SECTION ADP AUTOMATIC DRIVE POSITIONER

D

Е

CONTENTS

BASIC INSPECTION6	AUTOMATIC DRIVE POSITIONER SYSTEM:		F
DIAGNOSIS AND REPAIR WORKFLOW 6	System Diagram	13	
	AUTOMATIC DRIVE POSITIONER SYSTEM :		
Work Flow6	System Description	14	
INSPECTION AND ADJUSTMENT9	AUTOMATIC DRIVE POSITIONER SYSTEM:		
INOI LOTION AND ADOOD IMENT	Component Parts Location	15	
ADDITIONAL SERVICE WHEN REMOVING BAT-	AUTOMATIC DRIVE POSITIONER SYSTEM :		ŀ
TERY NEGATIVE TERMINAL9	Component Description	17	
ADDITIONAL SERVICE WHEN REMOVING	MANUAL FUNCTION	40	
BATTERY NEGATIVE TERMINAL : Description9			
ADDITIONAL SERVICE WHEN REMOVING	MANUAL FUNCTION: System Diagram		
BATTERY NEGATIVE TERMINAL : Special Re-	MANUAL FUNCTION : System Description	19	
pair Requirement9	MANUAL FUNCTION : Component Parts Loca-		
pail requirement	tion		ΑI
ADDITIONAL SERVICE WHEN REPLACING	MANUAL FUNCTION : Component Description .	23	
CONTROL UNIT9	SEAT SYNCHRONIZATION FUNCTION	24	
ADDITIONAL SERVICE WHEN REPLACING	SEAT SYNCHRONIZATION FUNCTION: Sys-	27	L
CONTROL UNIT: Description9	tem Diagram	24	r
ADDITIONAL SERVICE WHEN REPLACING	SEAT SYNCHRONIZATION FUNCTION: Sys-	24	
CONTROL UNIT: Special Repair Requirement9	tem Description	24	
	SEAT SYNCHRONIZATION FUNCTION : Com-	24	L
SYSTEM INITIALIZATION10	ponent Parts Location	26	
SYSTEM INITIALIZATION : Description10	SEAT SYNCHRONIZATION FUNCTION :	20	
SYSTEM INITIALIZATION : Special Repair Re-		00	N
quirement10	Component Description	28	
MEMORY STORING10	MEMORY FUNCTION	29	
	MEMORY FUNCTION: System Diagram		
MEMORY STORING: Description	MEMORY FUNCTION : System Description		N
MEMORY STORING : Special Repair Require-	MEMORY FUNCTION : Component Parts Loca-	•	
ment10	tion	31	
SYSTEM SETTING11	MEMORY FUNCTION : Component Description.		
SYSTEM SETTING : Description11	·		
SYSTEM SETTING : Special Repair Requirement	INTELLIGENT KEY INTERLOCK FUNCTION	34	
11	INTELLIGENT KEY INTERLOCK FUNCTION:		F
	System Diagram	34	
SYSTEM DESCRIPTION13	INTELLIGENT KEY INTERLOCK FUNCTION:		
	System Description	34	
AUTOMATIC DRIVE POSITIONER SYSTEM13	INTELLIGENT KEY INTERLOCK FUNCTION:		
ALITOMATIC DRIVE DOCITIONED OVOTERS	Component Parts Location	36	
AUTOMATIC DRIVE POSITIONER SYSTEM13	INTELLIGENT KEY INTERLOCK FUNCTION:		
	Component Description	38	

POWER WALK-IN FUNCTION		DRIVER SEAT CONTROL UNIT :	
POWER WALK-IN FUNCTION: System Diagram		Diagnosis Procedure	
POWER WALK-IN FUNCTION: System Descrip	-	DRIVER SEAT CONTROL UNIT : Special Repair	
tion	39	Requirement	65
POWER WALK-IN FUNCTION : Component		AUTOMATIC DRIVE POSITIONER CONTROL	
Parts Location	41		C.E.
POWER WALK-IN FUNCTION :		AUTOMATIC DRIVE POSITIONER CONTROL	65
Component Description	43		G.E.
DIACNOSIS SYSTEM (DDIVED SEAT C/LI)	45	UNIT : Diagnosis ProcedureAUTOMATIC DRIVE POSITIONER CONTROL	65
DIAGNOSIS SYSTEM (DRIVER SEAT C/U).			66
CONSULT Function	45	UNIT : Special Repair Requirement	00
DTC/CIRCUIT DIAGNOSIS	48	SLIDING SWITCH	
HADOO CAN COMM CIRCUIT	40	Description	
U1000 CAN COMM CIRCUIT		Component Function Check	
Description		Diagnosis Procedure	
DTC Logic		Component Inspection	68
Diagnosis Procedure		RECLINING SWITCH	69
Special Repair Requirement	48	Description	
B2112 SLIDING MOTOR	49	Component Function Check	69
Description		Diagnosis Procedure	
DTC Logic		Component Inspection	
Diagnosis Procedure			
•		LIFTING SWITCH (FRONT)	71
B2113 RECLINING MOTOR	51	Description	71
Description		Component Function Check	71
DTC Logic		Diagnosis Procedure	71
Diagnosis Procedure	51	Component Inspection	72
B2118 TILT SENSOR	53	LIFTING SWITCH (REAR)	73
Description		Description	
DTC Logic		Component Function Check	
Diagnosis Procedure		Diagnosis Procedure	
		Component Inspection	
B2119 TELESCOPIC SENSOR			
Description		FORWARD SWITCH	
DTC Logic		Description	
Diagnosis Procedure	56	Component Function Check	
B2126 DETENT SW	50	Diagnosis Procedure	
Description		Component Inspection	76
DTC Logic		SEAT BELT BUCKLE SWITCH	77
Diagnosis Procedure			
Diagnosis Flocedule	59	Description Component Function Check	
B2127 PARKING BRAKE SWITCH	61	Diagnosis Procedure	
Description	61	Component Inspection	
DTC Logic		Component inspection	10
Diagnosis Procedure		SLIDING LIMIT SWITCH	79
Component Inspection		Description	79
·		Component Function Check	
B2128 UART COMMUNICATION LINE		Diagnosis Procedure	
Description		Component Inspection	
DTC Logic		·	
Diagnosis Procedure	63	POWER WALK-IN SWITCH	
POWER SUPPLY AND GROUND CIRCUIT .	64	Description	
I GIVEN SOLI EL AND GROUND CIRCUIT .	04	Component Function Check	
BCM	64	Diagnosis Procedure	
BCM : Diagnosis Procedure		Component Inspection	82
_		TILT SWITCH	83
DRIVER SEAT CONTROL UNIT	64		00

Description		Diagnosis Procedure	104	
Component Function Check	83	LIETING OFNOOD (FDONT)		Α
Diagnosis Procedure	83	LIFTING SENSOR (FRONT)		
Component Inspection	84	Description		
TELECOPIO CWITCH		Component Function Check		В
TELESCOPIC SWITCH		Diagnosis Procedure	107	
Description		LIFTING SENSOR (REAR)	110	
Component Function Check		Description		С
Diagnosis Procedure		Component Function Check		
Component Inspection	86	Diagnosis Procedure		
SEAT MEMORY SWITCH	87	Diagnosio i roccaro		
Description		TILT SENSOR	113	D
Component Function Check		Description	113	
Diagnosis Procedure		Component Function Check	113	
Component Inspection		Diagnosis Procedure	113	Е
·		TEL ECCODIC CENCOD	440	
DOOR MIRROR REMOTE CONTROL		TELESCOPIC SENSOR		
SWITCH	90	Description		F
MIDDOD OMITOU		Component Function Check		
MIRROR SWITCH		Diagnosis Procedure	116	
MIRROR SWITCH: Description		MIRROR SENSOR	110	
MIRROR SWITCH: Component Function Check.		MINITON OLIVOON	113	G
MIRROR SWITCH: Diagnosis Procedure		DRIVER SIDE	119	
MIRROR SWITCH : Component Inspection	91	DRIVER SIDE : Description	119	
CHANGEOVER SWITCH	92	DRIVER SIDE : Component Function Check	119	Н
CHANGEOVER SWITCH : Description		DRIVER SIDE : Diagnosis Procedure	119	
CHANGEOVER SWITCH : Component Function				
Check	92	PASSENGER SIDE		
CHANGEOVER SWITCH : Diagnosis Procedure		PASSENGER SIDE : Description	121	
CHANGEOVER SWITCH : Component Inspec-		PASSENGER SIDE :		
tion	93	Component Function Check		AD
		PASSENGER SIDE : Diagnosis Procedure	121	, ,,
POWER SEAT SWITCH GROUND CIRCUIT		SLIDING MOTOR	124	
Diagnosis Procedure	95	Description		K
TILT &TELESCOPIC SWITCH GROUND CIR-	_	Component Function Check		r
		Diagnosis Procedure		
CUIT	96	Component Inspection		
Diagnosis Procedure	96	·		L
DETENTION SWITCH	97	RECLINING MOTOR		
Description		Description		
Component Function Check		Component Function Check		M
Diagnosis Procedure		Diagnosis Procedure		
Component Inspection		Component Inspection	127	
·		LIFTING MOTOR (FRONT)	128	Ν
PARKING BRAKE SWITCH		Description		
Description		Component Function Check		
Component Function Check		Diagnosis Procedure		0
Diagnosis Procedure		Component Inspection		
Component Inspection	. 100	Component inspection	123	
SLIDING SENSOR	101	LIFTING MOTOR (REAR)	130	
Description		Description		Р
Component Function Check		Component Function Check		
Diagnosis Procedure		Diagnosis Procedure		
Diagnosis i locedule	. 101	Component Inspection		
RECLINING SENSOR	.104	THE MOTOR		
Description		TILT MOTOR		
Component Function Check		Description		
•		Component Function Check	132	

Diagnosis Procedure	132	SEAT SLIDING	190
Component Inspection	133	SEAT SLIDING : Description	190
TEL ESCODIC MOTOR	404	SEAT SLIDING : Diagnosis Procedure	190
TELESCOPIC MOTOR		SEAT RECLINING	100
Description		SEAT RECLINING : Description	
Component Function Check		SEAT RECLINING : Description	
Diagnosis Procedure Component Inspection		SEAT RESERVING : Blagitosis i Tocedure	191
Component inspection	133	SEAT LIFTING (FRONT)	191
DOOR MIRROR MOTOR	136	SEAT LIFTING (FRONT): Description	191
Description	136	SEAT LIFTING (FRONT): Diagnosis Procedure.	191
Component Function Check	136	OF AT LIFTING (DE AD)	400
Diagnosis Procedure		SEAT LIFTING (REAR)	
Component Inspection	137	SEAT LIFTING (REAR) : Description	
		SEAT LIFTING (REAR) : Diagnosis Procedure	192
SEAT MEMORY INDICATOR		STEERING TILT	192
Description		STEERING TILT : Description	192
Component Function Check		STEERING TILT : Diagnosis Procedure	
Diagnosis Procedure	139	•	
ECU DIAGNOSIS INFORMATION	141	STEERING TELESCOPIC	
LOG DIAGROSIO INI ORMATION	171	STEERING TELESCOPIC : Description	
BCM (BODY CONTROL MODULE)	141	STEERING TELESCOPIC : Diagnosis Procedure.	193
Reference Value		DOOR MIRROR	193
Wiring Diagram - BCM	164	DOOR MIRROR : Description	
Fail-safe	167	DOOR MIRROR : Diagnosis Procedure	
DTC Inspection Priority Chart	168	-	
DTC Index	169	MEMORY FUNCTION DOES NOT OPERATE	.195
DDIVED SEAT CONTROL LINIT (WITH ALL		ALL COMPONENT	105
DRIVER SEAT CONTROL UNIT (WITH AU-	470	ALL COMPONENT : Description	
TOMATIC DRIVE POSITIONER)		ALL COMPONENT : Diagnosis Procedure	
	1/2	ALE COMM CIVETY : Bidgiloolo i roccadio	
Wiring Diagram - AUTOMATIC DRIVE POSI- TIONER CONTROL SYSTEM	170	SEAT SLIDING	
Fail Safe		SEAT SLIDING : Description	
DTC Index		SEAT SLIDING : Diagnosis Procedure	195
DTO IIIdex	101	SEAT RECLINING	106
AUTOMATIC DRIVE POSITIONER CON-		SEAT RECLINING : Description	
TROL UNIT	182	SEAT RECLINING : Diagnosis Procedure	
Reference Value	182	OEAT REGENTING : Diagnosis i Toocaare	150
Wiring Diagram - AUTOMATIC DRIVE POSI-		SEAT LIFTING (FRONT)	
TIONER CONTROL SYSTEM	186	SEAT LIFTING (FRONT): Description	
CVMPTOM DIA ONOCIO		SEAT LIFTING (FRONT): Diagnosis Procedure.	196
SYMPTOM DIAGNOSIS	189	SEAT LIFTING (REAR)	107
MANUAL FUNCTION DOES NOT OPERATI	F 189	SEAT LIFTING (REAR) : Description	
MANGAL I GITGITON DOLONOT GI ENATI	103	SEAT LIFTING (REAR) : Diagnosis Procedure	
ALL COMPONENT		, ,	
ALL COMPONENT : Description	189	STEERING TELESCOPIC	
ALL COMPONENT : Diagnosis Procedure	189	STEERING TELESCOPIC : Description	
DOWED SEAT	400	STEERING TELESCOPIC : Diagnosis Procedure.	197
POWER SEAT POWER SEAT : Description		STEERING TILT	400
POWER SEAT : Diagnosis Procedure		STEERING TILT : Description	
1 OVVER SEAT . Diagnosis Flocedule	109	STEERING TILT : Description	
STEERING POSITION FUNCTION DOES NOT		OTELIMINO TIET . Diagnosis Flocedule	130
OPERATE		DOOR MIRROR	198
STEERING POSITION FUNCTION DOES NOT	-	DOOR MIRROR : Description	198
OPERATE: Description		DOOR MIRROR : Diagnosis Procedure	198
STEERING POSITION FUNCTION DOES NOT		MEMORY INDICATE DOES NOT ILLUM	
OPERATE : Diagnosis Procedure	190	MEMORY INDICATE DOES NOT ILLUMI-	400
		NATE	. 199

Diagnosis Procedure199	REMOVAL AND INSTALLATION207
SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE	DRIVER SEAT CONTROL UNIT
POWER WALK-IN FUNCTION DOES NOT	AUTOMATIC DRIVE POSITIONER CON-
OPERATE201	TROL UNIT208
Diagnosis Procedure201	Exploded View208
INTELLIGENT KEY INTERLOOK FUNCTION	Removal and Installation208
INTELLIGENT KEY INTERLOCK FUNCTION	
DOES NOT OPERATE203	SEAT MEMORY SWITCH209
Diagnosis Procedure203	Exploded View209
NORMAL OPERATING CONDITION204	Removal and Installation209
Description204	POWER SEAT SWITCH210
·	Exploded View210
PRECAUTION205	Removal and Installation210
PRECAUTIONS205	SIDE SUPPORT SWITCH211
Precaution for Supplemental Restraint System	Exploded View211
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	Removal and Installation211
SIONER"205	Carrotal and motalitation
Precaution for Battery Service205	TILT&TELESCOPIC SWITCH212
Service	Exploded View212
Work	Removal and Installation212
	H

ADP

Κ

L

M

Ν

0

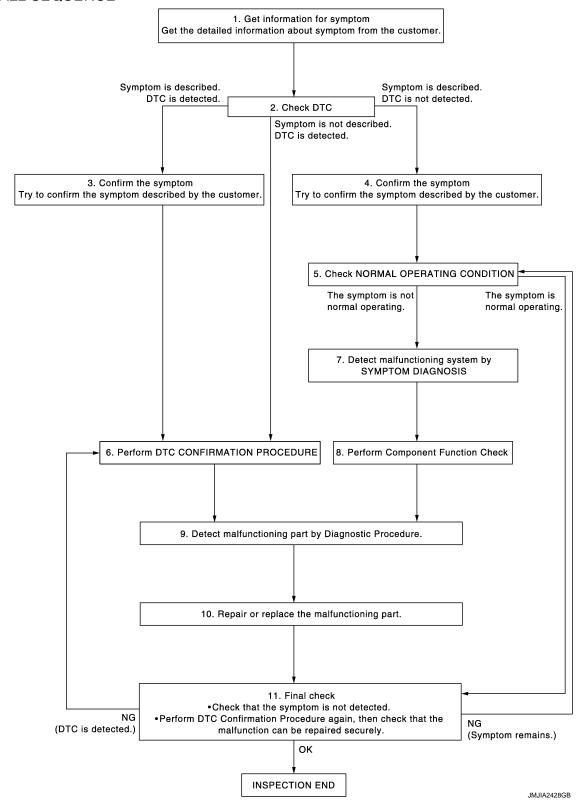
Ρ

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORKFLOW < BASIC INSPECTION > 1.GET INFORMATION FOR SYMPTOM Α Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred). В >> GO TO 2. 2.CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM Check "Self Diagnostic Result" with CONSULT. Refer to ADP-181, "DTC Index" Is any symptom described and any DTC is displayed? Symptom is described, DTC is displayed.>>GO TO 3. D Symptom is not described, DTC is displayed.>>GO TO 6. Symptom is described, DTC is not displayed.>>GO TO 4. 3.CONFIRM THE SYMPTOM Е Try to confirm the symptom described by the customer. >> GO TO 6. 4.CONFIRM THE SYMPTOM Try to confirm the symptom described by the customer. >> GO TO 5. CHECK NORMAL OPERATING CONDITION Н Check normal operating condition. Refer to ADP-204, "Description". Is the incident normal operation? >> INSPECTION END YES NO >> GO TO 7. $\mathsf{6}.$ PERFORM DTC CONFIRMATION PROCEDURE ADP Perform the confirmation procedure for the detected DTC. Is the DTC displayed? YES >> GO TO 8. NO >> Check intermittent incident, Refer to GI-43, "Intermittent Incident", $7.\mathsf{DETECT}$ MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom. M >> GO TO 8. 8.PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 9.

9.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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

Р

>> GO TO 10.

10. REPARE OR REPLACE

Repair or replace the malfunctioning part.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 11.

11. FINAL CHECK

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

Are all malfunctions corrected?

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

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

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

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

NOTE:

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

1.SYSTEM INITIALIZATION

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

>> GO TO 2.

2.system setting

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

>> GO TO 3.

3. MEMORY STORING

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

>> END

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

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

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

NOTE:

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

1.SYSTEM INITIALIZATION

ADP

Н

Α

В

D

Е

INFOID:0000000007471457

Ν

 \circ

Ρ

< BASIC INSPECTION >

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

>> GO TO 2.

2. SYSTEM SETTING

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

>> GO TO 3.

3.MEMORY STORING

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

>> END

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION: Description

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

SYSTEM INITIALIZATION: Special Repair Requirement

INFOID:0000000007471460

INFOID:0000000007471459

INITIALIZATION PROCEDURE

1. STEP-1

Slide the seat to the front edge.

NOTE:

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

>> END

MEMORY STORING

MEMORY STORING: Description

INFOID:0000000007471461

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

MEMORY STORING: Special Repair Requirement

INFOID:0000000007471462

Memory Storage Procedure

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

1.STEP 1

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

>> GO TO 2.

2.STEP 2

Turn ignition switch ON.

>> GO TO 3.

3.STEP 3

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

Revision: 2013 February ADP-10 2012 G Coupe

C BASIC INSECTION >
>> GO TO 4.
4.STEP 4
1. Push set switch.
 NOTE: Memory indicator for which driver seat position is already retained in memory is illuminated for 5 s onds.
 Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 secon Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch. NOTE:
If memory is stored in the same memory switch, the previous memory will be deleted. <u>Do you need linking of Intelligent Key?</u>
YES >> GO TO 6. NO >> GO TO 5.
5. STEP 5
Confirm the operation of each part with memory operation.
>> END
6. STEP 6
Turn ignition switch OFF (LOCK).
>> GO TO 7.
7. STEP 7
 Press and release set switch. Memory switch indicator is illuminated for 5 seconds. During memory switch indicator is illuminated, press Intelligent Key unlock button while pressing memory switch 1 or 2. NOTE:
Memory switch indicator lamp blinks for 5 seconds when registration is complete.
>> GO TO 8.
8.STEP 8
Confirm the operation of each part with memory operation and Intelligent Key interlock operation.
END
>> END SYSTEM SETTING
SYSTEM SETTING: Description
The setting of the automatic driving positioner system can be changed using the set switch.
SYSTEM SETTING : Special Repair Requirement
SETTING PROCEDURE
1 .STEP-1
Set the vehicle to the following condition.
 Ignition position: ACC A/T selector lever: P position (A/T models) Parking brake: Applied only (M/T models)
>> GO TO 2.
2.STEP-2

Revision: 2013 February ADP-11 2012 G Coupe

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

< BASIC INSPECTION >

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

NOTE:

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

>> END.

