

SECTION **DLK**
DOOR & LOCK

A
B
C

CONTENTS

D
E

PRECAUTION	6	TRUNK LID OPENER SYSTEM :	
PRECAUTIONS	6	Component Description	20
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	6	SYSTEM (POWER DOOR LOCK SYSTEM)	21
Precaution for Procedure without Cowl Top Cover.....	6	System Diagram	21
Precaution for Servicing Doors and Locks	6	System Description	21
PREPARATION	8	SYSTEM (INTELLIGENT KEY SYSTEM)	23
PREPARATION	8	INTELLIGENT KEY SYSTEM	23
Special Service Tools	8	INTELLIGENT KEY SYSTEM : System Diagram.....	23
Commercial Service Tools	9	INTELLIGENT KEY SYSTEM : System Description	23
CLIP LIST	10	DOOR LOCK FUNCTION	24
Descriptions for Clips	10	DOOR LOCK FUNCTION : System Diagram	24
SYSTEM DESCRIPTION	14	DOOR LOCK FUNCTION : System Description	25
COMPONENT PARTS	14	REMOTE KEYLESS ENTRY FUNCTION	26
POWER DOOR LOCK SYSTEM	14	REMOTE KEYLESS ENTRY FUNCTION : System Diagram	27
POWER DOOR LOCK SYSTEM :		REMOTE KEYLESS ENTRY FUNCTION : System Description	27
Component Parts Location	14	KEY REMINDER FUNCTION	29
POWER DOOR LOCK SYSTEM :		KEY REMINDER FUNCTION : System Diagram	29
Component Description	15	KEY REMINDER FUNCTION : System Description	29
INTELLIGENT KEY SYSTEM	15	REMOTE ENGINE START FUNCTION	30
INTELLIGENT KEY SYSTEM : Component Parts Location	16	REMOTE ENGINE START FUNCTION : System Diagram	30
INTELLIGENT KEY SYSTEM :		REMOTE ENGINE START FUNCTION : System Description	30
Component Description	19	WELCOME LIGHT FUNCTION	32
INTEGRATED HOMELINK TRANSMITTER	19	WELCOME LIGHT FUNCTION : System Diagram	32
INTEGRATED HOMELINK TRANSMITTER :		32
Component Parts Location	19	WELCOME LIGHT FUNCTION : System Description	33
INTEGRATED HOMELINK TRANSMITTER :		33
Component Description	19	WARNING FUNCTION	33
TRUNK LID OPENER SYSTEM	20	WARNING FUNCTION : System Description	34
TRUNK LID OPENER SYSTEM :			
Component Parts Location	20		

F
G
H
I
J
DLK

L
M
N
O
P

TRUNK LID OPENER SYSTEM	37	DTC/CIRCUIT DIAGNOSIS	84
TRUNK LID OPENER SYSTEM : System Diagram	37	U1000 CAN COMM CIRCUIT	84
TRUNK LID OPENER SYSTEM : System Description	37	Description	84
SYSTEM (INTEGRATED HOMELINK TRANSMITTER)	40	DTC Logic	84
System Description	40	Diagnosis Procedure	84
SYSTEM (TRUNK LID OPENER SYSTEM)	41	U1010 CONTROL UNIT (CAN)	85
System Diagram	41	DTC Logic	85
System Description	41	Diagnosis Procedure	85
DIAGNOSIS SYSTEM (BCM)	42	B261B REMOTE ENGINE START	86
COMMON ITEM	42	DTC Logic	86
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	42	Diagnosis Procedure	86
DOOR LOCK	43	B2621 INSIDE ANTENNA	87
DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)	43	DTC Logic	87
INTELLIGENT KEY	44	Diagnosis Procedure	87
INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)	44	B2622 INSIDE ANTENNA	89
TRUNK	47	DTC Logic	89
TRUNK : CONSULT Function (BCM - TRUNK)	47	Diagnosis Procedure	89
ECU DIAGNOSIS INFORMATION	48	B26FD SHIFT LOCK SOLENOID	91
ECM, IPDM E/R, BCM	48	DTC Logic	91
List of ECU Reference	48	Diagnosis Procedure	91
WIRING DIAGRAM	49	B26FE HOOD SWITCH	94
HOMELINK UNIVERSAL TRANSCEIVER	49	DTC Logic	94
Wiring Diagram	49	Diagnosis Procedure	94
POWER DOOR LOCK SYSTEM	51	Component Inspection	95
Wiring Diagram	51	B26FF REMOTE KEYLESS ENTRY RECEIVER	96
INTELLIGENT KEY SYSTEM	61	DTC Logic	96
Wiring Diagram	61	Diagnosis Procedure	96
TRUNK LID OPENER	77	POWER SUPPLY AND GROUND CIRCUIT	98
Wiring Diagram	77	Diagnosis Procedure	98
BASIC INSPECTION	80	DOOR SWITCH	99
DIAGNOSIS AND REPAIR WORKFLOW	80	Description	99
Work Flow	80	Component Function Check	99
INSPECTION AND ADJUSTMENT	83	Diagnosis Procedure	99
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	83	Component Inspection	101
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description	83	DOOR LOCK AND UNLOCK SWITCH	102
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement	83	DRIVER SIDE	102
		DRIVER SIDE : Description	102
		DRIVER SIDE : Component Function Check	102
		DRIVER SIDE : Diagnosis Procedure (With LH and RH Anti-Pinch)	102
		DRIVER SIDE : Diagnosis Procedure (With LH Anti-Pinch Only)	103
		PASSENGER SIDE	104
		PASSENGER SIDE : Description	104
		PASSENGER SIDE : Component Function Check	105
		PASSENGER SIDE : Diagnosis Procedure (With LH and RH Anti-Pinch)	105

PASSENGER SIDE : Diagnosis Procedure (With LH Anti-Pinch Only)	106	PASSENGER SIDE : Description	133
OUTSIDE KEY ANTENNA (PASSENGER SIDE)	108	PASSENGER SIDE : Component Function Check	133
Component Function Check	108	PASSENGER SIDE : Diagnosis Procedure	133
Diagnosis Procedure	108	REAR LH	134
OUTSIDE KEY ANTENNA (DRIVER SIDE)	110	REAR LH : Description	134
Component Function Check	110	REAR LH : Component Function Check	134
Diagnosis Procedure	110	REAR LH : Diagnosis Procedure	134
OUTSIDE KEY ANTENNA (REAR BUMPER)	112	REAR RH	135
Component Function Check	112	REAR RH : Description	135
Diagnosis Procedure	112	REAR RH : Component Function Check	135
KEY CYLINDER SWITCH	114	REAR RH : Diagnosis Procedure	135
Description	114	TRUNK LID OPENER ACTUATOR	137
Component Function Check	114	Description	137
Diagnosis Procedure (With LH and RH Anti-Pinch) ..	114	Component Function Check	137
Diagnosis Procedure (With LH Anti-Pinch Only) ..	115	Diagnosis Procedure	137
Component Inspection	116	INTELLIGENT KEY WARNING BUZZER	139
UNLOCK SENSOR	118	Description	139
Description	118	Component Function Check	139
Component Function Check	118	Diagnosis Procedure	139
Diagnosis Procedure	118	Component Inspection	140
Component Inspection	119	REMOTE KEYLESS ENTRY RECEIVER	141
TRUNK LID OPENER SWITCH	121	Description	141
Description	121	Component Function Check	141
Component Function Check	121	Diagnosis Procedure	141
Diagnosis Procedure	121	INTELLIGENT KEY BATTERY AND FUNCTION	143
Component Inspection	122	Description	143
TRUNK LAMP SWITCH	123	Component Function Check	143
Description	123	Diagnosis Procedure	143
Component Function Check	123	WARNING CHIME FUNCTION	145
Diagnosis Procedure	123	Description	145
Component Inspection	124	Component Function Check	145
DOOR REQUEST SWITCH	126	Diagnosis Procedure	145
Description	126	HAZARD FUNCTION	146
Component Function Check	126	Description	146
Diagnosis Procedure	126	Component Function Check	146
Component Inspection	128	Diagnosis Procedure	146
TRUNK OPENER REQUEST SWITCH	129	HOMELINK UNIVERSAL TRANSCEIVER	147
Description	129	Description	147
Component Function Check	129	Component Function Check	147
Diagnosis Procedure	129	Diagnosis Procedure	147
Component Inspection	130	SYMPTOM DIAGNOSIS	149
DOOR LOCK ACTUATOR	132	INTELLIGENT KEY SYSTEM SYMPTOMS ...	149
DRIVER SIDE	132	Diagnosis Procedure	149
DRIVER SIDE : Description	132	ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH	150
DRIVER SIDE : Component Function Check	132	Description	150
DRIVER SIDE : Diagnosis Procedure	132	Diagnosis Procedure	150
PASSENGER SIDE	133		

A
B
C
D
E
F
G
H
I
J
DLK
L
M
N
O
P

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)	152	HOOD ASSEMBLY : Removal and Installation	167
Description	152	HOOD ASSEMBLY : Adjustment	169
Diagnosis Procedure	152	HOOD HINGE	171
DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)	154	HOOD HINGE : Removal and Installation	171
Description	154	HOOD SUPPORT ROD	172
Diagnosis Procedure	154	HOOD SUPPORT ROD : Removal and Installation	172
INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)	155	HOOD LOCK CONTROL	172
Description	155	HOOD LOCK CONTROL : Component Parts Location	172
Diagnosis Procedure	155	HOOD LOCK CONTROL : Removal and Installation	173
DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY	157	RADIATOR CORE SUPPORT	176
Description	157	Removal and Installation	176
Diagnosis Procedure	157	FRONT FENDER	178
DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY	158	Exploded View	178
Description	158	Removal and Installation	178
Diagnosis Procedure	158	Adjustment	179
INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)	159	FRONT DOOR	181
Description	159	DOOR ASSEMBLY	181
Diagnosis Procedure	159	DOOR ASSEMBLY : Removal and Installation	181
DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)	161	DOOR ASSEMBLY : Adjustment	183
Description	161	DOOR STRIKER	185
Diagnosis Procedure	161	DOOR STRIKER : Removal and Installation	185
DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)	162	DOOR HINGE	185
Description	162	DOOR HINGE : Removal and Installation	185
Diagnosis Procedure	162	DOOR CHECK LINK	186
INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)	164	DOOR CHECK LINK : Removal and Installation	186
Description	164	REAR DOOR	187
Diagnosis Procedure	164	DOOR ASSEMBLY	187
INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)	166	DOOR ASSEMBLY : Removal and Installation	187
Description	166	DOOR ASSEMBLY : Adjustment	188
Diagnosis Procedure	166	DOOR STRIKER	191
REMOVAL AND INSTALLATION	167	DOOR STRIKER : Removal and Installation	191
HOOD	167	DOOR HINGE	191
HOOD ASSEMBLY	167	DOOR HINGE : Removal and Installation	191
HOOD ASSEMBLY : Exploded View	167	DOOR CHECK LINK	192
		DOOR CHECK LINK : Removal and Installation	192
		DOOR HANDLE	194
		FRONT DOOR HANDLE	194
		FRONT DOOR HANDLE : Exploded View	194
		FRONT DOOR HANDLE : Removal and Installation - Inside Handle	194
		FRONT DOOR HANDLE : Removal and Installation - Outside Handle	195
		REAR DOOR HANDLE	197

REAR DOOR HANDLE : Exploded View	197	SEATBACK LOCK KEY CYLINDER : Removal and Installation	215	A
REAR DOOR HANDLE : Removal and Installation - Inside Handle	197	DOOR SWITCH	216	B
REAR DOOR HANDLE : Removal and Installation - Outside Handle	198	Removal and Installation	216	
DOOR LOCK	200	INSIDE KEY ANTENNA	217	
FRONT DOOR LOCK	200	FRONT CONSOLE ANTENNA	217	C
FRONT DOOR LOCK : Exploded View	200	FRONT CONSOLE ANTENNA : Removal and In- stallation	217	
FRONT DOOR LOCK : Removal and Installation ..	200	REAR PARCEL SHELF ANTENNA	217	D
REAR DOOR LOCK	201	REAR PARCEL SHELF ANTENNA : Removal and Installation	217	
REAR DOOR LOCK : Exploded View	201	OUTSIDE KEY ANTENNA	218	E
REAR DOOR LOCK : Removal and Installation ..	201	DRIVER SIDE	218	F
TRUNK LID	203	DRIVER SIDE : Removal and Installation	218	
TRUNK LID ASSEMBLY	203	PASSENGER SIDE	218	G
TRUNK LID ASSEMBLY : Exploded View	203	PASSENGER SIDE : Removal and Installation ..	218	
TRUNK LID ASSEMBLY : Removal and Installa- tion	203	REAR BUMPER	218	H
TRUNK LID ASSEMBLY : Adjustment	205	REAR BUMPER : Removal and Installation	218	
TRUNK LID HINGE	206	DOOR REQUEST SWITCH	219	I
TRUNK LID HINGE : Removal and Installation ...	206	DRIVER SIDE	219	J
TORSION BAR	207	DRIVER SIDE : Removal and Installation	219	
TORSION BAR : Removal and Installation	207	PASSENGER SIDE	219	
TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID	207	PASSENGER SIDE : Removal and Installation ...	219	
TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID : Removal and Installation	207	INTELLIGENT KEY WARNING BUZZER	220	
EMERGENCY LEVER	208	Removal and Installation	220	
EMERGENCY LEVER : Removal and Installation ..	208	REMOTE KEYLESS ENTRY RECEIVER	221	DLK
TRUNK LID STRIKER	208	Removal and Installation	221	
TRUNK LID STRIKER : Removal and Installation ..	208	INTELLIGENT KEY BATTERY	222	L
FUEL FILLER LID OPENER	210	Removal and Installation	222	
Exploded View	210	TRUNK LID OPENER CANCEL SWITCH	223	M
FUEL FILLER LID	210	Removal and Installation	223	
FUEL FILLER LID : Removal and Installation	210	TRUNK LID OPENER SWITCH	224	N
FUEL FILLER OPENER CABLE	211	Removal and Installation	224	
FUEL FILLER OPENER CABLE : Removal and Installation	211	TRUNK OPENER REQUEST SWITCH	225	O
FUEL FILLER LID LOCK	212	Removal and Installation	225	
FUEL FILLER LID LOCK : Removal and Installa- tion	212	UNIT DISASSEMBLY AND ASSEMBLY ..	226	P
KEY CYLINDER	214	FRONT DOOR	226	
GLOVE BOX LID KEY CYLINDER	214	Exploded View	226	
GLOVE BOX LID KEY CYLINDER : Removal and Installation	214	Disassembly and Assembly	226	
SEATBACK LOCK KEY CYLINDER	215	REAR DOOR	228	
		Exploded View	228	
		Disassembly and Assembly	228	

PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000012591968

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

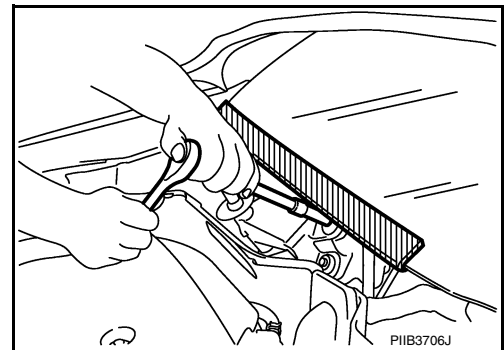
WARNING:

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

Precaution for Procedure without Cowl Top Cover

INFOID:000000012591969

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Precaution for Servicing Doors and Locks

INFOID:000000012591970

WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use,

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.

PRECAUTIONS

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- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

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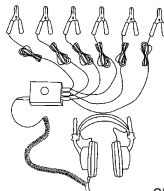

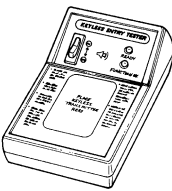
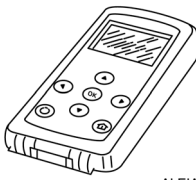
PREPARATION

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Special Service Tools


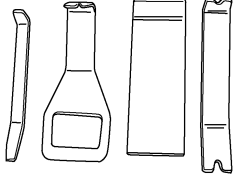
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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (J-39570) Chassis Ear</p>  <p>SIIA0993E</p>	<p>Locating the noise</p>
<p>— (J-50397) NISSAN Squeak and Rattle Kit</p>  <p>ALJIA1232ZZ</p>	<p>Repairing the cause of noise</p>
<p>— (J-43241) Remote Keyless Entry Tester</p>  <p>LEL946A</p>	<p>Used to test keyfobs</p>
<p>— (J-50190) Signal Tech II</p>  <p>ALEIA0131ZZ</p>	<ul style="list-style-type: none"> • Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Test remote keyless entry keyfob relative signal strength • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength • Compatible with future sensors • Equipped with a display

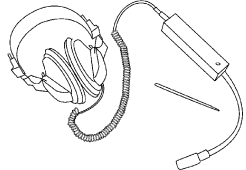


PREPARATION

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Tool number (TechMate No.) Tool name	Description	
KV48105501 (J-45295-A) Transmitter activation tool	 <ul style="list-style-type: none"> • Activate TPMS transmitter IDs • Compatible with future sensors • Equipped with a display (KV48105501 only) 	A B C
— (J-46534) Trim Tool Set	 Removing trim components	D E F

Commercial Service Tools

INFOID:000000012591972

(TechMate No.) Tool name	Description	
(J-39565) Engine Ear	 Locating the noise	G H I J
(—) Power tool	 Loosening nuts, screws and bolts	DLK L
(—) Torsion bar wrench	 Removing trunk lid torsion bar	M N O

CLIP LIST


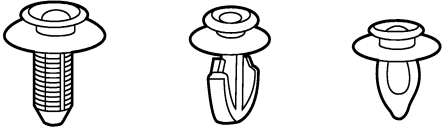


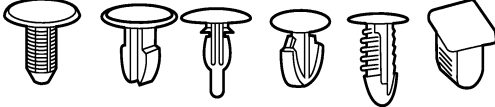
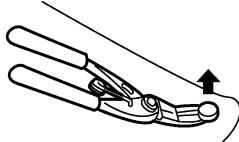

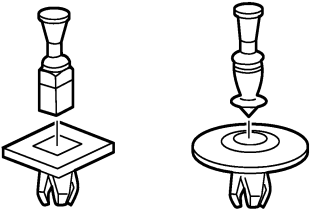
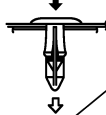
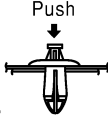

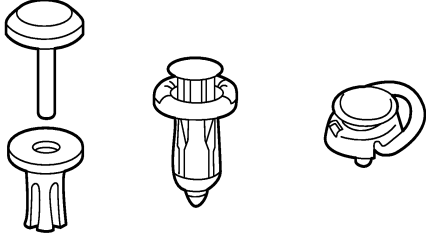
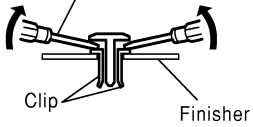

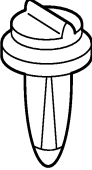
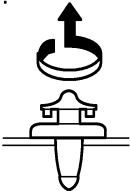
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CLIP LIST

Descriptions for Clips

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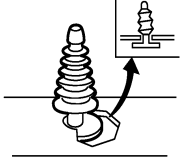
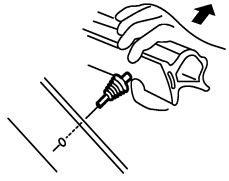

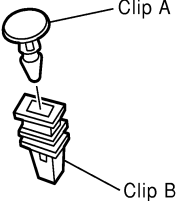
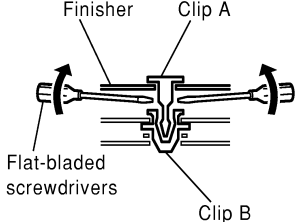

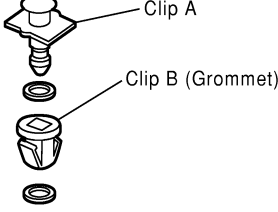
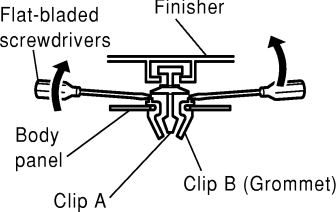


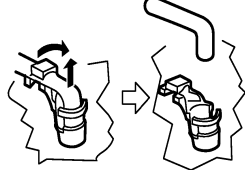

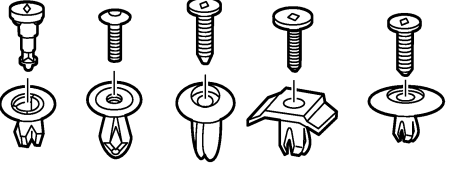

Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
<p>C103</p> 		 <p>Removal: Remove with a clip remover.</p>
<p>C203</p> 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p>  <p>Installation:</p> 
<p>C205</p> 		<p>Removal:</p> 
<p>C206</p> 		<p>Removal:</p> 

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CLIP LIST

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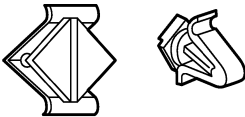

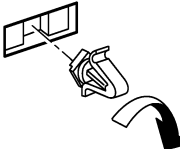

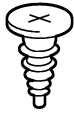



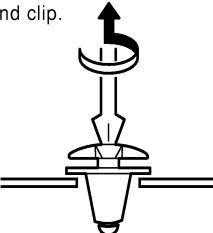


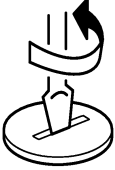
Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p>Removal:</p> 
<p>CF110</p> 		<p>Removal:</p> 
<p>CF118</p> 		<p>Removal:</p> 
<p>CR103</p> 		<p>Removal: Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p>Removal:</p> <ol style="list-style-type: none"> 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 

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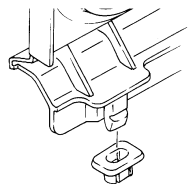
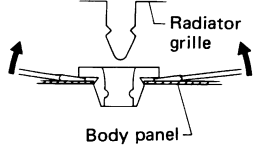
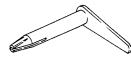
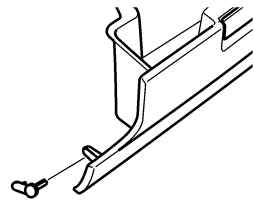
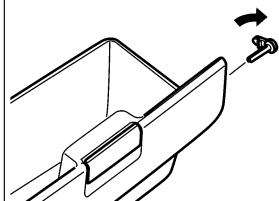

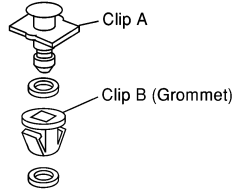
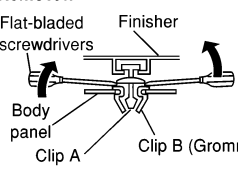
< PREPARATION >

Symbol No.	Shapes	Removal & Installation	
CG101 		Removal:  Rotate 45° to remove	Installation: 
CS102 			
CS113 		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

SIIA0317E

CLIP LIST

< PREPARATION >

Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers.</p>  <p>Radiator grille Body panel</p>
<p>CE114</p> 		
<p>CF118</p> 	 <p>Clip A Clip B (Grommet)</p>	<p>Removal: Flat-bladed screwdrivers Finisher</p>  <p>Body panel Clip A Clip B (Grommet)</p>

