NSOR	CIRCUIT				
		switch						

Turn ignition switch OFF.
 Disconnect driver seat control unit and sliding motor LH.

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between driver seat control unit harness connector and sliding motor LH harness connector.

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

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

Driver seat	t control unit		Continuity	
Connector	Terminal	Ground	Continuity	
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 r	notor LH	(-)		
Connector	Terminals			
B211	3	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.
- Check continuity between driver seat control unit harness connector and sliding motor LH harness connector.

Driver seat	control unit	Sliding	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B209	5	B211	3	Yes

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

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B209	5		No	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "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 SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Sliding n	notor LH		0	_	
Connector	Connector Terminal Ground Continuity				
B211	1		Yes	_	
Is the inspection res					
YES >> Replac NO >> Repair	e sliding motor LH. or replace harness	Refer to <u>SE-</u>	79, "Removal an	<u>d Installation"</u> .	

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SENSOR

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-102, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000008145303

Regarding Wiring Diagram information, refer to ADP-36, "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		(-)	Cor	dition	Voltage signal
Connec- tor	Termi- nal				
B209	13	Ground	Seat reclin- ing	Operate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-140, "Removal and Installation"</u>.
- NO >> GO TO 2.
- 2. CHECK RECLINING SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and reclining motor LH.

ADP-102

INFOID:000000008145301

RECLINING SENSOR

	-1111				
Driver seat con Connector	ntrol unit	Connector	g motor LH Terminal	Continuity	
B209	13	B217	1	Yes	
					ector and ground.
Driver sea	at control unit			Continuity	
Connector	Term	inal	Ground		
B209	13	3		No	
CHECK REC Connect driv Turn ignition	air or replace LINING SEI er seat cont switch ON.	NSOR POWE			
				ss connector a	na grouna. -
	g motor LH		()	Voltage (V)	
Connector	Termina		. /	(Approx.)	
B217	3		ound E	Battery voltage	-
the inspection					-
YES >> GO 1	TO 4.		R SUPPLY		
. CHECK REC				CIRCUIT	
• CHECK REC Turn ignition Disconnect d	switch OFF.	ontrol unit.			ector and reclining motor LH harness con-
CHECK REC Turn ignition Disconnect of Check contin nector.	switch OFF. Iriver seat co uity betwee	ontrol unit. n driver seat	control unit		ector and reclining motor LH harness con
CHECK REC Turn ignition Disconnect of Check contin nector. Driver seat con	switch OFF. Iriver seat co uity betwee	ontrol unit. n driver seat			ector and reclining motor LH harness con-
• CHECK REC Turn ignition Disconnect of Check contin nector.	switch OFF. Iriver seat co Juity betwee	ontrol unit. n driver seat Reclining	control unit	harness conn	ector and reclining motor LH harness con-
CHECK REC Turn ignition Disconnect of Check contin nector. Driver seat con Connector B209	switch OFF. Iriver seat co uity betwee htrol unit Terminal 5	n driver seat Reclining Connector B217	control unit motor LH Terminal 3	harness conne Continuity Yes	ector and reclining motor LH harness con-
CHECK REC Turn ignition Disconnect of Check contin nector. Driver seat cor Connector B209 Check contin	switch OFF river seat co uity betwee ntrol unit Terminal 5	n driver seat Reclining Connector B217	control unit motor LH Terminal 3	harness conne Continuity Yes harness conne	
CHECK REC Turn ignition Disconnect of Check contin nector. Driver seat cor Connector B209 Check contin	switch OFF lriver seat co uity betwee htrol unit Terminal 5 uity betwee	n driver seat Reclining Connector B217 n driver seat	control unit motor LH Terminal 3 control unit	harness conne Continuity Yes	
CHECK REC Turn ignition Disconnect of Check contin nector. Driver seat cor Connector B209 Check contin Driver seat	switch OFF. Iriver seat co nuity betwee htrol unit Terminal 5 nuity betwee control unit	n driver seat Reclining Connector B217 n driver seat	control unit motor LH Terminal 3 control unit	harness conne Continuity Yes harness conne	
CHECK REC Turn ignition Disconnect of Check contin nector. Driver seat con Connector B209 Check contin Driver seat Connector	switch OFF. Iriver seat control unit Terminal 5 Inuity betwee control unit Termina 5	Reclining Connector B217 n driver seat	control unit motor LH Terminal 3 control unit	harness conne Continuity Yes harness conne Continuity	

Check continuity between reclining motor LH harness connector and ground.

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Reclining I	motor LH		Continuity
Connector	Terminal	Ground	Continuity
B217	2	-	Yes

Is the inspection result normal?

YES >> Replace reclining motor LH. Refer to <u>SE-79. "Removal and Installation"</u>.

NO >> Repair or replace harness.

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (FRONT)
------------------	--------

А Description INFOID:00000008145305 The lifting sensor (front) is installed to the seat frame. В • The pulse signal is input to the driver seat control unit when the lifting (front) is operated. The driver seat control unit counts the pulse and calculates the lifting (front) amount of the seat. **Component Function Check** INFOID:000000008145306 1.CHECK FUNCTION Select "LIFT FR PULSE" in "DATA MONITOR" mode with CONSULT. D 1. Check the lifting sensor (front) signal under the following conditions. 2. Monitor item Condition Value E Operate (up) Change (decrease) LIFT FR PULSE Seat lifting (front) Operate (down) Change (increase) F Release No change Is the inspection result normal? YES >> Inspection End. G NO >> Perform diagnosis procedure. Refer to ADP-105, "Diagnosis Procedure". **Diagnosis** Procedure INFOID:000000008145307 Н

Regarding Wiring Diagram information, refer to ADP-36, "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.

(+)					
Driver seat of	control unit	(-)	Conc	dition	Voltage signal	
Connector	Terminal					
B209	30	Ground	Seat lifting (front)	Operate	10mSec/div	
				Other than above	0 or 5	

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.

ADP-105

ADP

K

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

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

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

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B209	30		No
		+	4

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$\mathbf{3}$. 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.

(+))		
Lifting motor	LH (front)	(—)	Voltage (V) (Approx.)
Connector	Terminals		(
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	Driver seat control unit		Lifting motor LH (front)		
Connector	Terminal	Connector Terminal		Continuity	
B209	5	B218	3	Yes	

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

Driver seat of	control unit		Continuity
Connector	Terminal	Ground	Continuity
B209	5		No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "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 mote	or LH (front)		Continuity
Connector	Terminal	Ground	Continuity
B218	2		Yes

LIFTING SENSOR (FRONT)	
< DTC/CIRCUIT DIAGNOSIS >	
Is the inspection result normal?	
 YES >> Replace lifting motor LH (front). Refer to <u>SE-79, "Removal and Installation"</u>. NO >> Repair or replace harness. 	A
	В
	С
	D
	E
	F
	G
	Н
	Ι
	ADP
	K
	L
	Μ

Ν

0

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description

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

Component Function Check

1. CHECK FUNCTION

- 1. Select "LIFT RR PULSE" in " mode with CONSULT.
- 2. Check lifting sensor (rear) signal under the following conditions.