Α

В

D

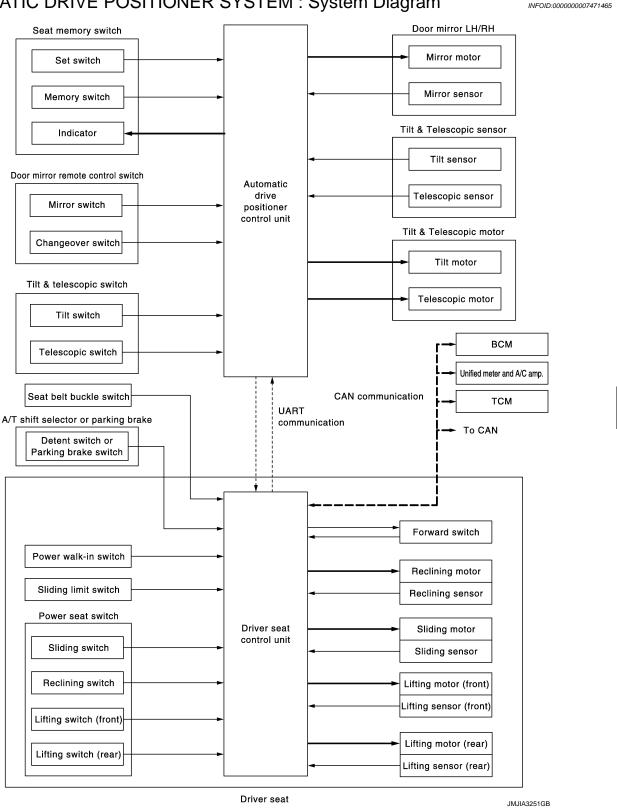
ADP

Ν

SYSTEM DESCRIPTION

AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram



< SYSTEM DESCRIPTION >

AUTOMATIC DRIVE POSITIONER SYSTEM: System Description

INFOID:0000000007471466

OUTLINE

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

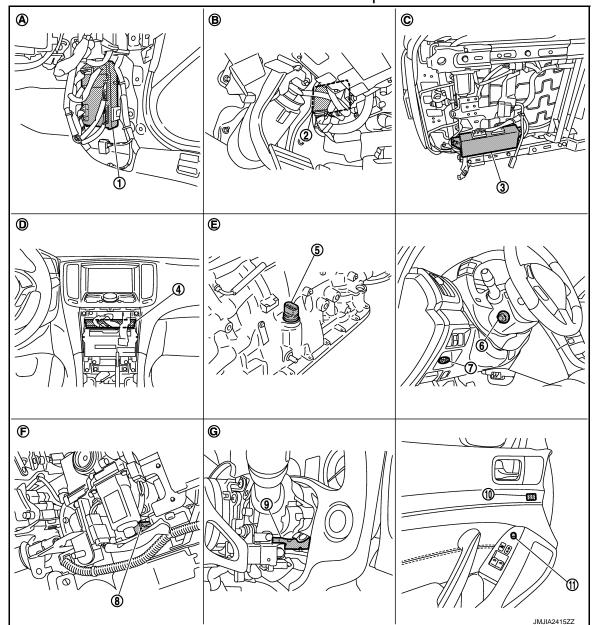
Function	Description
Manual function	The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, tilt & telescopic switch or door mirror remote control switch.
Seat synchronization function	The positions of the steering column and door mirror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

NOTE:

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

< SYSTEM DESCRIPTION >

AUTOMATIC DRIVE POSITIONER SYSTEM: Component Parts Location INFOID:000000007471467



- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- Key slot M22
- Seat memory switch
 D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- B. View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

ADP

Α

В

D

Е

F

Н

K

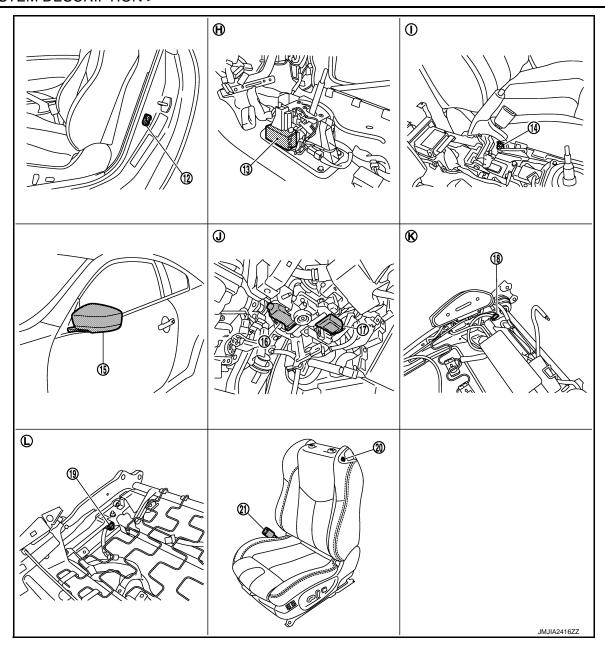
L

M

Ν

 \circ

< SYSTEM DESCRIPTION >

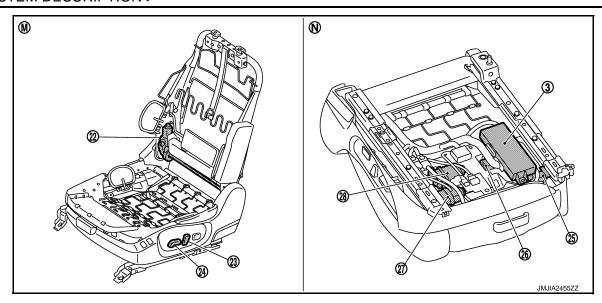


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
 - View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000007471468

CONTROL UNITS

Item	Function
Driver seat control unit	 Main units of automatic drive positioner system. It is connected to the CAN. It communicates with the automatic drive positioner control unit via UART communication.
Automatic drive positioner control unit	 It communicates with the driver seat control unit via UART communication. Perform various controls with the instructions of driver seat control unit. Perform the controls of the tilt & telescopic, door mirror and the seat memory switch.
ВСМ	Transmit the following status to the driver seat control unit via CAN communication. Driver door: OPEN/CLOSE Ignition switch position: ACC/ON Door lock: UNLOCK (with Intelligent Key or driver side door request switch operation) Key ID Key switch: Insert/Pull out Intelligent Key Starter: CRANKING/OTHER
Unified meter and A/C amp.	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.
ТСМ	Transmit the shift position signal (P range) to the driver seat control unit via CAN communication.

INPUT PARTS

Switches

ADP

Н

Α

В

D

Е

Ν

0

< SYSTEM DESCRIPTION >

Item	Function
Key slot	The key switch is installed to detect the key inserted/removed status.
Driver side door switch	Detect front door (driver side) open/close status.
A/T shift selector (detention switch)	Detect the P range position of A/T selector lever. (A/T models)
Parking break switch	Detect the parking brake status. (M/T models)
Set switch	The registration and system setting can be performed with its operation.
Memory switch 1/2	The registration and operation can be performed with its operation.
Power seat switch	The following switch is installed. Reclining switch Lifting switch (front) Lifting switch (rear) Sliding switch The specific parts can be operated with the operation of each switch.
Power walk-in switch	Perform the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detect the front end position of seat sliding during the power walk-in function front-ward operation.
Seat belt buckle switch	Detect the seat belt fastening/releasing condition.
Forward switch	Detect the folded up/folded down condition of seatback that is the operation condition of power walk-in function.
Tilt & telescopic switch	The following switch is installed. Tilt switch Telescopic switch The specific parts can be operated with the operation of each switch.
Door mirror remote control switch	The following switch is installed. • Mirror switch • Changeover switch The specific parts can be operated with the operation of each switch.

Sensors

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

OUTPUT PARTS

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

SLEEP MODE

• The seat control unit adopts the sleep mode to reduce the electric power consumption.

< SYSTEM DESCRIPTION >

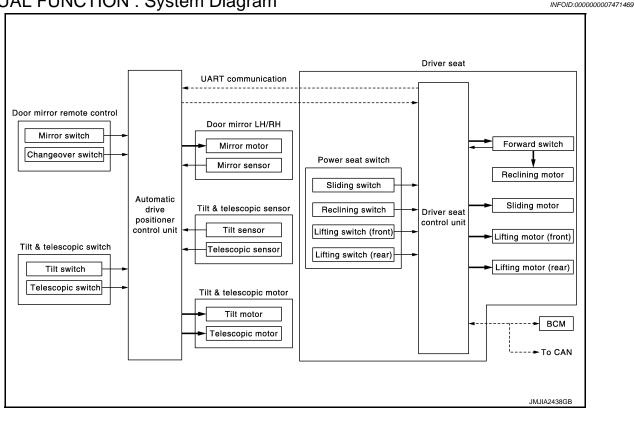
- The sleep mode is activated when all of the following condition are fulfilled.
- Ignition switch turn OFF (steering LOCK position)
- 2. No load is applied to the seat control
- 3. The seat control unit 45seconds timer in not activated
- 4. Set switch and memory switch (1 and 2) turn OFF

WAKE-UP MODE

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

MANUAL FUNCTION

MANUAL FUNCTION: System Diagram



MANUAL FUNCTION: System Description

OUTLINE

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

OPERATION PROCEDURE

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

DETAIL FLOW

Seat

Revision: 2013 February ADP-19 2012 G Coupe

В

Α

D

E

F

G

Н

ADP

Κ

L

M

Ν

Р

INFOID:0000000007471470

< SYSTEM DESCRIPTION >

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

Tilt & Telescopic

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

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

Door Mirror

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

NOTE:

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

< SYSTEM DESCRIPTION >

MANUAL FUNCTION : Component Parts Location

INFOID:0000000007471471

Α

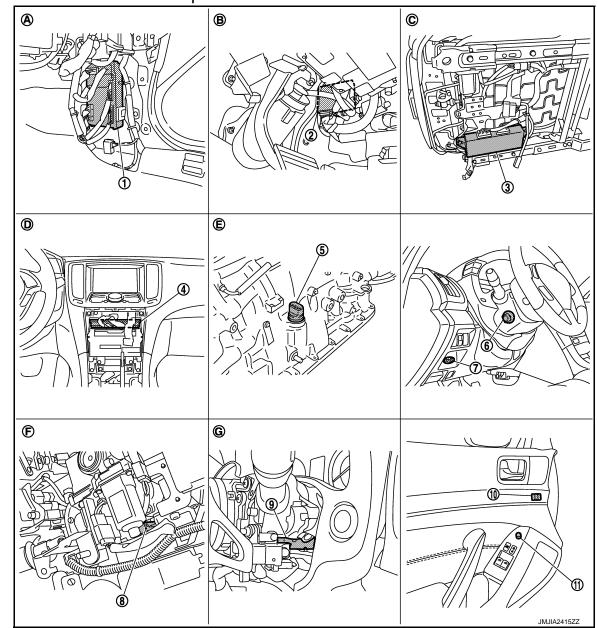
В

D

Е

F

Н



- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- Seat memory switch
 D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- 2. Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- B. View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

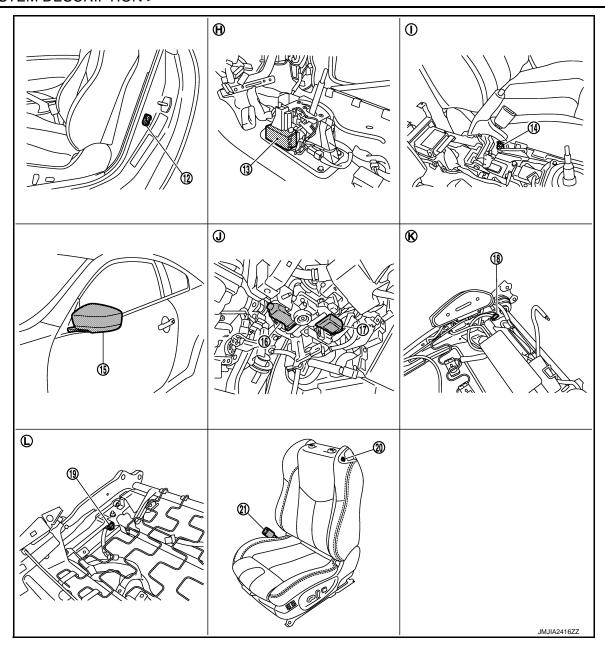
- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M319. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

ADP

K

L

< SYSTEM DESCRIPTION >

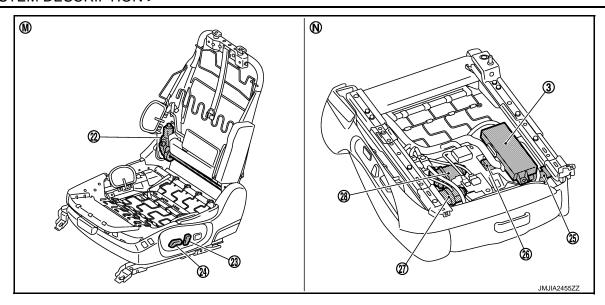


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

MANUAL FUNCTION: Component Description

CONTROL UNITS

Item	Function	
Driver seat control unit	 Operates the specific seat motor with the signal from the power seat switch. Transmits the ignition switch signal (ACC/ON) via UART communication to the automatic drive positioner control unit. 	
Automatic drive positioner control unit	Operates the specific motor with the signal from tilt & telescopic switch or door mirror remote control switch.	
ВСМ	Recognizes the following status and transmits it to the driver seat control unit CAN communication. • Ignition position: ACC/ON	

INPUT PARTS

Switches

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

ADI

INFOID:0000000007471472

K

Α

В

D

Е

Н

L

M

Ν

0

Р

Revision: 2013 February ADP-23 2012 G Coupe

< SYSTEM DESCRIPTION >

Item	Function
Forward switch	Detect folded down or folded up of the seat back.
Door mirror remote control switch	The following switch is installed. • Mirror switch • Changeover switch The specific parts can be operated with the operation of each switch.

Sensors

Item	Function
Tilt & telescopic sensor	Detect the upward/downward & forward/backward position of steering column.
Door mirror sensor (driver side / passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.

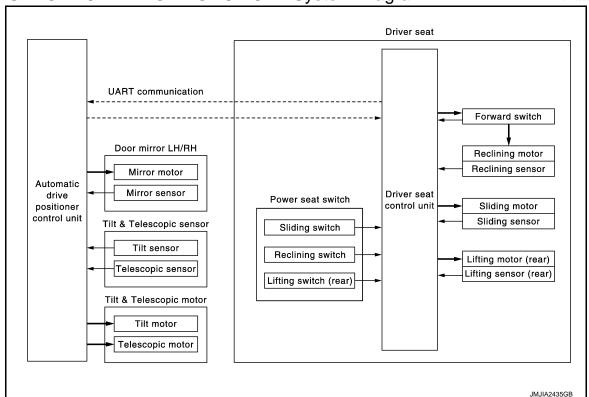
OUTPUT PARTS

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

SEAT SYNCHRONIZATION FUNCTION

SEAT SYNCHRONIZATION FUNCTION : System Diagram

INFOID:0000000007471473



SEAT SYNCHRONIZATION FUNCTION : System Description

INFOID:0000000007471474

OUTLINE

< SYSTEM DESCRIPTION >

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

NOTE:

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

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

OPERATION PROCEDURE

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

NOTE:

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

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

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

OPERATION CONDITION

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

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

DETAIL FLOW

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

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

Revision: 2013 February ADP-25 2012 G Coupe

ADP

Н

Α

В

D

Е

M

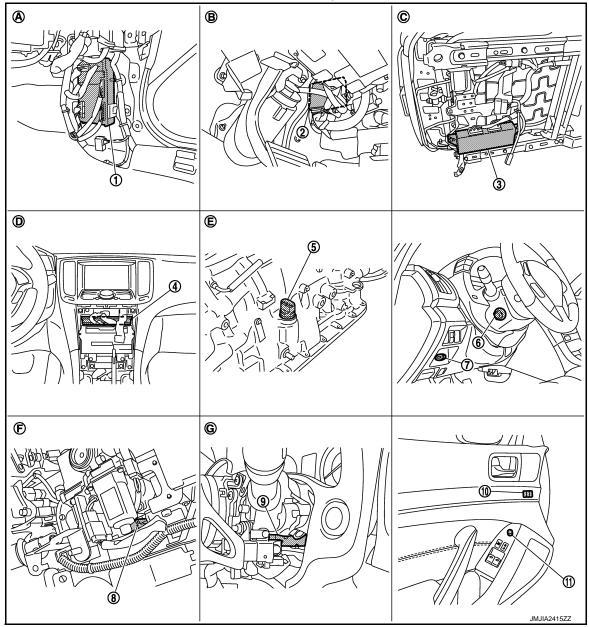
Ν

0

< SYSTEM DESCRIPTION >

SEAT SYNCHRONIZATION FUNCTION: Component Parts Location

INFOID:0000000007471475

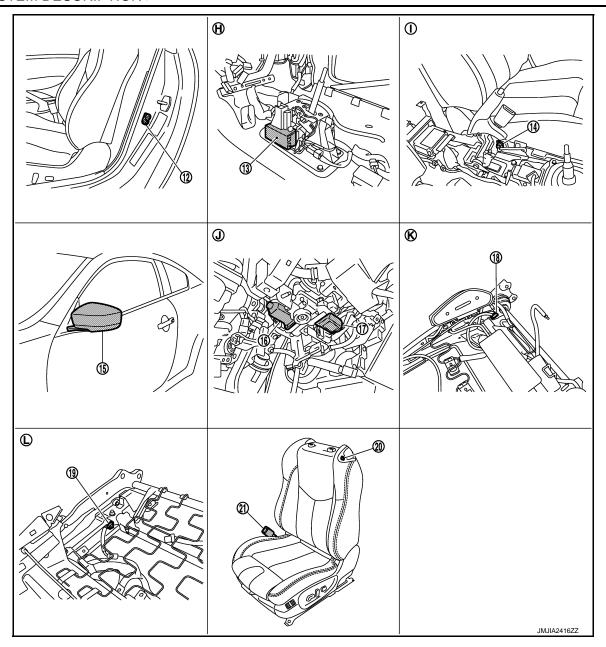


- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- 10. Seat memory switch D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
 - Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

< SYSTEM DESCRIPTION >



- 12. Driver side door switch B16
- 15. Door mirror (driver side)D3
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side) B13
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- A/T shift selector (detention switch)
 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- . View with center console assembly is removed.
- View with seat cushion pad is removed.

- 14. Parking brake switch B14
- 17. Tilt motor M49
- 20. Power walk-in switch B513
- J. View with instrument driver lower panel is removed.

Α

В

C

 D

Е

F

G

Н

ADP

1 \

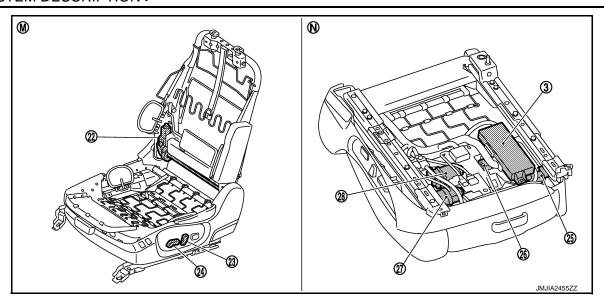
L

M

Ν

 \circ

< SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

SEAT SYNCHRONIZATION FUNCTION: Component Description

INFOID:0000000007471476

CONTROL UNITS

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

INPUT PARTS

Switches

Item	Function
Power seat switch	The following switch is installed. Reclining switch Lifting switch (front) Lifting switch (rear) Sliding switch The specific parts can be operated with the operation of each switch.
Forward switch	Detect folded down or folded up of the seat back.