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COMPONENT PARTS

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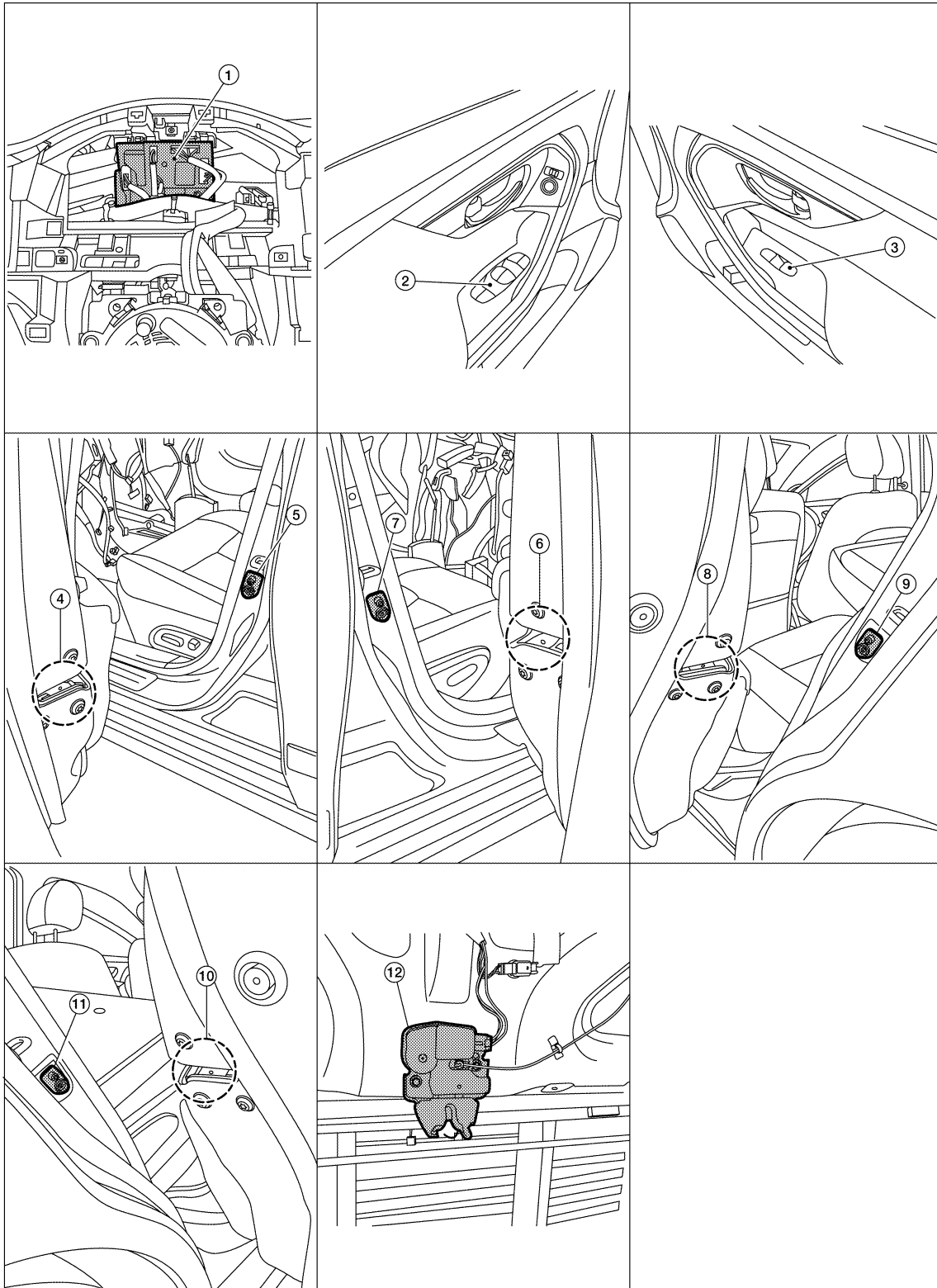
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000012591974



AWKIA2369ZZ

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- | | | | |
|--|--|--|---|
| 1. BCM (view with combination meter removed) | 2. Main power window and door lock/unlock switch | 3. Power window and door lock/unlock switch RH | A |
| 4. Front door lock actuator LH | 5. Front door switch LH | 6. Front door lock actuator RH | |
| 7. Front door switch RH | 8. Rear door lock actuator LH | 9. Rear door switch LH | B |
| 10. Rear door lock actuator RH | 11. Rear door switch RH | 12. Trunk lamp switch and trunk release solenoid | |

POWER DOOR LOCK SYSTEM : Component Description

INFOID:000000012591975

Item	Function	D
BCM	Controls the door lock system.	
Door switch	Inputs door open/close condition to BCM.	
Door lock and unlock switch	<ul style="list-style-type: none"> • Detects if door lock and unlock switch is press/release. • Integrated in the main power window and door lock/unlock switch and power window and door lock/unlock switch (RH). 	E
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.	F
Trunk lamp switch and trunk release solenoid	Output release signal from BCM and release trunk lid.	

INTELLIGENT KEY SYSTEM

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COMPONENT PARTS

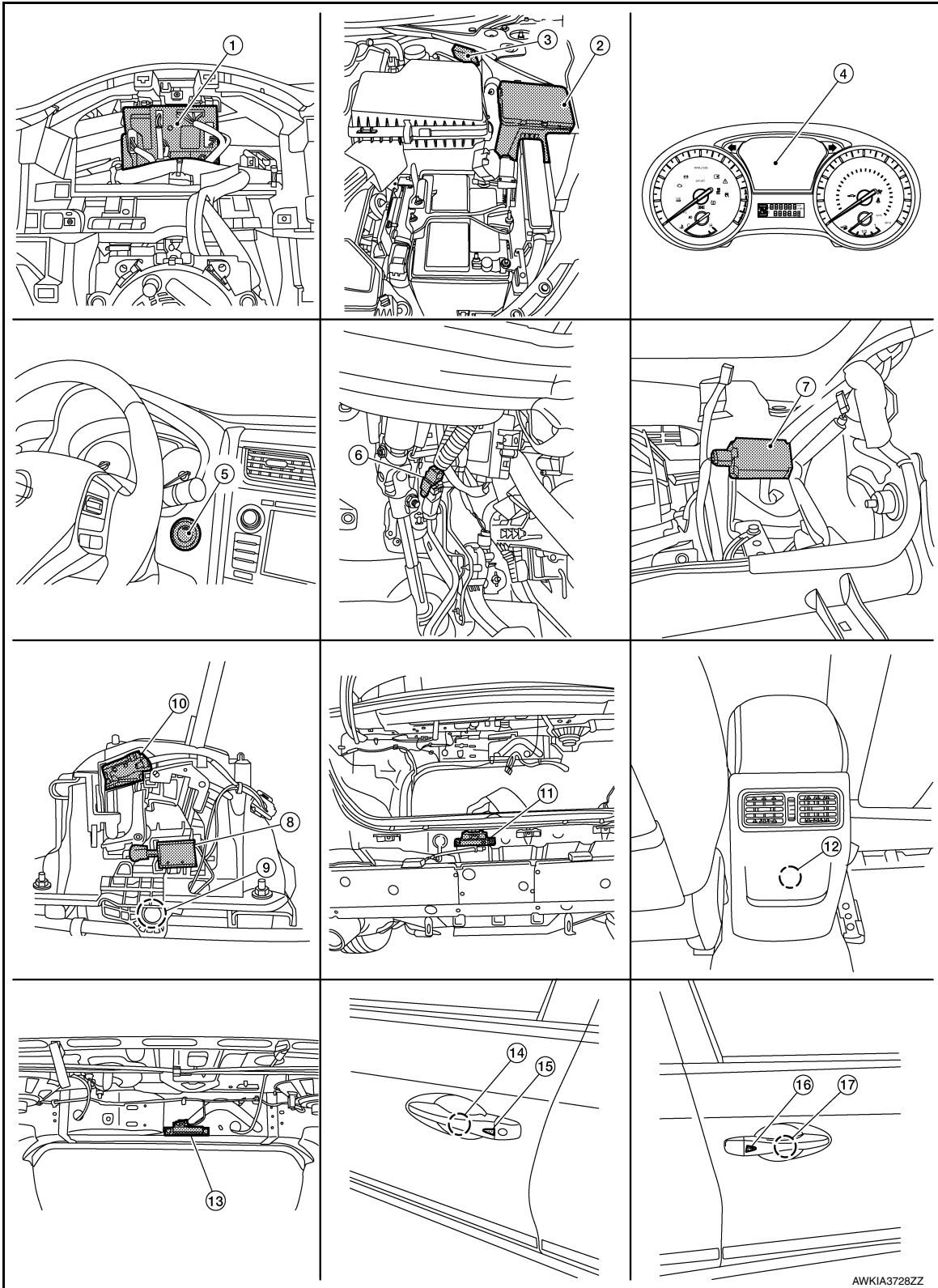
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INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:000000012591976

COMPONENT PARTS

< SYSTEM DESCRIPTION >

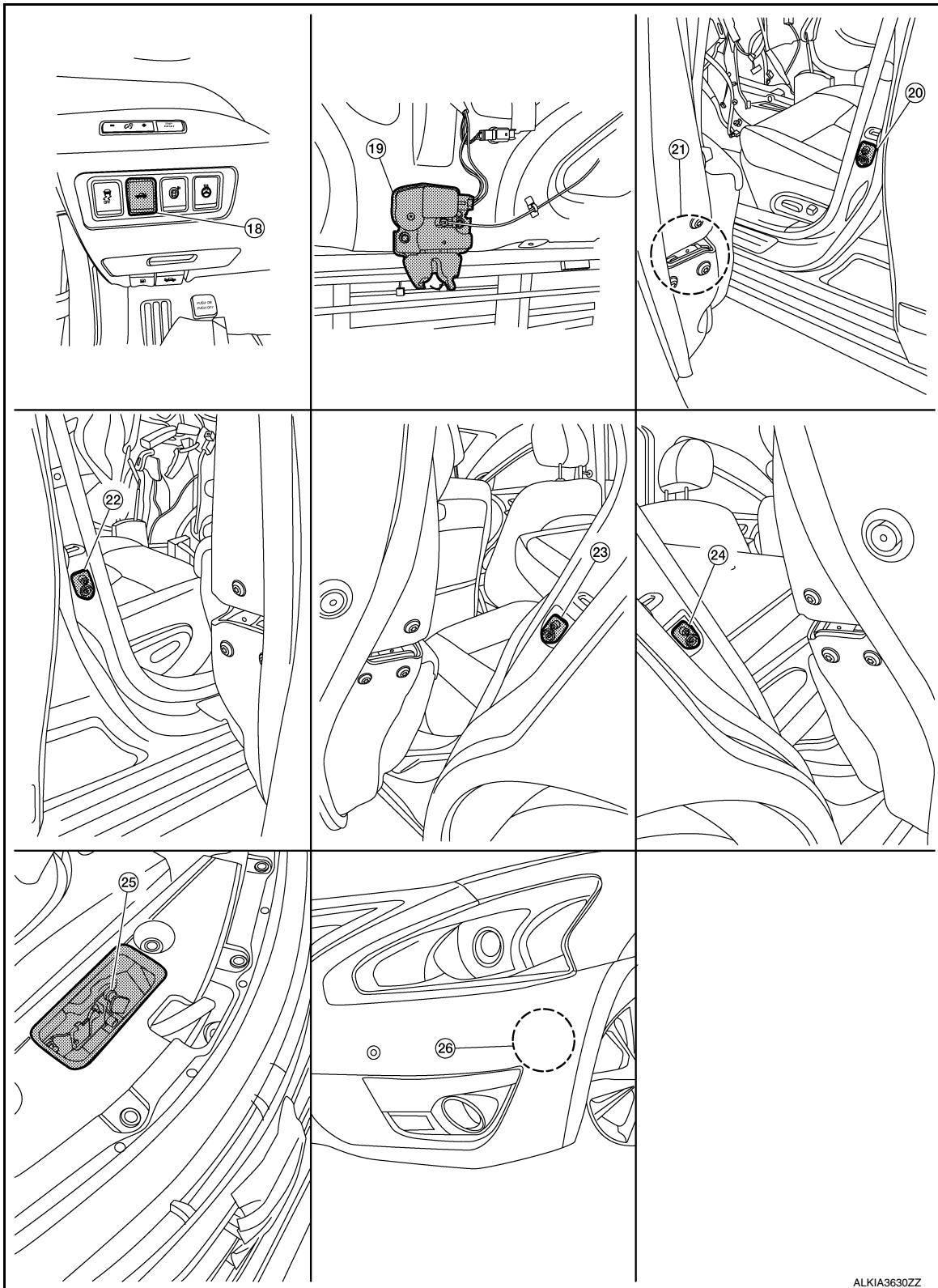


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COMPONENT PARTS

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- | | | |
|--|---|---|
| 1. BCM (view with combination meter removed) | 2. IPDM E/R | 3. Intelligent Key warning buzzer |
| 4. Combination meter | 5. Push-button ignition switch | 6. Stop lamp switch |
| 7. Remote keyless entry receiver (view from RH side of dash with dash pad removed) | 8. CVT shift selector (shift lock solenoid) | 9. CVT shift selector [park position switch (shift selector)] |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- | | | |
|--|---|--|
| 10. CVT shift selector (park position switch) | 11. Outside key antenna (rear bumper) (view with rear bumper cover removed) | 12. Inside key antenna (front console) |
| 13. Inside key antenna (rear parcel shelf) | 14. Outside key antenna (LH) | 15. Door request switch (LH) (if equipped) |
| 16. Door request switch (RH) (if equipped) | 17. Outside key antenna (RH) | 18. Trunk lid opener switch |
| 19. Trunk lamp switch and trunk release solenoid | 20. Front door switch LH | 21. Front door lock assembly LH |
| 22. Front door switch RH | 23. Rear door switch LH | 24. Rear door switch RH |
| 25. Hood latch (hood switch) | 26. Horn (high and low) | |

INTELLIGENT KEY SYSTEM : Component Description

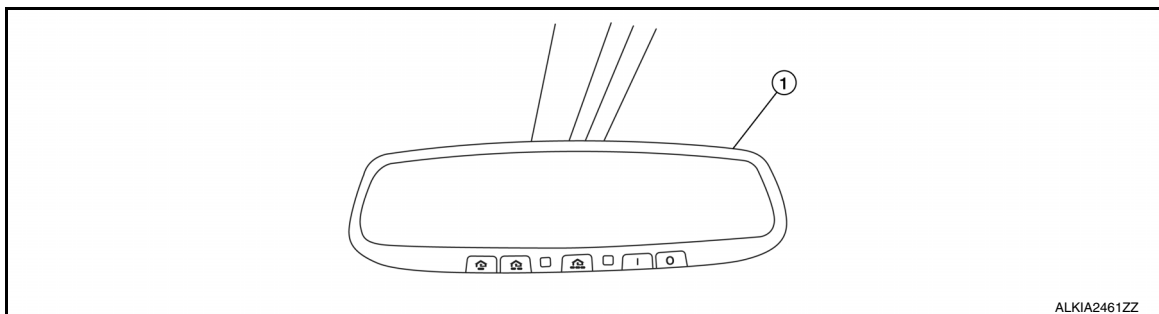
INFOID:000000012591977

Item	Function
BCM	Controls the Intelligent Key system.
Trunk lamp switch	Inputs trunk lid open/close condition to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Stop lamp switch	Inputs the brake pedal position condition to BCM.
Push-button ignition switch	Inputs the push-button ignition switch ON/OFF condition to BCM.
Hood switch	Inputs hood open/close condition to BCM.
Door switch	Inputs door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch (if equipped)	Inputs lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTEGRATED HOMELINK TRANSMITTER

INTEGRATED HOMELINK TRANSMITTER : Component Parts Location

INFOID:000000012591978



1. Auto anti-dazzling inside mirror

INTEGRATED HOMELINK TRANSMITTER : Component Description

INFOID:000000012591979

Item	Function
Homelink® universal transceiver	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

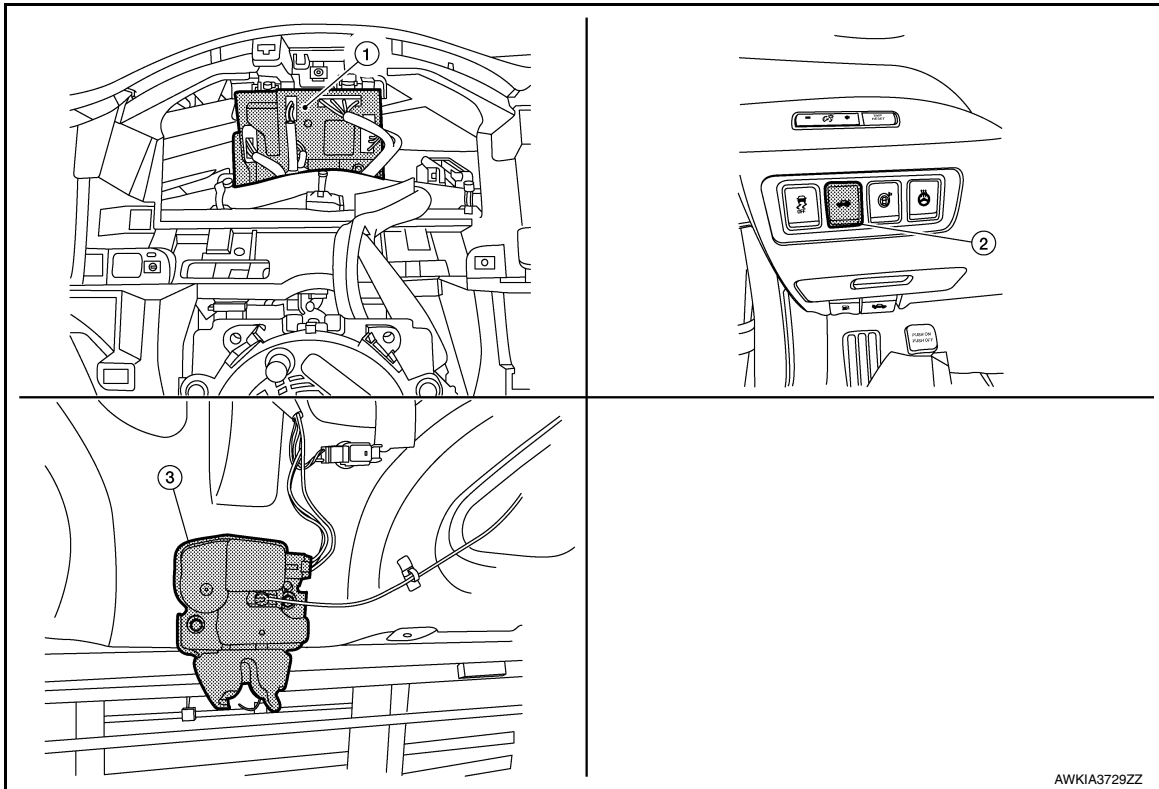
COMPONENT PARTS

< SYSTEM DESCRIPTION >

TRUNK LID OPENER SYSTEM

TRUNK LID OPENER SYSTEM : Component Parts Location

INFOID:000000012591980



1. BCM (view with combination meter removed)

2. Trunk lid opener switch

3. Trunk lamp switch and trunk release solenoid (trunk release solenoid)

TRUNK LID OPENER SYSTEM : Component Description

INFOID:000000012591981

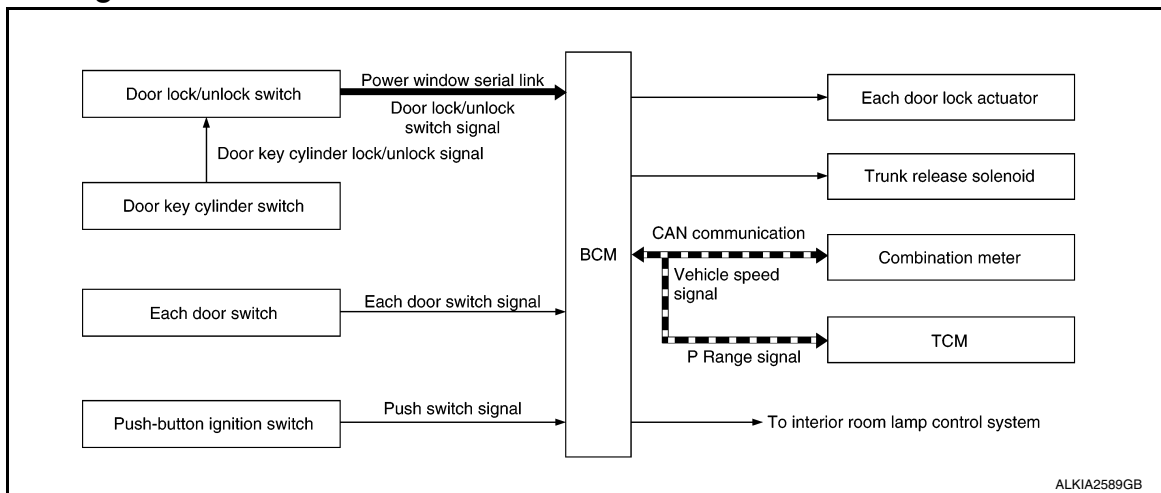
Item	Function
BCM	Transmits trunk open operation to BCM.
Trunk lid opener switch	Transmits trunk open operation to BCM.
Trunk release solenoid	Opens the trunk with the open signal from BCM

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram



System Description

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switch (driver side) is built into main power window and door lock/unlock switch.
- The door lock and unlock switch (passenger side) is built into power window and door lock/unlock switch RH.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder Switch

- With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position locks door lock actuators of all doors.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver side door, turning it to unlock position again within 60 seconds after the first unlock operation unlocks all of the other door actuators. (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Driver side door key cylinder LOCK/UNLOCK operation can activate power window. Refer to [PWC-70, "System Description"](#).

IGNITION POSITION WARNING FUNCTION

When door lock and unlock switch are operated while driver side door is open and ignition position is ACC or ON, door locks once but immediately unlocks.

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to [INL-7, "System Description"](#).

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

The interlock door lock function is the function that locks all doors linked with the vehicle speed or shift position. It has 2 types as per the following items:

Vehicle Speed Sensing Auto Door Lock

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

P Range Interlock Door Lock

All doors are locked when shifting the selector lever from the P (Park) position to any position other than P (Park).

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is in the ON position, all doors are closed and the shift signal received from the TCM via CAN communication shifted from the P (Park) position to any position other than P (Park).

Setting change of Automatic Door Lock/Unlock Function

The lock operation setting of the automatic door lock/unlock function can be changed.

With CONSULT

The ON/OFF switching of the automatic door lock function and the type selection of the automatic door lock/unlock function can be performed in the "Work support".

Without CONSULT

The automatic door lock function ON/OFF can be switched by performing the following operation:

1. Close all doors. (door switch OFF)
2. Ignition switch: OFF→ON
3. Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
4. The switching complete when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

The automatic door lock/unlock function is the function that unlocks all doors linked with the key position or shift position. It has 2 types as per the following items:

IGN OFF Interlock Door Unlock

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

P Range Interlock Door Unlock

All doors are unlocked when shifting the selector lever from any position other than the P to P position.

BCM outputs the unlock signal to all door lock actuators when it detects that the ignition switch is in the ON position and the shift signal received from TCM via CAN communication is shifted from any position other than the P to P position.

Setting change of Automatic Door Lock/Unlock Function

The unlock operation setting of the automatic door lock/unlock function can be changed.

With CONSULT

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed in the "Work support".