Monitor item	Conditior	l	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 <u>ADP-108. "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000008145318

Regarding Wiring Diagram information, refer to ADP-36, "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		(–) Coi		ndition	Voltage signal
Connec- tor	Termi- nal				
B209	29	Ground	Seat lifting (rear)	Oper- ate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-140, "Removal and Installation"</u>. 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).

ADP-108

INFOID:000000008145316

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

3. Check the continuity between driver seat control unit harness connector and lifting motor LH (rear) harness connector.

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

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

-	Driver se	at control unit		Continuity	
	Connector	Terminal	Ground	Continuity	
_	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.

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 mote	Lifting motor LH (rear)	
_	Connector	Terminal	Connector	Terminal	Continuity
_	B209	5	B207	3	Yes

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

Driver seat control unitContinuityConnectorTerminalB2095No

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "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.

А

В

D

E

F

ADP

Κ

Μ

Ρ

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace lifting motor LH (rear). Refer to <u>SE-79, "Removal and Installation"</u>.

NO >> Repair or replace harness.

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TILT SENSOR

Description

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

Component Function Check

1.CHECK FUNCTION

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

Monitor item	Cor	Value	Е			
		Operate (UP-WARD)	Change (decrease)			
TILT PULSE	Steering column	Operate (DOWN-WARD)	Change (increase)			
		Release	No change	F		
Is the inspection result normal?						
YES >> Inspection End. NO >> Perform diagnosis procedure. Refer to <u>ADP-111, "Diagnosis Procedure"</u> .						
Diagnosis Procedure						

INFOID:000000008145324

Н

ADP

А

В

D

INFOID:000000008145322

INFOID:000000008145323

Regarding Wiring Diagram information, refer to ADP-36, "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.

(+) Driver seat con- trol unit		(-)	Condition	dition	Voltage (V) (Approx.)
Con- nector	Termi- nals				
B209	28	Ground	Steer- ing col- umn	Oper- ate	10mSec/div
				Other than above	0 or 5
s the in	spectio	n result	normal?	<u>)</u>	

YES >> Replace driver seat control unit. Refer to ADP-140, "Removal and Installation".

>> GO TO 2. NO

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.

ADP-111

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

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

Driver seat c	ontrol unit		Continuity	
Connector	Terminal	Ground	Continuity	
B209	28		No	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$\mathbf{3}$. 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 m	otor	(-)		
Connector	Terminals		V FF - 7	
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 trol	•	Tilt m	Continuity	
Connector	Terminal	Connector	Terminal	
M34	27	M85	5	Yes

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

Connector Terminal Ground Continuity	v
	у
M34 27 No	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "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.

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive trol u	positioner con- unit	Tilt m	otor	Continuity
Connector	Terminal	Connector	Terminal	
M33	20	M85	3	Yes
Is the inspection YES >> Re NO >> Re		otor. Refer to <u>S</u>	Γ-47, "Explod	<u>ed View"</u> .

M

Ν

0

Ρ

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SENSOR

Description

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

Component Function Check

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-114</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000008145327

Regarding Wiring Diagram information, refer to ADP-36, "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 con- trol unit		()	Con	dition	Voltage (V) (Approx.)
Con- nector	Termi- nals				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B209	12	Ground	Steer- ing col- umn	Oper- ate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-140, "Removal and Installation"</u>.
- NO >> GO TO 2.
- 2. CHECK TELESCOPIC SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and telescopic motor.

INFOID:000000008145325

INFOID:000000008145326

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Driver seat co	Driver seat control unit		Orația ite
Connector			Continuity
B209			No
Is the inspection re YES >> GO TO	O 3.		
NO >> Repair	r or replace ha	rness.	
3. CHECK TELES	SCOPIC SENS		

1. Connect driver seat control unit.

- 2. Turn ignition switch ON.
- 3. Check voltage between telescopic motor harness connector and ground.

(+	·)			
Telescop	ic motor	(—)	Voltage (V) (Approx.)	
Connector Terminals			(
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 p ur		Telescop	Continuity	
Connector	Connector Terminal		Terminal	
M34	27	M94	5	Yes

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

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

Is the inspection result normal?

YES	>> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u> .	F
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.

ADP-115

А

D

E

F

G

Н

ADP

Κ

Μ

Ν

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

	positioner con- unit	Telescop	Continuity	
Connector	Connector Terminal		Terminal	
M33	20	M94	3	Yes

Is the inspection result normal?

YES >> Replace telescopic motor. Refer to <u>ST-47, "Exploded View"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

DRIVER S	SENSOR	K				
-	SIDE : Desc	cription				INFOID:00000008145332
The mirror The resista Automatic o	sensor LH is in nce of 2 senso	nstalled to th ors (horizont r control unit	e door mirror LH. al and vertical) is c calculates the doo			or LH is operated. to the change of the volt-
DRIVER S	SIDE : Com	ponent F	unction Check	ĸ		INFOID:00000008145333
1. CHECK F	UNCTION					
			EN LH R-L" in "DA ignal under the foll			ONSULT.
	Monitor item		С	ondition		Value
				Close to pe	ak	3.4V
MIR/SEN LI	H U-D	Deet	mirror I H	Close to va	lley	0.6V
MIR/SEN LI		Door	mirror LH	Close to rig	ht edge	3.4V
				Close to lef	t edge	0.6V
	-		refer to <u>ADP-36, "</u>	<u>Wiring Diagr</u>	<u>am"</u> .	INFOID:000000008145334
Regarding W	iring Diagram	information, PR LH SENS ACC.	refer to <u>ADP-36, "</u>			INFOID:000000008145334
Regarding W . CHECK [. Turn igni . Check vo	7 iring Diagram DOOR MIRRO tion switch to bltage betweer	information, PR LH SENS ACC.	refer to <u>ADP-36, "</u> OR SIGNAL			INFOID:000000008145334
egarding W • CHECK I	iring Diagram	information, PR LH SENS ACC.	refer to <u>ADP-36, "</u> OR SIGNAL			INFOID:000000008145334
egarding W CHECK E Turn igni Check vo (+) Door min	Firing Diagram	information, PR LH SENS ACC. n door mirror	refer to <u>ADP-36, "</u> OR SIGNAL ⁻ LH harness conne	ector and gro		INFOID:000000008145334
egarding W CHECK [Turn igni Check vo (+) Door min Connector	Tiring Diagram	information, PR LH SENS ACC. n door mirror ()	refer to <u>ADP-36, "</u> OR SIGNAL LH harness conne Condition	ector and gro Voltage (V) (Approx.)		INFOID:00000008145334
egarding W CHECK E Turn igni Check vo (+) Door min	Tiring Diagram	information, PR LH SENS ACC. n door mirror	refer to <u>ADP-36,</u> " OR SIGNAL • LH harness conne Condition Close to peak	Voltage (V) (Approx.) 3.4		INFOID:00000008145334
egarding W CHECK [Turn igni Check vo (+) Door min Connector	Tiring Diagram	information, PR LH SENS ACC. n door mirror ()	refer to <u>ADP-36</u> , " OR SIGNAL LH harness conne Condition Close to peak Close to valley	Voltage (V) (Approx.) 3.4 0.6		INFOID:0000000B145334
Regarding W 1 . CHECK I I. Turn igni 2. Check vo (+) Door min Connector D6 <u>s the inspect</u> YES >> 0 NO >> 0	Tiring Diagram	information, OR LH SENS ACC. n door mirror (-) Ound Door mirror LH	refer to <u>ADP-36</u> , " OR SIGNAL LH harness conne Condition Close to peak Close to peak Close to valley Close to right edge Close to left edge	Voltage (V) (Approx.) 3.4 0.6 3.4		INFOID:00000008145334
Regarding W 1. CHECK I 1. Turn igni 2. Check vo (+) Door min Connector D6 <u>s the inspect</u> YES >> 0 NO >> 0 2. CHECK I	Tiring Diagram	information, PR LH SENS ACC. n door mirror (-) Ound Door mirror LH mal? PR LH SENS	refer to <u>ADP-36</u> , " OR SIGNAL • LH harness conne Condition Close to peak Close to valley Close to right edge	Voltage (V) (Approx.) 3.4 0.6 3.4		INFOID:0000000B145334