Sensors

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

< SYSTEM DESCRIPTION >

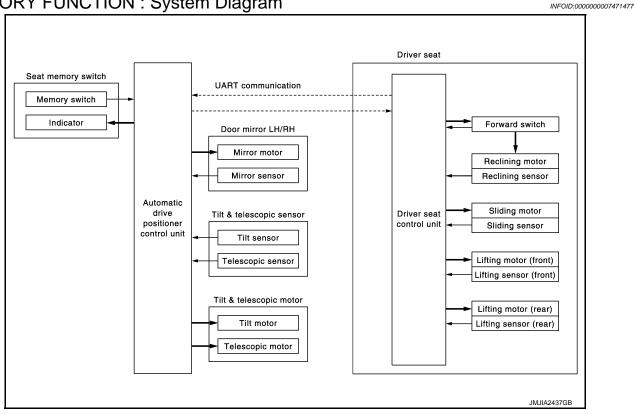
Item	Function
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the frontward/rearward position of seat.

OUTPUT PARTS

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

MEMORY FUNCTION

MEMORY FUNCTION: System Diagram



MEMORY FUNCTION: System Description

OUTLINE

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

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

OPERATION PROCEDURE

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

OPERATION CONDITION

ADP-29 Revision: 2013 February 2012 G Coupe

Ν

INFOID:0000000007471478

M

Α

В

D

Е

ADP

< SYSTEM DESCRIPTION >

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

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

DETAIL FLOW

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

< SYSTEM DESCRIPTION >

MEMORY FUNCTION: Component Parts Location INFOID:0000000007471479 Α B **©** В D Е Œ **(D)** F Н (G Ð ADP JMJIA2415ZZ M BCM M118, M119, M122, M123 Automatic drive positioner control unit 3. Driver seat control unit B503, B504 2. M51, M52 Unified meter and A/C amp. M67 5. A/T assembly F51 6. Tilt & telescopic switch M31 Ν 9. Key slot M22 Tilt sensor M48 Telescopic sensor M48 10. Seat memory switch 11. Door mirror remote control switch D5 D17 C. Dash side lower (passenger side) View with instrument driver lower Backside of seat cushion (driver side)

er and upper removed

View with steering column cover low-

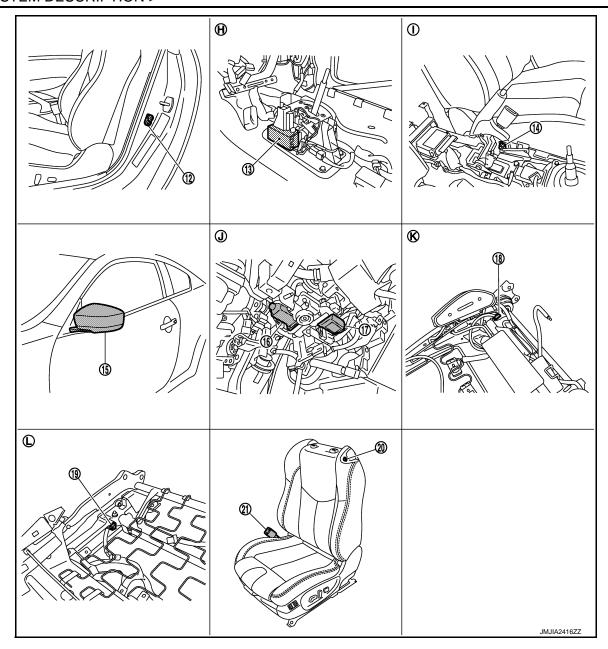
Behind cluster lid C

Revision: 2013 February

D.

- panel removed (Remove 4WAS front control unit with 4WAS models)
- A/T assembly (TCM is built in A/T assembly)
- View with instrument driver lower panel removed

< SYSTEM DESCRIPTION >

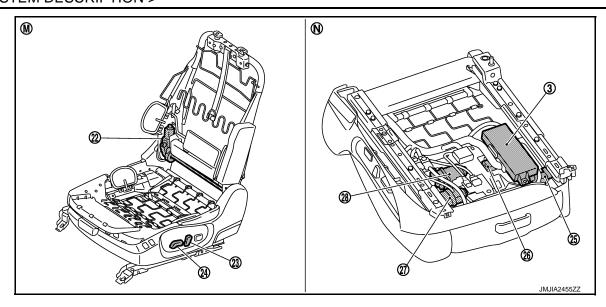


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

MEMORY FUNCTION: Component Description

CONTROL UNITS

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

INPUT PARTS

Switches

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

Sensors

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

. . . .

Н

INFOID:0000000007471480

Α

В

D

Е

K

L

M

Ν

0

< SYSTEM DESCRIPTION >

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

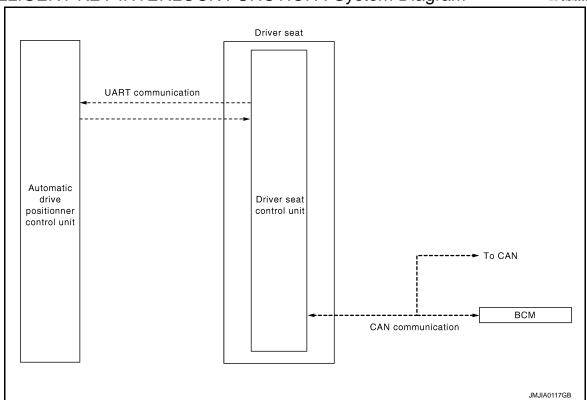
OUTPUT PARTS

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

INTELLIGENT KEY INTERLOCK FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION: System Diagram

INFOID:0000000007471481



INTELLIGENT KEY INTERLOCK FUNCTION: System Description

INFOID:0000000007471482

OUTLINE

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

OPERATION PROCEDURE

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

NOTE

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

NOTE:

< SYSTEM DESCRIPTION >

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

OPERATION CONDITION

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

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

DETAIL FLOW

Order	Input	Output	Control unit condition
1	Door unlock signal (CAN) Key ID signal (CAN)	_	Driver seat control unit receives the door unlock signal and the key ID signal from BCM when unlocking the door with Intelligent Key or driver side door request switch.
2	_	_	Driver seat control unit performs the memory function.

ADP

Α

В

С

D

Е

F

Н

Κ

L

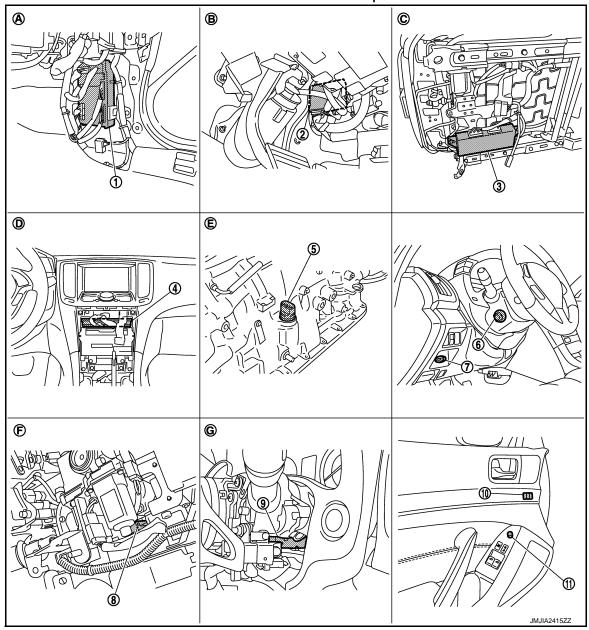
M

Ν

0

< SYSTEM DESCRIPTION >

INTELLIGENT KEY INTERLOCK FUNCTION: Component Parts Location INFOID-000000007471483

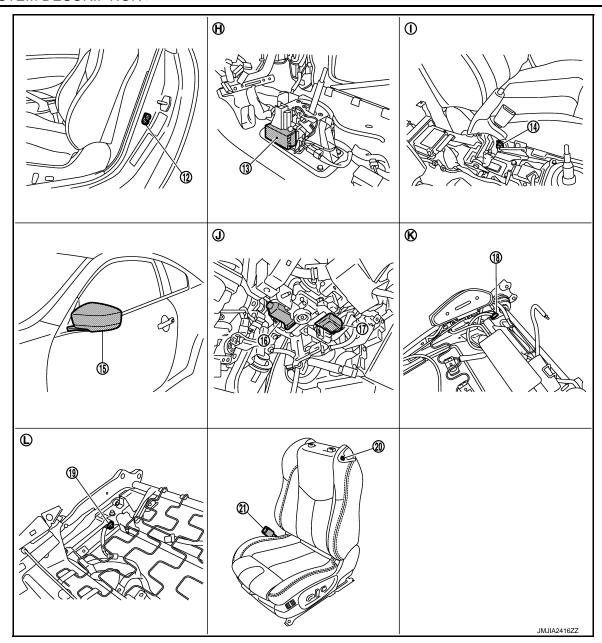


- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- 10. Seat memory switch D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- F. View with instrument driver lower panel removed

< SYSTEM DESCRIPTION >



- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- A/T shift selector (detention switch)
 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- . View with center console assembly is removed.
- View with seat cushion pad is removed.

- 14. Parking brake switch B14
- 17. Tilt motor M49
- 20. Power walk-in switch B513
- J. View with instrument driver lower panel is removed.

Α

В

С

 D

Е

F

G

Н

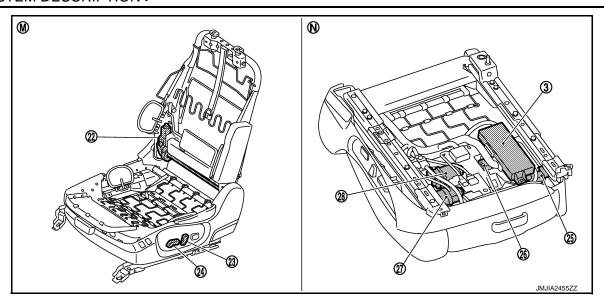
ADP

M

N

 \circ

< SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

INTELLIGENT KEY INTERLOCK FUNCTION : Component Description

INFOID:0000000007471484

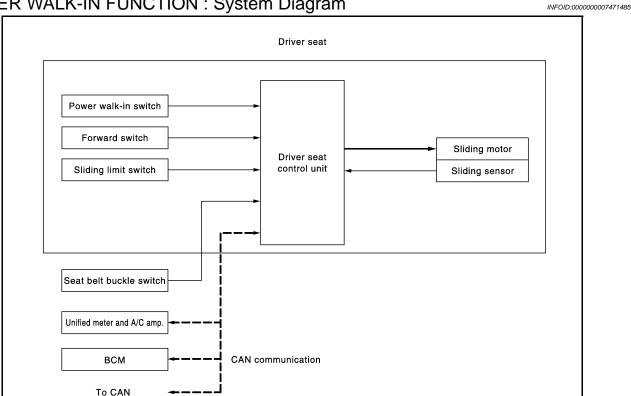
CONTROL UNITS

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

POWER WALK-IN FUNCTION

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION: System Diagram



POWER WALK-IN FUNCTION: System Description

OUTLINE

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

Forward Operation

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

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

Backward Operation

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

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

OPERATION PROCEDURE

Forward Operation

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

Backward Operation

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

OPERATION CONDITION

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

ADP

Н

INFOID:0000000007471486

Α

В

D

Ν

Р

Revision: 2013 February

ADP-39

2012 G Coupe

< SYSTEM DESCRIPTION >

Forward Operation

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

Backward Operation

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

DETAIL FLOW

Forward Operation

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

Backward Operation

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

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000007471487

Α

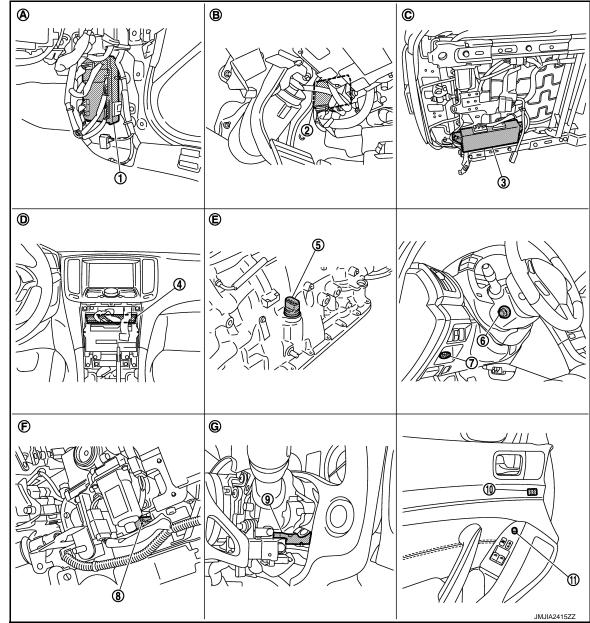
В

D

Е

F

Н



- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- Seat memory switch
 D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- B. View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

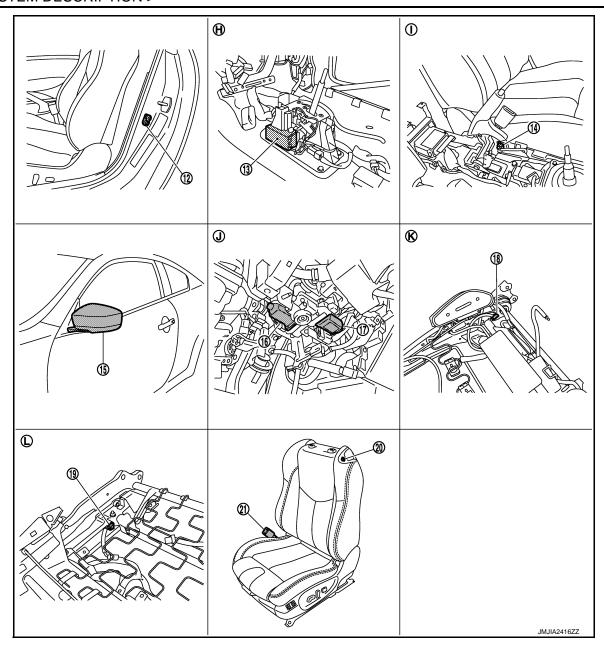
- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

ADP

K

L

< SYSTEM DESCRIPTION >

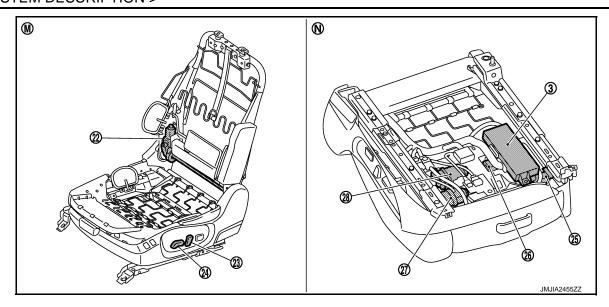


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

< SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

POWER WALK-IN FUNCTION: Component Description

CONTROL UNITS

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

INPUT PARTS

Switches

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

Sensors

Н

INFOID:0000000007471488

Α

В

D

Е

M

Ν

< SYSTEM DESCRIPTION >

Sliding sensor Detect th	e forward/backward position of seat.

OUTPUT PARTS

Item	Function			
Sliding motor	Slide the seat forward/backward.			

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

CONSULT Function

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

DIAGNOSTIC MODE

SULT.

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

SELF DIAGNOSTIC RESULTS

Refer to ADP-181, "DTC Index".

DATA MONITOR

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

ADP-45 Revision: 2013 February 2012 G Coupe

Е

Α

В

C

D

INFOID:0000000007471490

F

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

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

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

ACTIVE TEST

CAUTION:

When driving vehicle, never perform active test.

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

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

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

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

Test item	Description
TILT MOTOR*	Activates/deactivates the tilt motor.
TELESCO MOTOR*	Activates/deactivates the telescopic motor.
MIRROR MOTOR RH*	Activates/deactivates the mirror motor (passenger side).
MIRROR MOTOR LH*	Activates/deactivates the mirror motor (driver side).
MEMORY SW INDCTR*	Turns ON/OFF the memory indicator.

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

D

Α

В

Е

F

G

Н

(D)

.

L

M

Ν

0

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID.000000007471491

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

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name DTC detecting condition		Possible cause
U1000	CAN COMM CIR- CUIT	 Driver seat control unit cannot communicate to other control units. Driver seat control unit cannot communicate for more than the specified time. 	Harness or connectors (CAN communication line is open or shorted)

DTC CONFIRMATION PROCEDURE

1.STEP 1

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

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471493

Refer to LAN-16, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

INFOID:0000000007471494

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

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:000000007471495

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

First perform diagnosis for B2126 if B2126 is detected.

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

2. Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471497

Α

В

D

ADP

N

1. CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

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

(+) Sliding motor		(–)	Voltage (V) (Approx.)	L
Connector	Terminals		(πρριολ.)	
B525	35	Ground	0	M
D020	42	Ground	U	IVI

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.check driver seat control unit output signal

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

	(+) Driver seat control unit		Voltage (V) (Approx.)	
Connector	Terminals		(/ .pp. 0/)	
B525	35	Ground	0	
D020	42	Ground	0	

Is the inspection result normal?

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-207</u>, "Removal and Installation"

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description INFOID:000000007471498

Α

В

D

Е

F

M

Ν

INFOID:0000000007471500

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

First perform diagnosis for B2126 if B2126 is detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	
B2113	SEAT RECLINING	The driver seat control unit detects the output of re- clining motor output terminal for 0.1 second or more even if the reclining switch is not input.		1

DTC CONFIRMATION PROCEDURE

1. PEFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+) Reclining motor		(–)	Voltage (V) (Approx.)	
Connector	Terminals		(,,	
B523	15	Ground	0	
D023	71	Ground	U	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+) Driver seat control unit		(–)	Voltage (V) (Approx.)	
Connector	Terminals		(Approx.)	
B523	15 71	Ground	0	

Is the inspection result normal?

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-207</u>, "Removal and Installation".

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

B2118 TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B2118 TILT SENSOR

Description INFOID:0000000007471501

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TILT SENSOR SIGNAL

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

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

Is the value normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK TILT SENSOR CIRCUIT

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

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

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

ADP

Ν

Р

INFOID:0000000007471503

Α

В

D

Е

B2118 TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TILT SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TILT SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TILT SENSOR GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> Replace tilt & telescopic sensor.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

B2118 TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

В

Α

С

D

Е

F

G

Н

ADP

...

Κ

L

 \mathbb{N}

Ν

0

Ρ

B2119 TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B2119 TELESCOPIC SENSOR

Description INFOID:000000007471504

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC is detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471506

1. CHECK TELESCOPIC SENSOR SIGNAL

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

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

Is the valve normal?

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

2.CHECK TELESCOPIC SENSOR CIRCUIT

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

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

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

B2119 TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TELESCOPIC SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK TELESCOPIC SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

${f 5.}$ CHECK TELESCOPIC SENSOR GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> Replace tilt & telescopic sensor.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

ADP

Α

D

Е

F

IVI

Ν

IN

B2119 TELESCOPIC SENSOR

>> INSPECTION END

B2126 DETENT SW

Description INFOID:0000000007471507

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

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

DTC Logic INFOID:0000000007471508

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

CHECK DTC WITH "BCM"

Check "Self diagnostic result" for BCM using CONSULT.

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

>> Check the DTC. Refer to BCS-72, "DTC Index". YES

NO >> GO TO 2.

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

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

Is the DTC detected?

YES >> Check the DTC. Refer to MWI-85, "DTC Index".

NO >> GO TO 3.

3.CHECK DETENTION SWITCH SIGNAL

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

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

Is the status normal?

YES >> GO TO 5.

>> GO TO 4. NO

4. CHECK DETENTION SWITCH CIRCUIT

ADP

INFOID:0000000007471509

Α

D

M

Ν

B2126 DETENT SW

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

B2127 PARKING BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2127 PARKING BRAKE SWITCH

Description INFOID:0000000007471510

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

DTC Logic INFOID:0000000007471511

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.STEP 1

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

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471512

1. CHECK PARKING BRAKE SWITCH SIGNAL

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

Monitor item	Condition		Status
PARK BRAKE SW	Parking brake	Applied	ON
FAIRE DIVARLE SW	Faiking blake	Release	OFF

Is the status normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

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

ADP-61 Revision: 2013 February 2012 G Coupe

ADP

Α

В

D

Е

F

Н

Ν

B2127 PARKING BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK PARKING BRAKE SWITCH HARNESS CONTINUITY

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK PARKING BRAKE SWITCH

Refer to ADP-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Adjust or replace parking brake switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471513

1. CHECK PARKING BRAKE SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Adjust or replace parking brake switch.

B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description INFOID:0000000007471514

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK UART COMMUNICATION LINE CONTINUITY

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

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

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

Driver seat	Driver seat control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	1	Giouna	Not existed	
D3U3	17		Not existed	

Is the inspection result normal?