Without CONSULT

The automatic door lock/unlock function ON/OFF can be switched by performing the following operation:

1. Close all doors. (door switch OFF)
2. Ignition switch: OFF→ON
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
4. The switching is complete when the hazard lamp blinks:

OFF → ON : 2 blinks

ON → OFF : 1 blink

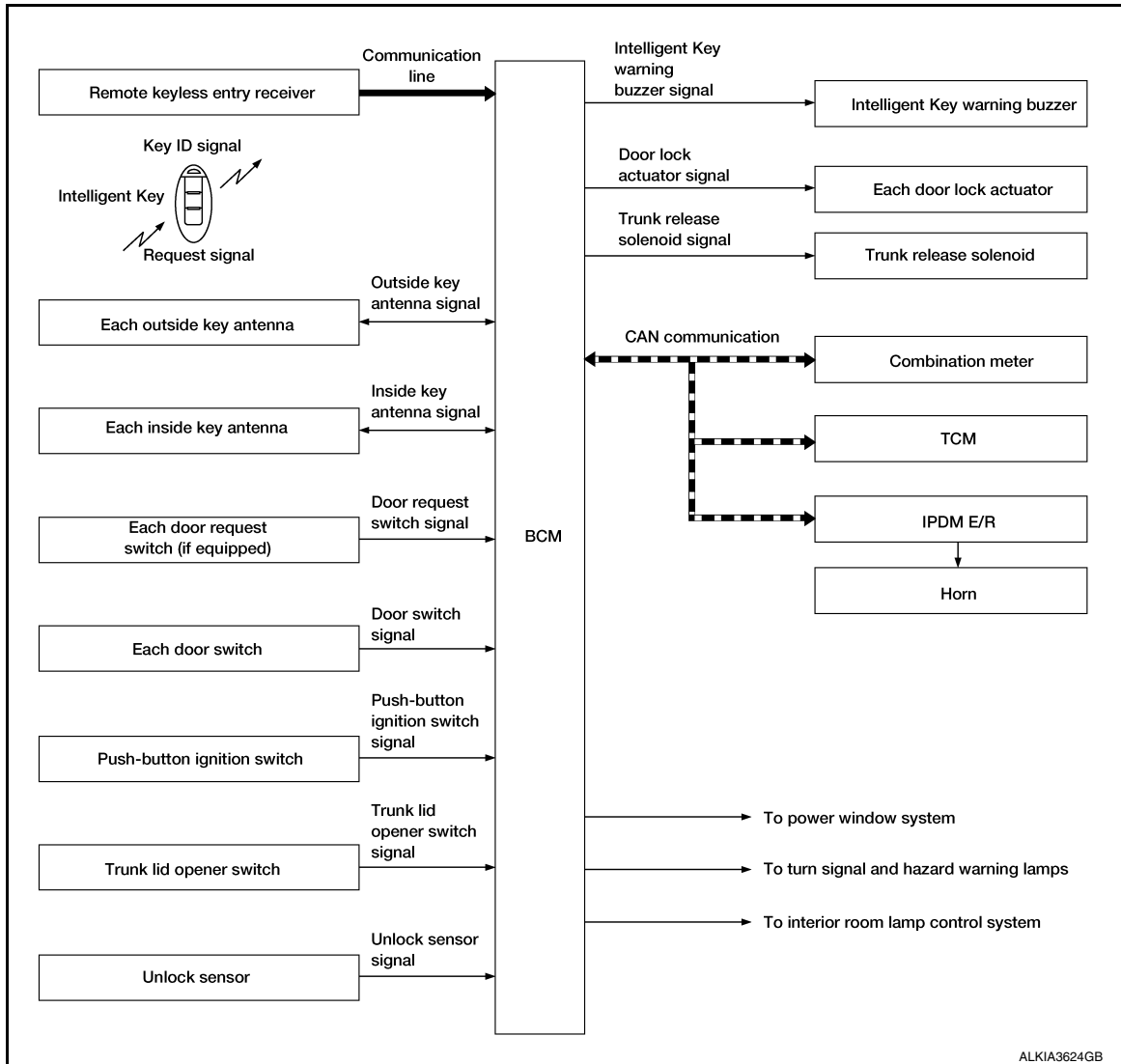
SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:000000012591984



INTELLIGENT KEY SYSTEM : System Description

INFOID:000000012591985

- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).

CAUTION:

The driver should always carry the Intelligent Key.

- The settings for each function can be changed with CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with CONSULT.
- For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

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SYSTEM (INTELLIGENT KEY SYSTEM)

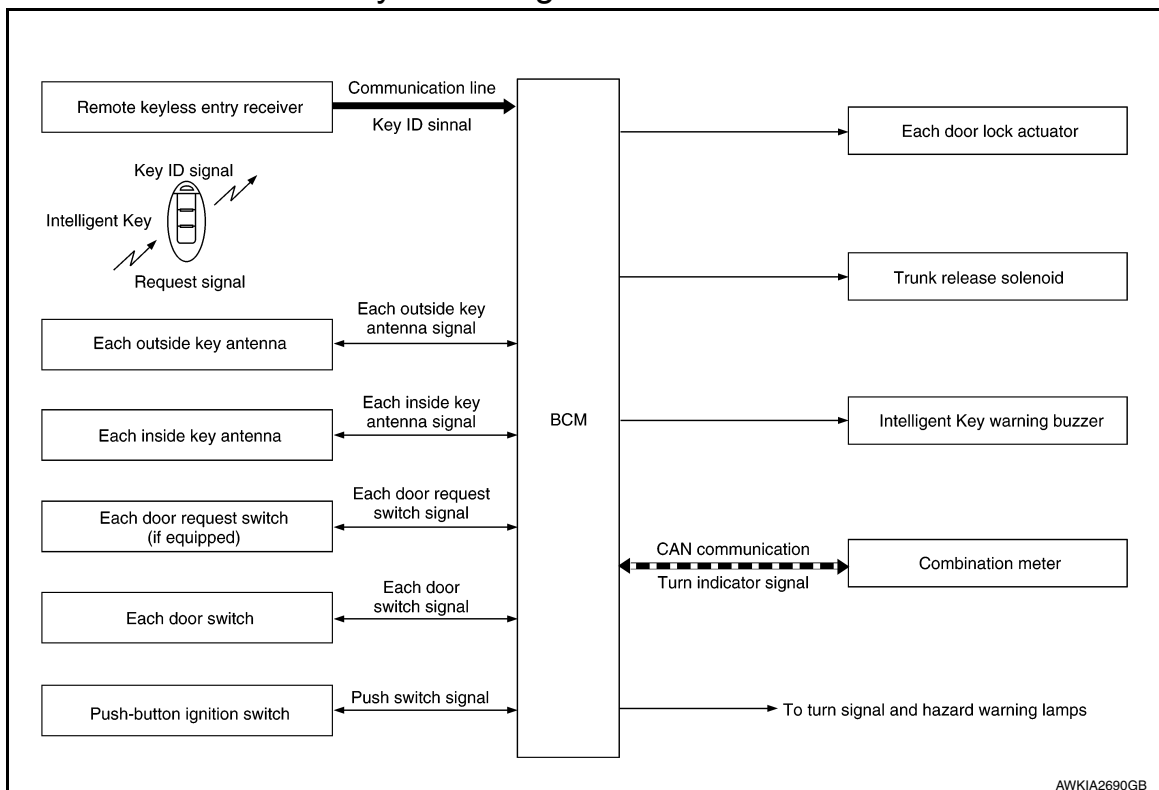
< SYSTEM DESCRIPTION >

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch (if equipped).	DLK-25
Trunk lid opener	The trunk lid can be opened by carrying the Intelligent Key and pressing the trunk lid opener switch.	DLK-41
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-27
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-29
Welcome light	When the Intelligent Key is carried, and vehicle doors are approached, the BCM illuminates interior room lamps and operates heart beat operation of the push-button ignition switch.	DLK-33
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-34
Engine start	The engine can be turned on while carrying the Intelligent Key.	DLK-30
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.	INL-7
Power window	Power window can be operated by Intelligent Key button operation.	PWC-70
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds.	SEC-16
Intelligent Key interlock	Setting of air conditioning system can be set according to key ID of Intelligent Key to the setting value that is set before turning ignition switch OFF.	HAC-13
	Setting of multi AV system can be set according to key ID of Intelligent Key to the setting value that is set before turning ignition switch OFF.	AV-310

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:000000012591986



SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DOOR LOCK FUNCTION : System Description

INFOID:000000012591987

Only when pressing the door request switch (if equipped) it is possible to lock and unlock the door by carrying the Intelligent Key.

OPERATION DESCRIPTION

- When the BCM detects that each door request switch (if equipped) is pressed, it activates the outside key antenna and inside key antenna corresponding to the pressed door request switch (if equipped) and transmits the request signal to the Intelligent Key. Then check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM locks/unlocks each door.
- BCM sounds Intelligent Key warning buzzer (lock: 2 times, unlock: 1 time) and blinks hazard warning lamps (lock: 2 times, unlock: 1 time) at the same time as a reminder.

OPERATION CONDITION

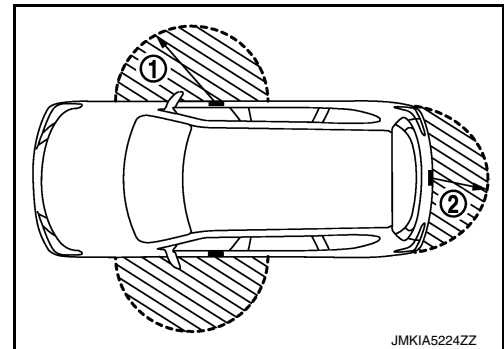
If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch (if equipped) is operated:

Each door request switch (if equipped) operation	Operation condition
Lock	<ul style="list-style-type: none">• All doors are closed.• Panic alarm is not activated.• P (Park) position warning is not activated.• Intelligent Key is outside the vehicle.• Intelligent Key is within outside key antenna detection area*.
Unlock	<ul style="list-style-type: none">• Panic alarm is not activated.• Intelligent Key is outside the vehicle.• Intelligent Key is within outside key antenna detection area*.

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be locked/unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver, passenger door handles (1) and rear bumper (2). However, this operating range depends on the ambient conditions.



SELECTIVE UNLOCK FUNCTION

Lock Operation

When a LOCK signal is sent from door request switch (if equipped), all doors are locked.

Unlock Operation

- When an UNLOCK signal from driver side door request switch (if equipped) is transmitted, driver side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked.
- When an UNLOCK signal from passenger side door request switch (if equipped) is transmitted, passenger side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked.

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-23, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

HAZARD AND BUZZER REMINDER FUNCTION

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SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

During lock or unlock operation by each door request switch (if equipped), the hazard warning lamps and Intelligent Key warning buzzer blinks or honks as a reminder.

Operating Function Of Hazard And buzzer Reminder

Operation	Hazard warning lamp blinks	Intelligent Key warning buzzer honks
Unlock	Once	Once
Lock	Twice	Twice

Hazard and buzzer reminder does not operate in the following conditions:

- Ignition switch position is ON.
- Door is open (only lock operation).

How To Change Hazard And Buzzer Reminder Mode

Hazard and buzzer reminder mode can be changed using CONSULT.

Refer to [BCS-23, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch (if equipped) operation and if 60 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none"> • Door switch is ON (door is open). • Door is locked. • Push switch is pressed.
---------------------	---

How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to [BCS-23, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch (if equipped)	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Intelligent Key warning buzzer	Push-button ignition switch
Door lock/unlock function	×	×	×	×	×	×	×		×			
Hazard reminder function								×	×	×	×	
Selective unlock function	×			×	×	×	×		×			
Auto door lock function	×				×				×			×

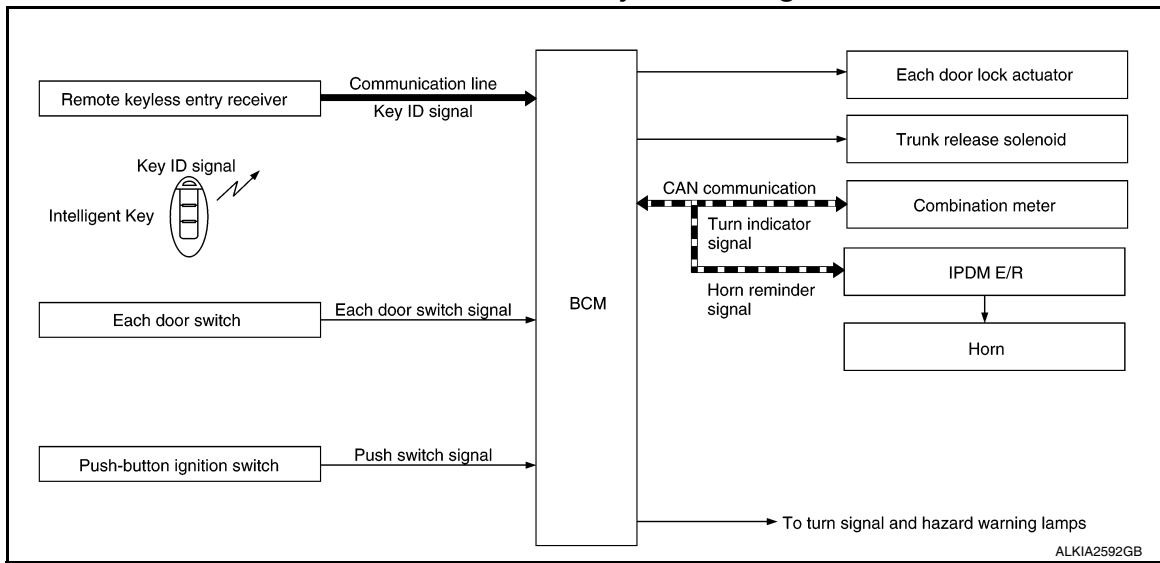
REMOTE KEYLESS ENTRY FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:000000012591988



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000012591989

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the door lock/unlock button.

OPERATION

Remote keyless entry system controls operation of the following items:

- Door lock/unlock function
- Selective unlock function
- Auto door lock function
- Hazard and horn reminder function
- Trunk lid open function
- Remote engine start

OPERATION AREA

The remote engine start operating range is approximately 60 m (197 ft) from the vehicle.

REMOTE ENGINE START FUNCTION

- When the lock button and then the remote engine start button of the Intelligent Key are pressed within 5 seconds of each other, a start signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- When the BCM receives the remote engine start signal, it locks all doors, flashes the hazard lamps and chirps the horn and the engine will then start.
- To exit the remote engine start mode from inside the vehicle, depress the brake pedal and press the push-button ignition switch at the same time.
- To cancel the remote engine start mode away from the vehicle, press the remote engine start button on the Intelligent Key.
- Once the vehicle has been started using the remote engine start feature it will remain running for 10 minutes. Extended run time can be added to the initial 10 minute running time by pressing the lock button and remote engine start button within 5 seconds of each other. This will add an additional 10 minutes of running time. Extended time can only be added once, for a total run time of up to 20 minutes.

Remote engine start cancel operation

- Anti-theft alarm - unauthorized entry
- Maximum time for engine to run by remote start has been exceeded.
- Hazard lamps are turned on.
- Push-button start button is pressed without the Intelligent Key in the vehicle.
- Push-button start button is pressed without depressing the brake pedal.
- The hood is opened while the remote engine start is engaged.

DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal transmitted from Intelligent Key to BCM via remote keyless entry receiver.

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DLK

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

- When BCM receives the door lock/unlock signal, it operates all door lock actuators and blinks the hazard lamp (lock: 2 time, unlock: 1 times) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder.

OPERATION CONDITION

If the following condition are satisfied, remote keyless entry operation is performed when the Intelligent Key is operated:

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"> • Panic alarm is not activated. • P (Park) position warning is not activated.
Unlock	Panic alarm is not activated.

SELECTIVE UNLOCK FUNCTION

- When a LOCK signal is transmitted from Intelligent Key, all doors are locked.
- When an UNLOCK signal is transmitted from Intelligent Key once, driver side door are unlocked.
- Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors are unlocked.

How to change selective unlock operation mode.

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-17. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 60 seconds or more passes without performing the following operation, all doors are locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none"> • Door switch is ON. (door is open) • Door is locked. • Push switch is pressed.
---------------------	---

How to change auto door lock operation mode.

Auto door lock mode can be changed using CONSULT.

Refer to [BCS-23. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM blinks hazard warning lamps as a reminder. The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating Function of Hazard and Horn Reminder

	C mode		S mode	
	Lock	Unlock	Lock	Unlock
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp blinks	Twice	Once	Twice	—
Horn sound	Once	—	—	—

Hazard and horn reminder does not operate in the following conditions:

- Ignition switch position is ON.
- Door is open (only lock operation).

How to Change Hazard and Horn Reminder Mode

With CONSULT

Hazard and horn reminder operation mode can be changed using CONSULT.

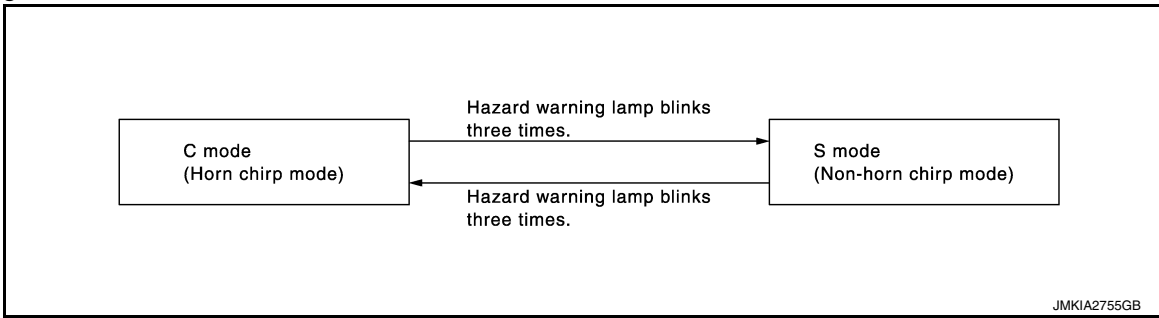
Refer to [BCS-23. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

Without CONSULT

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

When LOCK and UNLOCK signals are sent from the Intelligent Key for more than 2 seconds at the same time, the hazard and horn reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



LIST OF OPERATION RELATED PARTS

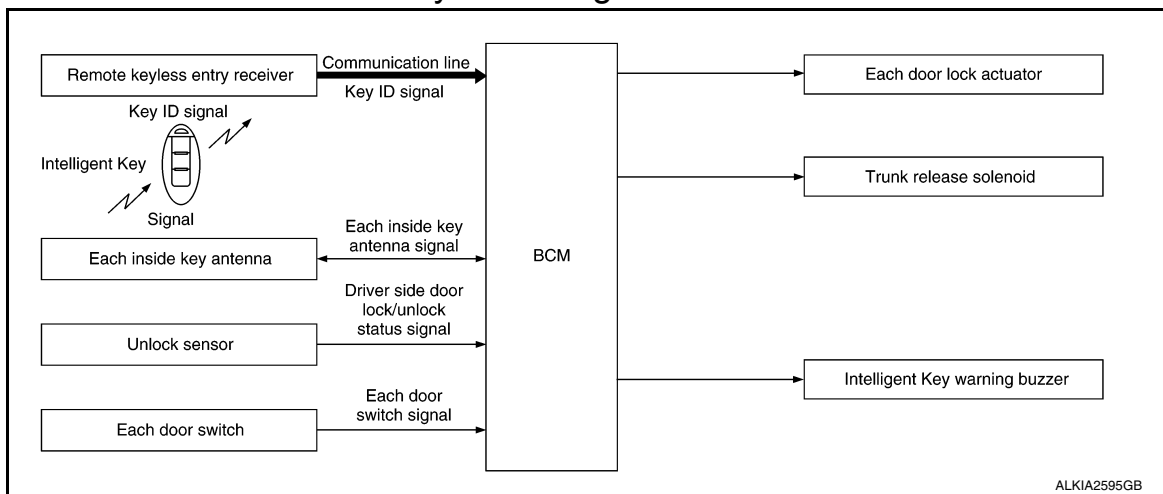
Parts marked with × are the parts related to operation.

Function	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp
Door lock/unlock function	×	×	×			×				
Selective unlock function	×	×	×			×				
Auto door lock function	×	×	×	×		×				
Hazard and horn reminder function					×	×	×	×	×	×
Remote engine start function	×			×	×	×	×	×		×

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Diagram

INFOID:000000012591990



KEY REMINDER FUNCTION : System Description

INFOID:000000012591991

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions:

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SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Key remainder function	Operation condition	Operation
Driver door closed*	Right after driver side door is closed under the following conditions: <ul style="list-style-type: none"> • Door lock operation is performed. • Driver side door is open. • Driver side door is in lock state. 	All doors unlock.
Door is open or closed	Right after all doors are closed under the following conditions: <ul style="list-style-type: none"> • Intelligent Key is inside the vehicle. • Any door is open. • All doors are locked by door lock and unlock switch or door lock knob. 	<ul style="list-style-type: none"> • All doors unlock. • Honk Intelligent Key warning buzzer.

*: If the door closing impact shocks the door lock knob or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation is performed in these cases.

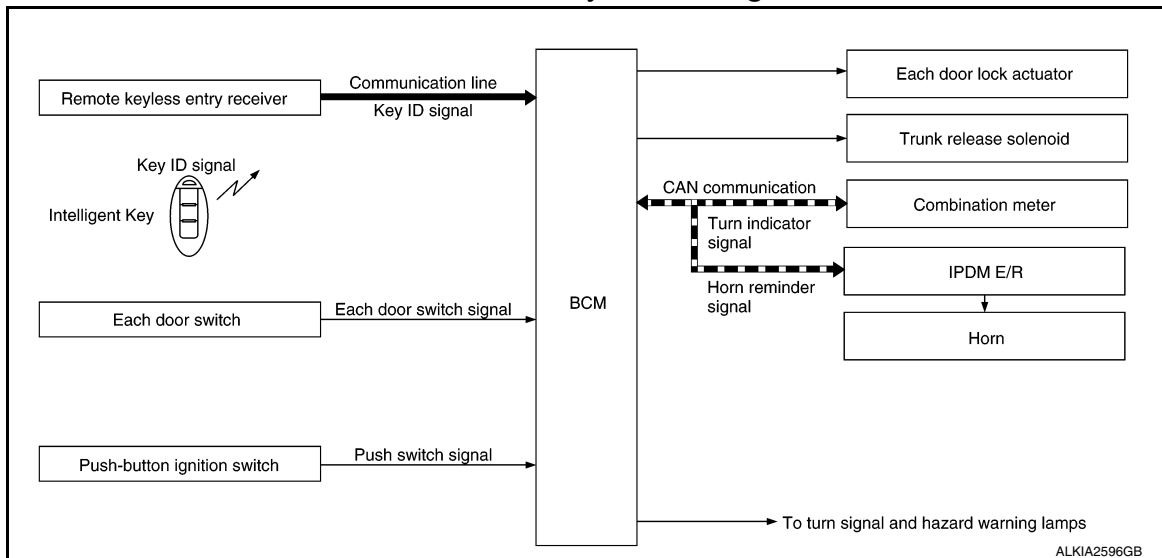
CAUTION:

- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected. This function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.

REMOTE ENGINE START FUNCTION

REMOTE ENGINE START FUNCTION : System Diagram

INFOID:000000012591992



REMOTE ENGINE START FUNCTION : System Description

INFOID:000000012591993

OPERATION

Remote keyless entry system controls operation of the following items:

- Door lock/unlock function
- Selective unlock function
- Auto door lock function
- Hazard and horn reminder function
- Remote engine start

OPERATION AREA

The remote engine start operating range is approximately 60 m (197 ft) from the vehicle, but not inside the vehicle.