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po trol uni		Door mirro	Continuity	
Connector	Terminal	Connector	Connector Terminal	
M33	6	D6	21	Yes
10100	18	Do	22	165

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M33	6	Giounu	No
	18	-	NO
		*	

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 po trol unit		Door mirroi	LH	Continuity
Connector	Terminal	Connector	Terminal	
M33	20	D6	24	Yes
10100	21	00	23	165

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

Automatic drive positione	r control unit		Continuity
Connector	Terminal	Ground	Continuity
M33	20	Giouna	No
1000	21		INU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK TILT MOTOR ADJUSTING OPERATION

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

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

Is the operation normal?

- YES >> Replace door mirror actuator. (Built in door mirror LH). Refer to <u>MIR-29. "Removal and Installa-</u> tion".
- NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-53. "Intermittent Incident".

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u>.
- NO >> Repair or replace the malfunctioning part.

PASSENGER SIDE

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Description

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

PASSENGER SIDE : Component Function Check

1. CHECK FUNCTION

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

Monitor item		Condition		
MIR/SEN RH U-D		Close to peak	3.4V	E
	December 201	Close to valley	0.6V	
MIR/SEN RH R-L	Door mirror RH	Close to right edge	3.4V	_
		Close to left edge	0.6V	

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Perform diagnosis procedure. Refer to <u>ADP-119, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

Regarding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

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

(+))				
Door mir	Door mirror RH		Condition		Voltage (V) (Approx.)
Connector	Terminal				\ FF - 7
				Close to peak	3.4
D116		Ground Do	ound Door mirror RH	Close to valley	0.6
				Close to right edge	3.4
	22			Close to left edge	0.6
Is the inspe	ection res	ult norma	al?		

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 p harness connector.

INFOID:00000008145335

INFOID:00000008145336

INFOID:000000008145337

А

D

G

Н

ADP

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive posit unit	ioner control	Door mirro	or RH	Continuity
Connector	Terminal	Connector	Terminal	
M33	5 D116		21	Yes
10133	17	DIIO	22	165

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

Automatic drive position	ner control unit		Continuity
Connector	Terminal	Ground	Continuity
M33	5	Giodila	No
Wi35	17	-	INU

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 positi unit	oner control	Door mirro	or RH	Continuity
Connector	Terminal	Connector	Terminal	
M33	20	D116	24	Yes
10100	21	סוום	23	165

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

Automatic drive positioner	r control unit		Continuity
Connector	Terminal	Ground	Continuity
M33	20	Ground	No
14122	21		INU

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. (Buil	t in door mirror RH)	. Refer to MIR-29	. "Removal and	Installa-
	tion".				

NO >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-53. "Intermittent Incident".

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u>.
- NO >> Repair or replace the malfunctioning part.