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

NO >> Repair or replace harness.

ADP

M

INFOID:0000000007471516

Α

D

Е

Revision: 2013 February ADP-63 2012 G Coupe

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000007471517

1. CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M119	13		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000007471518

NOTE:

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

1. CHECK POWER SUPPLY CIRCUIT

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Voltage (V) (Approx.)	
Driver seat control unit				
Connector	Terminal		(11 -)	
DEO.4	33	Ground	Pottonyvoltogo	
B504	40		Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

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

2.CHECK GROUND CIRCUIT

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

Driver seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B503	32	Giouna	Existed	
B504	48	1	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT: Special Repair Requirement

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

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

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure

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

1. CHECK POWER SUPPLY CIRCUIT

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

(+)			Voltage (V) (Approx.)	
Automatic drive positioner control unit		(–)		
Connector	Terminal		,	
M52	34	Ground	Battery voltage	
IVIJZ	39	Ground	Dattery Voltage	

Is the inspection result normal?

>> GO TO 2.

Revision: 2013 February

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

NO - 2 >> Check circuit breaker.

2.CHECK GROUND CIRCUIT

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

ADP

Α

В

Е

F

Н

INFOID:0000000007471519

INFOID:0000000007471520

2012 G Coupe

M

N

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Special Repair Requirement

INFOID:0000000007471521

1. PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

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

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

Description INFOID:0000000007471522

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

Component Function Check

INFOID:0000000007471523

Α

D

Е

F

1. CHECK FUNCTION

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

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

Is the indication normal?

>> INSPECTION END YES

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

Diagnosis Procedure

INFOID:0000000007471524

1. CHECK SLIDING SWITCH SIGNAL

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

(+) Power seat switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ .pp. 0/)	
B510	11	Ground	Pottory voltage	
B310	26	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check sliding switch circuit

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

Driver seat	control unit	Power seat switch		Power seat switch Continuity		Continuity
Connector	Terminal	Connector Terminal		Continuity		
B503	11	B510	11	Existed		
26	B 310	26	LXISIEU			

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

ADP

M

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH

Refer to ADP-68, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-210, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471525

1. CHECK SLIDING SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-210, "Removal and Installation"</u>.

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SWITCH

Description INFOID:0000000007471526

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

Component Function Check

INFOID:0000000007471527

Α

D

Е

F

1. CHECK FUNCTION

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

Monitor item	Condition		Status
RECLINE SW-FR	Declining quitch (forward)	Operate	ON
	Reclining switch (forward)	Release	OFF
RECLINE SW-RR	Reclining switch (backward)	Operate	ON
RECLINE SW-RR	Recilling Switch (backward)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471528

1. CHECK RECLINING SWITCH SIGNAL

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

·	(+) er seat switch (-) Voltage (V) (Approx.)		Voltage (V) (Approx.)
Connector	Terminal		(1.444.67.1)
B510	12	Ground	Rattory voltago
B310	27	Giodila	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

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

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	12	B510	12	Existed
5503	27	5310	27	LAISIEU

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

ADP

K

1

M

IVI

N

0

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	— Continuity — Ground	Continuity
B503	12	Giouria	Not existed
D303	27		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK RECLINING SWITCH

Refer to ADP-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-210, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471529

1. CHECK RECLINING SWITCH

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

Power seat switch		Condition		Continuity
Terr	Terminal			
	12 Reclining sw	Reclining switch (backward)	Operate	Existed
32	12	(backward)	Release	Not existed
32	27	Reclining switch (forward)	Operate	Existed
	21	Recilling Switch (lonward)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-210, "Removal and Installation".

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description INFOID:0000000007471530

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

Component Function Check

INFOID:0000000007471531

Α

В

D

Е

F

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471532

1. CHECK LIFTING SWITCH SIGNAL

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

	(+) ower seat switch (-) Voltage (V) (Approx.)		Voltage (V) (Approx.)
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B510	13	Ground	Pattory voltage
D310	28	Giouna	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

Driver seat	control unit	Power seat switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	13	B510	13	Existed	
В303	28	B310	28	LXISTEG	

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

ADP

K

M

2012 G Coupe

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	13	Ground	Not existed
D303	28		INOL EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

 ${f 3.}$ CHECK LIFTING SWITCH (FRONT)

Refer to ADP-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>ADP-210</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471533

1. CHECK LIFTING SWITCH (FRONT)

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

Power seat switch		Condition		Continuity
Terr	minal	Condition		Continuity
	13 L	Lifting switch front (down)	Operate	Existed
32	13	Litting Switch from (down)	Release	Not existed
32	28 Lifting switch front (up)	Lifting switch front (up)	Operate	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-210, "Removal and Installation".

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description INFOID:0000000007471534

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

Component Function Check

INFOID:0000000007471535

Α

В

D

Е

F

1. CHECK FUNCTION

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

Monitor item	Condition	Status	
LIET DD CW LID	Lifting quitch root (up)	Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
LII I IXIX SVV-DIN	Litting Switch real (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471536

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

	(+) Power seat switch		Voltage (V) (Approx.)
Connector	Terminal		(1.444.67.1)
B510	14	Ground	Pottory voltage
D310	29	Giouna	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seat	control unit	Power sear switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	14	B510	14	Existed
В303	29	B 310	29	LXISIEU

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

ADP

11

M

. .

Ν

0

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	14	Glound	Not existed
D303	29		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Refer to ADP-74, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-210, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471537

1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch		Condition		Continuity	
Terr	ninal	Condi	lion	Continuity	
	14	Lifting switch rear (down)	Operate	Existed	
32	14		Litting Switch rear (down)	Release	Not existed
32	29	Lifting quitab room (up)	Operate	Existed	
	29	Lifting switch rear (up)	Release	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-210, "Removal and Installation".

FORWARD SWITCH

Description INFOID:000000007471538

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

Component Function Check

1. CHECK FUNCTION

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

Test item	Condition		Status
FORWARD SW	Driver side seat back	Folded up	ON
I OKWARD 3W	Driver side seat back	Folded down	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK FORWARD SWITCH SIGNAL

1. Turn ignition switch OFF.

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

(Forwar	+) d switch	(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			() (
B512	41	Ground	Seat back is folded up and power walk-in switch pressed	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK FORWARD SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation"

NO >> Repair or replace harness.

3. FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

ADP

Н

Α

В

D

Е

INFOID:0000000007471539

INFOID:0000000007471540

M

Ν

FORWARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Forward switch			Continuity
Connector	Terminal	Ground	Continuity
B512	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FORWARD SWITCH

Refer to ADP-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-163, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471541

1. CHECK FORWARD SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-163, "Exploded View"</u>.

SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH

Description INFOID:0000000007471542

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

Component Function Check

1. CHECK FUNCTION

- Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT.
- Check the seat belt buckle switch signal under the following condition.

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

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to ADP-77, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK SEAT BELT BUCKLE SWITCH SIGNAL

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

(+) Seat belt buckle switch		(–)	Voltage (V) (Approx.)
Connector	Terminal		(/ .pp. 3/)
B13	1	Ground	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

3.check seat belt buckle switch ground circuit

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

ADP

Α

В

D

Е

F

Н

INFOID:0000000007471543

INFOID:0000000007471544

M

Ν

SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEAT BELT BUCKLE SWITCH

Refer to ADP-78, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (Built in seat belt buckle). Refer to <u>SE-163, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471545

1. CHECK SEAT BELT BUCKLE SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (Built in seat belt buckle). Refer to <u>SE-163, "Exploded View"</u>.

SLIDING LIMIT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING LIMIT SWITCH

Description INFOID:0000000007471546

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

>> Go to ADP-79, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK SLIDING LIMIT SWITCH SIGNAL

Turn ignition switch OFF.

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

(+) Sliding limit switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,	
B514	4	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING LIMIT SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation"

NO >> Repair or replace harness.

3.check sliding limit switch ground circuit

Check continuity between sliding limit switch harness connector and ground.

ADP

Α

В

D

Е

F

Н

INFOID:0000000007471547

INFOID:0000000007471548

K

M

Ν

SLIDING LIMIT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding limit switch			Continuity	
Connector	Connector Terminal		Continuity	
B514	32		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

f 4.CHECK SLIDING LIMIT SWITCH

Refer to ADP-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-163. "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471549

1. CHECK SLIDING LIMIT SWITCH

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

Sliding limit switch		Co	adition	Continuity		
Connector	Terr	minal	Condition		Continuity	
B514	4	32	Soot sliding	Front edge	Existed	
D314	4	32	Seat sliding	Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-163, "Exploded View"</u>.

POWER WALK-IN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

POWER WALK-IN SWITCH

Description INFOID:000000007471550

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

Component Function Check

1.check function

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

Test item	Condition		Status
WALK-IN SW	Power walk-in switch	Pressed	ON
WALK-IN SW	FOWER WAIK-III SWILCH	Released	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK POWER WALK-IN SWITCH SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK POWER WALK-IN SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

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

ADP

Α

D

Е

INFOID:0000000007471551

INFOID:0000000007471552

M

Ν

0

POWER WALK-IN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK POWER WALK-IN SWITCH

Refer to ADP-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch (Built in walk-in lever). Refer to <u>SE-163. "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471553

1. CHECK POWER WALK-IN SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch (Built in walk-in lever). Refer to <u>SE-163, "Exploded View"</u>.

TILT SWITCH

Description INFOID:0000000007471554

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

Component Function Check

INFOID:0000000007471555

Α

D

Е

F

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471556

1. CHECK TILT SWITCH SIGNAL

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

(+) Tilt & telescopic switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(/ ,pp. 5/)	
M31	4	Ground	Pottory voltage	
IVIO I	5	Giouna	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TILT SWITCH CIRCUIT

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

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

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

ADP

K

L

N /I

M

. .

Ν

0

Ρ

TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK TILT SWITCH

Refer to ADP-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to <u>ADP-212, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471557

1. CHECK TILT SWITCH

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

Tilt & telescopic switch Terminal		Condition		Continuity
1	4 Till Switch (up)	The Switch (up)	Release	Not existed
1	F	Tilt switch (down)	Operate	Existed
	5		Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to ADP-212, "Removal and Installation".

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SWITCH

Description INFOID:0000000007471558

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

Component Function Check

INFOID:0000000007471559

Α

D

Е

F

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471560

1. CHECK TELESCOPIC SWITCH SIGNAL

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

(+) Tilt & telescopic switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		(· + · · · · · ·)
M31	2	Ground	Rattory voltago
IVIST	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TELESCOPIC SWITCH CIRCUIT

Turn ignition switch OFF.

2. Disconnect automatic drive positioner control unit connector.

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

Automatic drive p	ositioner control unit	Tilt & telescopic switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	M51 11 M31	M21	2	Existed
IVIO I	27	M31	3	LAISIEU

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

ADP

K

1

M

N

0

TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	positioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M51	11	Ground	Not existed	
IVIOI	27	-	Not existed	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK TELESCOPIC SWITCH

Refer to ADP-86, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to ADP-212, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471561

1. CHECK TELESCOPIC SWITCH

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

	copic switch ninal	- Conditi	on	Continuity
	2	Telescopic switch (forward)	Operate	Existed
1	2		Release	Not existed
ı	3	Telescopic switch (backward)	Operate	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to ADP-212, "Removal and Installation".

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY SWITCH

Description INFOID:0000000007471562

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

Component Function Check

1. CHECK FUNCTION

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

Monitor item	Condition		Status
OFT OW	SET SW	Push	ON
SET SW	SELSW	Release	OFF
MENODY CIALA		Push	ON
MEMORY SW 1	Memory switch 1	Release	OFF
MEMORY OW		Push	ON
MEMORY SW 2	Memory switch 2	Release	OFF

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471564

1. CHECK SEAT MEMORY SWITCH SIGNAL

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

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

Is the inspection result normal?

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

2.check memory switch circuit

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

ADP

Α

D

Е

INFOID:0000000007471563

K

M

Ν

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK MEMORY SWITCH GROUND CIRCUIT

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

Seat memory switch			Continuity
Connector	Terminal	Ground	Continuity
D5	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEAT MEMORY SWITCH

Refer to ADP-88, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat memory switch. Refer to ADP-209, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471565

1. CHECK SEAT MEMORY SWITCH

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

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Seat mem	Seat memory switch		Condition	
Terr	ninal		Jonation	Continuity
	0 0 0 0 0	Set switch	Push	Existed
	3	Set switch	Release	Not existed
4	4	Memory switch 1	Push	Existed
4	ı		Release	Not existed
	2	Mamany avvitab 2	Push	Existed
	2	Memory switch 2	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch.Refer to <u>ADP-209</u>, "Removal and Installation".

Α

В

С

D

Е

F

G

Н

ADP

K

L

M

Ν

0

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000007471566

It operates angle of the door mirror face.

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

MIRROR SWITCH: Component Function Check

INFOID:0000000007471567

1. CHECK MIRROR SWITCH FUNCTION

Check the operation on "MIR CON SW-UP/DN" and "MIR CON SW-RH/LH" in the "DATA MONITOR" mode using CONSULT.

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

Is the inspection result normal?

YES >> Mirror switch function is OK.

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

MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000007471568

1. CHECK MIRROR SWITCH INPUT SIGNAL

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

	(+)		Voltage (V) (Approx.)	
Door mirror re	Door mirror remote control switch			
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,	
	4	- Ground	5	
D17	12			
DIT	13			
	15			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

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

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	ositioner control unit	Door mirror remote control switch		Continuity
Connector	Terminal	Connector Terminal		
	3	D17	15	
M51	4		13	Existed
I GIVI	19		12	Existed
	20		4	

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

3.check door mirror remote control switch ground circuit

Turn ignition switch OFF.

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK MIRROR SWITCH

Check door mirror remote control switch (mirror switch).

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (mirror switch). Refer to MIR-39, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

1. CHECK MIRROR SWITCH

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

ADP

Α

В

D

Е

F

Н

L

M

IVI

Ν

INFOID:0000000007471569

_

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-39, "Removal and Installation".

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

CHANGEOVER SWITCH: Component Function Check

INFOID:0000000007471571

INFOID:0000000007471570

1. CHECK CHANGEOVER SWITCH FUNCTION

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

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

Is the inspection result normal?

YES >> Changeover switch function is OK.

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

CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000007471572

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CHANGEOVER SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

3.check door mirror remote control switch ground circuit

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (changeover switch). Refer to MIR-39, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

1. CHECK CHANGEOVER SWITCH

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

ADP

Α

В

D

Е

K

M

. . .

Ν

INFOID:00000000007471573

Revision: 2013 February ADP-93 2012 G Coupe

< DTC/CIRCUIT DIAGNOSIS >

Door mirror remote control switch		Con	dition	Continuity	
Connector	Terr	ninal	Con	uition	Continuity
	10			LEFT	Existed
D47	10	7	Change aver aveitab	Other than above	Not existed
D17	/		Changeover switch	RIGHT	Existed
	11			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-39, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000007471574

Α

В

D

Е

F

Н

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

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

Power seat switch			Continuity
Connector	Terminal	Ground	Continuity
B510	32		Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check reclining switch.

Refer to ADP-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power seat switch. Refer to <u>ADP-210</u>, "Removal and Installation".

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

ADP

L

K

M

Ν

0

TILT &TELESCOPIC SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TILT &TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000007471575

1. CHECK POWER TILT & TELESCOPIC SWITCH GROUND CIRCUIT

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

Tilt & telescopic switch			Continuity
Connector	Terminal	Ground	Continuity
M31	1		Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.check power tilt & telescopic switch internal circuit

Check tilt switch.

Refer to ADP-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace tilt & telescopic switch. Refer to ADP-212, "Removal and Installation".

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

DETENTION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DETENTION SWITCH

Description INFOID:000000007471576

Detention switch is installed on A/T shift selector. It is turned OFF when the Selector lever is in P position. The driver seat control unit judges that the Selector lever is in P position if continuity does not exist in this circuit.

Component Function Check

INFOID:0000000007471577

Α

D

Е

Н

ADP

Ν

Р

1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "DETENT SW" signal in the "Data monitor" mode using CONSULT.
- 3. Check detention switch signal under the following conditions.

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure INFOID:000000007471578

1. CHECK DTC WITH "BCM"

Check "Self Diagnostic Result" for BCM using CONSULT.

<u>Is the either DTC B2601, B2602, B2603, B2604 or B2605 detected?</u>

YES >> Check the DTC. Refer to BCS-72, "DTC Index".

NO >> GO TO 2.

2.CHECK DETENTION SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect A/T shift selector harness connector.
- 3. Turn ignition switch ON.
- Check voltage between A/T shift selector harness connector and ground.

	+)		_\tag{\dagger}	
A/T shift selector		(-)	Voltage (V) (Approx.)	
Connector	Connector Terminal		,	
M137	11	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.check detention switch circuit

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

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

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

DETENTION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK DETENTION SWITCH

Refer to ADP-98, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace A/T shift selector. Refer to TM-267, "2WD : Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471579

1. CHECK DETENTION SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect A/T shift selector connector.
- Check A/T shift selector terminals.

	A/T shift selector		Condition		Continuity	
Connector	Terr	minal	Condition		Continuity	
M137	10	11	Selector lever	P position	Existed	
IVI 137	10	11	Selector level	Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector. Refer to TM-267, "2WD : Removal and Installation".

PARKING BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH

Description INFOID:000000007471580

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

Component Function Check

INFOID:0000000007471581

Α

D

Е

F

1. CHECK PARKING BRAKE SWITCH INPUT SIGNAL

- 1. Select "PARK BRAKE SW" in the "Data Monitor" mode using CONSULT.
- 2. Check parking brake switch signal under the following conditions.

Monitor item	Condition		Status
PARK BRAKE SW	Parking brake	Applied	ON
FAIR BRARL SW	Faiking blake	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-99. "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000007471582

1. CHECK PARKING BRAKE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect A/T shift selector harness connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between parking brake switch harness connector and ground.

	(+) Parking brake switch		Voltage (V) (Approx.)	
Connector	Terminal		(/ ipprox.)	
B14	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

Revision: 2013 February

YES >> Replace driver seat control unit. Refer to <u>ADP-207</u>, "Removal and Installation".

NO >> Repair or replace harness.

M

N

Р

ADP

ADP-99 2012 G Coupe

PARKING BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK PARKING BRAKE SWITCH

Refer to ADP-100, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Adjust or replace parking brake switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000007471583

1. CHECK PARKING BRAKE SWITCH

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

Parking brake		Condition		Continuity	
Terminal					
Ground part of parkin		Parking brake	Applied	Existed	
1	brake switch		Release	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO-1 >> Adjust or replace parking brake switch (pedal type). Refer to PB-6. "PEDAL TYPE: Exploded View".

NO-2 >> Adjust or replace parking brake switch (lever type). Refer to PB-7, "LEVER TYPE: Exploded View".

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR

Description INFOID:0000000007471584

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

Component Function Check

1. CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-101, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007471586

1. CHECK SLIDING SENSOR SIGNAL

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

(+) Driver seat con	Driver seat control unit		Cond	dition	Voltage (V) (Approx.)
Connector	Terminal				
B503	24	Ground	Seat sliding	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

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

ADP

Α

В

D

Е

INFOID:0000000007471585

K

L

N/I

N

 \circ

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-207</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK SLIDING SENSOR GROUND CIRCUIT 1

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

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

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK SLIDING SENSOR GROUND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> Replace sliding sensor (Built in seat slide cushion frame). Refer to <u>ST-21, "WITH ELECTRIC MOTOR: Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-207</u>, "Removal and Installation".

ADP

Α

В

C

D

Е

F

Н

K

L

M

Ν

0

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SENSOR

Description INFOID:000000007471587

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

Component Function Check

INFOID:0000000007471588

1. CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-104, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007471589

1. CHECK RECLINING SENSOR SIGNAL

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

(+) Driver seat cor	(+) Driver seat control unit		(–) Condition		Voltage (V) (Approx.)	
Connector	Terminal				(дриох.)	
B503	9	Ground	Seat reclining	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> GO TO 2.

2. CHECK RECLINING SENSOR CIRCUIT

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

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK RECLINING SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

f 4.CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK RECLINING SENSOR GROUND CIRCUIT 1

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

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

ADP-105 Revision: 2013 February 2012 G Coupe

ADP

Α

В

D

Е

F

K

Ν

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK RECLINING SENSOR GROUND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> Replace reclining motor. Refer to <u>SE-163, "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-207, "Removal and Installation"</u>.