REMOTE ENGINE START FUNCTION

- The remote engine start function is activated when the lock button of the Intelligent Key is pressed and released, then within 5 seconds, the remote engine start button is pressed and held for at least 2 seconds. At this time, a start signal is transmitted from the Intelligent Key to the BCM via the remote keyless entry receiver.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

- When the BCM receives the lock signal, it locks all doors and the fuel lid, flashes the hazard lamps and chirps the horn (the horn will chirp only if the answer back horn feature is activated).
- When the BCM receives a successful remote engine start signal, the turn signals will flash once and the parking/tail lamps will come on.
- To enter normal engine run mode from inside the vehicle, depress and hold the brake pedal, then press the push-button ignition switch.
- To cancel the remote engine start mode away from the vehicle, press the remote engine start button on the Intelligent Key.
- Once the vehicle has been started using the remote engine start feature it will remain running for 10 minutes. Extended run time can be added to the initial 10 minute running time by first pressing and releasing the lock button, then, within 5 seconds, pressing and holding the remote engine start button for at least 2 seconds. The turn signals will flash once and an additional 10 minutes of running time will be added. The additional 10 minutes starts when the extended run time is activated. Extended time can only be added once, for a maximum run time of up to 20 minutes.

Additional remote engine start cancel operation	<ul style="list-style-type: none"> • Anti-theft alarm is activated - unauthorized entry • Maximum time for engine to run by remote start has been exceeded. • Hazard lamps are turned on. • Push-button ignition switch is pressed without the Intelligent Key in the vehicle. • Push-button ignition switch is pressed without depressing the brake pedal first. • The hood is opened while the remote engine start is engaged. • The vehicle has been moved out of park before "brake and push" action is completed.
Limitations/Restrictions	<ul style="list-style-type: none"> • Remote engine start must be set to ON within Vehicle Settings of the combination meter. • Engine must be stopped (0 RPM) before engine can be remotely started. <ul style="list-style-type: none"> - Must wait for 6 seconds or more after IGN RUN → OFF. • Remote engine start can only be activated up to 2 times. <ul style="list-style-type: none"> - Remote engine start extended time counts as 1 remote engine start activation. - Cycling IGN via push-button ignition switch resets this counter. • User has 5 seconds to press and hold remote engine start button after lock button is pressed. • Remote engine start must be pressed and held for 2 seconds or more after lock button is pressed. • Maximum remote start time is 20 minutes (this includes remote engine start extended time). • Operation area is approximately 60 m (197 ft) from the vehicle, but not inside of the vehicle. • The push-button ignition switch must not be in the ACC or ON positions. • The vehicle must be in Park. • Hazard flashers must not be on. • There must not be any registered Intelligent Keys inside the vehicle. • Brakes must not be pressed when attempting to activate remote engine start. <ul style="list-style-type: none"> - Improper remote engine start operation can occur when stop lamp switch is misadjusted or inoperative. • The doors must be closed. • The trunk must be closed. • The hood must be closed. • No current DTCs in the BCM can be present.

HAZARD AND HORN REMINDER FUNCTION

When remote engine start is initiated by Intelligent Key, BCM blinks hazard warning lamps as a reminder. The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating Function of Hazard and Horn Reminder

	C mode		S mode	
	Lock	Unlock	Lock	Unlock
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp blinks	Twice	Once	Twice	—
Horn sound	Once	—	—	—

Hazard and horn reminder does not operate in the following conditions:

- Ignition switch position is ON.
- Door is open. (only lock operation)

How to Change Hazard and Horn Reminder Mode

With CONSULT

Hazard and horn reminder operation mode can be changed.

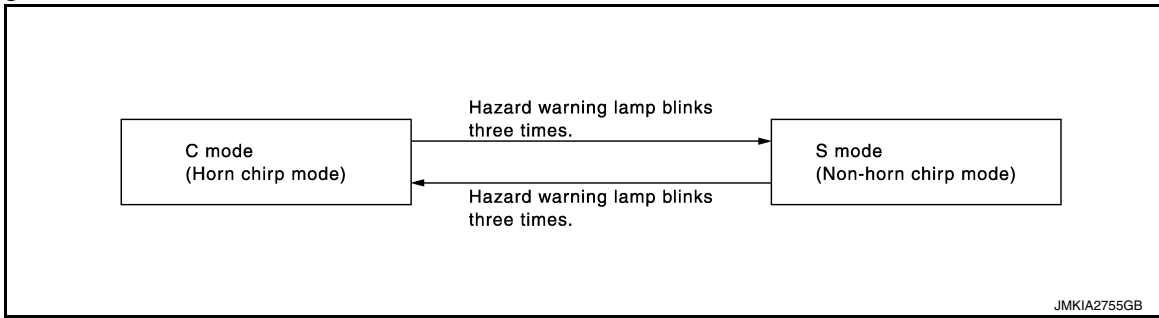
Refer to [BCS-23, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Without CONSULT

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

When LOCK and UNLOCK signals are sent from the Intelligent Key for more than 2 seconds at the same time, the hazard and horn reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



LIST OF OPERATION RELATED PARTS

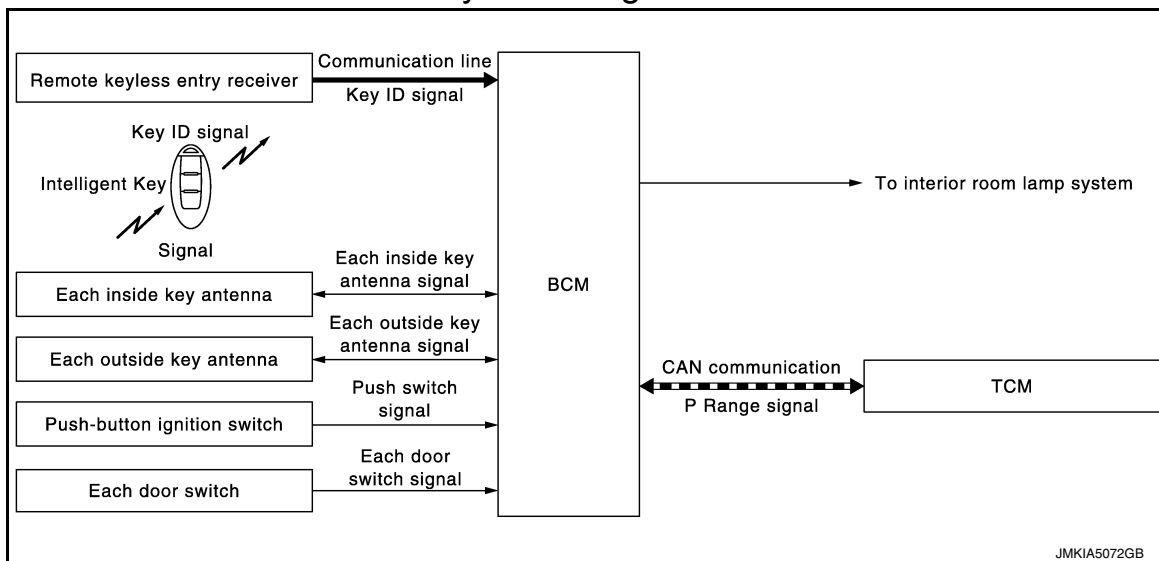
Parts marked with × are the parts related to operation.

Function	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp
Door lock/unlock function	×	×	×			×				
Selective unlock function	×	×	×			×				
Auto door lock function	×	×	×	×		×				
Hazard and horn reminder function					×	×	×	×	×	×
Remote engine start function	×			×	×	×	×	×		×

WELCOME LIGHT FUNCTION

WELCOME LIGHT FUNCTION : System Diagram

INFOID:000000012591994



SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

WELCOME LIGHT FUNCTION : System Description

INFOID:000000012591995

The welcome light function operates as per the following. When the Intelligent Key is within the outside key antenna detection area, the BCM turns on interior room lamp* and operates heart beat operation of the push-button ignition switch.

*: Settings for map lamp, foot lamp, personal lamp, and puddle lamp are available.

OPERATION DESCRIPTION

- When the BCM detects that the Intelligent Key is within the outside key antenna detection area. BCM transmits the request signal to the Intelligent Key and check it is near the door.
- Intelligent Key receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM illuminates lamps that are set, when key ID verification is OK.

TIMER FUNCTION

BCM can operate welcome light function using the timer function for 9 days after key switch is turned OFF.

The timer function resets when the engine is started*. Operating period of timer function may differ depending on battery size.

*: Timer function does not stop if another Intelligent Key that has a different key ID is detected within the interior antenna detection area when starting the engine.

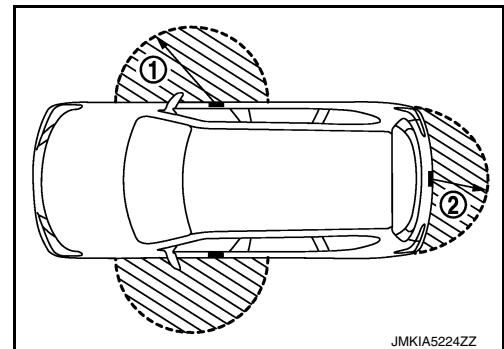
OPERATION CONDITION

If the following condition are satisfied, welcome light function is operated:

Function	Operation condition
Welcome light function	<ul style="list-style-type: none"> • All door are closed. • All doors are locked. • Ignition switch: OFF position. • Shift position: P (Park) position. • Intelligent Key is outside the vehicle. • Timer function is activated.

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver, passenger door handles (1) and rear bumper (2). However, this operating range depends on the ambient conditions.



WELCOME LIGHT FUNCTION SETTING

Welcome light function operation mode can be changed using CONSULT

With CONSULT

Refer to [BCS-23, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Without CONSULT

The welcome light function ON/OFF can be switched by performing the following operation:

1. Turn ignition switch: OFF→ON
2. Press and hold the driver side door request switch for 5 seconds or more within 20 seconds after turning the ignition switch ON.
3. The switching is complete when combination meter buzzer sounds.

WARNING FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

WARNING FUNCTION : System Description

INFOID:000000012591996

OPERATION DESCRIPTION

The warning function are as per the following items and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, combination meter buzzer, KEY warning lamp and information display in combination meter:

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- Door lock operation warning
- Engine start information
- Intelligent Key low battery warning
- Key ID warning
- Key ID verification information

OPERATION CONDITION

Once the following condition from below is established, alert or warning is executed:

Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, "KEY" warning lamp illuminates.
OFF position warning	For internal	When condition A, B or condition C is satisfied: <ul style="list-style-type: none"> • Condition A: <ul style="list-style-type: none"> - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B: <ul style="list-style-type: none"> - Turn ignition switch from ON to OFF while door is open. • Condition C: <ul style="list-style-type: none"> - Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF. (When the Intelligent Key battery is discharged.) - Door switch (driver side): ON (Door is open)
	For external	OFF position warning (For internal) is in active mode, driver side door is closed. NOTE: OFF position (For external) active only when each of the sequence occurs as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning	For internal	<ul style="list-style-type: none"> • Shift position: Except P (Park) position • Engine is running to stopped (ignition switch is ON to OFF).
	For external	Warning is activated when driver door is closed from the open position while the P (Park) position warning (for inside vehicle) is ON.
ACC warning		<ul style="list-style-type: none"> • When P (Park) position warning is in active mode, shift position changes P (Park) position • Ignition switch: ACC position
Take away warning	Door is open to close	<ul style="list-style-type: none"> • Ignition switch: Except Lock position • Door switch: ON to OFF (Door is open to close.) • Intelligent Key cannot be detected inside the vehicle.
	Door is open	<ul style="list-style-type: none"> • Ignition switch: Except Lock position • Door switch: ON (Door is open) • Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle
	Push-button ignition switch operation	<ul style="list-style-type: none"> • Ignition switch: Except Lock position • Press push-button ignition switch. • Intelligent Key cannot be detected inside the vehicle.
Door lock operation warning		When door lock operation is requested while door lock operating condition of door request switch (if equipped) or Intelligent Key are not satisfied.

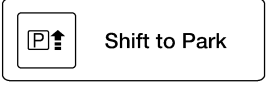
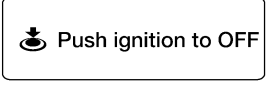
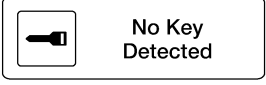
SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Warning/Information functions		Operation procedure
Engine start information	Ignition switch is ON position	<ul style="list-style-type: none"> Ignition switch: ON position Shift position: P (Park) position* Engine is stopped.
	Ignition switch is except ON position	<ul style="list-style-type: none"> Ignition switch: Except ON position Shift position: P (Park) position* Intelligent Key is inserted in key slot or Intelligent Key can be detected inside the vehicle.
Intelligent Key low battery warning		When Intelligent Key is low battery, BCM is detected after ignition switch is turned ON.
Key ID warning		When registered Intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON.
Key ID verification information		<ul style="list-style-type: none"> When registered Intelligent Key cannot be detected inside the vehicle. Intelligent Key battery is discharged. When NATS antenna amp cannot be detected NATS ID.


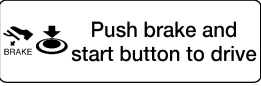
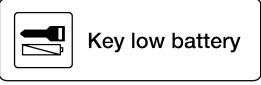

WARNING METHOD

The following table shows the alarm or warning methods with chime:

Warning/Information functions		"KEY" warning lamp	Information display (combination meter)	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key system malfunction		Indicate	—	—	—
OFF position warning	For internal	—	—	Activate	—
	For external	—	—	—	Activate
P position warning	For internal	—	 Shift to Park <small>ALKIA2515GB</small>	Activate	—
	For external			—	Active
ACC warning		—	 Push ignition to OFF <small>ALKIA2516GB</small>	Activate	—
Take away warning	Door is open to close	—	 No Key Detected <small>ALKIA2517GB</small>	Activate	Activate
	Door is open			—	—
	Push-button ignition switch operation			Activate	—
Door lock operation warning	Request switch operation (if equipped)	—	—	—	Activate
	Intelligent Key	—	—	—	Activate

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Warning/Information functions	"KEY" warning lamp	Information display (combination meter)	Warning chime	
			Combination meter buzzer	Intelligent Key warning buzzer
Key ID warning	—	 Key ID Incorrect ALKIA2518GB	—	—
Engine start information	—	 Push brake and start button to drive ALKIA2519GB	—	—
Intelligent Key low battery warning	—	 Key low battery ALKIA2520GB	—	—
Key ID verification information	—	 ALKIA2521ZZ	—	—

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Warning function	Intelligent Key	Ignition switch	Door switch	Door request switch (if equipped)	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp
Intelligent Key system malfunction									×	×		×
OFF position warning	For internal		×					×	×	×		
	For external		×				×			×		
P (Park) position warning		×						×	×	×	×	×
ACC warning		×						×	×	×	×	

SYSTEM (INTELLIGENT KEY SYSTEM)

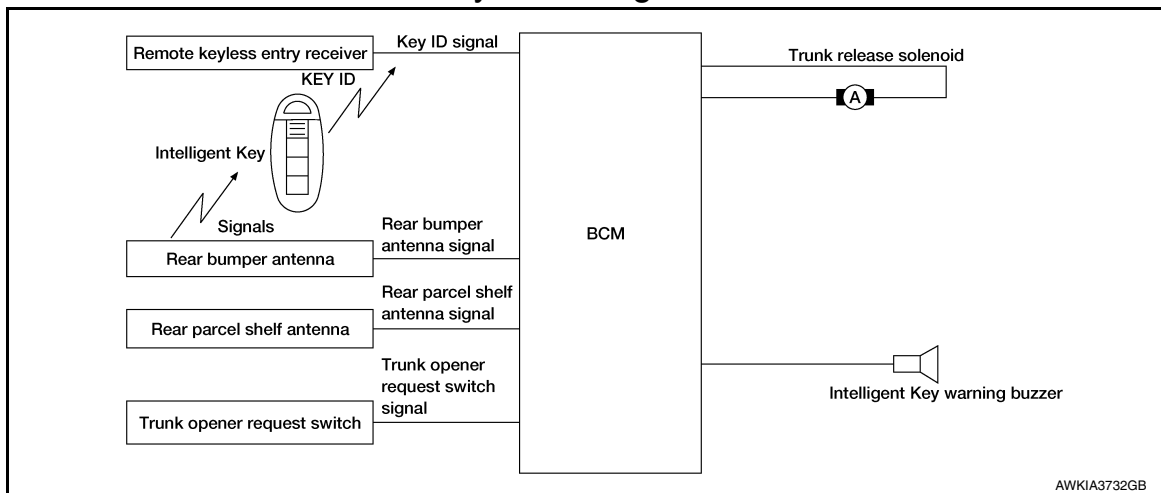
< SYSTEM DESCRIPTION >

Warning function		Intelligent Key	Ignition switch	Door switch	Door request switch (if equipped)	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp
Take away warning	Door is open or close	x		x		x		x	x	x	x	x	x
	Door is open	x		x		x				x	x	x	x
	Push-button ignition switch operation	x	x			x			x	x	x	x	x
Door lock operation warning		x		x	x	x	x	x			x		
Key ID warning			x			x				x	x	x	x
Engine start information	Ignition switch is ON position	x	x			x				x	x	x	
	Ignition switch is except ON position	x	x			x				x	x	x	
Intelligent Key low battery warning		x				x				x	x	x	x
Key ID verification information		x				x				x	x	x	

TRUNK LID OPENER SYSTEM

TRUNK LID OPENER SYSTEM : System Diagram

INFOID:0000000012591997



TRUNK LID OPENER SYSTEM : System Description

INFOID:0000000012591998

Only when pressing the request switch, it is possible to open the trunk by carrying the Intelligent Key.

- The Intelligent Key system is a system that makes it possible to open the trunk (trunk open function) by carrying the Intelligent Key which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (BCM).

CAUTION:

The driver should always carry the Intelligent Key

- If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes off to inform the driver (warning chime functions).
- When trunk is opened with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horns sound (hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

- It is possible to perform a diagnosis on the system and register an Intelligent Key with the CONSULT.
- For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

OPERATION DESCRIPTION/TRUNK OPEN

- When the BCM detects that trunk open request switch is pressed, it starts the outside key antenna (trunk room) and inside key antenna corresponding to the pressed trunk open request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the trunk.
- If the Intelligent Key is within the outside key antenna (rear bumper) detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits the trunk open request signal and sounds Intelligent Key warning buzzer 4 consecutive times.
- When BCM receives the trunk open request signal, it operates the trunk release solenoid and opens the trunk.

OPERATION CONDITION

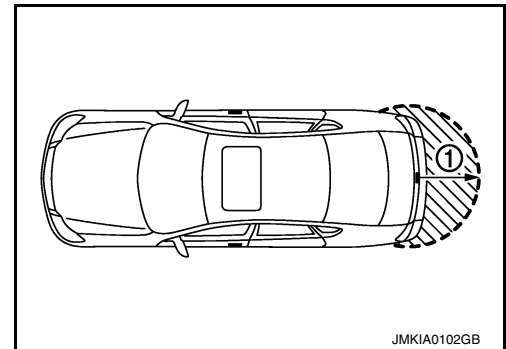
If the following conditions are not satisfied, trunk open operation is not performed even if the request switch is operated:

Each request switch operation	Operation condition
Trunk open operation	<ul style="list-style-type: none"> • Intelligent Key is within outside key antenna (rear bumper) detection area*. • Key reminder functions operate. (trunk)

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of trunk open function is in the range of approximately 80 cm (31.50 in) surrounding trunk opener request switch (1). However, this operating range depends on the ambient conditions.



KEY REMINDER FUNCTION

Key reminder function	Operation condition	Operation
Trunk is closed	Right after trunk is closed under the following conditions: <ul style="list-style-type: none"> • Intelligent Key is inside trunk room. • All doors are closed. • All doors are locked. 	<ul style="list-style-type: none"> • Trunk open • Sound Intelligent Key warning buzzer

*:If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob, it might activate the door locks accidentally but unlock operation will be performed at these cases.

CAUTION:

- **The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.**
- **The key reminder function is operated when the trunk is opened/closed and the buzzers sound. If the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped:**
 - Remote controller door lock button operation of Intelligent Key.
 - Remote controller door unlock button operation of Intelligent Key.
 - When the trunk is closed, the Intelligent Key is not inside the vehicle.
 - When any door is open.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

HAZARD AND BUZZER REMINDER FUNCTION

During trunk opening operation by request switch, the hazard warning lamps and Intelligent Key warning buzzer will flash or sound as a reminder.

When trunk open by each request switch, IPDM E/R sounds Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.

BCM flashes hazard warning lamps as a reminder.

Operating function of hazard and buzzer reminder

Operation	Hazard warning lamp flash	Intelligent Key warning buzzer sounds
Trunk open	—	Four times

How to change hazard and buzzer reminder mode

Ⓜ With CONSULT

Refer to [BCS-23, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Trunk open function	Intelligent Key	Remote keyless entry receiver	Door switch	Trunk lamp switch	Trunk opener switch	Trunk release solenoid	Inside key antenna	Outside key antenna (rear bumper)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamps
Trunk open function by the trunk opener request switch	×	×		×	×	×	×	×		×	×	
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×
Buzzer reminder for trunk open operation									×	×	×	
Key reminder function	×	×	×				×	×	×	×	×	×

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SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:000000012591999

Item	Function
Integrated Homelink [®] transmitter	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

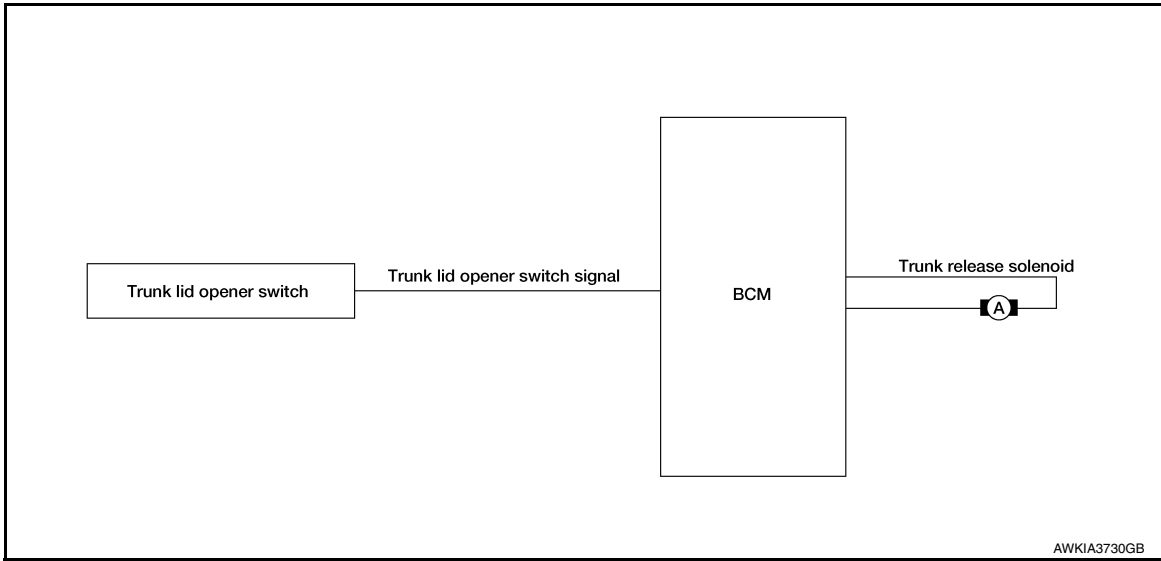
SYSTEM (TRUNK LID OPENER SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (TRUNK LID OPENER SYSTEM)

System Diagram

INFOID:000000012592000



System Description

INFOID:000000012592001

TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM operates trunk lid opener actuator.