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS > SLIDING MOTOR

scription mediation and the driver seat control unit. The set is slid forward/backward by changing the rotation direction of sliding motor LH. mponent Function Check metalow with the driver seat control unit. The seat is slid forward/backward by changing the rotation direction of sliding motor LH. mponent Function Check metalow with CONSULT. CHECK FUNCTION Select "SEAT SLIDE" in "ACTIVE TEST" mode with CONSULT. Check the sliding motor LH operation. Test Item Description SEAT SLIDE OFF Seat sliding Forward RR Seat sliding Forward Backward Description End. D >> Perform diagnosis procedure. Refer to <u>ADP-121, "Diagnosis Procedure"</u> . Agnosis Procedure Metalon, refer to <u>ADP-36, "Wiring Diagram"</u> . CHECK SLIDING MOTOR LH POWER SUPPLY
he sliding motor LH is activated with the driver seat control unit. he seat is slid forward/backward by changing the rotation direction of sliding motor LH. mponent Function Check CHECK FUNCTION Select "SEAT SLIDE" in "ACTIVE TEST" mode with CONSULT. Check the sliding motor LH operation. Test Item Description SEAT SLIDE OFF Seat sliding Forward Backward he operation of relevant parts normal? SS >> Inspection End. D >> Perform diagnosis procedure. Refer to ADP-121, "Diagnosis Procedure". Agnosis Procedure ADP-36, "Wiring Diagram".
CHECK FUNCTION Select "SEAT SLIDE" in "ACTIVE TEST" mode with CONSULT. Check the sliding motor LH operation. Test Item Description Test Item OFF SEAT SLIDE FR R OFF R Seat sliding Forward Backward Description for relevant parts normal? ES >> Inspection End. O >> Perform diagnosis procedure. Refer to ADP-121. "Diagnosis Procedure". Operation Wiring Diagram information, refer to ADP-36, "Wiring Diagram".
Select "SEAT SLIDE" in "ACTIVE TEST" mode with CONSULT. Check the sliding motor LH operation. Test Item Description Stop SEAT SLIDE FR Seat sliding FR Seat sliding Forward Backward Backward Description SEAT SLIDE FR Seat sliding Forward Backward Backward Backward Description Description Description SEAT SLIDE FR Seat sliding Forward Backward Description End. Description End. Description End. Description Cedure". O >> Perform diagnosis procedure. Refer to ADP-121. "Diagnosis Procedure". Description Colspan="2">Description End. D >> Perform diagnosis procedure Description Colspan="2">Description End. D >> Perform diagnosis procedure Description Colspan="2">Description Colspan="2">Descript
Check the sliding motor LH operation. Test Item Description Stop Stop Stop FR Stop FR Stop FR Stop FR Stop Re operation of relevant parts normal? RS >> Inspection End. D> >> Perform diagnosis procedure. Refer to ADP-121. "Diagnosis Procedure". INFOID:000000000145540 garding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".
SEAT SLIDE OFF Seat sliding Stop FR Seat sliding Forward RR Backward De operation of relevant parts normal? ES >> Inspection End. D >> Perform diagnosis procedure. Refer to ADP-121, "Diagnosis Procedure". agnosis Procedure INFOID:00000008145340 garding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".
SEAT SLIDE FR Seat sliding Forward RR RR Backward De operation of relevant parts normal? ES >> Inspection End. D >> Perform diagnosis procedure. Refer to ADP-121, "Diagnosis Procedure". agnosis Procedure INFOID:00000008145340 garding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".
RR Backward be operation of relevant parts normal? Backward ES >> Inspection End. D >> Perform diagnosis procedure. Refer to ADP-121, "Diagnosis Procedure". agnosis Procedure INFOLD.00000008145340 garding Wiring Diagram information, refer to ADP-36, "Wiring Diagram".
the operation of relevant parts normal? ES >> Inspection End. D >> Perform diagnosis procedure. Refer to <u>ADP-121</u> , " <u>Diagnosis Procedure</u> ". Agnosis Procedure means of the part of th
ES >> Inspection End. D >> Perform diagnosis procedure. Refer to <u>ADP-121, "Diagnosis Procedure"</u> . agnosis Procedure agnosis Procedure parding Wiring Diagram information, refer to <u>ADP-36, "Wiring Diagram"</u> .
D >> Perform diagnosis procedure. Refer to <u>ADP-121, "Diagnosis Procedure"</u> . agnosis Procedure INFOLD:00000008145340 garding Wiring Diagram information, refer to <u>ADP-36, "Wiring Diagram"</u> .
agnosis Procedure
garding Wiring Diagram information, refer to <u>ADP-36, "Wiring Diagram"</u> .
CHECK SLIDING MOTOR LH POWER SUPPLY
CHECK SLIDING MOTOR LH POWER SUPPLY
Turn the ignition switch to ACC.
Perform "ACTIVE TEST" ("SEAT SLIDE") with CONSULT. Check voltage between driver seat control unit harness connector and ground.
Check voltage between unver seat control unit hamess connector and ground.
(+)
ver seat control unit (-) Condition Voltage (V)
(Approx.)
onnector Terminal (Approx.)
Image: Second and Second an
Onnector Terminal 36 OFF 36 FR (forward) 0 Battery voltage
Image: Second and Second an
Onnector Terminal 36 OFF 0 B210 Ground SEAT Ground SEAT RR (backward)
Image: Second Second Terminal Terminal OFF 0 36 Arrow Second Secon
Image: solution of the soluti
Image: constrained basic Terminal Image: constrained basic (Approx.) Image: constrained basic Terminal Image: constrained basic Image: constrained basic B210 36 Image: constrained basic Image: constrained basic Image: constrained basic B210 36 Image: constrained basic Image: constrained basic Image: constrained basic B210 36 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: const Image: constrained basic Image: constra
Image: constrained and constr
Image: constrained basic Terminal Image: constrained basic (Approx.) Image: constrained basic Terminal Image: constrained basic Image: constrained basic B210 36 Image: constrained basic Image: constrained basic Image: constrained basic B210 36 Image: constrained basic Image: constrained basic Image: constrained basic B210 36 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: constrained basic Image: constrained basic Image: constrained basic B210 44 Image: const Image: constrained basic Image: constra
Onnector Terminal 36 B210 44 44 Ground SEAT
Donnector Terminal (Approx.) 36 36 FR (forward) 0 B210 36 FR (forward) 0 44 Ground SEAT SEAT SEAT SEAT SEAT FR (forward) FR (backward) Battery voltage OFF 0 FR (forward) Battery voltage RR (backward) 0 Pre inspection result normal? FR (forward) ES >> Replace sliding motor LH. Refer to SE-79. "Removal and Installation". O >> GO TO 2. CHECK SLIDING MOTOR LH CIRCUIT
ver seat control unit (-) Condition Voltage (V)
(Approx.)
onnector Terminal (Approx.)
onnector Terminal (Approx.)
onnector Terminal (Approx.)
Image: Second and Second an
Image: Second and Second an
Image: Second and Second an
Onnector Terminal 36 OFF 0 FR (forward)
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 36 FR (forward) 0 Battery voltage
Onnector Terminal 36 OFF 36 FR (forward) 0 Battery voltage
Onnector Terminal 36 OFF 36 FR (forward) 0 Battery voltage
Onnector Terminal 36 OFF 36 FR (forward) 0 Battery voltage
Onnector Terminal 36 OFF 36 FR (forward) 0 Battery voltage
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward) 0
Onnector Terminal 36 OFF 0 FR (forward)
Innector Terminal OFF 0
Inector Terminal OFF 0
Inector Terminal OFF 0
Innector Terminal OFF 0
onnector Terminal (Approx.)
innector Terminal (Approx.)
onnector Terminal (Approx.)
innector Terminal (Approx.)
nnector Terminal (Approx.)
(Approx.)
(Approx.)
(Approx.)
(Approx.)
(Approx.)
(Approx.)
(Approx.)
(Approx.)
Voltage (V)
Voltage (V)
(+)
(+)

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat co	ntrol unit	Sliding motor LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B210	36	B211	4	Yes
BZTU	44		5	165

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 $\mathbf{3}$. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS > RECLINING MOTOR