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description INFOID:0000000007471590

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

Component Function Check

1. CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471592

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

(+) Driver seat co	ntrol unit	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				
B503	25	Ground	Seat Lifting (front)	Operate	10mSec/div
				Other than above	0 or 5

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> GO TO 2.

2.check lifting sensor (front) circuit

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

ADP

Α

В

D

Е

F

INFOID:0000000007471591

Ν

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check lifting sensor (front) power supply

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-207</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK LIFTING SENSOR (FRONT) GROUND CIRCUIT 1

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

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

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

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

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

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

Is the inspection result normal?

YES >> Replace lifting motor (front). Refer to <u>SE-163. "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-207, "Removal and Installation"</u>.

ADP

Α

В

C

D

Е

F

Н

K

M

Ν

0

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description INFOID:0000000007471593

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

Component Function Check

INFOID:0000000007471594

1. CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-110, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007471595

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> GO TO 2.

2.check lifting sensor (rear) circuit

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

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check lifting sensor (rear) power supply

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

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

Is the inspection result normal?

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

4.CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT 1

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

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

ADP-111 Revision: 2013 February 2012 G Coupe

ADP

Α

В

D

Е

F

K

Ν

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> Replace lifting motor (rear). Refer to <u>SE-163. "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-207, "Removal and Installation"</u>.

TI	1 7	Γ		NI	0	\Box
		٠,	, I	ı Vi	7	≺

Description INFOID:0000000007471596

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

Component Function Check

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK TILT SENSOR SIGNAL

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

	(+) Automatic drive positioner control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			(11)
M51	7	Ground	Tilt position	Change between 1.1 V (Close to top) 3.9 V (Close to bottom)

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> GO TO 2.

2.check tilt sensor circuit

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

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

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

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

Is the inspection result normal?

ADP

Α

В

D

INFOID:0000000007471597

INFOID:0000000007471598

K

L

M

Ν

С

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TILT SENSOR POWER SUPPLY

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

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

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TILT SENSOR GROUND CIRCUIT 1

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK TILT SENSOR GROUND CIRCUIT 2

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

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

TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace tilt & telescopic sensor (Built in steering column assembly). Refer to <u>ST-18, "WITHOUT ELECTRIC MOTOR: Exploded View"</u>.

NO >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

В

Α

С

D

Е

F

G

Н

ADP

K

L

M

Ν

0

TELESCOPIC SENSOR

Description INFOID:000000007471599

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

Component Function Check

INFOID:0000000007471600

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END.

NO >> Perform diagnosis procedure. Refer to ADP-116, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007471601

1. CHECK TELESCOPIC SENSOR SIGNAL

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

(+) Automatic drive positioner control unit		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(47)
M51	23	Ground	Telescopic position	Change between 0.5 [V] (close to top) 4.5 [V] (close to bottom)

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> GO TO 2.

2. CHECK TELESCOPIC SENSOR CIRCUIT

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

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

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

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

Is the inspection result normal?

TELESCOPIC SENSOR

<	DT	C/C	CIRC	CUI.	ΓDI	AGN	IOSI	S>
---	----	-----	------	------	-----	------------	-------------	----

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TELESCOPIC SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

>> GO TO 5. YES

NO >> GO TO 4.

f 4.CHECK TELESCOPIC SENSOR POWER SUPPLY CIRCUIT

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

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

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

Auto	matic drive po	ositioner control unit		Continuity	
Connec	ctor	Terminal	Ground	Continuity	
M52 33			Not existed		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

${f 5.}$ CHECK TELESCOPIC SENSOR GROUND CIRCUIT 1

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK TELESCOPIC SENSOR GROUND CIRCUIT 2

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	41		Existed

ADP

Н

Α

В

D

Е

K

M

Ν

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace tilt & telescopic sensor (Built in steering column assembly). Refer to <u>ST-18, "WITHOUT ELECTRIC MOTOR: Exploded View"</u>.
- NO >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

MIRROR SENSOR **DRIVER SIDE**

Α

В

Е

F

Н

DRIVER SIDE: Description

INFOID:0000000007471602

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

DRIVER SIDE: Component Function Check

D INFOID:0000000007471603

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

>> Perform diagnosis procedure. Refer to ADP-119, "DRIVER SIDE: Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000007471604

1. CHECK DOOR MIRROR SENSOR (DRIVER SIDE) SIGNAL

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

	+) ositioner control unit	(-)	Condition	Voltage (V) (Approx.)	
Connector Terminal				(· .pp10/ii)	
M51	6	0	Door mirror (Driver	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)	
M51	22	Ground	side) position	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation". NO >> GO TO 2.

2.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

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

ADP

N

Р

ADP-119 Revision: 2013 February 2012 G Coupe

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit Connector Terminal		Door mirror	Door mirror (driver side)	
		Connector	Terminal	Continuity
M51	6	D3	9	Existed
IVIST	22	DS	10	Existed

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

Automatic drive p	ositioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M51	6		Not existed
I CIVI	22		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

Door mirror	+) (driver side)	(-)	Voltage (V) (Approx.)	
Connector	Connector Terminal		(11 - 7	
D3	11	Ground	5	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

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

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-208</u>, "Removal and Installation".

NO >> Replace door mirror sensor (Built in passenger side door mirror). Refer to MIR-36, "DOOR MIR-ROR ASSEMBLY: Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

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

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

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-121, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE: Diagnosis Procedure

1. CHECK DOOR MIRROR SENSOR (PASSENGER SIDE) SIGNAL

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

ADP

Α

Е

F

Н

INFOID:0000000007471605

INFOID:0000000007471606

L

M

Ν

P

INFOID:0000000007471607

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	(+) ositioner control unit	(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(, (PP10X.)	
M51	5	L-round	Door mirror (Passenger side) position	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)	
I GIVI	21			Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-208, "Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR CIRCUIT

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

Automatic drive po	ositioner control unit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	5	D33	9	Existed
IVIST	21	D33	10	LXISIGU

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

(+) Door mirror (passenger side)		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
D33	11	Ground	5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> Replace automatic driver positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

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

Turn ignition switch OFF.

Disconnect automatic drive positioner control unit connector.

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

$oldsymbol{6}$.CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND 2

Connect automatic drive positioner control unit connector.

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

Automatic drive po	sitioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M52	41		Existed	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation". NO

>> Replace door mirror sensor (Built in passenger side door mirror). Refer to MIR-36, "DOOR MIR-ROR ASSEMBLY: Removal and Installation".

ADP

Α

В

D

Е

K

L

M

Ν

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR

Description INFOID:000000007471608

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

Component Function Check

INFOID:0000000007471609

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471610

1.CHECK SLIDING MOTOR POWER SUPPLY

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

(+) Sliding motor		(-) Con		ondition	Voltage (V) (Approx.)
Connector	Connector Terminal				(11 -)
	35 B525	35 ———— Ground 42	SEAT SLIDE	OFF	0
				FR (forward)	Battery voltage
DEGE				RR (backward)	0
D020				OFF	0
	42			FR (forward)	0
			RR (backward)	Battery voltage	

Is the inspection result normal?

YES >> Replace sliding motor. (Built in seat slide cushion frame.) Refer to <u>SE-163. "Exploded View"</u>.

NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

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

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	Driver seat control unit		Sliding motor		
Connector	Terminal	Connector Terminal		Continuity	
B504	35	B525	35	Existed	
D304	42	D323	42	LXISIEU	

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING MOTOR

Refer to ADP-125, "Component Inspection".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Replace sliding motor. (Built in seat slide cushion frame.) Refer to <u>SE-163. "Exploded View"</u>.

Component Inspection

1. CHECK SLIDING MOTOR-1

Visually check the sliding motor for foreign object, and check that the sliding motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (sliding motor).

2. CHECK SLIDING MOTOR-2

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding motor connector.
- 3. Supply sliding motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(-)	Орегация
35	42	Forward
42	35	Backward

Is the inspection result normal?

YES >> Sliding motor is OK.

NO >> Replace sliding motor. (Built in seat slide cushion frame.) Refer to <u>SE-163. "Exploded View"</u>.

۸ D D

Н

INFOID:0000000007471611

Α

В

D

Е

ADP

M

Ν

0

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR

Description INFOID:000000007471612

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

Component Function Check

INFOID:0000000007471613

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471614

1. CHECK RECLINING MOTOR POWER SUPPLY

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

	(+) Reclining motor		Condition		Voltage (V) (Approx.)
Connector	Connector Terminal				
	36	Ground	SEAT RECLINING	OFF	0
				FR (forward)	Battery voltage
B523				RR (backward)	0
B323	Б323			OFF	0
	44			FR (forward)	0
			RR (backward)	Battery voltage	

Is the inspection result normal?

YES >> Replace reclining motor. (Built in seat back frame.) Refer to <u>SE-163, "Exploded View"</u>.

NO >> GO TO 2.

2. CHECK RECLINING MOTOR CIRCUIT

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

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Reclining motor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B504	36	B523	36	Existed	
D304	44	- 5323	44	EXISTECT	

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
DE04	36	Ground	Not eviated
B504	44	-	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK RECLINING MOTOR

Refer to ADP-127, "Component Inspection".

Is the inspection result normal?

>> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation". YES

NO >> Replace reclining motor. (Built in seat slide cushion frame.) Refer to SE-163, "Exploded View".

Component Inspection

1. CHECK RECLINING MOTOR-1

Visually check the reclining motor for foreign object, and check that the reclining motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seatback frame (reclining motor).

2. CHECK RECLINING MOTOR-2

- Turn ignition switch OFF.
- Disconnect reclining motor connector. 2.
- Supply reclining motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(-)	Operation
36	44	Forward
44	36	Backward

Is the inspection result normal?

YES >> Reclining motor is OK.

NO >> Replace reclining motor. (Built in seat slide cushion frame.) Refer to SE-163, "Exploded View".

Н

INFOID:0000000007471615

ADP

Α

В

D

Е

M

Ν

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description INFOID:0000000007471616

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

Component Function Check

INFOID:0000000007471617

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471618

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

	(+) Lifting motor (front)		Condition		Voltage (V) (Approx.)
Connector	Connector Terminal				, , ,
		Ground	SEAT LIFTER FR	OFF	0
	37			UP	0
B527				DWN (down)	Battery voltage
B321				OFF	0
	45			UP	Battery voltage
			DWN (down)	0	

Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-163, "Exploded View"</u>. NO >> GO TO 2.

2.check lifting motor (front) circuit

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

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	t control unit	Lifting motor (front)		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B504	37	B527	37	Existed	
B5U4	45	D321	45	Existed	

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK LIFTING MOTOR (FRONT)

Refer to ADP-129, "Component Inspection".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-163. "Exploded View"</u>.

Component Inspection

1. CHECK LIFTING MOTOR-1

Visually the lifting motor (front) for foreign object, and check that the lifting motor (front) is not broken.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (lifting motor).

2. CHECK LIFTING MOTOR-2

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor connector.
- 3. Supply lifting motor terminals with battery voltage and check operation.

Item	Terminal		Operation	
nem	(+)	(-)	Operation	
Lifting motor (front)	45	37	Up	
Litting motor (nont)	37	45	Down	

Is the inspection result normal?

YES >> Lifting motor (front) is OK.

NO >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-163, "Exploded View"</u>.

ADP

INFOID:0000000007471619

Α

В

D

Е

ADP

ı

M

0

Ν

Р

Revision: 2013 February ADP-129 2012 G Coupe

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (REAR)

Description INFOID:0000000007471620

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

Component Function Check

INFOID:0000000007471621

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471622

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

(+) Lifting motor (rear)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
			Ground SEAT LIFTER RR	OFF	0
	38			UP	Battery voltage
DEOO		Cround		DWN (DOWN)	0
B529 ———		Ground		OFF	0
	39			UP	0
				DWN (DOWN)	Battery voltage

Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-163, "Exploded View"</u>. NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK LIFTING MOTOR (REAR)

Refer to ADP-131, "Component Inspection".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-207, "Removal and Installation".

NO >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-163, "Exploded View"</u>.

Component Inspection

1. CHECK LIFTING MOTOR-1

Visually the lifting motor (rear) for foreign object, and check that the lifting motor (rear) is not broken.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (lifting motor).

2.CHECK LIFTING MOTOR-2

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor connector.
- 3. Supply lifting motor terminals with battery voltage and check operation.

Item	Terr	minal	Operation
nem	(+)	(-)	Operation
Lifting motor (roor)	38	39	Up
Lifting motor (rear)	39	38	Down

Is the inspection result normal?

YES >> Lifting motor (rear) is OK.

NO >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-163, "Exploded View"</u>.

ADP

INFOID:0000000007471623

Α

В

D

Е

ADP

M

0

Ν

Р

Revision: 2013 February ADP-131 2012 G Coupe

TILT MOTOR

Description INFOID:000000007471624

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

Component Function Check

INFOID:0000000007471625

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471626

1. CHECK TILT MOTOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-21, "WITH ELECTRIC MOTOR: Exploded View".</u>

NO >> GO TO 2.

2. CHECK TILT MOTOR CIRCUIT

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

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Tilt & telescopic motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
M52	35	M49	4	Existed
IVIJZ	42	IVI45	3	LAISIEU

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK TILT MOTOR

Refer to ADP-133, "Component Inspection".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-208, "Removal and Installation"</u>.

NO >> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-21, "WITH ELECTRIC MOTOR: Exploded View".</u>

Component Inspection

INFOID:0000000007471627

1. CHECK SLIDING MOTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt motor connector.
- 3. Supply tilt motor terminals with battery voltage and check operation.

Terminal		— Operation
(+)	(–)	Operation
4	3	Up
3	4	Down

Is the inspection result normal?

YES >> Tilt motor is OK.

NO

>> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-21, "WITH ELECTRIC MOTOR: Exploded View".</u>

ADP

Α

В

D

Е

F

Н

K

L

Ν

M

 \cup

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC MOTOR

Description INFOID:000000007471628

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

Component Function Check

INFOID:0000000007471629

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-134, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007471630

1. CHECK TELESCOPIC MOTOR POWER SUPPLY

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

	(+) Tilt & telescopic motor		(–) Cond		Voltage (V) (Approx.)
Connector	Terminal				, , , ,
		1 Ground	TELESCOPIC MO- TOR	OFF	0
	M49			FR (forward)	0
MAO				RR (backward)	Battery voltage
IVI49				OFF	0
	2			FR (forward)	Battery voltage
				RR (backward)	0

Is the inspection result normal?

YES >> Replace telescopic motor. (Built in steering column assembly.) Refer to <u>ST-21, "WITH ELECTRIC MOTOR</u>: Exploded View".

NO >> GO TO 2.

2. CHECK TELESCOPIC MOTOR CIRCUIT

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

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Tilt & telescopic motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
M52	36	M49	2	Existed
IVIJZ	44	IVI45	1	LXISIEU

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

Automatic drive po	sitioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M52	36	Ground	Not existed	
IVIOZ	44		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING MOTOR

Refer to ADP-135, "Component Inspection".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Replace telescopic motor. (Built in steering column assembly.) Refer to ST-21, "WITH ELECTRIC MOTOR: Exploded View".

Component Inspection

INFOID:0000000007471631

1. CHECK SLIDING MOTOR-2

- Turn ignition switch OFF.
- 2. Disconnect telescopic motor connector.
- Supply telescopic motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(–)	Орегация
2	1	Forward
1	2	Backward

Is the inspection result normal?

NO

YES >> Telescopic motor is OK.

>> Replace telescopic motor. (Built in steering column assembly.) Refer to ST-21, "WITH ELECTRIC MOTOR: Exploded View".

ADP

Α

В

D

Е

F

Н

M

Р

ADP-135 Revision: 2013 February 2012 G Coupe

Ν

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR MOTOR

Description INFOID:0000000007471632

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

Component Function Check

INFOID:0000000007471633

1. CHECK DOOR MIRROR MOTOR FUNCTION

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

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000007471634

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

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

Is the inspection result normal?

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

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$. CHECK HARNESS CONTINUITY

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

[Door mirror driver side]

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

[Door mirror passenger side]

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

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

[Door mirror driver side]

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

[Door mirror passenger side]

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-208, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-137, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace door mirror. Refer to MIR-36, "DOOR MIRROR ASSEMBLY: Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR MIRROR MOTOR-I

Check that door mirror motor does not trap foreign objects and does not have any damage. Refer to MIR-35, "DOOR MIRROR ASSEMBLY: Exploded View".

ADP-137 Revision: 2013 February 2012 G Coupe

Α

D

Е

M

Ν

Р

INFOID:0000000007471635

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror.Refer to MIR-36, "DOOR MIRROR ASSEMBLY: Removal and Installation".

2. CHECK DOOR MIRROR MOTOR-II

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

Connector	Terminal		Operational direction
Connector	(+)	(-)	
	7	6	RIGHT
D3 (Driver side)	6	7	LEFT
D33 (Passenger side)	5	7	UP
	7	5	DOWN

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror. Refer to MIR-36, "DOOR MIRROR ASSEMBLY: Removal and Installation".

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY INDICATOR

Description INFOID:0000000007471636

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

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-139, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK MEMORY INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

Seat men			Voltage (V) (Approx.)
Connector	Terminal		(/ .pp. 3/)
D5	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

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

2.CHECK MEMORY INDICATOR CIRCUIT

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

Automatic drive p	Automatic drive positioner control unit		Seat memory switch		
Connector	Terminal	Connector Terminal		Continuity	
M51	12	D5	6	Existed	
I CIVI	13	D5 7		Existed	

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

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

ADP-139 Revision: 2013 February 2012 G Coupe

Α

D

INFOID:0000000007471637

INFOID:0000000007471638

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace seat memory switch. Refer to <u>ADP-209</u>, "Removal and Installation".

NO >> Repair or replace harness.