OPERATION CONDITION

If the following conditions are satisfied, trunk open operation is performed:

Trunk lid opener switch operation	Operation condition
Trunk lid open	<ul style="list-style-type: none"> Vehicle speed is less than 5 km/h (3 MPH).

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012829240

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×			

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000012829241

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT

Refer to [BCS-52, "DTC Index"](#).

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [On/Off]	Indicates condition of door request switch LH.
REQ SW-AS [On/Off]	Indicates condition of door request switch RH.
REQ SW-BD/TR [On/Off]	Indicates condition of trunk opener request switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.
	MODE1*	All doors unlock automatically.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
AUTO LOCK FUNCTION	MODE3	This mode is not used.
	MODE2	Doors lock automatically when shifted out of P (park).
	MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
	Off	—
AUTO UNLOCK FUNCTION	MODE3	This mode is not used.
	MODE2	Doors unlock automatically when shifted into P (park).
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.
	Off	—

* : Initial setting

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000012829242

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk opener request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHFTLCK SLNID PER SPLY [On/Off]	×	Indicates condition of power supply to shift lock solenoid.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [STOP/START/CRANK/RUN]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
DOOR STAT -RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID AUTHENT CANCEL TIMER [STOP]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [STOP]		Indicates condition of battery saver.
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.
AUT CRNK TME [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
ST RLY -REQ [On/Off]		Indicates condition of starter relay.
IGN RLY 1 -REQ [On/Off]		Indicates condition of ignition 1 relay.
IGN RLY 2 -REQ [On/Off]		Indicates condition of ignition 2 relay.
DETE SW PWR [On/Off]		Indicates condition of detent switch voltage.
ACC RLY -REQ [On/Off]		Indicates condition of accessory relay control request.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk room lamp switch.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID No2/ID No3/ID No4/ID No5].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
HORN	This test is able to check horn operation [On].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk actuator operation [Open].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test Item	Description
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].
IGN CONT2	This test is able to check ignition relay-2 control operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
ACC CONT	This test is able to check accessory relay control operation [On/Off].
IGN CONT1	This test is able to check ignition relay-1 control operation [On/Off].
ST CONT LOW	This test is able to check starter control relay operation [On/Off].
IGNITION RELAY	This test is able to ignition relay operation [On/Off].
REVERSE LAMP TEST	This test is able to check reverse lamp illumination operation [On/Off].
DR SEAT LAMP TEST	This test is able to check driver seat lamp illumination operation [On/Off].
AS SEAT LAMP TEST	This test is able to check passenger seat lamp illumination operation [On/Off].
SHIFT SPOT LAMP TEST	This test is able to check shift spot lamp illumination operation [On/Off].
TRUNK/LUGGAGE LAMP TEST	This test is able to check cargo lamp illumination operation [On/Off].
KEYFOB PW TEST	This test is able to check power window operation using the Intelligent Key [Off/DOWN/UP].
SHIFTLOCK SOLENOID TEST	This test is able to check shift lock solenoid operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
IGN/ACC BATTERY SAVER	On*	Battery saver function ON.
	Off	Battery saver function OFF.
REMOTE ENGINE STARTER	On*	Remote engine start function ON.
	Off	Remote engine start function OFF.
ANSWER BACK I-KEY LOCK UNLOCK	BUZZER	Buzzer reminder function by door lock/unlock request switch ON.
	HORN	Horn chirp reminder function by door lock request switch ON.
	Off*	No reminder function by door lock/unlock request switch.
	INVALID	This mode is not used.
ANSWERBACK KEYLESS LOCK UNLOCK	On	Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
	Off*	No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
ANSWER BACK	On*	Horn chirp reminder when doors are locked with Intelligent Key.
	Off	No horn chirp reminder when doors are locked with Intelligent Key.
RETRACTABLE MIRROR SET	On	Retractable mirror set ON.
	Off*	Retractable mirror set OFF.
CONFIRM KEY FOB ID	—	Intelligent Key ID code can check.
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.
	Off	Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*	Engine start function from Intelligent Key ON.
	Off	Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function by trunk opener request switch ON.
	Off	Buzzer reminder function by trunk opener request switch OFF.
INTELLIGENT KEY LINK SET	On	Intelligent Key link set ON.
	Off*	Intelligent Key link set OFF.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Support Item	Setting		Description
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration times.
		100 msec	
		200 msec	
	End	—	
INSIDE ANT DIAGNOSIS	—		This function allows inside key antenna self-diagnosis.
AUTO LOCK SET	MODE7	5 min	Auto door lock time can be set in this mode.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	

*: Initial Setting

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000012829243

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TR/BD OPEN SW [On/Off]	Indicates condition of trunk opener switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch.
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key.

ECM, IPDM E/R, BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

ECM, IPDM E/R, BCM

List of ECU Reference

INFOID:0000000012592006

ECU	Reference
ECM (with QR25DE)	EC-91, "Reference Value"
	EC-106, "Fail Safe"
	EC-108, "DTC Inspection Priority Chart"
	EC-110, "DTC Index"
ECM (with VQ35DE)	EC-656, "Reference Value"
	EC-673, "Fail-safe"
	EC-674, "DTC Inspection Priority Chart"
	EC-676, "DTC Index"
IPDM E/R	PCS-13, "Reference Value"
	PCS-20, "Fail Safe"
	PCS-21, "DTC Index"
BCM	BCS-31, "Reference Value"
	BCS-50, "Fail Safe"
	BCS-51, "DTC Inspection Priority Chart"
	BCS-52, "DTC Index"

HOMELINK UNIVERSAL TRANSCEIVER

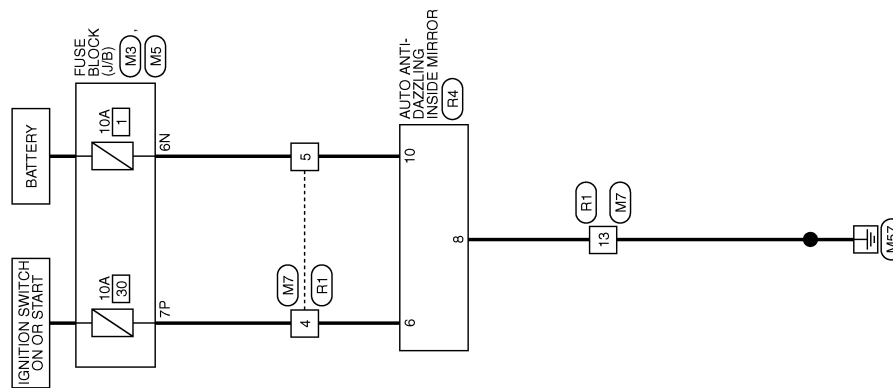
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WIRING DIAGRAM

HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram

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HOMELINK UNIVERSAL TRANSCEIVER

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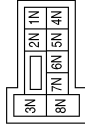
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HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

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



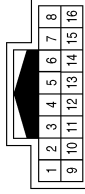
Terminal No.	Color of Wire	Signal Name
6N	W	-

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



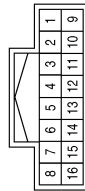
Terminal No.	Color of Wire	Signal Name
7P	G	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



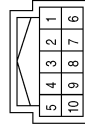
Terminal No.	Color of Wire	Signal Name
4	G	-
5	W	-
13	GR	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	B/Y	-
5	B/W	-
13	B	-

Connector No.	R4
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
6	B/Y	-
8	B	-
10	B/W	-

POWER DOOR LOCK SYSTEM

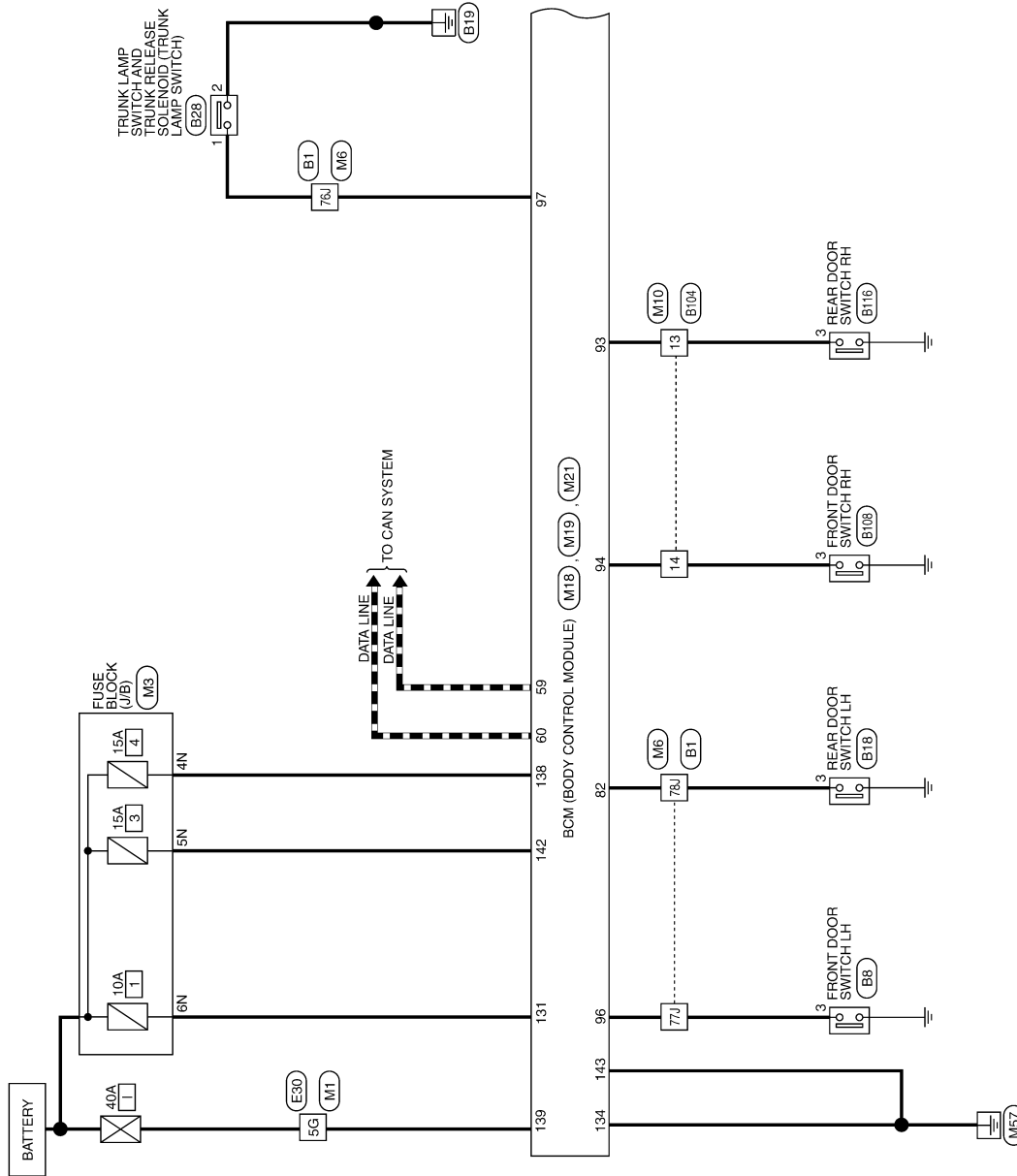
< WIRING DIAGRAM >

POWER DOOR LOCK SYSTEM

Wiring Diagram

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POWER DOOR LOCK SYSTEM



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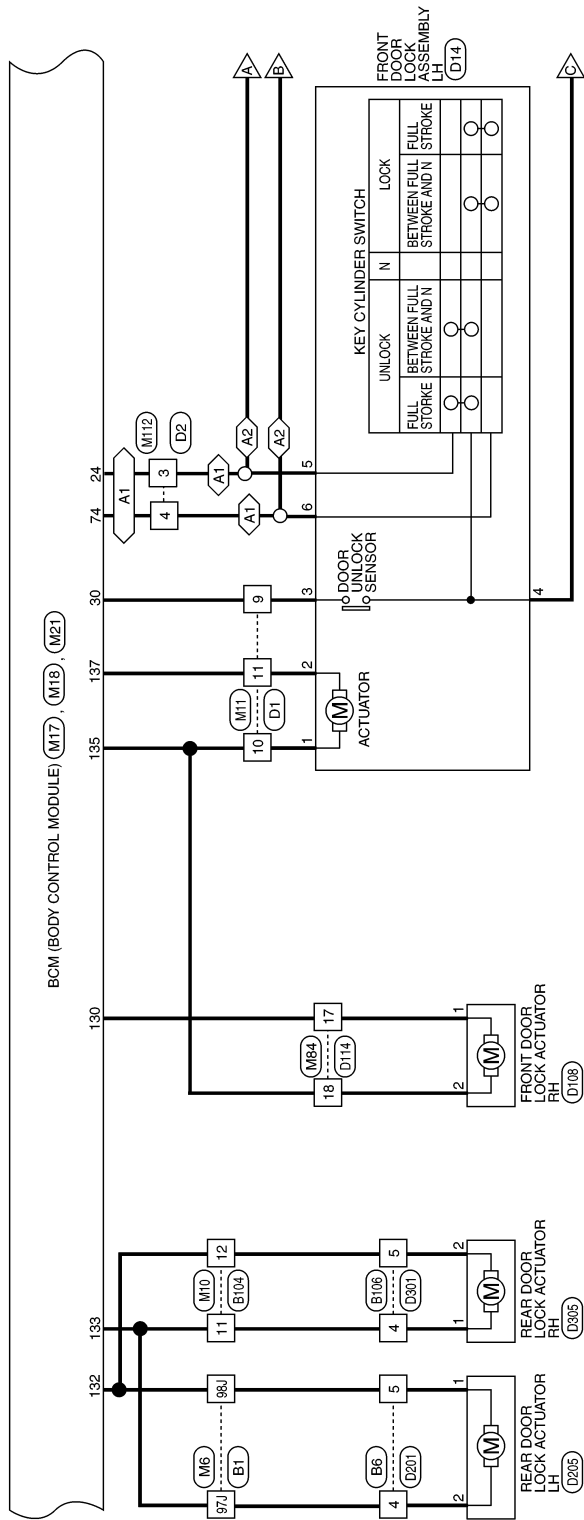
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POWER DOOR LOCK SYSTEM

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- <A1> : WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM
- <A2> : WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM



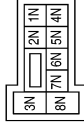
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POWER DOOR LOCK SYSTEM

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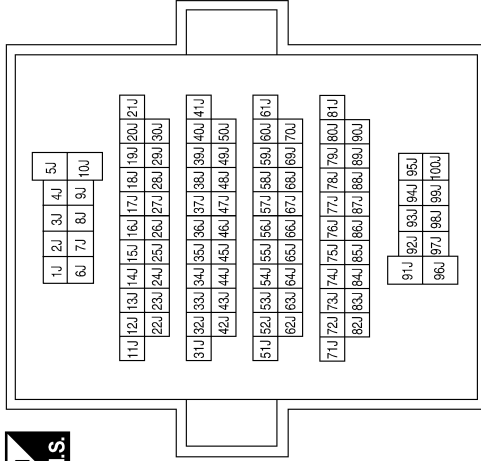
POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



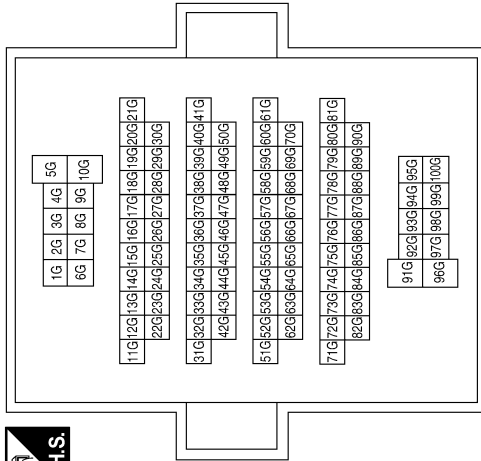
Terminal No.	Color of Wire	Signal Name
4N	V	-
5N	BR	-
6N	W	-

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



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
5G	W	-



Terminal No.	Color of Wire	Signal Name
76J	SB	-
77J	BR	-
78J	Y	-
97J	Y	-
98J	L	-

POWER DOOR LOCK SYSTEM

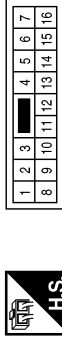
< WIRING DIAGRAM >

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



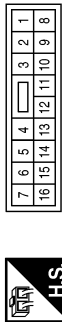
Terminal No.	Color of Wire	Signal Name
4	GR	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



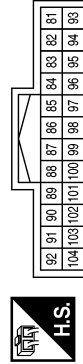
Terminal No.	Color of Wire	Signal Name
3	R	-
4	G	-
8	B	-
9	P	-
10	BR	-
11	V	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN



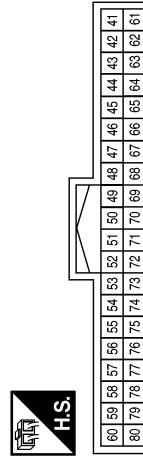
Terminal No.	Color of Wire	Signal Name
11	Y	-
12	L	-
13	V	-
14	SB	-

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



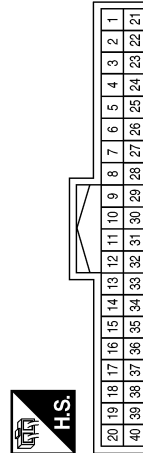
Terminal No.	Color of Wire	Signal Name
82	Y	RL DOOR SW
93	V	RR DOOR SW
94	SB	AS DOOR SW
96	BR	DR DOOR SW
97	SB	TRUNK SW

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
54	P	PW LIN
59	P	CAN-L
60	L	CAN-H
74	P	DOOR KEY/C LOCK SW

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
19	G	CENTRAL DOOR LOCK SW
24	G	DOOR KEY/C UNLOCK SW
30	P	DR DOOR LOCK STATUS
34	BG	CENTRAL DOOR UNLOCK SW

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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

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



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

Terminal No.	Color of Wire	Signal Name
17	SB	-
18	BR	-
19	P	-
20	BG	-
21	G	-

Terminal No.	Color of Wire	Signal Name
134	B	GND2
135	BR	DOOR LOCK DR/AS/FL
137	V	DOOR UNLOCK DR/FL
138	V	BAT REAR DOOR
139	W	BAT POWER F/L
142	BR	BAT FRONT DOOR
143	B	GND1

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
130	SB	DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	L	DOOR LOCK RR/RL
133	Y	DOOR UNLOCK RR/RL

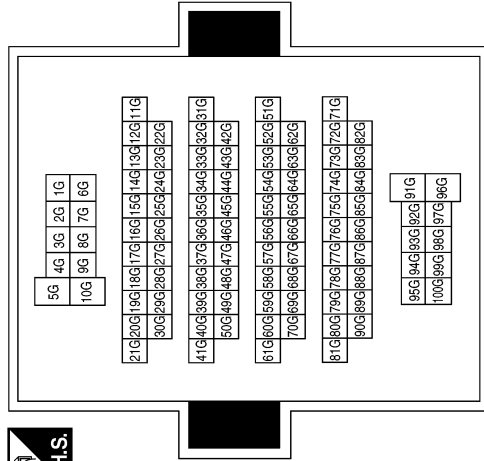
Terminal No.	5G
Color of Wire	P
Signal Name	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

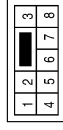
Terminal No.	Color of Wire	Signal Name
3	G	-
4	P	-
17	P	-
18	B	-



POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

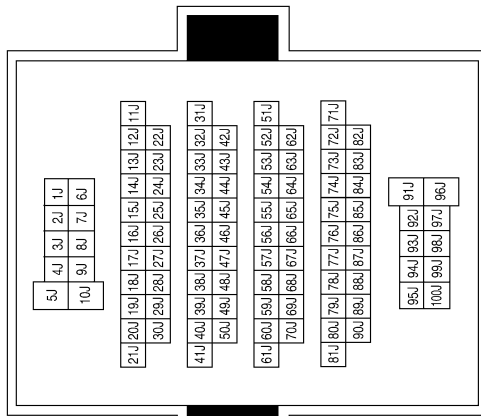
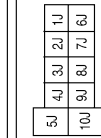
Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	BR	-
5	Y	-

Terminal No.	Color of Wire	Signal Name
76J	W	-
77J	L	-
78J	LG	-
97J	BR	-
98J	Y	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	GRAY

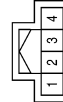


Connector No.	B28
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	-
2	GR	-

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	LG	-

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



Terminal No.	Color of Wire	Signal Name
3	L	-

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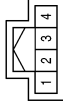
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POWER DOOR LOCK SYSTEM

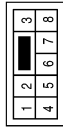
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Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



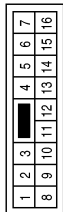
Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B106
Connector Name	WIRE TO WIRE
Connector Color	WHITE



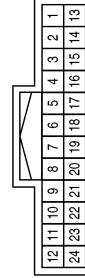
Terminal No.	Color of Wire	Signal Name
4	Y	-
5	BR	-

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
11	Y	-
12	BR	-
13	V	-
14	L	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	G	-
4	P	-
17	P	-
18	B	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R	-
4	G	-
8	B	-
9	W	-
10	Y	-
11	LG	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



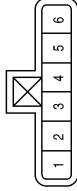
Terminal No.	Color of Wire	Signal Name
3	V	-

ABKIA3600GB

POWER DOOR LOCK SYSTEM

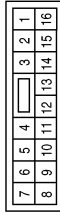
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Connector No.	D14
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY



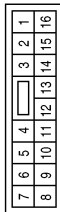
Terminal No.	Color of Wire	Signal Name
1	Y	-
2	LG	-
3	W	-
4	B	-
5	G	-
6	P	-

Connector No.	D12
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



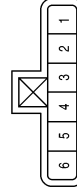
Terminal No.	Color of Wire	Signal Name
1	B	GND
3	G	LOCK SW
15	R	UNLOCK SW

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND
3	P	LOCK
11	P	COM
15	G	UNLOCK

Connector No.	D108
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	Y	-

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	COM
7	B	GND

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



Terminal No.	Color of Wire	Signal Name
4	B	-

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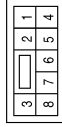
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POWER DOOR LOCK SYSTEM

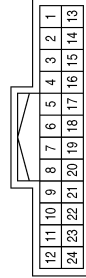
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Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



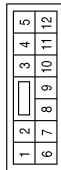
Terminal No.	Color of Wire	Signal Name
4	L	-
5	SB	-

Connector No.	D114
Connector Name	WIRE TO WIRE
Connector Color	WHITE



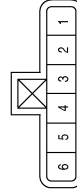
Terminal No.	Color of Wire	Signal Name
17	LG	-
18	Y	-
19	P	-
20	BG	-
21	G	-

Connector No.	D110
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G	LOCK
2	BG	UNLOCK
3	B	GND

Connector No.	D305
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



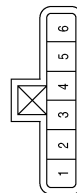
Terminal No.	Color of Wire	Signal Name
1	L	-
2	SB	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	D205
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	L	-