Descrip	tion						INFOID:00000008145341
The recl	ining mot	or LH is a	ctivated wi		eat control unit.	direction of reclining	g motor LH.
compor	nent Fu	Inction	Check				INFOID:000000008145342
. CHEC	K FUNCI	TION					
		-	G" in "ACT or LH opera		ode with CONSL	ILT.	
		Test Ite	em			Description	
			OFF			Stop	
SEAT R	ECLINING		FR	S	Seat reclining	Forward	
			RR			Backward	
the ope	ration of r	<u>elevant p</u>	arts norma	<u> ?</u>			
	> Inspect						
NO >	Perforr	n diagnos	is procedu	re. Refer to <u>Al</u>	<u> DP-123, "Diagno:</u>	sis Procedure".	
iagnos	sis Proc	cedure					INFOID:000000008145343
			, ,,				
Regarding	g Wiring D	liagram ir	formation,	refer to <u>ADP-3</u>	<u>36, "Wiring Diagr</u>	<u>am"</u> .	
. CHEC	K RECLI	NING MO	TOR LH P	OWER SUPPL	_Y		
				OWER SUPPL	_Y		
. Turn t	the ignitio	n switch t	o ACC.				
. Turn t . Perfo	the ignitio rm "ACTI	n switch t VE TEST'	o ACC. ' ("SEAT R	ECLINING") w		and ground.	
. Turn t . Perfo	the ignitio rm "ACTI	n switch t VE TEST'	o ACC. ' ("SEAT R	ECLINING") w	ith CONSULT.	and ground.	
. Turn t . Perfo	the ignitio rm "ACTI' k voltage	n switch t VE TEST'	o ACC. ' ("SEAT R	ECLINING") w	ith CONSULT.	and ground.	
. Turn t . Perfo . Checl (+	the ignitio rm "ACTI' k voltage	n switch t VE TEST' between	o ACC. ' ("SEAT R driver seat	ECLINING") w control unit ha	rith CONSULT. arness connector	and ground.	
. Turn t Perfo . Checl	the ignitio rm "ACTI' k voltage	n switch t VE TEST'	o ACC. ' ("SEAT R driver seat	ECLINING") w	ith CONSULT.	and ground.	
Turn f Perfo Checl († Driver sea ur Connec-	the ignitio rm "ACTI' k voltage	n switch t VE TEST' between	o ACC. ' ("SEAT R driver seat	ECLINING") w control unit ha	Voltage (V)	and ground.	
Turn t Perfo Check († Driver sea	the ignitio rm "ACTI' k voltage +) at control hit	n switch t VE TEST' between	o ACC. ' ("SEAT R driver seat	ECLINING") w control unit ha	voltage (V)	and ground.	
. Turn f Perfo . Checl († Driver sea ur Connec-	the ignitio rm "ACTIN k voltage +) at control hit Terminal	n switch t VE TEST' between	o ACC. ' ("SEAT R driver seat	ECLINING") w control unit ha ondition OFF	Voltage (V) (Approx.)	and ground.	
. Turn f . Perfo . Check (+ Driver sea ur Connec-	the ignitio rm "ACTI' k voltage +) at control hit	n switch t VE TEST' between	o ACC. ' ("SEAT R driver seat	ECLINING") w control unit ha ondition OFF FR (forward)	Voltage (V) (Approx.)	and ground.	
. Turn f . Perfo . Check (+ Driver sea ur Connec-	the ignitio rm "ACTIN k voltage +) at control hit Terminal	n switch t VE TEST' between	o ACC. ' ("SEAT R driver seat Co SEAT RE-	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward)	Voltage (V) (Approx.) 0 Battery voltage	and ground.	
. Turn t . Perfor . Check († Driver se ur Connec- tor	the ignitio rm "ACTI k voltage +) at control hit Terminal 43	n switch t VE TEST between (-)	o ACC. ' ("SEAT R driver seat	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF	Voltage (V) (Approx.) 0 Battery voltage 0	and ground.	
Turn t Perfo Check († Driver se ur Connec- tor	the ignitio rm "ACTIN k voltage +) at control hit Terminal	n switch t VE TEST between (-)	o ACC. ' ("SEAT R driver seat Co SEAT RE-	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF FR (forward)	Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage	and ground.	
. Turn t . Perfor . Check († Driver se ur Connec- tor	the ignitio rm "ACTI k voltage +) at control hit Terminal 43	n switch t VE TEST between (-)	o ACC. ' ("SEAT R driver seat Co SEAT RE-	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF	Voltage (V) (Approx.) 0 Battery voltage 0	and ground.	
. Turn f . Perfo . Check 0river sea ur Connec- tor B210	the ignitio rm "ACTIN k voltage +) at control hit Terminal 43 35 oection res	n switch t VE TEST between (-) Ground	o ACC. ' ("SEAT R driver seat C C SEAT RE- CLINING	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF FR (forward) RR (backward)	Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0		
. Turn f . Perfoi . Check Driver sea ur Connec- tor B210 B210 s the insp YES >	the ignitio rm "ACTIN k voltage +) at control hit Terminal 43 35 35 >> Replac	n switch t VE TEST between (-) Ground sult norma	o ACC. ' ("SEAT R driver seat C C SEAT RE- CLINING	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF FR (forward) RR (backward)	Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage		
. Turn t . Perfor . Check Driver sea ur Connec- tor B210 B210 s the insp YES > NO >	the ignitio rm "ACTIN k voltage 	n switch t VE TEST' between (-) Ground sult norma e reclining 2.	o ACC. ' ("SEAT R driver seat Ca SEAT RE- CLINING al? g motor LH	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF FR (forward) RR (backward) RR (backward)	Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0		
. Turn f 2. Perfor 3. Check Driver sea ur Connec- tor B210 B210 s the insp YES > NO >	the ignitio rm "ACTIN k voltage 	n switch t VE TEST' between (-) Ground sult norma e reclining 2.	o ACC. ' ("SEAT R driver seat C C SEAT RE- CLINING	ECLINING") w control unit ha ondition OFF FR (forward) RR (backward) OFF FR (forward) RR (backward) RR (backward)	Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0		

Check continuity between driver seat control unit harness connector and reclining motor LH harness connector.

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat co	ntrol unit	Reclining mo	eclining motor LH	
Connector	Terminal	Connector	Terminal	Continuity
B210	35	B217	6	Yes
D210	43	DZTI	4	165

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 $\mathbf{3}$. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Descriptic	n						INFOID:00000008145344
• The lifting	motor LH	(front) is a	activated		me. r seat control unit. iging the rotation dir	ection of lifting	notor LH (front).
Compone	ent Fund	ction Ch	neck				INFOID:000000008145345
1. снеск	FUNCTIO	N					
	SEAT LIF				le with CONSULT.		
		Test Item				Description	
			OFF			St	ор
SEAT LIFT	ER FR		UP	Se	eat lifting (front)	Up	ward
			DWN	1		Do	wnward
s the operat	tion of rele	evant parts	s normal?) 			
	Inspection Perform d		orocedure	Refer to AD	P-125, "Diagnosis	Procedure"	
						<u>rioocuiro</u> .	
Diagnosis	s Proced	ure					INFOID:000000008145346
	vining Diag	gram infor	mation, re	efer to <u>ADP-3</u>	<u>6, "Wiring Diagram"</u>		
		-		efer to <u>ADP-3</u> IT) POWER S			
1. CHECK 1. Turn the 2. Perform	LIFTING N e ignition s i "ACTIVE	MOTOR L witch to A TEST" ("\$	H (FRON CC. SEAT LIF	IT) POWER S TER FR") wit	SUPPLY		
1. CHECK 1. Turn the 2. Perform	LIFTING N e ignition s "ACTIVE voltage bet	MOTOR L witch to A TEST" ("\$	H (FRON CC. SEAT LIF	IT) POWER S TER FR") wit	SUPPLY		
1. CHECK 1. Turn the 2. Perform 3. Check v	LIFTING N e ignition s "ACTIVE voltage bet	MOTOR L witch to A TEST" ("\$	H (FRON CC. SEAT LIF ver seat c	IT) POWER S TER FR") wit	SUPPLY h CONSULT. rness connector and Voltage (V)		
1. CHECK 1. Turn the 2. Perform 3. Check v (+)	LIFTING N e ignition s "ACTIVE voltage bet	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF ver seat c	IT) POWER S TER FR") wit ontrol unit ha	SUPPLY h CONSULT. rness connector and		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat of	LIFTING N e ignition s "ACTIVE voltage bet	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF ver seat c	IT) POWER S TER FR") wit ontrol unit ha	SUPPLY h CONSULT. rness connector and Voltage (V)		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat of	LIFTING N e ignition s "ACTIVE voltage bet	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF /er seat c	IT) POWER S TER FR") wit ontrol unit ha	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.)		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat of Connector	LIFTING N e ignition s "ACTIVE voltage bet o control unit Terminal	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF ver seat c C	IT) POWER S TER FR") wit ontrol unit ha	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.)		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat of	LIFTING N e ignition s "ACTIVE voltage bet o control unit Terminal	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF /er seat c	IT) POWER S TER FR") wit ontrol unit ha ondition OFF UP	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.) 0 0		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat of Connector	LIFTING N e ignition s "ACTIVE voltage bet o control unit Terminal	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF ver seat c c SEAT LIFTER	IT) POWER S TER FR") wit ontrol unit ha ondition OFF UP DWN (down)	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.) 0 0 Battery voltage		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat of Connector	LIFTING M e ignition s "ACTIVE voltage bet control unit Terminal 34	MOTOR L witch to A TEST" (" ween driv	H (FRON CC. SEAT LIF ver seat c c SEAT LIFTER	IT) POWER S TER FR") wit ontrol unit ha ondition OFF UP DWN (down) OFF	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.) 0 0 Battery voltage 0		
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat c Connector B210 s the inspec	LIFTING N e ignition s "ACTIVE voltage bet control unit Terminal 34 42 ction result	MOTOR L witch to A TEST" (" tween driv (-) Ground	H (FRON CC. SEAT LIF ver seat c c SEAT LIFTER FR	IT) POWER S TER FR") wit ontrol unit had ondition OFF UP DWN (down) OFF UP DWN (down)	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0	d ground.	
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat c Connector B210 s the inspec YES >>	LIFTING N e ignition s "ACTIVE voltage bet control unit Terminal 34 42 ction result Replace li	MOTOR L witch to A TEST" (" tween driv (-) Ground	H (FRON CC. SEAT LIF ver seat c c SEAT LIFTER FR	IT) POWER S TER FR") wit ontrol unit had ondition OFF UP DWN (down) OFF UP DWN (down)	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage	d ground.	
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat c Connector B210 <u>s the inspec</u> YES >> NO >>	LIFTING M e ignition s "ACTIVE voltage bet control unit Terminal 34 42 ction result Replace li GO TO 2.	MOTOR L witch to A TEST" (" tween driv (-) Ground t normal? fting moto	H (FRON CC. SEAT LIF ver seat c c c SEAT LIFTER FR	IT) POWER S TER FR") wit ontrol unit ha ondition OFF UP DWN (down) OFF UP DWN (down)	SUPPLY h CONSULT. rness connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0	d ground.	
1. CHECK 1. Turn the 2. Perform 3. Check v (+) Driver seat c Connector B210 s the inspec YES >> NO >> 2. CHECK	LIFTING M e ignition s "ACTIVE voltage bet control unit Terminal 34 42 ction result Replace li GO TO 2.	MOTOR L witch to A TEST" (" tween driv (-) Ground t normal? fting moto	H (FRON CC. SEAT LIF ver seat c c c SEAT LIFTER FR	IT) POWER S TER FR") wit ontrol unit had ondition OFF UP DWN (down) OFF UP DWN (down)	SUPPLY h CONSULT. mess connector and Voltage (V) (Approx.) 0 Battery voltage 0 Battery voltage 0	d ground.	