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000007800585

Α

В

С

VALUES ON THE DIAGNOSIS TOOL

CONSULT	MONITOR	ITEM
---------	---------	------

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WII LIXIII	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
I K WIF ER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
FR WIPER IN	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN CIONAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAND OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT CIVI	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED E00 0W	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOD OW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD 0W / C	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
DDL LOCK SW	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
ODE UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
KET OTE EK OW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET OTE ON OW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
WEAKD GW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
TR CANCLE SW	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
IIVBD OF LIN SW	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
LOCK button of the Intelligent Key is not pressed		Off
KKE-LOCK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
UNLOCK button of the Intelligent Key is pressed		On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
KKE-TK/BD	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
MIL-I ANIO	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
AIRE 1700 OF EIN	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OI HOAL GLINGOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
250 0W DD/TD	Trunk lid opener request switch is not pressed	Off
REQ SW -BD/TR	Trunk lid opener request switch is pressed	On
211011 014	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
	The clutch pedal is not depressed	Off
CLUCH SW	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off
DETE/CANCE SW	 Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models) 	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
OF I PIN/IN OVV	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
JNLK SEN -DR	Driver door is unlocked	Off
DIACK OFIN -DIV	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
JETE GVV -IFDIVI	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models)	Off
OLI EIN TEDIVI	Selector lever in P or N position The clutch pedal is depressed	On
SFT P -MET	Selector lever in any position other than P	Off
JII F -IVIE I	Selector lever in P position	On
CET NI MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENCINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch is ON	Set
DDMT FNC CTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY OW OLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRIMID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIDM IDC	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM ID1	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
1P 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
IP 3	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
IP 2	The ID of second Intelligent Key is registered to BCM	Done
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT FRI	ID of front RH tire transmitter is not registered	Yet
ID DECCE DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECCE DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

ADP

Α

В

С

D

Е

F

G

Н

Κ

L

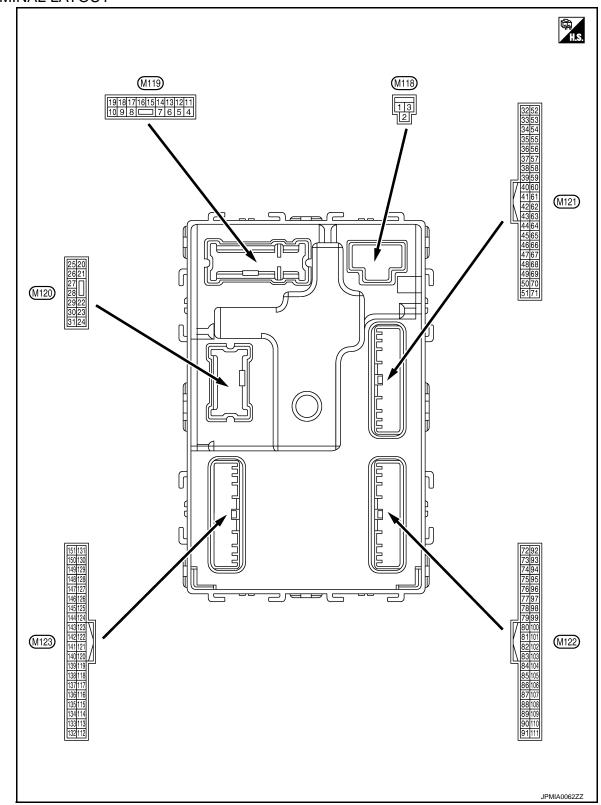
M

Ν

0

Ρ

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description	I		0 100	Value	Α
+	–	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage	В
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch (OFF	12 V	С
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch (ON	12 V	
					mp battery saver is activated. or room lamp power supply)	0 V	D
4 (LG)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V	Е
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V	F
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V	
7	Ground	Step lamp	Output	Step lamp	ON	0 V	G
(SB)	Ground	Step lamp	Output	Step lamp	OFF	12 V	
8	Ground	All doors, fuel lid	Output	All doors, fuel	LOCK (Actuator is activated)	12 V	Н
(V)	Ground	LOCK	Output	Output lid	Other than LOCK (Actuator is not activated)	0 V	
9	Ground	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V	
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V	AD
11 (R)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage	1/
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V	K
					OFF	0 V	ı
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position. (V) 10 0 2 ms JSNIA0010GB	N N
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(BG)				J	ACC	0 V	Р

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Interior room lamp	Output	Interior room	OFF	12 V
(V)	Ground	control	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	Onsurad	Tanah lidan sa	Outrast	To sale lid	OPEN (Trunk lid opener actuator is activated)	12 V
(LG)	Ground	Trunk lid open	Output	Trunk lid	Other than OPEN (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
30	_			Trunk room	ON	0.5 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	nal No. e color)	Description			On a distant	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	/ (
34		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Ground	(-)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E
35	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	G H
(V)	Glound	(+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	AD K
38	Crowd	Rear bumper anten-	Outout	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 1	M
(B)	Ground	na (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	P

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
39		Rear bumper anten-		When the trunk lid opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground	na (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(Y)	Giodila	E/R) control	Output	ignition switch	ON	0 V
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Trunk lid is opened)	0 V
				Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52	Ground	Starter relay control	Output	els)	When selector lever is not in P or N position	0 V
(R)	Ground	Clarter relay control	Output	Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	Orodria	switch (Push switch)	mput	(Push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
		Intelligent Key warn-		Intelligent Key	Sounding	0 V
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value	Α
+	-	Signal name	Input/ Output		Condition	(Approx.)	/ \
					Pressed	0 V	В
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	C
						11.8 V	_
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0	E F
72		Room antenna 2 (-)		Ignition switch		JMKIA0062GB	G
(R)	Ground	(Center console)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0	Н
						JMKIA0063GB	
							AD
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0	Κ
72		Room entenna 2 (1)		Ignition awitch		JMKIA0062GB	L
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF		_	M
					Man and a substitution of the substitution of	(V) 15 10 5	
					When Intelligent Key is not in the passenger compartment	5	Ν
						JMKIA0063GB	0

Revision: 2013 February ADP-151 2012 G Coupe

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	B) Ground tenna (–) Output quest switch is operated with	operated with ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB		
75	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(BR)		tenna (+)	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
76	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	(-)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No.	Description				Value	٨
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)	А
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E
78	Ground	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(Y)	Glound	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	ADI K
70					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	M
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	O

	inal No. e color)	Description				Value
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
Remote keyless entry		Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(*)	/ Y \	tion	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (Y)		Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB

	nal No.	Description				Value	
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	
(BG)		mput	switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB		
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	
90 (P)	Ground	CAN-L	Input/ Output		_		
91 (L)	Ground	CAN-H	Input/ Output		_	_	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	OFF	12 V (V) 15 10 5 0 1	
93					ON OFF (LOCK indicator is	0 V Battery voltage	
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	not illuminated) ON	0 V	

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
95	Cround	ACC roley central	Output	Ignition quitab	OFF	0 V	
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	12 V	
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V	
		Selector lever P posi-			P position	0 V	
99		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V	
(R)* ¹ (BR)* ²	Ground	ASCD clutch switch (M/T models)	Input	ASCD clutch switch	OFF (Clutch pedal is depressed)	0 V	
					ON (Clutch pedal is not depressed)	12 V	
					ON (Pressed)	0 V	
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 10 ms JPMIA0016GB	
					ON (Pressed)	0 V	
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	
102	0-1	Blower fan motor re-	0	Lauridian - 201	OFF or ACC	0 V	
(BG)	Ground	lay control	Output	Ignition switch	ON	12 V	
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V	

< ECU DIAGNOSIS INFORMATION >

(Mire color)		Description		Condition		Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB	

Revision: 2013 February ADP-157 2012 G Coupe

	nal No.	Description	Description			Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108	Ground	Combination switch	(Wiper volume	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	
(R)	Sissand	INPUT 4	mpat	switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
			Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V		

	nal No. color)	Description			O Brit	Value	А
+		Signal name	Input/ Output		Condition	(Approx.)	$\overline{}$
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	E F G
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	Н
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB	ADP K
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Р

Termi	nal No.	Description	Description					
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)		
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V		
113	Ground	Optical cancer	Innut	Ignition switch	When bright outside of the vehicle	Close to 5 V		
(BG)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V		
114	Ground	Clutch interlock	Input	Clutchinterlock switch OFF (Clutch pedal is not depressed) ON (Clutch pedal is depressed)		0 V		
(R)	Ground	switch	при			Battery voltage		
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage		
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V		
118	Ground	(Without ICC)	- Input	switch	ON (Brake pedal is depressed)	Battery voltage		
(BR)	Ground	Stop lamp switch 2 (With ICC)			h OFF (Brake pedal is not ICC brake hold relay OFF	0 V		
				Stop lamp switc pressed) or ICC	h ON (Brake pedal is de- brake hold relay ON	Battery voltage		
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB		
					UNLOCK status (Unlock switch sensor ON)	0 V		
121 (SB)	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V		
(36)				When the Intelligent Key is not inserted key slot				0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V		
(V)					ON	Battery voltage		

(\\//ir^	Terminal No. Description (Wire color)			On a distant	Value	
+	–	Signal name	Input/ Output		Condition	(Approx.)
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 JPMIA0012GB
					ON	1.1 V 0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C		(V) 15 10 10 ms 10 ms JPMIA0013GB
				Ignition switch C	1	12 V
				Push-button ig-	ON (Tail lamps OFF)	9.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (L)	Ground	Push-button ignition switch illumination	Output	nition switch il- lumination	ON (Tail lamps ON)	(V) 15 10 5 0 JPMIA0159GB
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
137	Ground	Receiver and sensor ground	Input	Ignition switch C	ON ON	0 V
		GIOUHO				1
(BG)		Receiver and sensor	Output	Ignition switch	OFF	0 V

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s
(L)	SISU.II	er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140* ¹	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(B)	Oround	position	IIIput	Except P and N positions		0 V
					ON	0 V
141 (W)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	
					Lighting switch HI	(V)
142	Ground	Combination switch	Output	Combination switch	Lighting switch 2ND	15
(BR)	Ground	OUTPUT 5	Output	(Wiper volume dial 4)	Turn signal switch RH	2 ms JPMIA0031GB
						10.7 V
					All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	(V) 15
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper volume dial 4)	0 V	В
					Front washer switch ON (Wiper volume dial 4)	(V)	0
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	105 0 2 ms JPMIA0033GB	C D
					All switches OFF	0 V	Е
					Front wiper switch INT/ AUTO	(V)	_
145		Combination switch		Combination switch	Front wiper switch LO	15	F
(L)	Ground	OUTPUT 3		(Wiper volume	Lighting switch AUTO	5 0	G
					All switches OFF	10.7 V 0 V	Н
					Front fog lamp switch ON	0 0	
					Lighting switch 2ND	(V)	
146		Combination switch		Combination switch	Lighting switch PASS	15	I
(SB)	Ground	OUTPUT 4	Output	(Wiper volume dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	ADP
-							K
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0	L
(OIV)				SWILOTT		10 ms JPMIA0011GB	M
					ON (Door open)	0 V	Ν
151	Ground	Rear window defog-	Output	Rear window	Active	0 V	1 1
(G)	Ground	ger relay control	Output	defogger	Not activated	Battery voltage	

^{• *1:} A/T models

ADP-163 Revision: 2013 February 2012 G Coupe

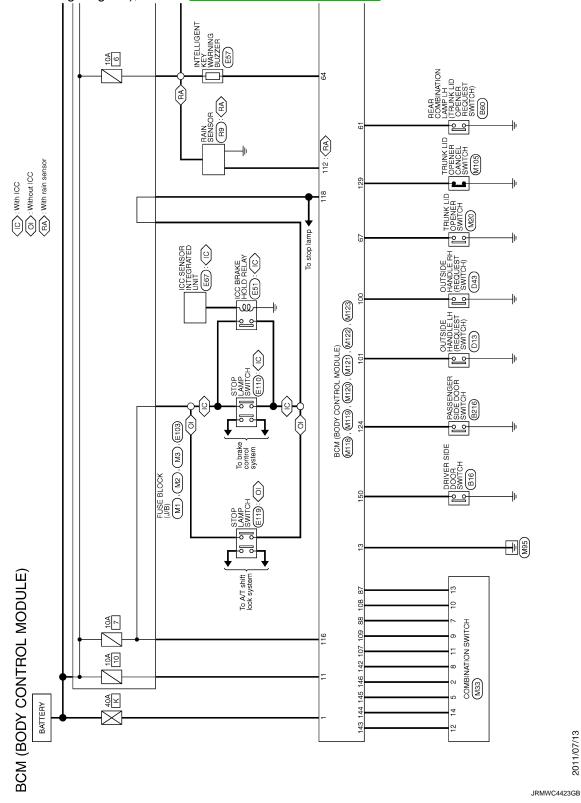
Ρ

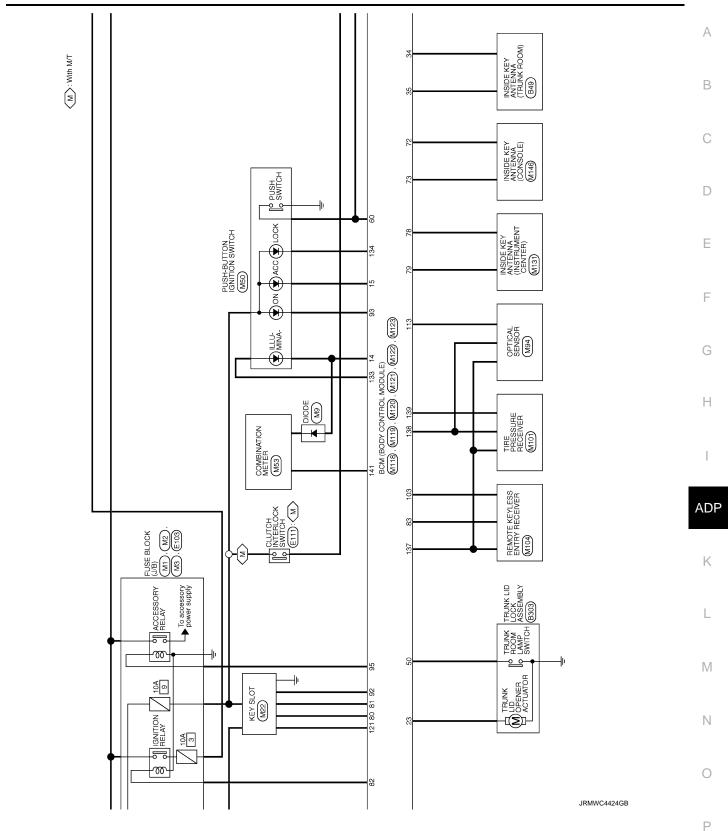
^{• *2:} M/T models

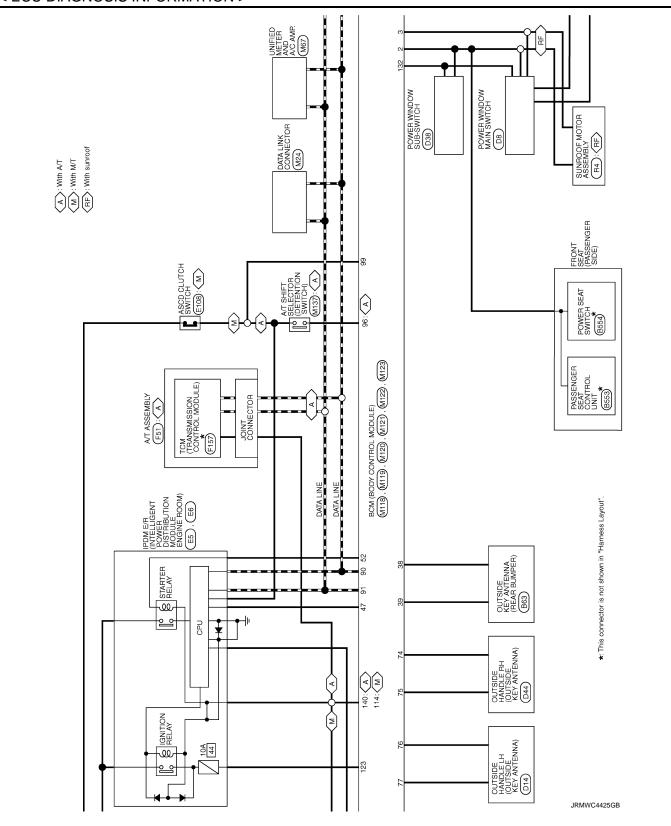
Wiring Diagram - BCM -

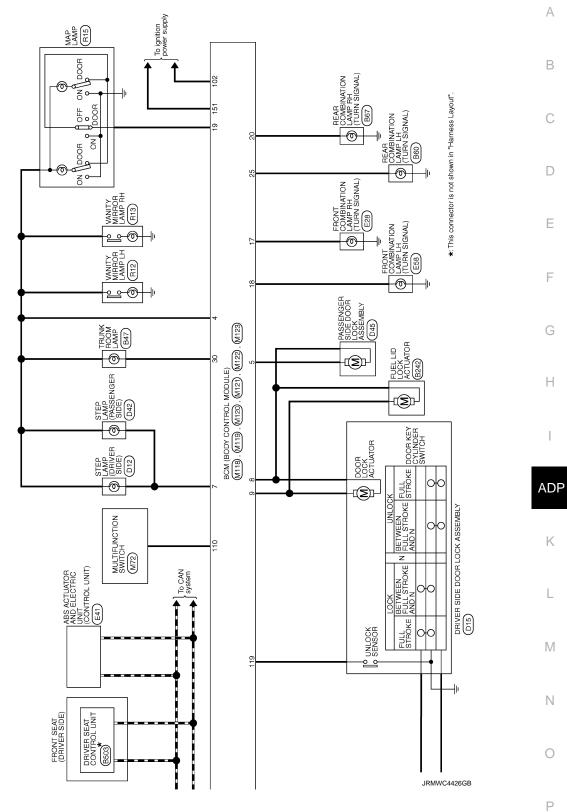
INFOID:0000000007800586

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









Fail-safe INFOID:0000000007800587

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (12 V) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000007800588

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION	
	 B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW 	
4	 B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: BCM 	
	 B2615: BCM B2616: BCM B2617: BCM B2618: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E8: CLUTCH SW 	
	 B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED 	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL	
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL 	_
	 C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL 	A
6	C1734: CONTROL UNIT B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

DTC Index

M

Ν

0

Р

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-16, "COM-MON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-35
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-36
U0415: VEHICLE SPEED	_	_	_	_	BCS-37
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-51

Revision: 2013 February ADP-169 2012 G Coupe

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-54</u>
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-55</u>
B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-57</u>
B2195: ANTI-SCANNING	×	_	_	_	<u>SEC-58</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	<u>SEC-59</u>
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-61
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-63</u>
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-64</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-38
B2601: SHIFT POSITION	×	×	×	_	SEC-65
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-68</u>
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-70</u>
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-73
B2605: PNP/CLUTCH SW	×	×	×	_	<u>SEC-75</u>
B2608: STARTER RELAY	×	×	×	_	<u>SEC-77</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-79
B2614: BCM	_	×	×	_	PCS-52
B2615: BCM	_	×	×	_	PCS-54
B2616: BCM	_	×	×	_	PCS-56
B2617: BCM	×	×	×	_	SEC-83
B2618: BCM	×	×	×	_	PCS-58
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-59
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-85
B2621: INSIDE ANTENNA	_	×	_	_	<u>DLK-55</u>
B2622: INSIDE ANTENNA	_	×	_	_	DLK-57
B2623: INSIDE ANTENNA	_	×	_	_	DLK-59
B26E8: CLUTCH SW	×	×	×	_	<u>SEC-80</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-82
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	W/T 10
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-19</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	\A/T 24
C1710: [NO DATA] RR	_	_	_	×	<u>WT-21</u>
C1711: [NO DATA] RL	_	_	_	×	1

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-24
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	=
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-25</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-26</u>

Е

Α

В

С

D

F

G

Н

ADP

Κ

L

M

Ν

0

Ρ

< ECU DIAGNOSIS INFORMATION >

DRIVER SEAT CONTROL UNIT (WITH AUTOMATIC DRIVE POSITIONER)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Monitor Item Conditi		Value/Status	
SET SW	Set switch	Push	ON	
SE1 300	Set Switch	Release	OFF	
MEMORY SW/1	Mamary awitch 1	Push	ON	
MEMORY SW1	Memory switch 1	Release	OFF	
MEMORY CWO	Managar switch 0	Push	ON	
MEMORY SW2	Memory switch 2	Release	OFF	
01105 0111 50	01:1:	Operate	ON	
SLIDE SW-FR	Sliding switch (front)	Release	OFF	
0	2 111	Operate	ON	
SLIDE SW-RR	Sliding switch (rear)	Release	OFF	
		Operate	ON	
RECLN SW-FR	Reclining switch (front)	Release	OFF	
		Operate	ON	
RECLN SW-RR	Reclining switch (rear)	Release	OFF	
		Operate	ON	
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF	
		Operate	ON	
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF	
LIFT RR SW-UP		Operate	ON	
	Lifting switch rear (up)	Release	OFF	
		Operate	ON	
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF	
		Up	ON	
MIR CON SW-UP	Mirror switch	Other than above	OFF	
		Down	ON	
MIR CON SW-DN	Mirror switch	Other than above	OFF	
141D 0011 0141 DII		Right	ON	
MIR CON SW-RH	Mirror switch	Other than above	OFF	
		Left	ON	
MIR CON SW-LH	Mirror switch	Other than above	OFF	
AND OUNG OW		Right	ON	
MIR CHNG SW-R	Changeover switch	Other than above	OFF	
	01	Left	ON	
MIR CHNG SW-L	Changeover switch	Other than above	OFF	
TII T 0 M / LID	T10 - 20-1	Up	ON	
TILT SW-UP	Tilt switch	Other than above	OFF	
TII T OM/ DC:::::	-	Down	ON	
TILT SW-DOWN	Tilt switch	Other than above	OFF	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	dition	Value/Status
TELESCO SW-FR	Toloscopie switch	Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
TELESCO SW-RR	THE SWILCH	Other than above	OFF
FORWARD SW	Seat back	Folded down	ON
I OKWAND 3W	Seat back	Other than above	OFF
WALK-IN SW	Power walk-in switch	Pressed	ON
WALK-IN OW	1 Ower waik-iii Switch	Other than above	OFF
FWD LIMIT SW	Seat sliding	Front edge	ON
1 WD LIWIT SW	Seat sliding	Other than above	OFF
SEAT BELT SW	Seat belt	Fastened	ON
SEAT BEET SW	Jear ben	Other than above	OFF
DETENT SW*1	A/T selector lever	P position	OFF
DETENT SW	A I Selector level	Other than above	ON
PARK BRAKE SW*2	Parking brake	Applied	ON
PARK BRAKE SW	I diking blake	Release	OFF
STARTER SW	Ignition position	Cranking	ON
O I / II C I C O V	igilition position	Other than above	OFF
		Forward	The numeral value decreases *3
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3
		Other than above	No change to numeral value ^{*3}
	Seat reclining	Forward	The numeral value decreases *3
RECLN PULSE		Backward	The numeral value increases *3
		Other than above	No change to numeral value*3
		Up	The numeral value decreases *3
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *3
		Other than above	No change to numeral value*3
		Up	The numeral value decreases *3
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *3
		Other than above	No change to numeral value*3
MIR/SEN RH U-D	Door mirror (passenger s	side)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger s	side)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)