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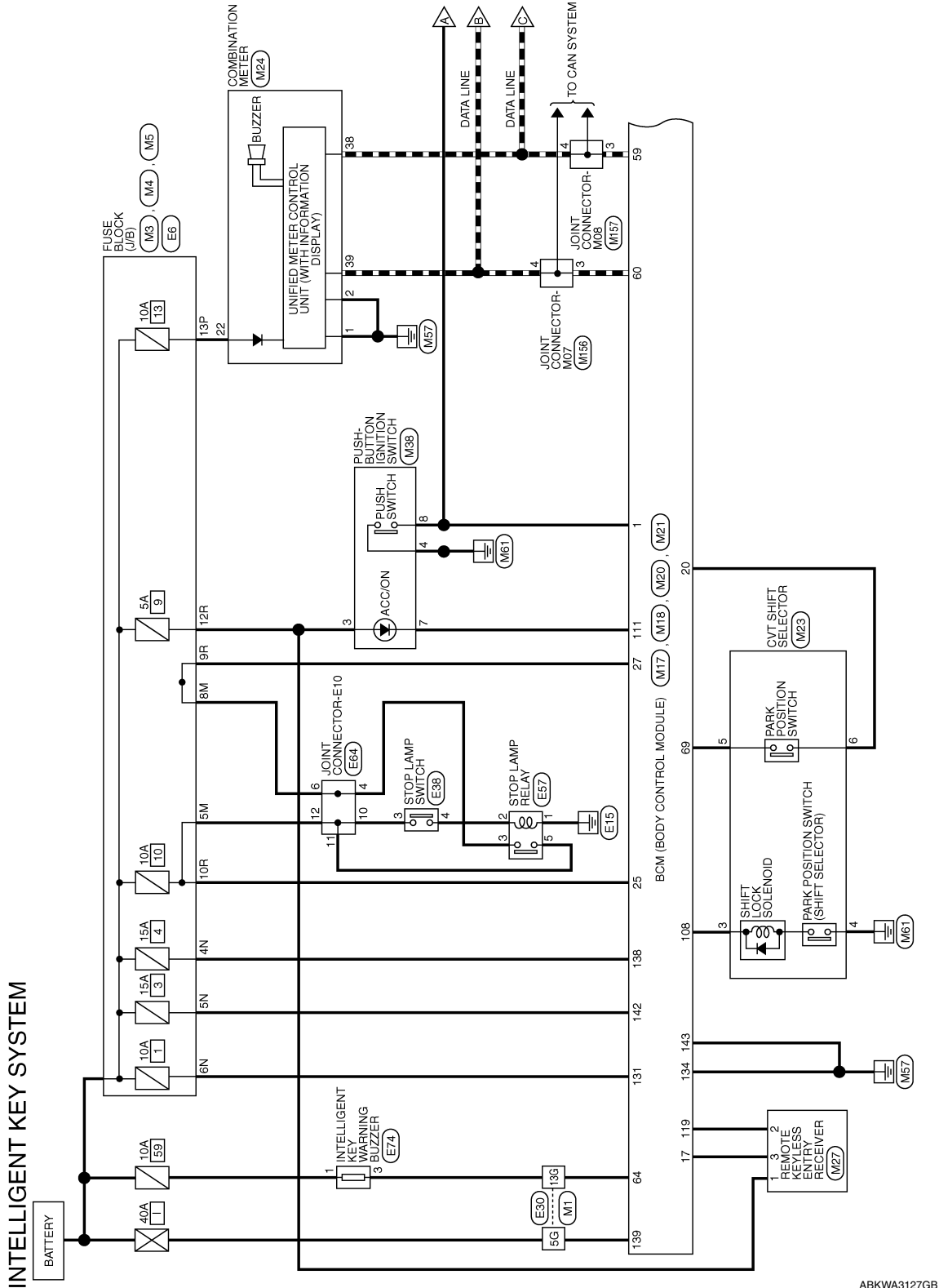
INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

INTELLIGENT KEY SYSTEM

Wiring Diagram

INFOID:000000012592009



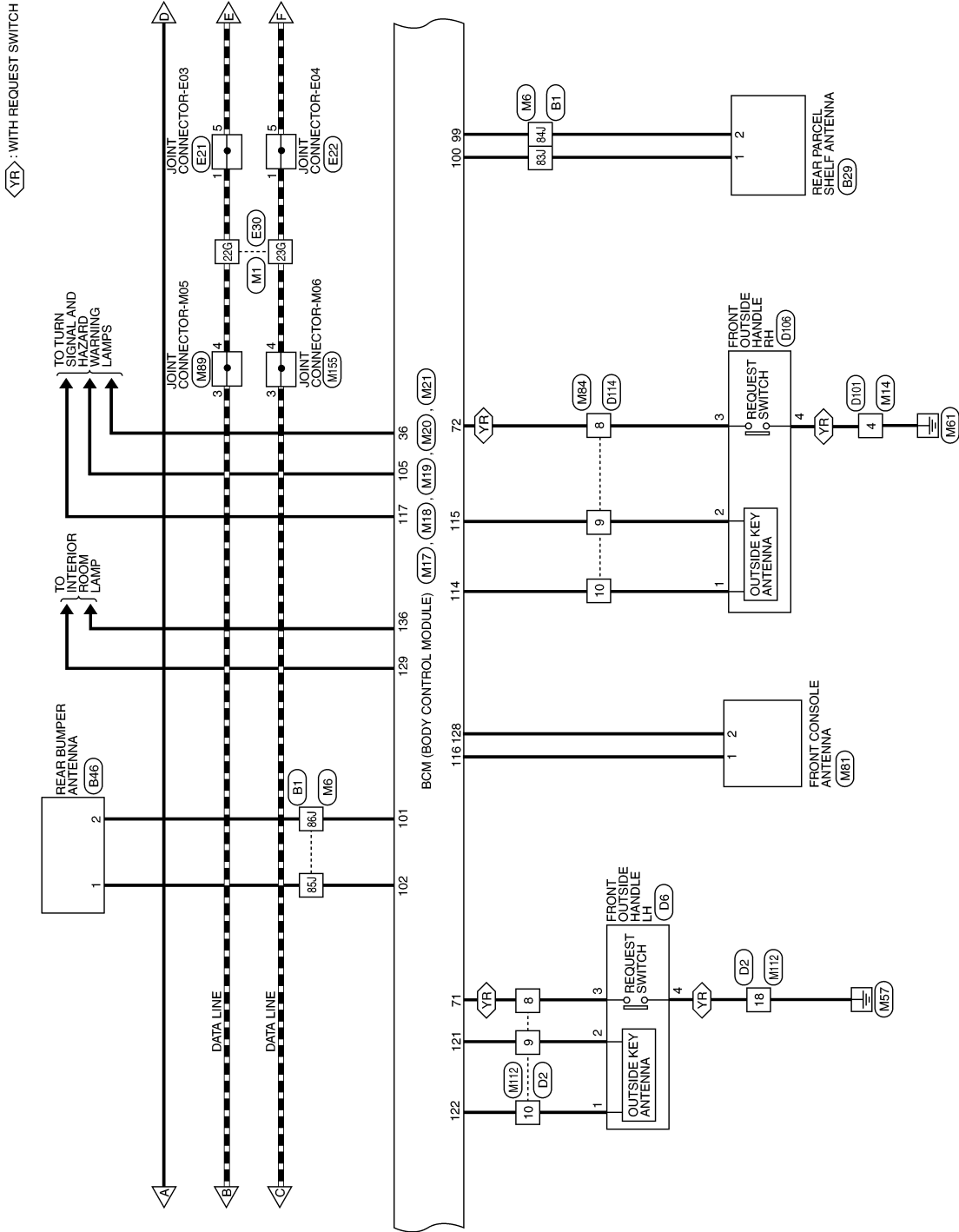
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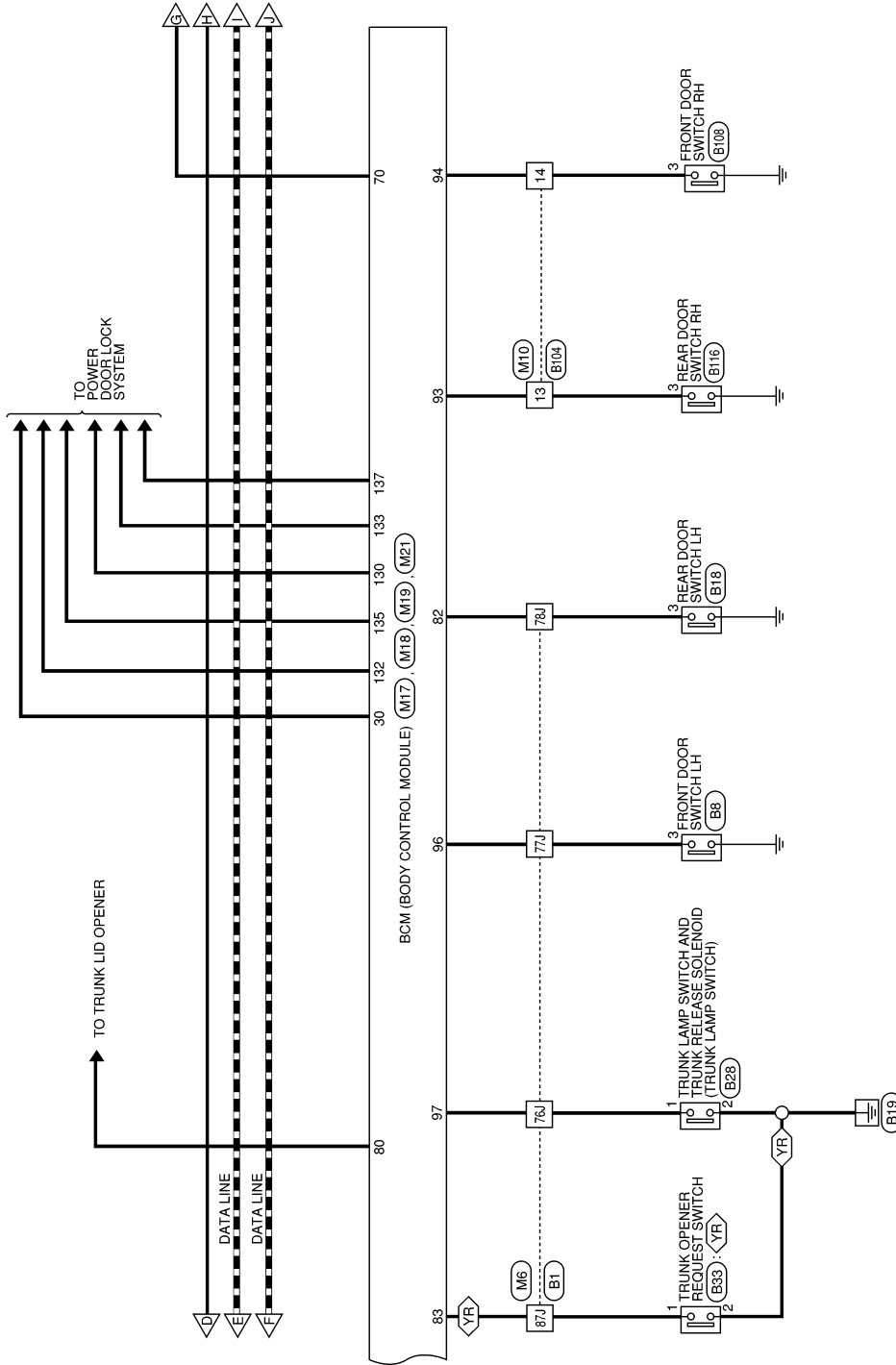


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◊YR◊ WITH REQUEST SWITCH

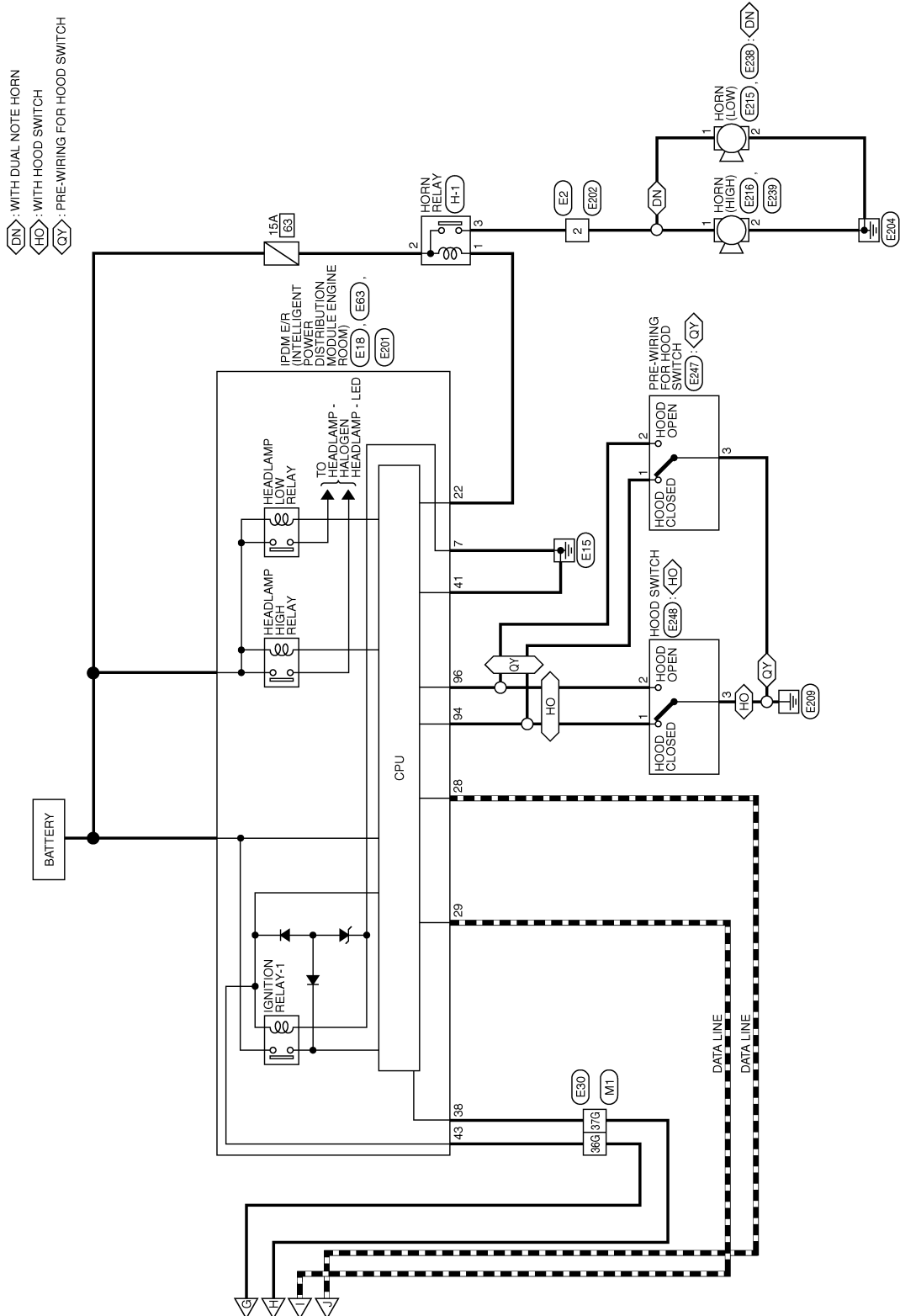


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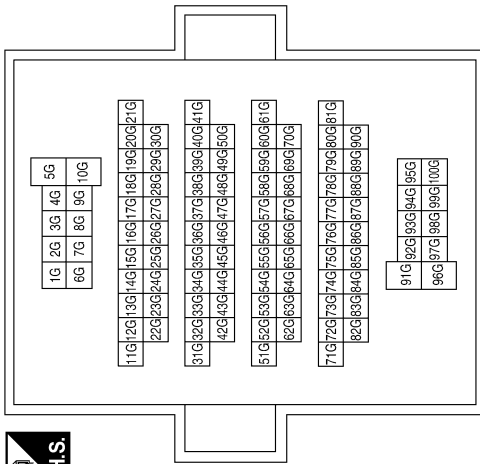
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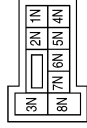
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5G	W	-
13G	W	-
22G	L	-
23G	P	-
36G	G	-
37G	R	-

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



Terminal No.	Color of Wire	Signal Name
4N	V	-
5N	BR	-
6N	W	-

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
9R	G	-
10R	BG	-
12R	W	-

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13P	G	-

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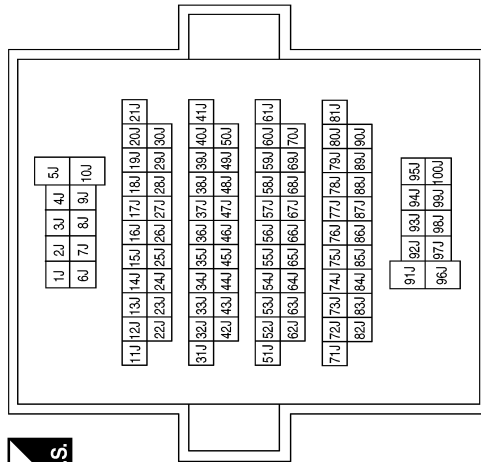
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INTELLIGENT KEY SYSTEM

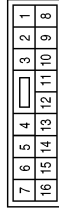
< WIRING DIAGRAM >

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	GRAY



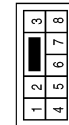
Terminal No.	Color of Wire	Signal Name
76J	SB	-
77J	BR	-
78J	Y	-
83J	R	-
84J	G	-
85J	W	-
86J	G	-
87J	LG	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN



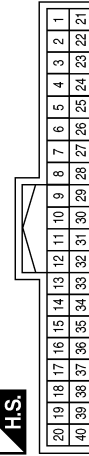
Terminal No.	Color of Wire	Signal Name
13	V	-
14	SB	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	GR	-

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN

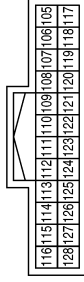


Terminal No.	Color of Wire	Signal Name
1	R	ENG START SW NO ESCL
17	B	GND RF A/L
20	W	SHIFT P
25	BG	BRAKE SW FUSE
27	G	BRAKE SW LAMP
30	P	DR DOOR LOCK STATUS
36	Y	HAZARD SW

INTELLIGENT KEY SYSTEM

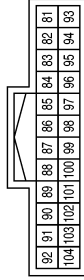
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Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



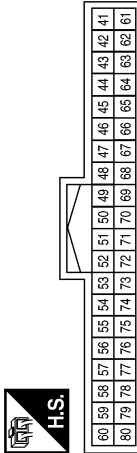
Terminal No.	Color of Wire	Signal Name
105	BR	FR FLASHER
108	BG	SHIFT LOCK SOLENOID OUT
111	Y	ACC LED
114	P	AS DOOR ANT A
115	R	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
119	G	RF NIMOCO
121	R	DR DOOR ANT B
122	P	DR DOOR ANT A
128	BG	ROOM ANT 2 B

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



Terminal No.	Color of Wire	Signal Name
82	Y	RL DOOR SW
83	LG	TRUNK/BACK DOOR REQUEST SWITCH
93	V	RR DOOR SW
94	SB	AS DOOR SW
96	BR	DR DOOR SW
97	SB	TRUNK SW
99	G	ROOM ANT 3 B
100	R	ROOM ANT 3 A
101	G	REAR BUMPER ANT B
102	W	REAR BUMPER ANT A

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H
64	W	BUZZER OUT
69	L	AT DEVICE OUT
70	G	IGN USM OUT 1
71	V	DR REQUEST SW
72	Y	AS REQUEST SW
80	BR	TRUNK OPEN SW

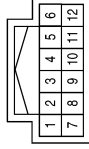
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Connector No.	M23
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	BG	-
4	B	-
5	L	-
6	W	-

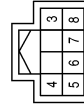
Terminal No.	Color of Wire	Signal Name
139	W	BAT POWER F/L
142	BR	BAT FRONT DOOR
143	B	GND1

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



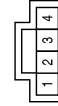
Terminal No.	Color of Wire	Signal Name
129	G	BATTERY SAVER OUT
130	SB	DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	L	DOOR LOCK RR/RL
133	Y	DOOR UNLOCK RR/RL
134	B	GND2
135	BR	DOOR LOCK DR/AS/FL
136	P	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/FL
138	V	BAT REAR DOOR

Connector No.	M38
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	WHITE



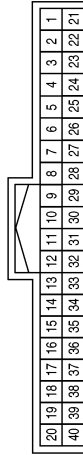
Terminal No.	Color of Wire	Signal Name
3	W	-
4	B	-
7	Y	-
8	R	-

Connector No.	M27
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-
2	G	-
3	B	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
22	G	BAT
38	P	CAN-L
39	L	CAN-H

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INTELLIGENT KEY SYSTEM

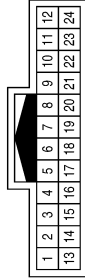
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Connector No.	M81
Connector Name	FRONT CONSOLE ANTENNA
Connector Color	GRAY



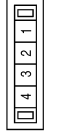
Terminal No.	Color of Wire	Signal Name
1	W	-
2	BG	-

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



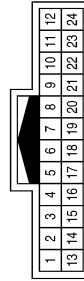
Terminal No.	Color of Wire	Signal Name
8	Y	-
9	R	-
10	P	-

Connector No.	M89
Connector Name	JOINT CONNECTOR-M05
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-

Connector No.	M112
Connector Name	WIRE TO WIRE
Connector Color	WHITE



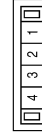
Terminal No.	Color of Wire	Signal Name
8	V	-
9	R	-
10	P	-
18	B	-

Connector No.	M155
Connector Name	JOINT CONNECTOR-M06
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	-
4	P	-

Connector No.	M156
Connector Name	JOINT CONNECTOR-M07
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-

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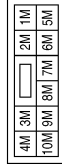
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INTELLIGENT KEY SYSTEM

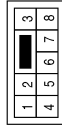
< WIRING DIAGRAM >

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5M	G	-
8M	W	-

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



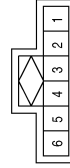
Terminal No.	Color of Wire	Signal Name
2	R	-

Connector No.	M157
Connector Name	JOINT CONNECTOR-M08
Connector Color	WHITE



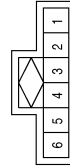
Terminal No.	Color of Wire	Signal Name
3	P	-
4	P	-

Connector No.	E22
Connector Name	JOINT CONNECTOR-E04
Connector Color	GRAY



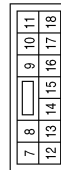
Terminal No.	Color of Wire	Signal Name
1	P	-
5	P	-

Connector No.	E21
Connector Name	JOINT CONNECTOR-E03
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	L	-
5	L	-

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	B	GND (POWER)

ABKIA7165GB

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

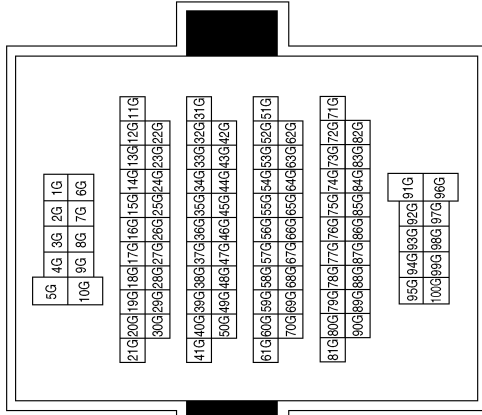
Connector No.	E38
Connector Name	STOP LAMP SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	G	-
4	R	-