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

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Lifting motor LH (front)		Continuity
Connector	Terminal	Connector	Terminal	
B210	34	B218	6	Yes
BZTO	42	D210	4	163

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 $\mathbf{3}$. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS > LIFTING MOTOR (REAR) А Description INFOID:00000008145347 The lifting motor LH (rear) is installed to the seat frame. В • The lifting motor LH (rear) is activated with the driver seat control unit. The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor LH (rear). **Component Function Check** INFOID:000000008145348 CHECK FUNCTION 1. Select "SEAT LIFTER RR" in "ACTIVE TEST" mode with CONSULT. D 2. Check the lifting motor LH (rear) operation. Test Item Description E OFF Stop UP SEAT LIFTER RR Seat lifting (rear) Upward F DWN Downward Is the operation of relevant parts normal? YES >> Inspection End. G NO >> Perform diagnosis procedure. Refer to ADP-127, "Diagnosis Procedure". **Diagnosis** Procedure INFOID:00000008145349 Н Regarding Wiring Diagram information, refer to <u>ADP-36, "Wiring Diagram"</u>. **1.** CHECK LIFTING MOTOR LH (REAR) POWER SUPPLY ADP 1. Turn the ignition switch to ACC. 2. Perform "ACTIVE TEST" ("SEAT LIFTER RR") with CONSULT. 3. Check voltage between driver seat control unit harness connector and ground. Κ (+) Voltage (V) Driver seat control unit Condition (-) (Approx.) L Connector Terminal OFF 0 40 UP 0 Μ SEAT DWN (down) Battery voltage B210 Ground LIFTER OFF 0 RR Ν UP 41 Battery voltage DWN (down) 0 Is the inspection result normal? YES >> Replace lifting motor LH (rear). Refer to SE-79, "Removal and Installation". NO >> GO TO 2. $\mathbf{2}$. CHECK LIFTING MOTOR (REAR) CIRCUIT Ρ 1. Turn ignition switch OFF. Disconnect driver seat control unit and lifting motor LH (rear). 2.

3. Check continuity between driver seat control unit harness connector and lifting motor LH (rear) harness connector.

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat co	river seat control unit		Lifting motor LH (rear)		
Connector	Terminal	Connector	Terminal	Continuity	
B210	41	B207	6	Yes	
BZTO	40	6207	4	165	

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 $\mathbf{3}$. CHECK INTERMITTENT INCIDENT

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-140</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TILT	MOTOR	

									А
Descripti	on							INFOID:000000008145350	
 The tilt m 	otor is acti	vated with	the autor		embly. ositioner contro hanging the rol		n of tilt motor		В
Compon	ent Fun	ction Cl	neck					INFOID:000000008145351	С
1. CHECK	FUNCTIO	N							
	"TILT MOT the tilt mot			EST" mode w	ith CONSULT.				D
		Test item				Descr	iption		Е
		OFF	-			_	Stop		
TILT MOTOR	२	UP			Steering tilt	-	Upward		F
		DW					Downward		
Is the operation		-	s normal?	-					
	Inspection		orocedure	Refer to Ar	DP-129, "Diagn	osis Procedu	re"		G
		•					<u> </u>		
Diagnosi	S FIUCE	uure						INFOID:000000008145352	Н
Regarding	Wiring Dia	gram infor	mation, re	efer to <u>ADP-3</u>	36, "Wiring Diag	<u>gram"</u> .			
1. CHECK		FOR POW	ER SUPF	PLY					
	nition swite								ADP
2. Discon	nect tilt mo	otor.							
				OR") with Connect	tor and ground				K
	5				5				
(+)								L
Tilt m	notor	(—)	Co	ondition	Voltage (V) (Approx.)				
Connector	Terminals				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
				OFF	0				Μ
	2			UP	0				
M85		Ground	TILT	DWN (down)	Battery voltage				Ν
WIOO		Ground	MOTOR	OFF	0				
	1			UP	Battery voltage				
				DWN (down)	0				0
Is the inspe	ection resul	It normal?							
			Refer to S	<u>T-47, "Explo</u>	ded View".				Р
	GO TO 2								I
2. CHECK			UII						
	nition swite		nositiona	r control unit					
					Der control unit	harness conn	ector and tilt	motor harness	

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

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive trol u		Tilt n	Continuity	
Connector	Terminal	Connector	Terminal	
M34	28	M85	2	Yes
10134	29	1000	1	165

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

Automatic drive pos	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M34	28	Giouna	No
10134	29		NO

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-141, "Removal and Installation"</u>. NO >> Repair or replace harness.