^{*1:} A/T model

Revision: 2013 February

Α

В

D

Е

F

L

M

Ν

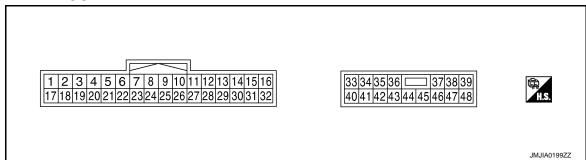
Р

^{*2:} M/T model

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

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

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

Terminal No. (Wire color)		Description				Veltege (A)
+	-	Signal name	Input/ Out- put	Condition		Voltage (V) (Approx)
11	Ground	Sliding switch	Input Sliding switch	Operate (backward)	0	
(BR)		backward signal	·		Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(30)		backward Signal			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(20/11)		downward digital		(II OIII)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(0,2)				(. • a)	Release	Battery voltage
16 (O)	Ground	Sensor power supply	Out- put	-	_	Battery voltage
17 (Y/R)	Ground	UART communication (TX)	Out- put	Ignition switch ON		10mSec/div 2V/div JMJIA0121ZZ
19 (V)	_	CAN-L	_	-	_	_
21 (L/Y)	Ground	Detention switch switch	Input	A/T selector lever	P position Except P position	20mSec/div AAAAAAAAAAAAAA 5V/div JMJIA0120ZZ
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate Stop	10mSec/div 2V/div JMJIA0119ZZ
25 (Y/B)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div 2V/div JMJIA0119ZZ

	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	Condition		(Approx)
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
		-			Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
. ,				, ,	Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
(. / = /		apmara digitar		(1001)	Release	Battery voltage
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed Other than above	0 Battery voltage
31		<u> </u>			Other than above	Dattery Voltage
(GR)	Ground	Sensor ground	_	-	_	0
32 (B/W)	Ground	Ground (signal)	_	_		0
33 (R)	Ground	Power source (C/B)	Input	_		Battery voltage
35 (W/R)	Ground	Sliding motor for- ward output	Out-	Seat sliding	Operate (forward)	Battery voltage
(******)		a carpar	F-4.		Release	0
36 (G/Y)	Ground	Reclining motor for- ward output signal	Out- put	Seat reclining	Operate (forward)	Battery voltage
(0/1)		ward output signal	put	_	Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Out-	Seat litting (tront)	Operate (downward)	Battery voltage
(0/11)		downward output	put		Stop	0
38	Ground	Lifting motor (rear)	Out-	Seat lifting (rear)	Operate (upward)	Battery voltage
(L/Y)		upward output	put	J ()	Stop	0
39	Ground	Lifting motor (rear)	Out- put	Seat lifting (rear)	Operate (downward)	Battery voltage
(R/B)		downward output		- , ,	Stop	0
40 (R/W)	Ground	Power source (Fuse)	Input	_		Battery voltage
			Input	Seat back is folded down and power walk-in switch pressed		0
41 (Y/G)	(-round	Forward switch signal		Seat back is fold up and seat reclining is operation		battery voltage
				Seat back is fold up and power walk- in switch is pressed		5
42	Ground	Sliding motor back-	Out-	Seat sliding	Operate (backward)	Battery voltage
(W) Glound	ward output	put	3	Stop	0	

< ECU DIAGNOSIS INFORMATION >

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

ADP

Α

В

С

D

Е

F

G

Н

Κ

L

M

Ν

0

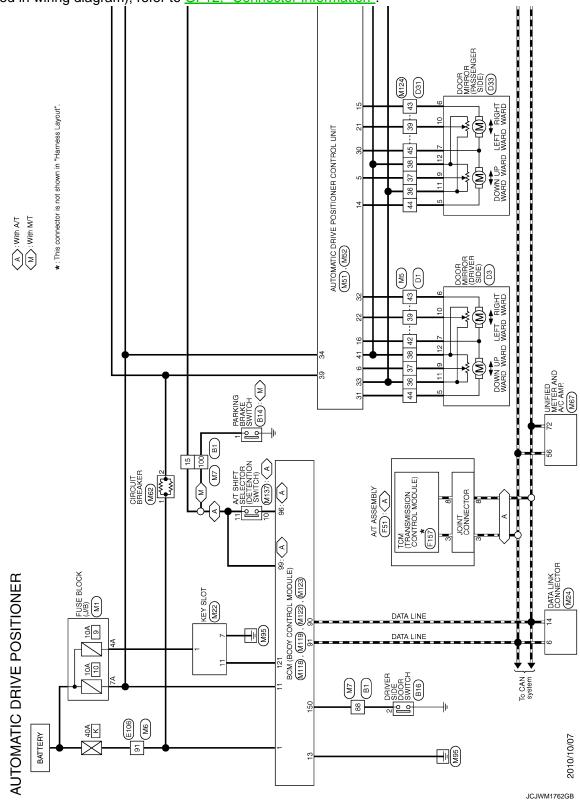
Р

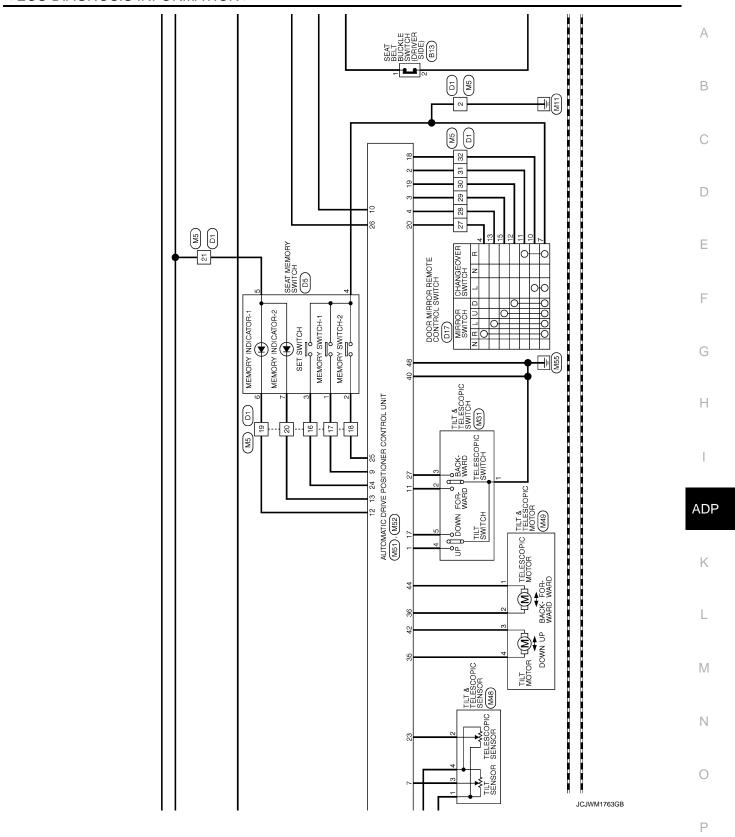
< ECU DIAGNOSIS INFORMATION >

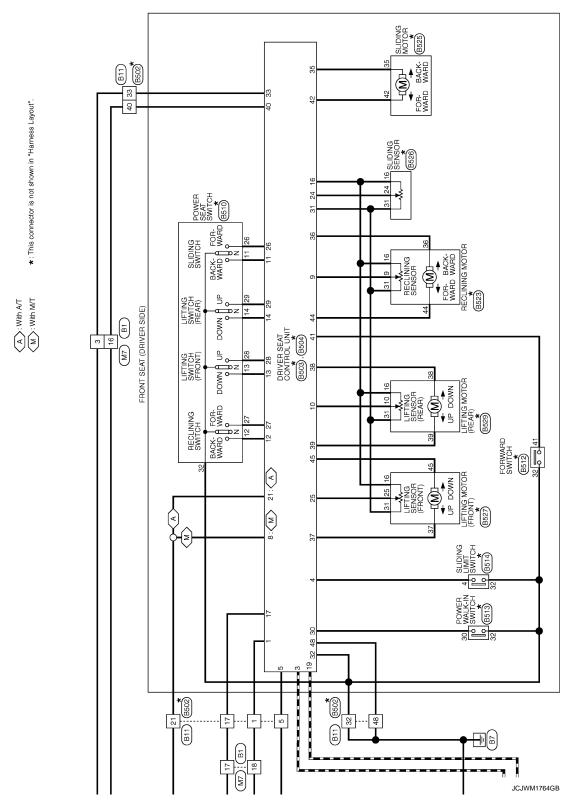
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

INFOID:0000000007471646

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".







Fail Safe

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

DRIVER SEAT CONTROL UNIT (WITH AUTOMATIC DRIVE POSITIONER)

Α

В

D

Е

F

Ν

Р

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication*1	U1000	With ADP: ADP-48
Only manual functions operate normally.	CAN communication	01000	Without ADP: ADP-48
	Tilt sensor* ¹	B2118	With ADP: ADP-53
	Tilt sensor		Without ADP: ADP-53
	Telescopic sensor	B2119	ADP-56
	Detent switch	B2126	ADP-59
	Parking brake switch	B2127	ADP-61
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-49
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-51

^{*1:} Driver seat without automatic driver positioner system display only "U1000 CAN COMM CIRCUIT" and "B2112 SEAT SLIDE".

DTC Index

CONSULT	CONSULT Timing*1			
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT*2	0	1-39	CAN communication	With ADP: ADP-48
[U1000]	0	1-39	CAN communication	Without ADP: ADP-48
SEAT SLIDE*2	0	1-39	Coat alide meter autout	With ADP: ADP-49
[B2112]	0	1-39	Seat slide motor output	Without ADP: ADP-49
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-51
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56
DETENT SW* ² [B2126]	0	1-39	Detention switch condition	ADP-59
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-61
UART COMM [B2128]	0	1-39	UART communication	ADP-63

^{*1.}

Revision: 2013 February ADP-181 2012 G Coupe

^{• 0:} Current malfunction is present

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

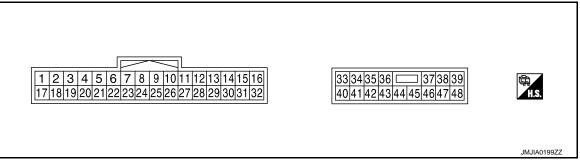
^{*2:} Driver seat without automatic driver positioner system display only "U1000 CAN COMM CIRCUIT" and "B2112 SEAT SLIDE".

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Conditi	on	Voltage (V)
+	_	Signal name	Input/ Output	Conditi	OII	(Approx.)
1	Ground	Tilt switch upward signal	Innut	Tilt switch	Operate (upward)	0
(Y)	Giodila	Till Switch upward Signal	Input	THE SWILCH	Other than above	5
2		Changeover switch RH		Changeover	RH	0
(LG)	Ground	signal	Input	switch position	Neutral or LH	5
3	Ground	Mirror switch upward sig-	Input	Mirror switch	Operated (upward)	0
(G)	Giodila	nal	прис	WIII OI SWILCII	Other than above	5
4	Ground	Mirror switch leftward sig-	Input	Mirror owitch	Operated (leftward)	0
(Y)	Ground	nal	прис	Mirror switch	Other than above	5
5 (R)	Ground	Door mirror sensor (RH) upward/downward signal	Input	Mirror face (door m	nirror RH)	Change between 3.4 (close to peak) 0.6 (close to valley)
6 (GR)	Ground	Door mirror sensor (LH) upward/downward signal	Input	Mirror face (door m	nirror LH)	Change between 3.4 (close to peak) 0.6 (close to valley)
7 (BG)	Ground	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.8 (close to bottom)
9					Press	0
(BR)	Ground	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
10 (V)	Ground	UART communication (TX)	Output	Ignition switch ON		2mSec/div

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition	an.	Voltage (V)
+	_	Signal name	Input/ Output	Conditio	JII	(Approx.)
11	Ground	Telescopic switch forward	Input	Toloscopia awitch	Operate (forward)	0
(GR)	Giouna	signal	Input	Telescopic switch	Other than above	5
12					Illuminate	1
(BG)	Ground	Memory indictor 1 signal	Output	Memory indictor 1	Other than above	Battery voltage
13			_		Illuminate	1
(P)	Ground	Memory indictor 2 signal	Output	Memory indictor 2	Other than above	Battery voltage
14	Ground	Door mirror motor (RH)	Output	Door mirror RH	Operate (upward)	Battery voltage
(W)	Ground	upward output	Output	DOOI IIIIITOI KII	Other than above	0
15	0	Door mirror motor (RH)	Outrout	Danasiman DII	Operate (leftward)	Battery voltage
(BG)	Ground	leftward output	Output	Door mirror RH	Other than above	0
		Door mirror motor (LH)			Operate (down- ward)	Battery voltage
16	Ground	downward output	Output	Door mirror (LH)	Other than above	0
(Y)		Door mirror motor (LH)	'	,	Operate (rightward)	Battery voltage
		rightward output			Other than above	0
17 (BR)	Ground	Tilt switch downward sig-	Input	Tilt switch	Operate (down- ward)	0
(DIV)		Tidii			Other than above	5
18		Changeover switch LH		Changeover	LH	0
(W)	Ground	signal	Input	switch position	Neutral or RH	5
19 (SB)	Ground	Mirror switch downward signal	Input	Mirror switch	Operate (down- ward)	0
(00)		Signal			Other than above	5
20	Ground	Mirror switch rightward	Inn::4	Mirror quitch	Operate (rightward)	0
(L)	Ground	signal	Input	Mirror switch	Other than above	5
21 (L)	Ground	Door mirror sensor (RH) leftward/rightward signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)
22 (B)	Ground	Door mirror sensor (LH) leftward/rightward signal	Input	Door mirror LH pos	sition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
23 (P)	Ground	Telescopic sensor signal	Input	Telescopic position	1	Change between 0.8 (close to top) 4.4 (close to bottom)

Revision: 2013 February ADP-183 2012 G Coupe

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Condition		Voltage (V)							
+	-	Signal name	Input/ Output	Condition	וונ	(Approx.)							
24					Press	0							
24 (R)	Ground	Set switch signal	Input	Set switch	Other than above	5							
25					Press	0							
(V)	Ground	Memory switch 2 signal	Input	Memory switch 2	Other than above	5							
26 (P)	Ground	UART communication (RX)	Input	Ignition switch ON		10mSec/div 2V/div JMJIA0121ZZ							
07		Talanania awitah hasik			Operate (backward)	0							
27 (G)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Other than above	5							
		Door mirror motor (RH)		((v	Operate (down- ward)	Battery voltage							
30 (SB)	Ground	downward output	Output		Other than above	0							
(36)		Door mirror motor (RH)	_	Operate (rightward)	Battery voltage								
		rightward output											Other than above
31	Ground	Door mirror motor (LH)	Output	Door mirror (LH)	Operate (upward)	Battery voltage							
(G)	Giodila	upward output	Output	Door million (Em)	Other than above	0							
32	Ground	Door mirror motor (LH)	Output	Door mirror (LH)	Operate (leftward)	Battery voltage							
(L)	Cround	leftward output	Odiput	Door million (Erry	Other than above	0							
33 (W)	Ground	Sensor power supply	Input			5							
34 (V)	Ground	Power source (Fuse)	Input	_		Battery voltage							
35	Ground	Tilt motor upward output	Output	Steering tilt	Operate (upward)	Battery voltage							
(L)	O.Ouu	The state of the s	Caipar	C.C.C.III.Ig III.	Other than above	0							
36	Ground	Telescopic motor forward	Output	Stooring toloscop	Operate (forward)	Battery voltage							
(GR)		output signal		ic	Other than above	0							
39 (W)	Ground	Power source (C/B)	Input	_		Battery voltage							
40 (B)	Ground	Ground	_	_		0							

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition	Voltage (V)			
+	_	Signal name	Input/ Output	Condition		(Approx.)		
41 (Y)	Ground	Sensor ground	_	_		0		
42 (BG)	Ground	Tilt motor downward out-	Output	Steering tilt	Operate (down- ward)	Battery voltage		
(66)		put			Other than above	0		
44	Ground	Telescopic motor back-	Output	Steering telescop-	Operate (backward)	Battery voltage		
(G)	Giodila	ward output	Output	ic	Other than above	0		
48 (B)	Ground	Ground	_	_		0		

G

Α

В

С

D

Е

Н

ADP

K

L

 \mathbb{N}

Ν

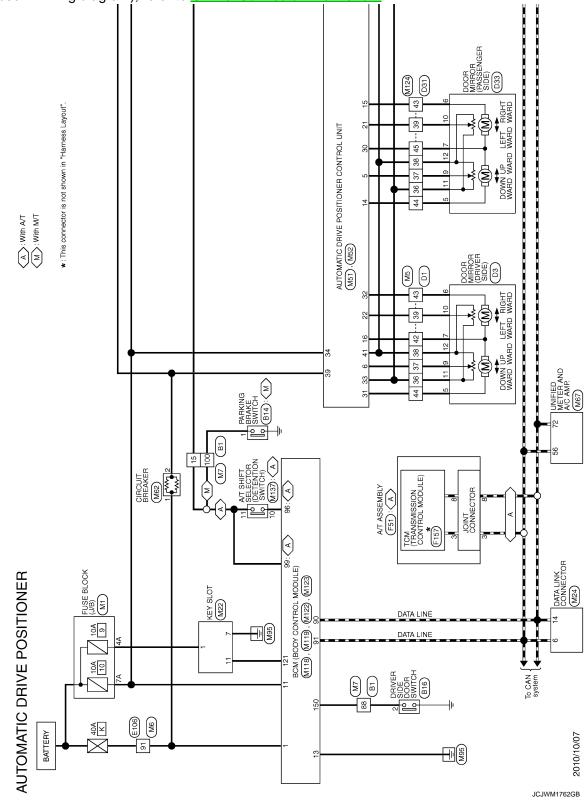
0

Ρ

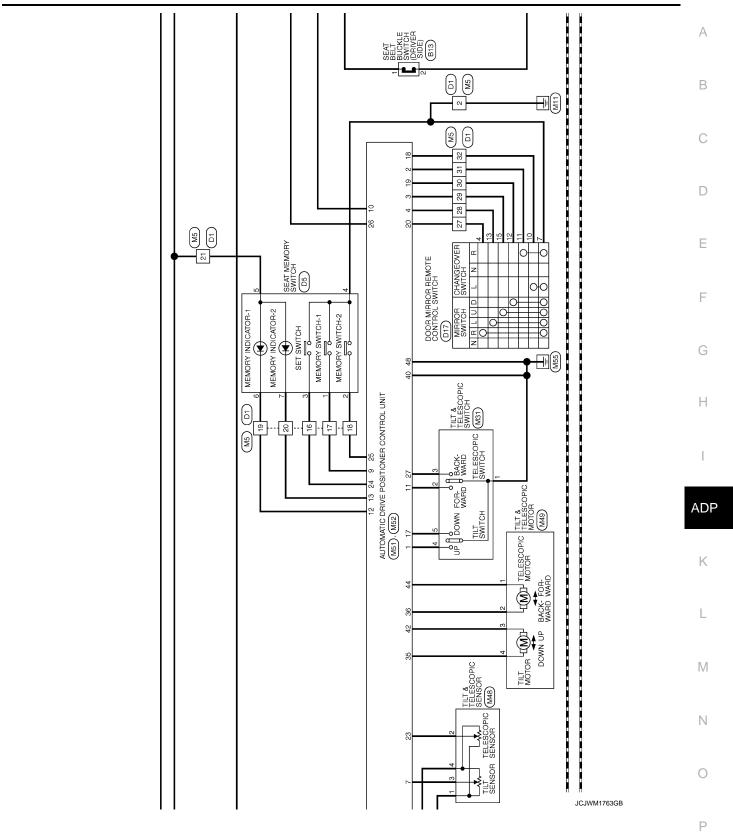
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

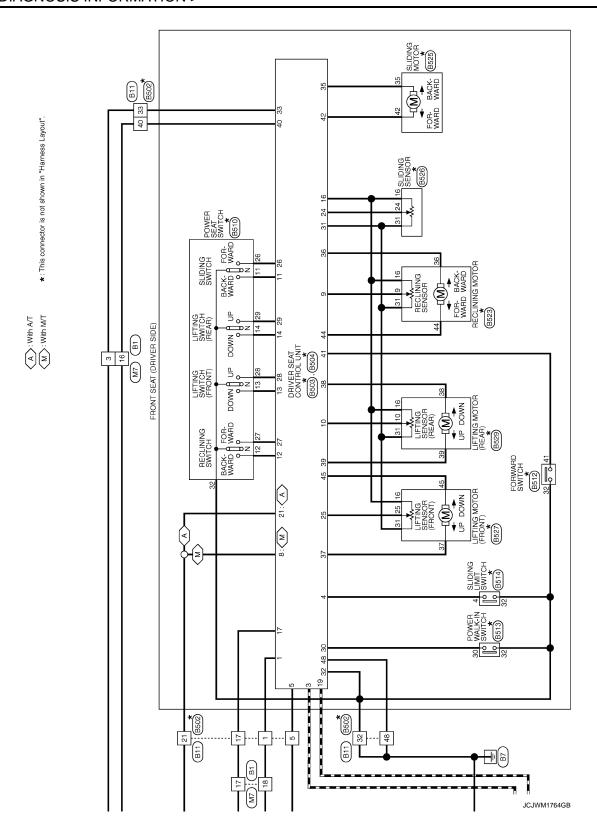
INFOID:00000000007804981

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



< ECU DIAGNOSIS INFORMATION >





< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS	_
	Α
MANUAL FUNCTION DOES NOT OPERATE ALL COMPONENT	
	В
ALL COMPONENT : Description	51
All functions do not operate when manually operated.(power seat, tilt & telescopic, and door mirror.	С
ALL COMPONENT : Diagnosis Procedure	52
1. CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	D
Check driver seat control unit power supply and ground circuit.	_
Refer to ADP-64, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure". Is the inspection result normal?	Е
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	F
Check automatic drive positioner control unit power supply and ground circuit.	_
Refer to ADP-65, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure".	G
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	Н
3.CONFIRM THE OPERATION	
Confirm the operation again.	_
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43</u> , " <u>Intermittent Incident</u> ".	
NO >> GO TO 1.	ADP
POWER SEAT	7(0)
POWER SEAT : Description	53 K
Power seat does not operate when manually operated.	
POWER SEAT : Diagnosis Procedure	54 _
1. CHECK POWER SEAT SWITCH GROUND CIRCUIT	_
Check power seat switch ground circuit. Refer to ADP-95, "Diagnosis Procedure".	M
Is the inspection result normal?	
YES >> GO TO 2.	Ν
NO >> Repair or replace harness or connector. 2.CONFIRM THE OPERATION	
Confirm the operation again.	0
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	Р
NO >> GO TO 1. STEERING POSITION FUNCTION DOES NOT OPERATE	
STEERING POSITION FUNCTION DOES NOT OPERATE: Description INFOID-00000000747185	55
Tit 0 talanceria de met ancesta colon manuallo ancesta d	

Revision: 2013 February ADP-189 2012 G Coupe

Tilt & telescopic do not operate when manually operated.