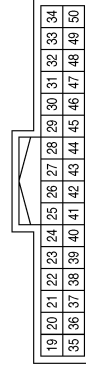
Terminal No.	Color of Wire	Signal Name
5G	P	-
13G	R	-
22G	L	-
23G	P	-
36G	LG	-
37G	G	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
28	P	CAN-L
29	L	CAN-H
38	G	PUSH START SW
41	B	GND (SIGNAL)
43	LG	IGN SIGNAL

Connector No.	E63
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
22	W	HORN RLY

Connector No.	E57
Connector Name	STOP LAMP RELAY
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	B	-
2	R	-
3	W	-
5	G	-

ABKIA7166GB

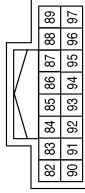
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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	E201
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



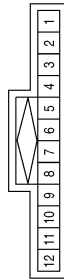
Terminal No.	Color of Wire	Signal Name
94	SB	HOODSW 2
96	Y	HOODSW

Connector No.	E74
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	-
3	R	-

Connector No.	E64
Connector Name	JOINT CONNECTOR-E10
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
4	W	-
6	W	-
10	G	-
11	G	-
12	G	-

Connector No.	E216
Connector Name	HORN (HIGH)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E215
Connector Name	HORN (LOW)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E202
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	G	-

ABKIA7167GB

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	E247
Connector Name	PRE-WIRING FOR HOOD SWITCH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	Y	-
3	B	-

Connector No.	E239
Connector Name	HORN (HIGH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B	-

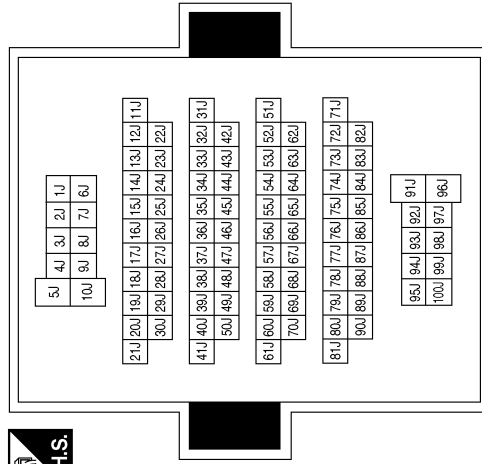
Connector No.	E238
Connector Name	HORN (LOW)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B	-

Terminal No.	Color of Wire	Signal Name
76J	W	-
77J	L	-
78J	LG	-
83J	BG	-
84J	R	-
85J	W	-
86J	G	-
87J	P	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Connector No.	E248
Connector Name	HOOD SWITCH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	Y	-
3	B	-

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INTELLIGENT KEY SYSTEM

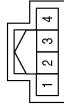
< WIRING DIAGRAM >

Connector No.	B28
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



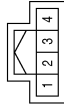
Terminal No.	Color of Wire	Signal Name
1	W	-
2	GR	-

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	LG	-

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



Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B46
Connector Name	REAR BUMPER ANTENNA
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	-
2	G	-

Connector No.	B33
Connector Name	TRUNK OPENER REQUEST SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	P	-
2	GR	-

Connector No.	B29
Connector Name	REAR PARCEL SHELF ANTENNA
Connector Color	GRAY



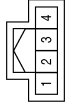
Terminal No.	Color of Wire	Signal Name
1	BG	-
2	R	-

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INTELLIGENT KEY SYSTEM

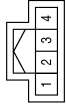
< WIRING DIAGRAM >

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



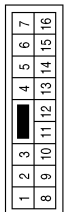
Terminal No.	Color of Wire	Signal Name
3	V	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



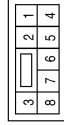
Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN



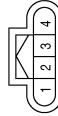
Terminal No.	Color of Wire	Signal Name
13	V	-
14	L	-

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



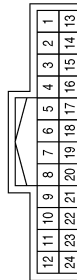
Terminal No.	Color of Wire	Signal Name
4	B	-

Connector No.	D6
Connector Name	FRONT OUTSIDE HANDLE LH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	BG	-
2	W	-
3	R	-
4	B	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	R	-
9	W	-
10	BG	-
18	B	-

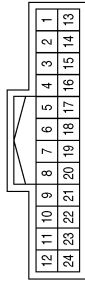
ABKIA7176GB

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INTELLIGENT KEY SYSTEM

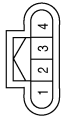
< WIRING DIAGRAM >

Connector No.	D114
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	P	-
9	W	-
10	BG	-

Connector No.	D106
Connector Name	FRONT OUTSIDE HANDLE RH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	BG	-
2	W	-
3	P	-
4	B	-

ABKIA7168GB

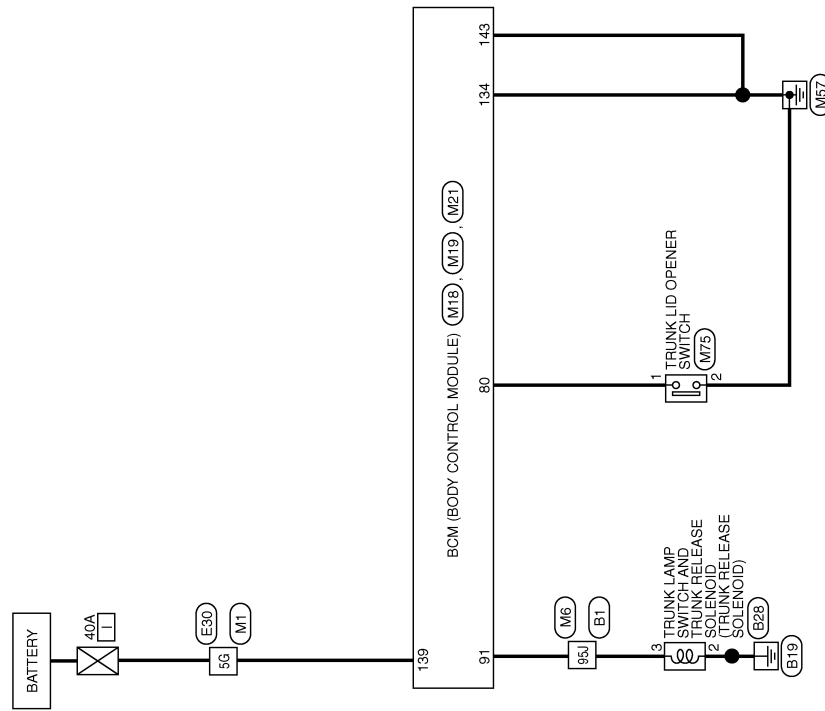
TRUNK LID OPENER

< WIRING DIAGRAM >

TRUNK LID OPENER

Wiring Diagram

INFOID:000000012592010



TRUNK LID OPENER

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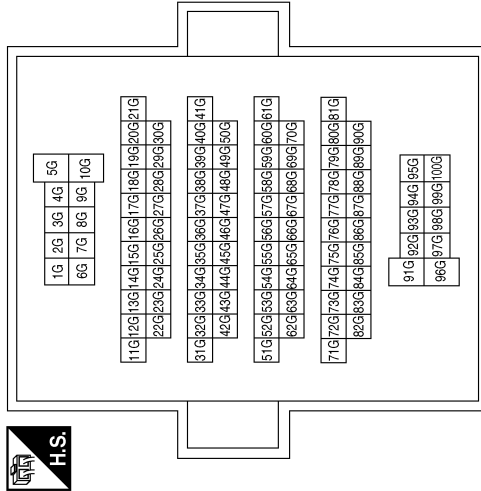
ABKWA3129GB

TRUNK LID OPENER

< WIRING DIAGRAM >

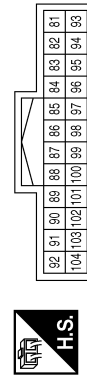
TRUNK LID OPENER CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



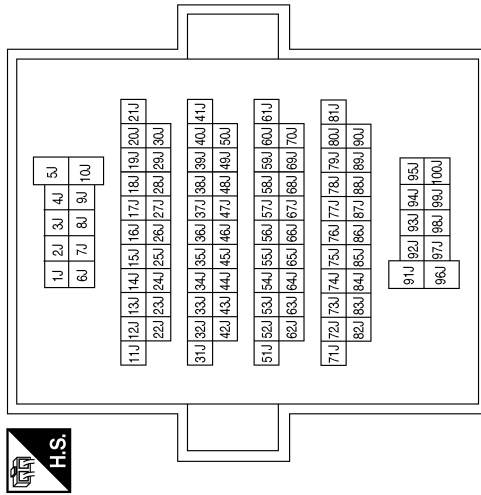
Terminal No.	Color of Wire	Signal Name
5G	W	-

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



Terminal No.	Color of Wire	Signal Name
91	V	TRUNK OPEN OUT

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	GRAY



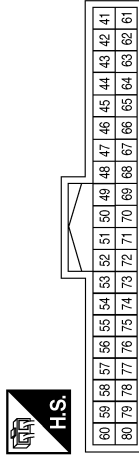
Terminal No.	Color of Wire	Signal Name
95J	V	-

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
134	B	GND2
139	W	BAT POWER F/L
143	B	GND1

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
80	BR	TRUNK OPEN SW

Connector No.	M75
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	BR	-
2	B	-

TRUNK LID OPENER

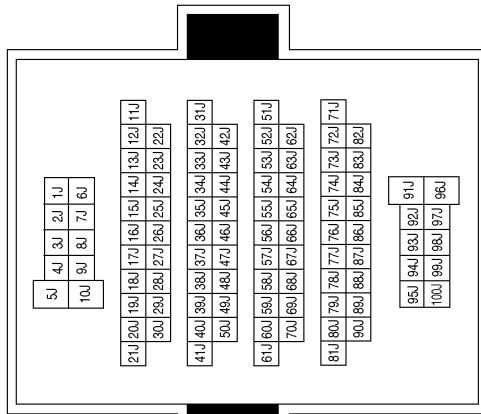
< WIRING DIAGRAM >

Connector No.	B28
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



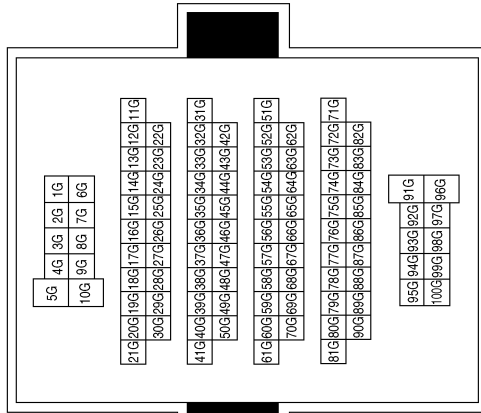
Terminal No.	Color of Wire	Signal Name
2	GR	-
3	V	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
95J	V	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

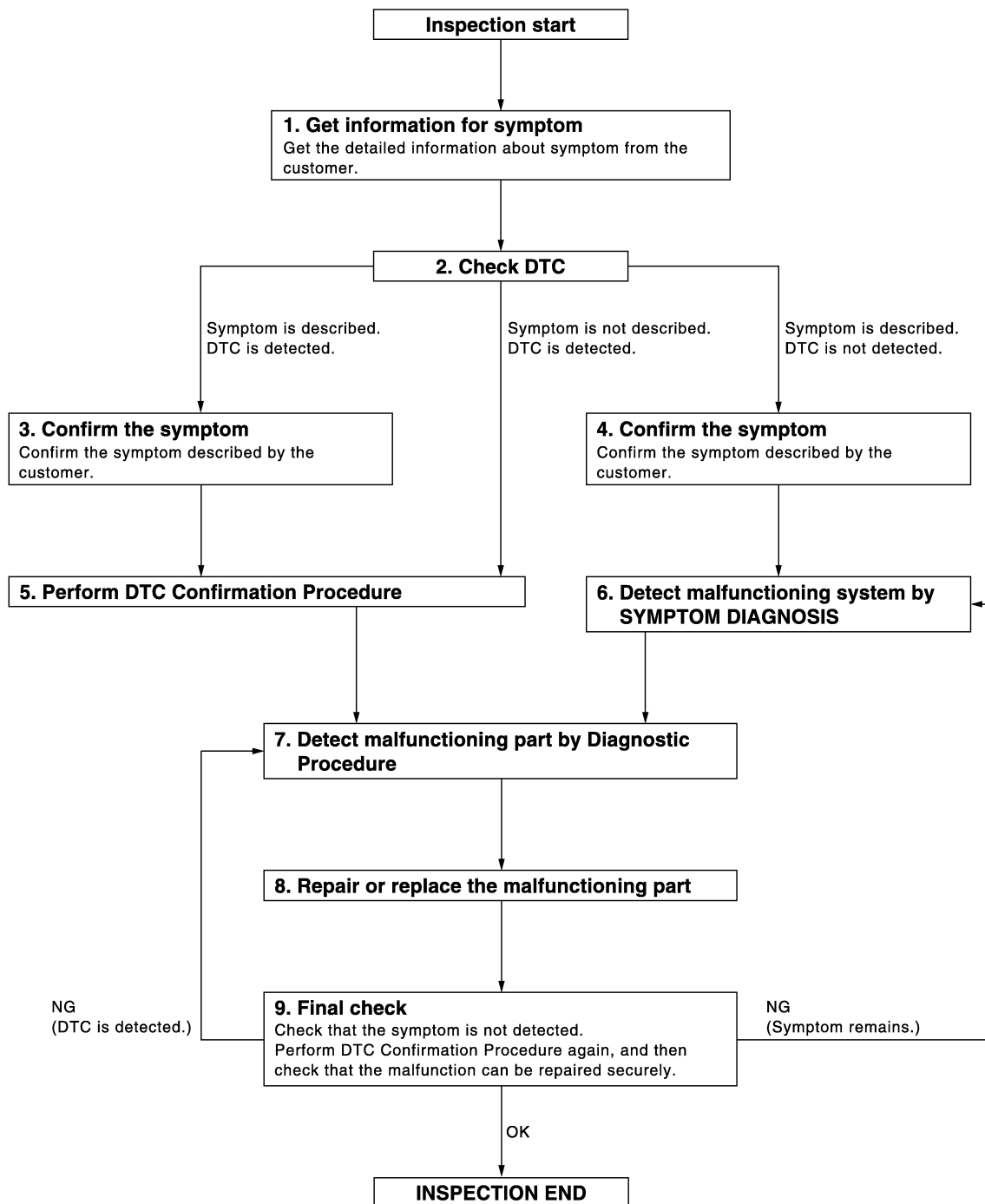
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000012592011

OVERALL SEQUENCE



JMKIA2270GB

DETAILED FLOW

Revision: November 2015

DLK-80

2016 Altima Sedan

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Is any symptom described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to [BCS-51. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

- Yes >> GO TO 7.
- No >> Refer to [GI-44. "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to SYMPTOM TABLE based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check voltage of related BCM terminals using CONSULT.

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is the inspection result normal?

NO (DTC is detected)>>GO TO 7.

NO (Symptom remains)>>GO TO 6.

YES >> Inspection End.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

A

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000012592012

B

Perform the system initialization when replacing BCM, replacing Intelligent Key or registering an additional Intelligent Key.

C

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000012592013

D

Refer to the CONSULT Immobilizer mode and follow the on-screen instructions.

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000012592014

Refer to [BCS-8, "BODY CONTROL SYSTEM : System Description"](#).

DTC Logic

INFOID:0000000012592015

DTC DETECTION LOGIC

NOTE:

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON.	In CAN communication system, any item (or items) of the following listed below is malfunctioning: <ul style="list-style-type: none">• Transmission.• Receiving (ECM).• Receiving (VDC/TCS/ABS).• Receiving (METER/M&A).• Receiving (TCM).• Receiving (IPDM E/R).

Diagnosis Procedure

INFOID:0000000012592016

1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 second or more.
2. Perform "Self Diagnostic Result" of "BCM" using CONSULT.

Is "CAN COMM CIRCUIT" displayed?

- YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.
NO >> Refer to [GI-44, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000012592017

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit malfunction.	BCM.

Diagnosis Procedure

INFOID:0000000012592018

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to [BCS-81. "Removal and Installation"](#).

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B261B REMOTE ENGINE START

< DTC/CIRCUIT DIAGNOSIS >

B261B REMOTE ENGINE START

DTC Logic

INFOID:000000012592019

DTC DETECTION LOGIC

NOTE:

- If DTC B261B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [BCS-68, "DTC Logic"](#).
- If DTC B261B is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [BCS-69, "DTC Logic"](#).

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B261B	BCM	The BCM has requested ignition OFF but ECM keeps the engine running for more than 10 seconds after the OFF request was made.	• ECM

Diagnosis Procedure

INFOID:000000012592020

1. CHECK ECM IGNITION, POWER AND GROUND CIRCUITS

Check ECM ignition power and ground circuits. Refer to [EC-211, "Diagnosis Procedure"](#) (with QR25DE) or [EC-758, "Diagnosis Procedure"](#) (with VQ35DE).

Is the inspection result normal?

- YES >> Replace ECM. Refer to [EC-577, "Removal and Installation"](#) (with QR25DE) or [EC-1088, "Removal and Installation"](#) (with VQ35DE). GO TO 2.
- NO >> Repair or replace harness or connectors.

2. INSPECTION

1. Turn ignition switch ON.
2. Select "Self Diagnostic Result" using CONSULT.
3. Touch "ERASE".
4. Perform vehicle remote start operation.

Does DTC B261B return?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
- NO >> Inspection End.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2621 INSIDE ANTENNA

DTC Logic

INFOID:000000012592021

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (rear parcel shelf) is sent to BCM.	<ul style="list-style-type: none"> Inside key antenna (rear parcel shelf) Harness or connector [Inside key antenna (rear parcel shelf) circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "INSIDE ANT DIAGNOSIS" in "Work support".
3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work support" of "INTELLIGENT KEY".
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-87, "Diagnosis Procedure"](#).
 NO >> Inside key antenna (rear parcel shelf) is OK.

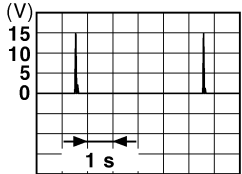
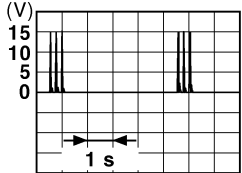
Diagnosis Procedure

INFOID:000000012592022

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M19	100, 99	Ground	When Intelligent Key is in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
			When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
 NO >> GO TO 2.

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B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (rear parcel shelf) connector.
2. Check continuity between BCM harness connector and inside key antenna (rear parcel shelf) harness connector.

BCM		Inside key antenna (rear parcel shelf)		Continuity
Connector	Terminal	Connector	Terminal	
M19	100	B29	1	Yes
	99		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M19	100		No
	99		

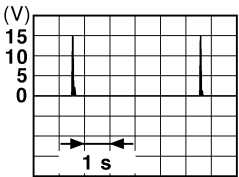
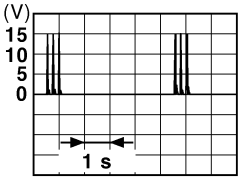
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna (rear parcel shelf). (New antenna or other antenna)
2. Connect BCM connector and inside key antenna (rear parcel shelf) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M19	100, 99	Ground	When Intelligent Key is in the antenna detection area.	
			When Intelligent Key is not in the antenna detection area.	

Is the inspection result normal?

YES >> Replace inside key antenna (rear parcel shelf).

NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE ANTENNA

DTC Logic

INFOID:000000012592023

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (front console) is sent to BCM.	<ul style="list-style-type: none"> Inside key antenna (front console) Harness or connector [Inside key antenna (front console) circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "INSIDE ANT DIAGNOSIS" in "Work support".
3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work support" of "INTELLIGENT KEY".
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-89, "Diagnosis Procedure"](#).
 NO >> Inside key antenna (front console) is OK.

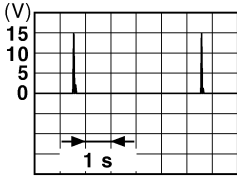
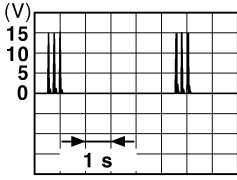
Diagnosis Procedure

INFOID:000000012592024

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	116, 128	Ground	When Intelligent Key is in the antenna detection area.	
			When Intelligent Key is not in the antenna detection area.	

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
 NO >> GO TO 2.

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (front console) connector.
2. Check continuity between BCM harness connector and inside key antenna (front console) harness connector.

BCM		Inside key antenna (front console)		Continuity
Connector	Terminal	Connector	Terminal	
M20	116	M81	1	Yes
	128		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	116		No
	128		

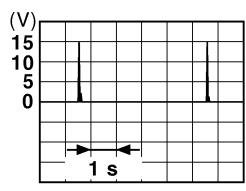
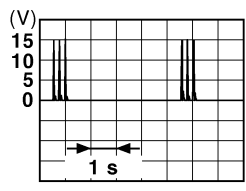
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna (front console). (New antenna or other antenna)
2. Connect BCM connector and inside key antenna (front console) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	116, 128	Ground	When Intelligent Key is in the antenna detection area.	
			When Intelligent Key is not in the antenna detection area.	

Is the inspection result normal?

YES >> Replace inside key antenna (front console). Refer to [DLK-217, "FRONT CONSOLE ANTENNA : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

B26FD SHIFT LOCK SOLENOID

DTC Logic

INFOID:000000012592025

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B26FD	SHIFT LOCK SOLENOID	BCM shift lock solenoid output control is OFF but shift lock solenoid output feedback is ON and these conditions are continuous for 1 second.	<ul style="list-style-type: none"> Shift lock solenoid Harness or connector Shift lock solenoid circuit is open or shorted

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" of "BCM" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-91, "Diagnosis Procedure"](#).
 NO >> Shift lock solenoid is OK.

Diagnosis Procedure

INFOID:000000012592026

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK POWER SOURCE (STOP LAMP SWITCH)

- Turn ignition switch OFF.
- Disconnect stop lamp switch connector.
- Check voltage between stop lamp switch connector E38 terminal 3 and ground.

Stop lamp switch		Ground	Voltage (Approx.)
Connector	Terminal		
E38	3		Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Check the following:
 - Harness for short or open between fuse block (J/B) and stop lamp switch
 - 10A fuse (No. 10, located in fuse block [J/B])

2. CHECK STOP LAMP SWITCH

Check stop lamp switch. Refer to [BRC-292, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Replace stop lamp switch. Refer to [BR-21, "Exploded View"](#).

3. CHECK GROUND CIRCUIT (STOP LAMP RELAY)

- Remove the stop lamp relay.
- Check continuity between stop lamp relay connector E57 terminal 1 and ground.

Stop lamp relay		Ground	Continuity
Connector	Terminal (+)		
E57	1		Yes

Is the inspection result normal?

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 4.
NO >> Repair or replace damaged parts.

4. CHECK HARNESS BETWEEN STOP LAMP RELAY AND BCM

1. Check continuity between stop lamp relay connector E57 terminal 3 and BCM connector M17 terminal 27.

BCM		Stop lamp relay		Continuity
Connector	Terminal	Connector	Terminal	
M17	27	E57	3	Yes

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace damaged parts.

5. CHECK HARNESS BETWEEN STOP LAMP SWITCH AND STOP LAMP RELAY

1. Check continuity between stop lamp relay connector E57 terminal 2 and stop lamp switch connector E38 terminal 4.

Stop lamp switch		Stop lamp relay		Continuity
Connector	Terminal	Connector	Terminal	
E38	4	E57	2	Yes

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Repair or replace damaged parts.

6. CHECK GROUND CIRCUIT (STOP LAMP RELAY)

1. Remove the stop lamp relay.
2. Check continuity between stop lamp relay connector E57 terminal 1 and ground.

Stop lamp relay		Ground	Continuity
Connector	Terminal (+)		
E57	1		Yes

Is the inspection result normal?