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS > TFL FSCOPIC MOTOR

TELES	COPIC	MOTO	DR						А
Descript	ion							INFOID:000000008145353	A
 The teles 	scopic mot	tor is activ	vated with		mn assembly. drive positione station directior				В
Compon	ent Fur	nction (Check					INFOID:000000008145354	С
1.снеск	FUNCTIO	NC							
	"TELESC the teleso				ode with CON	SULT.			D
		Test ite	m			Des	cription		Е
		C	FF				Stop		
TELESCO N	MOTOR	F	R		Steering telesco	opic	Forward		
		R	R				Backward		F
Is the oper	ation of re	elevant pa	irts norma	l <u>?</u>					
	> Inspections > Perform		s procedu	re Refer to AF)P-131, "Diagn	osis Proced	ure"		G
		-	o procedu				<u>ure</u> .		
Diagnos	IS PIOCE	edure						INFOID:000000008145355	Н
	-	-			<u>36, "Wiring Dia</u>	<u>gram"</u> .			I
	gnition swi		JIOR PO	WER SUPPLY					AD
 Discor Turn the second se	nect teles	scopic mo switch O	N.		vith CONSULT.				
					connector and				K
(+	+)								1
Telescop	oic motor	(-)	C	ondition	Voltage (V) (Approx.)				
Connector	Terminals				(Applox.)				
				OFF	0				\mathbb{M}
	2			FR (forward)	0				
			TELE-	RR (backward)	Battery voltage				NI
M94		Ground	SCOPIC MOTOR	OFF	0				Ν
	1			FR (forward)	Battery voltage				
				RR (backward)	0				0
Is the inspe	ection res	<u>ult nor</u> ma	?		1				
•				Refer to <u>ST-47</u>	, "Exploded Vie	<u>ew"</u> .			
NO >:	> GO TO 2	2.							Ρ
2. CHECK	TELESC	OPIC MC	TOR CIR	CUIT					
	gnition swi		ve position	ner control unit					

- 2. Disconnect automatic drive positioner control unit.
- 3. Check continuity between automatic drive positioner control unit harness connector and telescopic motor harness connector.

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

	e positioner control unit	Telesco	Continuity		
Connector	Terminal	Connector	Terminal		
M34	29	M94	1	Yes	
1104	26	10194	2		

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

Automatic drive pos	itioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M24	29	Ground	No	
M34	26		INO	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-141, "Removal and Installation". NO

>> Repair or replace harness.

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR MOTOR

	Δ
Description	1 \
It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies.	В
Component Function Check	_
1. CHECK DOOR MIRROR MOTOR FUNCTION	С
Check the operation with "MIRROR MOTOR RH" and "MIRROR MOTOR LH" in "ACTIVE TEST" mode with CONSULT. Refer to <u>ADP-22, "CONSULT Function"</u> .	D
Is the inspection result normal?	
YES >> Door mirror motor function is OK. NO >> Refer to <u>ADP-133, "Diagnosis Procedure"</u> .	E
Diagnosis Procedure	F
Regarding Wiring Diagram information, refer to ADP-36. "Wiring Diagram".	G

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 re- mote control	Voltage (V) (Approx.)	
Connector	nnector Terminal		switch condition	(πρριοκ.)	
	12		UP	Battery voltage	
	12	12	Other than above	0	
D6 (LH)	11	11 Ground	Cround	LEFT	Battery voltage
D116 (RH)			Ground	Other than above	0
			DOWN / RIGHT	Battery voltage	
	10		Other than above	0	

Is the inspection result normal?

YES >> Refer to <u>ADP-135</u>, "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.
- Check continuity between automatic drive positioner control unit connector and door mirror connector. Door mirror LH

Automatic drive pos unit	itioner control	Door mirror L	Continuity	
Connector	Terminal	Connector	Terminal	
	12		10	
M33	23	D6	12	Yes
	24		11	

G

н

Μ

Ν

Ρ

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Door mirror RH					
Automatic drive positione	Door mir	ror RH	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
	10		12	Yes	
M33	11	D116	11		
	22		10		

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

Automatic drive positi	oner control unit		Continuity	
Connector	Connector Terminal		Continuity	
	12	Ground		
M33	23		No	
	24			
Door mirror RH				

Automatic drive positio		Continuity		
Connector	Terminal		Continuity	
	10	Ground		
M33	11		No	
	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

(+) Automatic drive p trol ur		(-)	Mirror switch condition	Voltage (V) (Approx.)
Connector	Terminal			
	12		DOWN / RIGHT	Battery voltage
	12	Ground	Other than above	0
M33	23		UP	Battery voltage
1000	20	Ground	Other than above	0
	24		LEFT	Battery voltage
	24		Other than above	0

Door mirror RH

(+)				
Automatic drive p trol u		(-)	Mirror switch con- dition	Voltage (V) (Approx.)
Connector	Terminal			

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

	2			
	40		UP	Battery voltage
	10		Other than above	0
	44		LEFT	Battery voltage
M33	11	Ground	Other than above	0
	22		DOWN / RIGHT	Battery voltage
	22		Other than above	0
Is the inspection	result nor	mal?		·
4	lace autor			I unit. Refer to ADP-141, "Removal and Installation".
4. CHECK DOC	OR MIRRO	OR MOTOF	2	
Check door mirro				
Refer to <u>ADP-13</u>			ection".	
<u>Is the inspection</u> YES >> Refe			ent Incident".	
NO >> Rep	lace door	mirror actu	ator. Refer to MI	R-29, "Removal and Installation".
Component I				INFOID:00000008145359
	•			INPOLD.0000008145359
1. CHECK DOC	OR MIRRO	OR MOTOF	R-I	
			ot trap foreign obj	jects and does not have any damage.
Refer to <u>MIR-29</u> ,				
Is the inspection		mal?		
YES >> GO NO >> Rep	-	mirror actu	ator Refer to MI	R-29, "Removal and Installation".
2. CHECK DOC				
1. Turn ignition				
2. Disconnect				
3. Apply 12V to	each po	wer supply	terminal of door	mirror motor.
			1	
Door mirror conne		Terminal	Operatio	onal direction
			-)	
D6 (LH)				_EFT
D116 (RH)			10	UP
			12 D	OOWN
Is the inspection				
	ection End lace door		ator Refer to MI	R-29, "Removal and Installation".
no senep				

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY INDICATOR

Description

INFOID:000000008145360

INFOID:000000008145361

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

Component Function Check

1. CHECK FUNCTION

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

Test iter	n	Descript	ion
	OFF		OFF
MEMORY SW INDCTR	ON-1	Memory switch indicator	Indicator 1: ON
	ON-2		Indicator 2: ON

Is the operation of relevant parts normal?

YES >> Inspection End.

NO >> Perform diagnosis procedure. Refer to <u>ADP-136, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000008145362

Regarding Wiring Diagram information, refer to ADP-36, "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 co	ntrol unit	Seat memory	switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B209	10	D60	7	Yes
6209	26	Doo	6	163

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

Driver seat cont	rol unit		Continuity
Connector	Terminal	Ground	Continuity
B209	10	Giodila	No
B209	26		NO

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.