< SYMPTOM DIAGNOSIS >

STEERING POSITION FUNCTION DOES NOT OPERATE: Diagnosis Procedure

INFOID:0000000007471656

${f 1.}$ CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Check tilt & telescopic switch ground circuit.

Refer to ADP-96, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

SEAT SLIDING

SEAT SLIDING: Description

INFOID:0000000007471657

Seat sliding alone does not operate when manually operated.

SEAT SLIDING: Diagnosis Procedure

INFOID:0000000007471658

1. CHECK SLIDING MECHANISM

Check for the following.

- · Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK SLIDING SWITCH

Check sliding switch.

Refer to ADP-67, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK SLIDING MOTOR

Check sliding motor.

Refer to ADP-124, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

SEAT RECLINING

SEAT RECLINING : Description

INFOID:0000000007471659

Seat reclining only does not operate when manually operated.

< SYMPTOM DIAGNOSIS > SEAT RECLINING: Diagnosis Procedure INFOID:0000000007471660 Α 1. CHECK RECLINING MECHANISM Check for the following. В Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YFS >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK RECLINING SWITCH Check reclining switch. Refer to ADP-104, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK RECLINING MOTOR F Check reclining motor. Refer to ADP-126, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. Н 4.CONFIRM THE OPERATION Check the operation again. Is the result normal? YFS >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (FRONT) ADP SEAT LIFTING (FRONT): Description INFOID:000000000747166 K Seat lifting (front) only does not operate when manually operated. SEAT LIFTING (FRONT) : Diagnosis Procedure INFOID:0000000007471662 1. CHECK LIFTING (FRONT) MECHANISM Check for the following. Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. N NO >> Repair or replace the malfunctioning parts. 2.CHECK LIFTING SWITCH (FRONT) Check lifting switch (front). Refer to ADP-71, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK LIFTING MOTOR (FRONT) Check lifting motor (front).

Is the inspection result normal?

Revision: 2013 February

Refer to ADP-128, "Component Function Check".

< SYMPTOM DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR): Description

INFOID:0000000007471663

Seat lifting (rear) only does not operate when manually operated.

SEAT LIFTING (REAR): Diagnosis Procedure

INFOID:0000000007471664

1. CHECK LIFTING (REAR) MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to ADP-73, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

Refer to ADP-130, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

STEERING TILT

STEERING TILT: Description

INFOID:0000000007471665

Steering tilt only does not operate when manually operated.

STEERING TILT: Diagnosis Procedure

INFOID:0000000007471666

1. CHECK STEERING TILT MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

< SYMPTOM DIAGNOSIS >	_
NO >> Repair or replace the malfunctioning parts.	A
2.CHECK TILT SWITCH	_
Check tilt switch. Refer to ADP-83, "Component Function Check".	
Is the inspection result normal?	В
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3.CHECK TILT MOTOR	С
Check tilt motor. Refer to ADP-132, "Component Function Check".	_ D
Is the inspection result normal?	D
YES >> GO TO 4.	_
NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION	Е
	<u>—</u>
Check the operation again. Is the result normal?	F
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1. STEERING TELESCOPIC	G
STEERING TELESCOPIC : Description	667
Steering telescopic only does not operate when manually operated.	
STEERING TELESCOPIC : Diagnosis Procedure	668
1. CHECK STEERING TELESCOPIC MECHANISM	
Check for the following.	ADP
	ADP
Check for the following. • Mechanism deformation or pinched foreign materials.	ADP
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2.	
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH	
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85, "Component Function Check".	K
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85. "Component Function Check". Is the inspection result normal?	
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85, "Component Function Check".	K
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85. "Component Function Check". Is the inspection result normal? YES >> GO TO 3.	K
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor.	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134, "Component Function Check".	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134. "Component Function Check". Is the inspection result normal? YES >> GO TO 4.	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION Check the operation again.	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	K L M
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK TELESCOPIC SWITCH Check telescopic switch. Refer to ADP-85. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK TELESCOPIC MOTOR Check telescopic motor. Refer to ADP-134. "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION Check the operation again. Is the result normal?	K L M

< SYMPTOM DIAGNOSIS >

DOOR MIRROR: Description

INFOID:0000000007471669

Door mirror does not operate when manually operated.

DOOR MIRROR: Diagnosis Procedure

INFOID:0000000007471670

1. CHECK DOOR MIRROR MECHANISM

Check for the following.

- · Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK MIRROR SWITCH

Check mirror switch.

Refer to ADP-90, "MIRROR SWITCH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK MIRROR MOTOR

Check mirror motor.

Refer to ADP-136, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

< SYMPTOM DIAGNOSIS > MEMORY FUNCTION DOES NOT OPERATE Α ALL COMPONENT ALL COMPONENT: Description INFOID:0000000007471671 В All functions do not operate when memory operated. (power seat, tilt & telescopic, and door mirror) ALL COMPONENT: Diagnosis Procedure INFOID:0000000007471672 CHECK MANUAL OPERATION Check manual operation. D Is the inspection result normal? YES >> GO TO 2. NO >> Refer to ADP-189, "ALL COMPONENT : Diagnosis Procedure" Е 2.PERFORM MEMORY STORING PROCEDURE Perform memory storing procedure. F Refer to ADP-10, "MEMORY STORING: Special Repair Requirement". Is the inspection result normal? YES >> Memory function is normal. NO >> GO TO 3. 3.CHECK SEAT MEMORY SWITCH Check seat memory switch. Н Refer to ADP-87, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Replace seat memory switch. 4. CHECK DETENTION SWITCH ADP Check detention switch. Refer to ADP-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. >> Repair or replace the malfunctioning parts. NO 5. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". M NO >> GO TO 1. SEAT SLIDING Ν SEAT SLIDING : Description INFOID:0000000007471673 Seat sliding only does not operate when memory operated. SEAT SLIDING : Diagnosis Procedure INFOID:0000000007471674 CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to ADP-190, "SEAT SLIDING: Diagnosis Procedure" 2.CHECK SLIDING SENSOR

Revision: 2013 February ADP-195 2012 G Coupe

Check sliding sensor.

< SYMPTOM DIAGNOSIS >

Refer to ADP-101, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

SEAT RECLINING

SEAT RECLINING: Description

INFOID:0000000007471675

Seat reclining only does not operate when memory operated.

SEAT RECLINING : Diagnosis Procedure

INFOID:0000000007471676

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-191, "SEAT RECLINING: Diagnosis Procedure"

2.CHECK RECLINING SENSOR

Check reclining sensor.

Refer to ADP-104, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

SEAT LIFTING (FRONT)

SEAT LIFTING (FRONT): Description

INFOID:0000000007471677

Seat lifting (front) only does not operate when memory operated.

SEAT LIFTING (FRONT): Diagnosis Procedure

INFOID:0000000007471678

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-191, "SEAT LIFTING (FRONT): Diagnosis Procedure"

2.check lifting sensor (front)

Check lifting sensor (front).

Refer to ADP-107, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

< SYMPTOM DIAGNOSIS >	
3. CONFIRM THE OPERATION	
Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (REAR)	
SEAT LIFTING (REAR) : Description	WEO/D 00000007/17/770
Seat lifting (rear) only does not operate when memory operated.	INFOID:000000007471679
SEAT LIFTING (REAR) : Diagnosis Procedure	INFOID:000000007471680
1. CHECK MANUAL OPERATION	
Check manual operation.	
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to ADP-192, "SEAT LIFTING (REAR) : Diagnosis Procedure" 2.CHECK LIFTING SENSOR (REAR)	
Check lifting sensor (rear).	
Refer to ADP-110, "Component Function Check". Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. STEERING TELESCOPIC	А
STEERING TELESCOPIC : Description	INFOID:000000007471681
Steering telescopic only does not operate when memory operated.	
STEERING TELESCOPIC : Diagnosis Procedure	INFOID:000000007471682
1. CHECK MANUAL OPERATION	
Check manual operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to ADP-193, "STEERING TELESCOPIC : Diagnosis Procedure"	
2.check telescopic sensor	
Check steering telescopic sensor. Refer to ADP-116, "Component Function Check". Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	
VEO	

Revision: 2013 February ADP-197 2012 G Coupe

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

< SYMPTOM DIAGNOSIS >

NO >> GO TO 1. STEERING TILT

STEERING TILT: Description

INFOID:0000000007471683

Steering tilt only does not operate when memory operated.

STEERING TILT: Diagnosis Procedure

INFOID:0000000007471684

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-192, "STEERING TILT : Diagnosis Procedure"

2. CHECK TILT SENSOR

Check steering tilt sensor.

Refer to ADP-113, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

DOOR MIRROR

DOOR MIRROR: Description

INFOID:0000000007471685

Door mirror does not operate when memory operated.

DOOR MIRROR: Diagnosis Procedure

INFOID:0000000007471686

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-194, "DOOR MIRROR : Diagnosis Procedure"

2.CHECK MIRROR SENSOR

Check mirror sensor.

- Refer to ADP-119, "DRIVER SIDE: Component Function Check". (Driver side)
- Refer to ADP-121, "PASSENGER SIDE: Component Function Check". (Passenger side)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

MEMORY INDICATE DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >	
MEMORY INDICATE DOES NOT ILLUMINATE	Α
Diagnosis Procedure	
1.CHECK MEMORY INDICATOR	В
Check memory indicator. Refer to ADP-139, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 2.	С
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	D
Confirm the operation again. <u>Is the result normal?</u>	Е
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	_
NO >> GO TO 1.	F
	G
	Н
	I
	ADF
	ADF
	K
	L
	M
	Ν
	0

ADP-199 Revision: 2013 February 2012 G Coupe

Р

SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000007471688

1. CHECK SYSTEM SETTING

Check system setting.

Refer to ADP-11, "SYSTEM SETTING: Special Repair Requirement".

Is the inspection result normal?

YES >> Synchronization function is normal.

NO >> GO TO 2.

2. CHECK ALL FUNCTIONS MAMUAL OPERATION

Check all functions manual operation.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to ADP-189, "ALL COMPONENT : Diagnosis Procedure".

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

NO >> GO TO 1.

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

POWER WALK-IN FUNCTION DOES NOT OPERATE	А
Diagnosis Procedure	689
1. CHECK POWER WALK-IN FUNCTION	В
Check power walk-in function. Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description".	_
Is the inspection result normal?	С
YES >> Power walk-in function is OK. NO >> GO TO 2.	
2. PERFORM INITIALIZATION PROCEDURE	D
Perform initialization procedure. Perform initialization procedure. Perform initialization procedure. Perform initialization procedure. Perform initialization procedure.	_
Refer to <u>ADP-10, "SYSTEM INITIALIZATION: Special Repair Requirement"</u> . 2. Check power walk-in function.	Е
Refer to <u>ADP-39, "POWER WALK-IN FUNCTION: System Description".</u> Is the inspection result normal?	
YES >> Power walk-in function is normal.	F
NO >> GO TO 3.	
3.CHECK POWER WALK-IN SWITCH	G
Check power walk-in switch. Refer to ADP-81, "Component Function Check".	
Is the inspection result normal?	Н
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK SEAT BELT BUCKLE SWITCH	1
Check seat belt buckle switch.	_
Refer to ADP-77, "Component Function Check". Is the inspection result normal?	ADI
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	K
5.CHECK FORWARD SWITCH	_
Check forward switch. Refer to ADP-75, "Component Function Check".	L
Is the inspection result normal?	
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	M
6. CHECK SLIDING LIMIT SWITCH	171
Check sliding limit switch.	 N
Refer to ADP-79, "Component Function Check".	IN
Is the inspection result normal? YES >> GO TO 7.	
NO >> Repair or replace the malfunctioning parts.	O
CHECK DRIVER SIDE DOOR SWITCH	_
Check driver side door switch. Refer to DLK-62, "Component Function Check"	Р
Is the inspection result normal?	
YES >> GO TO 8.	
NO >> Repair or replace the malfunctioning parts.	
8.CONFIRM THE OPERATION	

Revision: 2013 February ADP-201 2012 G Coupe

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Refer to $\underline{\text{ADP-39.}}$ "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

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

NO >> GO TO 1.

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERA	ATE
Diagnosis Procedure	INFOID:0000000007471690
1. CHECK DOOR LOCK FUNCTION	
Check door lock function.	
Refer to DLK-7, "Work Flow". Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.PERFORM MEMORY STORING PROCEDURE	
 Perform memory storing procedure. Refer to <u>ADP-10</u>, "<u>MEMORY STORING</u>: <u>Special Repair Requirement</u>". 	
Check Intelligent Key interlock function.	
Refer to ADP-34, "INTELLIGENT KEY INTERLOCK FUNCTION: System Description".	
Is the inspection result normal? YES >> Intelligent Key inter lock function is normal.	
NO >> GO TO 1.	
	-

NORMAL OPERATING CONDITION

NORMAL OPERATING CONDITION

Description INFOID:0000000007471691

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

Symptom	Cause	Action to take	Reference page
Seat synchronization function does not operate.	The synchronization function will not operate if the steering (tilt, telescopic) or the door mirror moves to the operating end while the seat synchronization function is operating.	Perform the memory function or drive the vehicle at more than 7km/h (4 MPH).	ADP-24
	Seat adjustment value has exceed any of the values below. Seat sliding: 76 mm Seat reclining: 9.1 degrees Seat lifting (rear): 20 mm	_	_
Side support or lumbar support does not perform memory operation.	The side support and the lumbar support are controlled independently with no link to the automatic drive positioner system.	_	Side support: <u>SE-23</u> Lumbar support: SE-26
Memory function, power walk-in function, seat synchronization function, or Intelligent Key interlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: ADP-29 Power walk-in function: ADP-39
			Seat synchronization function: ADP-24
			Intelligent Key interlock function: ADP-34

PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Service INFOID:0000000007471694

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Work

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

ADP

Н

Α

В

D

Е

INFOID:0000000007471693

M

Ν

0

Р

Revision: 2013 February ADP-205 2012 G Coupe

PRECAUTIONS

< PRECAUTION >

- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
 - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER SEAT CONTROL UNIT

Exploded View

Refer to SE-163, "Exploded View".

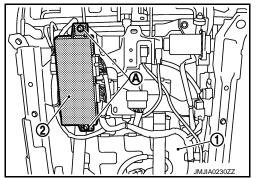
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove driver seat (1). Refer to <u>SE-166, "Removal and Installation"</u>.
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing driver seat, perform additional service when replacing control unit. Refer to <u>ADP-9</u>, "<u>ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".

ADP

Α

D

Е

F

Н

<

L

M

Ν

0

Р

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-23, "M/T MODELS : Exploded View"</u> (M/T models).

Removal and Installation

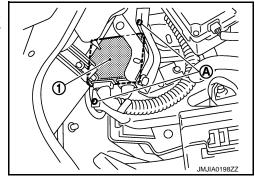
INFOID:0000000007471699

REMOVAL

CAUTION:

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

- Remove instrument driver lower panel. Refer to <u>IP-13</u>, <u>"A/T MODELS</u>: Removal and <u>Installation</u> (A/T models) or <u>IP-24</u>, <u>"M/T MODELS</u>: Removal and <u>Installation</u> (M/T models).
- 2. Remove screws (A).
- 3. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

SEAT MEMORY SWITCH

< REMOVAL AND INSTALLATION >

SEAT MEMORY SWITCH

Exploded View

Refer to INT-12, "Exploded View"

Removal and Installation

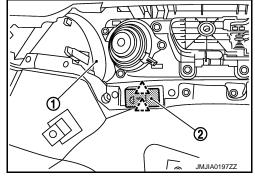
REMOVAL

CAUTION:

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

- 1. Remove front door finisher (1). Refer to INT-12, "Removal and Installation".
- 2. Press pawls and remove seat memory switch (2) from front door finisher (1).





INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

ADP

Α

В

C

D

Е

F

Н

K

L

M

Ν

0

Р

POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Exploded View

Refer to SE-163, "Exploded View".

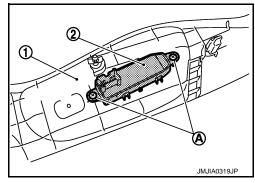
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-166</u>, <u>"Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove power seat switch (2) from seat cushion outer finisher (1).



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

SIDE SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

SIDE SUPPORT SWITCH

Exploded View

Refer to SE-163, "Exploded View"

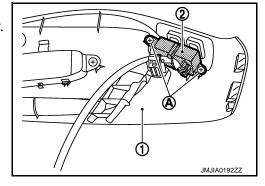
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to SE-166, "Removal and Installation"
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

ADP

Α

В

C

D

Е

F

Н

Κ

L

M

Ν

0

Р

TILT&TELESCOPIC SWITCH

< REMOVAL AND INSTALLATION >

TILT&TELESCOPIC SWITCH

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-23, "M/T MODELS : Exploded View"</u> (M/T models).

Removal and Installation

INFOID:0000000007471707

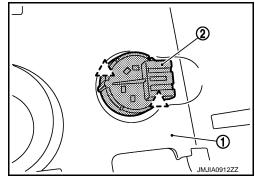
REMOVAL

CAUTION:

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

- Remove steering column mask (1). Refer to <u>IP-13</u>, "A/T <u>MODELS</u>: <u>Removal and Installation</u>" (A/T models) or <u>IP-24</u>, "M/T <u>MODELS</u>: <u>Removal and Installation</u>" (M/T models).
- 2. Press pawls and remove tilt & telescopic switch (2) from steering column mask (1).





INSTALLATION

Install in reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.