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

(+)				-	А
Seat memor	y switch	(-)	Voltage (V)		
Connector	Terminals		(Approx.)		В
D60	5	Ground	Battery voltage	-	D
				_	С
	ss for open or sh	ort between	memory indicator	and fuse.	D
Refer to <u>ADP-137</u> , "(Is the inspection res		ection".			Е
4. CHECK INTERM	e seat memory sv IITTENT INCIDE	NT	to <u>ADP-142, "Rem</u>	oval and Installation".	F
	ult normal? driver seat cont	rol unit. Refe		moval and Installation".	G
NO >> Repair of Component Insp	or replace the ma Dection	lifunctioning	part.	INFOID:00000008145363	Н
1. CHECK SEAT M					.
 Disconnect seat Check continuity 	: memory switch. / between seat m		ch terminals.		
Te	rminal				ADP
	mory switch		Continuity		
(+)	(-)		,		K
5	6 7		Yes		
Is the inspection res	ult normal?				L
YES >> Inspection	on End.	vitch. Refer t	to <u>ADP-142, "Rem</u>	oval and Installation".	M
					Ν
					0

SYMPTOM DIAGNOSIS ADP SYSTEM SYMPTOMS

Symptom Table

INFOID:000000008159133

NOTE:

Always perform the "Basic Inspection" before performing diagnosis in the following table. Refer to <u>ADP-51</u>. "Work Flow".

Symptom		Diagnosis procedure	Reference page
	Sliding operation	Check sliding switch.	<u>ADP-73</u>
	Reclining operation	Check reclining switch.	<u>ADP-76</u>
	Lifting operation (front)	Check lifting switch (front).	<u>ADP-79</u>
	Lifting operation (rear)	Check lifting switch (rear).	<u>ADP-82</u>
Manual functions (for specific part) do	Tilt operation	Check tilt switch.	<u>ADP-85</u>
not operate.	Telescopic sensor	Check telescopic switch.	<u>ADP-87</u>
	Deer mirror operation	1. Changeover switch.	<u>ADP-92</u>
	Door mirror operation	2. Mirror switch	<u>ADP-94</u>
	All parts of seat	Check power seat switch ground cir- cuit.	<u>ADP-97</u>
	Sliding operation	Check sliding sensor.	<u>ADP-99</u>
	Reclining operation	Check reclining sensor.	ADP-102
	Lifting operation (front)	Check lifting sensor (front).	<u>ADP-105</u>
	Lifting operation (rear)	Check lifting sensor (rear).	ADP-108
Memory functions (for specific part) do not operate.	Tilt operation	Check tilt sensor.	ADP-111
	Telescopic operation	Check telescopic sensor.	<u>ADP-114</u>
	Door mirror operation	Check door mirror sensor.	Driver side: <u>ADP-117</u> Passenger side: <u>ADP-119</u>
	Sliding operation	Check sliding motor LH.	<u>ADP-121</u>
	Reclining operation	Check reclining motor LH.	ADP-123
	Lifting operation (front)	Check lifting motor LH (front).	<u>ADP-125</u>
Memory functions and manual func- tions (for specific part) do not operate.	Lifting operation (rear)	Check lifting motor LH (rear).	<u>ADP-127</u>
	Tilt operation	Check tilt motor.	<u>ADP-129</u>
	Telescopic operation	Check telescopic motor.	<u>ADP-131</u>
	Door mirror operation	Check door mirror motor.	ADP-133
		1. Check system setting.	<u>ADP-11</u>
Entry/Exit assist function does not oper	ate.	2. Perform initialization.	<u>ADP-55</u>
		3. Check front door switch (driver side).	DLK-166
Intelligent Key interlock function does n		1. Check door lock function.	<u>DLK-18</u>
(Other automatic operations and Intellig	ent Key system are normal)	2. Perform memory storing.	ADP-56

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

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

Symptom	Cause	Action to take	Reference page
	No initialization has been performed.	Perform initialization.	<u>ADP-55</u>
Entry/exit assist function do not operate.	Entry/exit assist function is disabled. NOTE: Entry/exit assist function is set to ON be- fore delivery (initial setting).	Change the settings.	<u>ADP-57</u>
Entry assist function does not op- erate.	Manual operation with power seat switch was performed after exit assist function execution.	Perform the entry as- sist function.	<u>ADP-18</u>
Memory function, entry/exit as- sist function, or Intelligent Key in- terlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: <u>ADP-15</u>
			Entry assist function: <u>ADP-18</u>
			Exit assist function: <u>ADP-17</u>
			Intelligent Key interlock function: <u>ADP-19</u>

А

В

INFOID:000000007913280

ADP

Κ

L

Μ

Ν

Ο

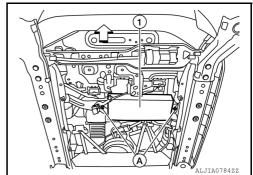
Ρ

REMOVAL AND INSTALLATION DRIVER SEAT CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Disconnect the negative battery terminal.
- Remove the driver seat. Refer to <u>SE-79, "Removal and Installa-</u> tion".
 <⊐: Front
- 3. Remove the two driver seat control unit screws (A).
- 4. Disconnect the two harness connectors from driver seat control unit.
- 5. Remove the 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 <u>ADP-55</u>, "<u>ADDI-</u><u>TIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: <u>Work Procedure</u>".

INFOID:000000007913281

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

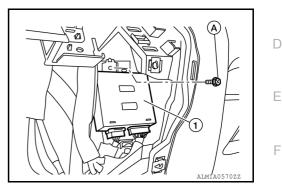
< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Disconnect the negative battery terminal.
- 2. Remove cluster lid C (multifunction switch). Refer to <u>IP-21, "Removal and Installation Cluster Lid C</u> <u>Upper"</u>.
- 3. Remove the automatic drive positioner control unit screw (A).
- 4. Disconnect the two harness connectors from the automatic drive positioner control unit (1).
- 5. Remove automatic drive positioner control unit (1).



INSTALLATION

Installation is in the reverse order of removal. **NOTE:**

After installing the automatic drive positioner control unit, perform additional service. Refer to <u>ADP-55, "ADDI-</u><u>TIONAL SERVICE WHEN REPLACING CONTROL UNIT : Work Procedure"</u>.

ADP

Н

Μ

Ν

Ρ

Κ

А

INFOID:000000007913282

В

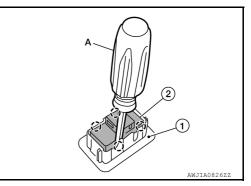
С

SEAT MEMORY SWITCH

Removal and Installation

REMOVAL

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



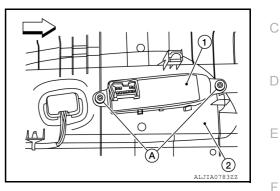
INSTALLATION Installation is in the reverse order of removal. INFOID:000000007913283

POWER SEAT SWITCH

Removal and Installation

REMOVAL

- Remove seat cushion outer finisher LH (2). Refer to <u>SE-103</u>, <u>"Disassembly and Assembly"</u>.
 <⊐: 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

Κ

L

Μ

Ν

Ο

Ρ

G

Н

А

В

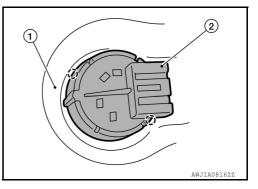
INFOID:000000007913284

ADP STEERING SWITCH

Removal and Installation

REMOVAL

- 1. Remove steering column lower cover (1). Refer to <u>IP-17</u>, <u>"Removal and Installation"</u>.
- 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.