- YES >> GO TO 7.
NO >> Repair or replace damaged parts.

7. CHECK POWER SOURCE (STOP LAMP RELAY)

1. Check voltage between stop lamp relay connector E57 terminal 5 and ground.

Stop lamp relay		Ground	Voltage (Approx.)
Connector	Terminal (+)		
E57	5		Battery voltage

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Repair or replace damaged parts.

8. CHECK HARNESS BETWEEN BCM AND CVT SHIFT SELECTOR FOR OPEN

1. Disconnect CVT shift selector connector.
2. Check continuity between BCM connector M20 terminal 108 and CVT shift selector connector M23 terminal 3.

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

BCM		CVT shift selector		Continuity
Connector	Terminal	Connector	Terminal	
M20	108	M23	3	Yes

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace damaged parts.

9. CHECK HARNESS BETWEEN BCM AND CVT SHIFT SELECTOR FOR SHORT CIRCUIT

Check continuity between BCM connector M20 terminal 108 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	108		No

Is the inspection result normal?

YES >> GO TO 10.

NO >> Repair or replace damaged parts.

10. CHECK GROUND CIRCUIT (CVT SHIFT SELECTOR)

Check continuity between CVT shift selector connector M23 terminal 4 and ground.

CVT shift selector		Ground	Continuity
Connector	Terminal		
M23	4		Yes

Is the inspection result normal?

YES >> Replace shift lock solenoid. Refer to [TM-186. "Exploded View"](#) (RE0F10D) or [TM-389. "Exploded View"](#) (RE0F10H).

NO >> Repair or replace damaged parts.

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B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B26FE HOOD SWITCH

DTC Logic

INFOID:000000012592027

DTC DETECTION LOGIC

NOTE:

- If DTC B26FE is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [BCS-68, "DTC Logic"](#).
- If DTC B26FE is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [BCS-69, "DTC Logic"](#).

DTC	CONSULT display description	DTC detecting condition	Possible cause
B26FE	HOOD SWITCH	BCM detects that the hood switch input is malfunctioning for 3 seconds.	<ul style="list-style-type: none"> • Hood switch • Harness or connector [hood switch circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" of "BCM" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-94, "Diagnosis Procedure"](#).
 NO >> Hood switch is OK.

Diagnosis Procedure

INFOID:000000012592028

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK HOOD SWITCH SIGNAL CIRCUITS

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

(+)		(-)	Voltage (V) (Approx.)
Hood switch			
Connector	Terminal	Ground	Battery voltage
E248	1		
	2		

Is the inspection result normal?

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

2. CHECK HOOD SWITCH SIGNAL CIRCUITS

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and hood switch harness connector.

IPDM E/R		Hood switch		Continuity
Connector	Terminal	Connector	Terminal	
E201	94	E248	1	Yes
	96		2	

B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E201	94		No
	96		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-47, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

Hood switch		Ground	Continuity
Connector	Terminal		
E248	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HOOD SWITCH

Refer to [DLK-95, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to [DLK-173, "HOOD LOCK CONTROL : Removal and Installation"](#).

5.CHECK BCM CONFIGURATION

Refer to [BCS-66, "CONFIGURATION \(BCM\) : Configuration list"](#).

>> Inspection End.

Component Inspection

INFOID:000000012592029

DLK

1.CHECK HOOD SWITCH

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

Hood switch		Condition	Continuity	
Terminal				
1	3	Hood switch	Press	Yes
			Release	No
2			Press	No
			Release	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace hood switch. Refer to [DLK-173, "HOOD LOCK CONTROL : Removal and Installation"](#).

B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

B26FF REMOTE KEYLESS ENTRY RECEIVER

DTC Logic

INFOID:000000012592030

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26FF	INTELLIGENT TUNER COMMUNICATION FAIL	Inactive communication between BCM and remote keyless entry receiver.	<ul style="list-style-type: none"> • Harness or connector • Remote keyless entry receiver • BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in "Self Diagnostic Result" of "BCM" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-96, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012592031

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	119	Ground	Standby state	
			Press the Intelligent Key lock or unlock button.	

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. Disconnect BCM and remote keyless entry receiver connectors.
2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M20	119	M27	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)		(-)	Continuity
BCM			
Connector	Terminal		
M20	119	Ground	No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(-)	Voltage (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M27	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 5A fuse No. 9 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 5A fuse No. 9.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver harness connector and ground.

Remote keyless entry receiver		Ground	Continuity
Connector	Terminal		
M27	3		Yes

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to [DLK-221. "Removal and Installation"](#).

NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000012829248

Regarding Wiring Diagram information, refer to [BCS-55. "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	I (40A)
131	BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M21.

2. Check voltage between BCM connector M21 terminals 131, 139 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M21	131	—	Battery voltage
	139		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M21 terminals 134, 143 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M21	134	—	Yes
	143		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Description

INFOID:0000000012592033

Detects door open/close condition.

Component Function Check

INFOID:0000000012592034

1.CHECK FUNCTION

With CONSULT

Check door switches "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR" in "Data Monitor".

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	
DOOR SW-RL	
DOOR SW-RR	

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Refer to [DLK-99, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012592035

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

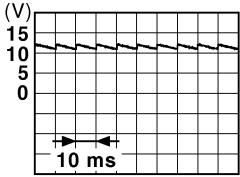
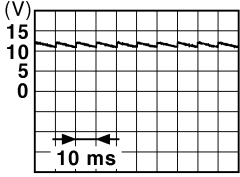
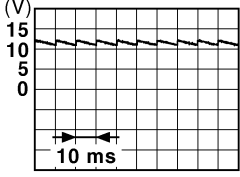
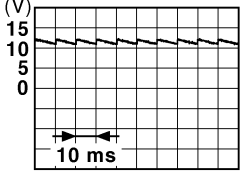
1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

DLK

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminals		(-)	Door condition		Voltage (V) (Approx.)
(+)					
BCM connector	Terminal				
M19	96	Ground	Front door switch LH	OPEN	0
				CLOSE	
	94		Front door switch RH	OPEN	0
				CLOSE	
	93		Rear door switch RH	OPEN	0
				CLOSE	
	82		Rear door switch LH	OPEN	0
				CLOSE	

Is the inspection result normal?

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

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and door switch connector.
2. Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M19	96	Front door switch LH	3	Yes
	94	Front door switch RH		
	93	Rear door switch RH		
	82	Rear door switch LH		

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M19	96	Ground	No
	94		
	93		
	82		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Refer to [DLK-101, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to [DLK-216, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000012592036

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
3	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to [DLK-216, "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000012592037

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:000000012592038

1. CHECK FUNCTION

With CONSULT

Check "CDL LOCK SW", "CDL UNLOCK SW" in "Data Monitor".

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to [DLK-102, "DRIVER SIDE : Diagnosis Procedure \(With LH and RH Anti-Pinch\)"](#).

NO >> With LH anti-pinch only, refer to [DLK-103, "DRIVER SIDE : Diagnosis Procedure \(With LH Anti-Pinch Only\)"](#).

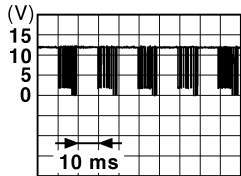
DRIVER SIDE : Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:000000012592039

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Read voltage signal between BCM connector and ground with oscilloscope when door lock and unlock switch (driver side) is turned "LOCK" or "UNLOCK".
2. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (driver side) is turned "LOCK" or "UNLOCK".

Terminal		Condition	Signal (Reference value)
(+)	(-)		
BCM connector	Terminal		
M18	54	Ground	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p>

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2. CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D7	1	Ground	Yes

Is the inspection result normal?

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

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M18	54	D7	11	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminals		Continuity
M18	54	Ground	No

Is the inspection result normal?

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

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

DRIVER SIDE : Diagnosis Procedure (With LH Anti-Pinch Only)

INFOID:000000012592040

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Terminal		Voltage (Approx.)
D12	Neutral → Unlock	15	Ground	Battery voltage → 0
	Neutral → Lock	3		

Is the inspection result normal?

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

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D12	1	Ground	Yes

Is the inspection result normal?

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

3.CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	1 - 15	
Neutral/Lock	1 - 15	No
Neutral/Unlock	1 - 3	

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-63, "Removal and Installation"](#).

4.CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M17	34	D12	15	Yes
	19		3	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M17	34	Ground	No
	19		

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000012592041

Transmits door lock/unlock operation to BCM.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Component Function Check

INFOID:000000012592042

1.CHECK FUNCTION

With CONSULT

Check "CDL LOCK SW", "CDL UNLOCK SW" in "Data Monitor".

Monitor item	Condition	
CDL LOCK SW	LOCK	: ON
	UNLOCK	: OFF
CDL UNLOCK SW	LOCK	: OFF
	UNLOCK	: ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to [DLK-105, "PASSENGER SIDE : Diagnosis Procedure \(With LH and RH Anti-Pinch\)"](#).

NO >> With LH anti-pinch only, refer to [DLK-106, "PASSENGER SIDE : Diagnosis Procedure \(With LH Anti-Pinch Only\)"](#).

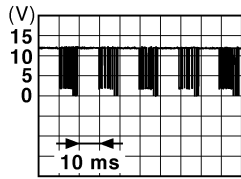
PASSENGER SIDE : Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:000000012592043

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Read voltage signal between BCM connector and ground with oscilloscope when power window and door lock/unlock switch RH is changed to "LOCK" or "UNLOCK".
2. Check that signals which are shown in the figure below can be detected during 10 second just after power window and door lock/unlock switch RH is changed "LOCK" or "UNLOCK".

Terminal		Condition	Signal (Reference value)
(+)	(-)		
BCM connector	Terminal		
M18	54	Ground	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p>

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector.
3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH connector	Terminal		Continuity
D105	7	Ground	Yes

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

3. CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M18	54	D105	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminals	Continuity
M18	54 Ground	No

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

- YES >> Inspection End.

PASSENGER SIDE : Diagnosis Procedure (With LH Anti-Pinch Only)

INFOID:0000000012592044

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is changed to "LOCK" or "UNLOCK".

Connector	Power window and door lock/unlock switch RH state	Terminal	Voltage (Approx.)
D110	Neutral → Lock	1	Battery voltage → 0
	Neutral → Unlock	2	

Is the inspection result normal?

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

2. CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector.
3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH connector	Terminal	Continuity
D110	3 Ground	Yes

Is the inspection result normal?

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

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK POWER WINDOW SWITCH

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	2 - 3	
Neutral/Unlock	1 - 3	No
Neutral/Lock	2 - 3	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power window and door lock/unlock switch RH.

4.CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M17	19	D110	1	Yes
	34		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M17	19	No
	34	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

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DLK

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

Component Function Check

INFOID:000000012592045

1. CHECK OUTSIDE KEY ANTENNA (RH)

1. Place the Intelligent Key into the detection area of the outside key antenna (RH).
2. Press the door request switch (RH).

Does the door unlock?

- YES >> Inspection End.
 NO >> Refer to [DLK-108, "Diagnosis Procedure"](#).

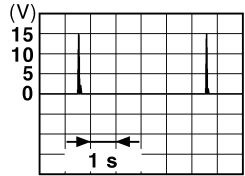
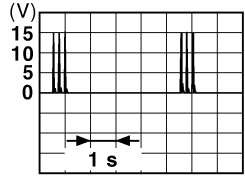
Diagnosis Procedure

INFOID:000000012592046

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	114, 115	Ground	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (RH) connector.
2. Check continuity between BCM harness connector and outside key antenna (RH) harness connector.

BCM		Outside key antenna (RH)		Continuity
Connector	Terminal	Connector	Terminal	
M20	114	D106	1	Yes
	115		2	

3. Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M20	114		No
	115		

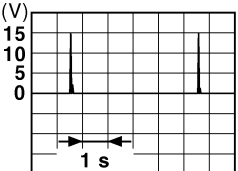
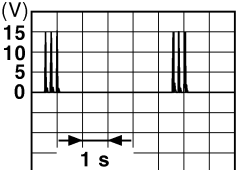
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (RH). (New antenna or other antenna)
2. Connect BCM connector and outside key antenna (RH) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	114, 115	Ground	When the front door RH request switch is operated with ignition switch OFF.	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.) 
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	

Is the inspection result normal?

YES >> Replace outside key antenna (RH). Refer to [DLK-218. "PASSENGER SIDE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-81. "Removal and Installation"](#).

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA (DRIVER SIDE)

Component Function Check

INFOID:000000012592047

1. CHECK OUTSIDE KEY ANTENNA (LH)

- Place the Intelligent Key into the detection area of the outside key antenna (LH).
- Press the door request switch (LH).

Does the door unlock?

- YES >> Inspection End.
 NO >> Refer to [DLK-110, "Diagnosis Procedure"](#).

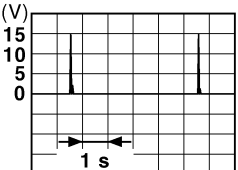
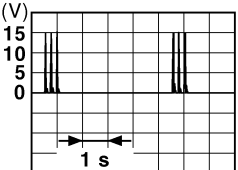
Diagnosis Procedure

INFOID:000000012592048

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

- Turn ignition switch OFF.
- Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	121, 122	Ground	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Disconnect BCM connector and outside key antenna (LH) connector.
- Check continuity between BCM harness connector and outside key antenna (LH) harness connector.

BCM		Outside key antenna (LH)		Continuity
Connector	Terminal	Connector	Terminal	
M20	122	D6	1	Yes
	121		2	

- Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M20	122		No
	121		

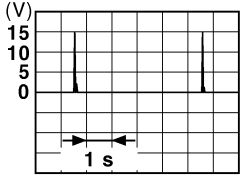
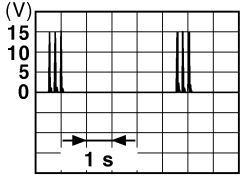
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (LH). (New antenna or other antenna)
2. Connect BCM connector and outside key antenna (LH) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	121, 122	Ground	When the driver door request switch is operated with ignition switch OFF.	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)  <small>JMKIA0062GB</small>
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 <small>JMKIA0063GB</small>

Is the inspection result normal?

YES >> Replace outside key antenna (LH). Refer to [DLK-218, "DRIVER SIDE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA (REAR BUMPER)

Component Function Check

INFOID:000000012592049

1.CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

1. Place the Intelligent Key into the detection area of the outside key antenna (rear bumper).
2. Press the door request switch (trunk).

Does the door unlock?

- YES >> Inspection End.
 NO >> Refer to [DLK-112, "Diagnosis Procedure"](#).

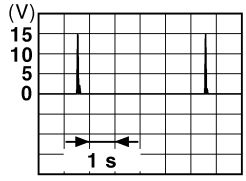
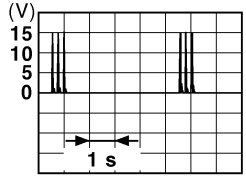
Diagnosis Procedure

INFOID:000000012592050

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M19	101, 102	Ground	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
 NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (rear bumper) connector.
2. Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
M19	102	B46	1	Yes
	101		2	

3. Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M19	102		No
	101		

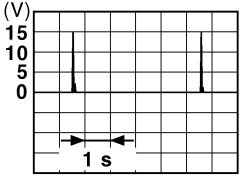
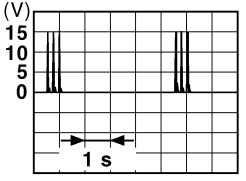
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (rear bumper). (New antenna or other antenna)
2. Connect BCM and outside key antenna (rear bumper) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M19	101, 102	Ground	When the trunk request switch is operated with ignition switch OFF.	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.) 
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to [DLK-218, "REAR BUMPER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

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KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description

INFOID:000000012592051

For vehicles equipped with LH and RH anti-pinch system, the main power window and door lock/unlock switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signal.

For vehicles equipped with LH anti-pinch system only, the front door lock assembly LH (key cylinder switch) transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:000000012592052

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check "KEY CYL UN-SW", "KEY CYL UN-SW" in "Data Monitor" for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-80. "Work Flow"](#).

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> With LH and RH anti-pinch, refer to [DLK-114. "Diagnosis Procedure \(With LH and RH Anti-Pinch\)"](#).

NO >> With LH anti-pinch only, refer to [DLK-115. "Diagnosis Procedure \(With LH Anti-Pinch Only\)"](#).

Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:000000012592053

Regarding Wiring Diagram information, refer to [DLK-51. "Wiring Diagram"](#).

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/ unlock switch connector	Terminal		
	D7	Ground	
	3	Lock	0
		Neutral / Unlock	5
	15	Unlock	0
		Neutral / Lock	5

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-137. "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2. Disconnect main power window and door lock/unlock switch connector and front door lock assembly LH connector.
3. Check continuity between main power window and door lock/unlock switch connector and front door lock assembly LH connector.

Main power window and door lock/unlock switch connector	Terminal	Front door lock assembly LH connector	Terminal	Continuity
D7	3	D14	6	Yes
	15		5	

4. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Ground	Continuity
D7	3	Ground	No
	15		

Is the inspection result normal?

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

3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D14	4	Ground	Yes

Is the inspection result normal?

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

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
 Refer to [DLK-116, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).
 NO >> Replace front door lock assembly LH. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

Diagnosis Procedure (With LH Anti-Pinch Only)

INFOID:000000012592054

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

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KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M18	74	Lock	0
		Neutral / Unlock	5
M17	24	Unlock	0
		Neutral / Lock	5

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D14	4		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect BCM connector M18 and M17.
2. Check continuity between front door lock assembly LH connector and BCM connector M18 or M17.

Front door lock assembly LH connector	Terminal	BCM connector	Terminal	Continuity
D14	5	M17	24	Yes
	6	M18	74	

3. Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D14	5		
	6		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to [DLK-116, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> Replace front door lock assembly LH. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

Component Inspection

INFOID:0000000012592055

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check front door lock assembly LH.

Terminal		Key position	Continuity
Front door lock assembly LH (key cylinder switch) connector			
5	4	Unlock	Yes
		Neutral / Lock	No
6		Lock	Yes
		Neutral / Unlock	No

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace front door lock assembly LH. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

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DLK

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Description

INFOID:000000012592056

Detects door lock condition of driver door.

Component Function Check

INFOID:000000012592057

1. CHECK FUNCTION

With CONSULT

Check unlock sensor "UNLK SEN -DR" in "Data Monitor".

Monitor item	Condition
UNLK SEN -DR	Front door lock (driver side) LOCK : ON
	Front door lock (driver side) UNLOCK : OFF

Is the inspection result normal?

- YES >> Unlock sensor is OK.
 NO >> Refer to [DLK-118, "Diagnosis Procedure"](#).

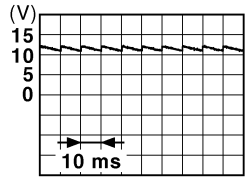
Diagnosis Procedure

INFOID:000000012592058

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1. CHECK UNLOCK SENSOR POWER SUPPLY

Check signal between BCM connector and ground with oscilloscope.

Terminals		Front door lock assembly LH condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M17	30	Locked	 <p style="text-align: right;">JPMIA0011GB</p>
		Unlocked	0

Is the inspection result normal?

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

2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM connector	Terminal	Front door lock assembly LH connector	Terminal	Continuity
M17	30	D14	3	Yes

- Check continuity between BCM connector and ground.

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
M17	30		No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and front door lock assembly LH.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D14	4		Yes

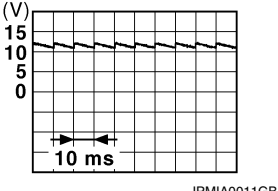
Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BCM OUTPUT SIGNAL

1. Connect BCM harness connector.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals		(-)	Voltage (V) (Approx.)
(+)	BCM connector		
	Terminal		
	M17	Ground	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#)

5.CHECK UNLOCK SENSOR

Refer to [DLK-119, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front door lock assembly LH. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000012592059

1.CHECK UNLOCK SENSOR

Check unlock sensor.

Terminal	Front door lock assembly LH condition	Continuity
Front door lock assembly LH		

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

3	4	Unlock	Yes
		Lock	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front lock assembly LH. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK LID OPENER SWITCH

Description

INFOID:0000000012592060

Transmits trunk lid open signal to BCM.

Component Function Check

INFOID:0000000012592061

1. CHECK FUNCTION

With CONSULT

Check trunk lid opener switch "TR/BD OPEN SW" in "Data Monitor".

- When trunk lid opener switch is turned to "ON".

Monitor item	Condition
TR/BD OPEN SW	Trunk lid opener switch is pressed: ON
	Trunk lid opener switch is released: OFF

Is the inspection result normal?

- YES >> Trunk lid opener switch is OK.
 NO >> Refer to [DLK-121, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012592062

Regarding Wiring Diagram information, refer to [DLK-77, "Wiring Diagram"](#).

1. CHECK TRUNK LID OPEN INPUT SIGNAL

1. Remove Intelligent Key from key slot.
2. Press trunk lid opener switch.
3. Check voltage between BCM connector and ground.

Terminals		Condition of trunk lid opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	ON (press and hold) OFF (release)	0 Battery voltage
M18	80		

DLK

Is the inspection result normal?

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

2. CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and trunk lid opener switch connector.

BCM connector	Terminal	Trunk lid opener switch connector	Terminal	Continuity
M18	80	M75	1	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	80		No

Is the inspection result normal?

- YES >> GO TO 3.

TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair harness or connector.

3.CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch connector and ground.

Trunk lid opener switch	Terminal	Ground	Continuity
M75	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TRUNK LID OPENER SWITCH

Refer to [DLK-122. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace trunk lid opener switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000012592063

1.CHECK TRUNK LID OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check continuity between trunk lid opener switch connector.

Terminal		Condition	Continuity
Trunk lid opener switch			
1	2	ON (press and hold)	Yes
		OFF (release)	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.

TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK LAMP SWITCH

Description

INFOID:000000012592068

Detects trunk open/close condition.

Component Function Check

INFOID:000000012592069

1. CHECK FUNCTION

With CONSULT

Check "TRNK/HAT MNTR" in "Data Monitor".

Monitor item	Condition
TRNK/HAT MNTR	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Trunk lamp switch is OK.

NO >> Refer to [DLK-123, "Diagnosis Procedure"](#).

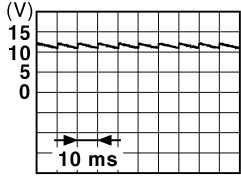
Diagnosis Procedure

INFOID:000000012592070

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1. CHECK TRUNK LAMP SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Trunk condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M19	97	OPEN	0
		CLOSE	 <p>JPMIA0011GB</p>

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK TRUNK LAMP SWITCH CIRCUIT

1. Disconnect BCM and trunk lamp switch and trunk release solenoid connectors.
2. Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
M19	97	B28	1	Yes

3. Check continuity between BCM connector and ground.

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TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
M19	97		No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and trunk lamp switch and trunk release solenoid.

3.CHECK TRUNK LAMP SWITCH GROUND CIRCUIT

Check continuity between trunk lid lock assembly connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal	Ground	Continuity
B28	2		Yes

Is the inspection result normal?

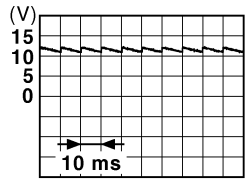
YES >> GO TO 4.

NO >> Repair or replace trunk lamp switch and trunk release solenoid ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Insure trunk remains closed during this step.
2. Connect BCM connector.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
M19	97	Ground



JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-81. "Removal and Installation"](#).

5.CHECK TRUNK LAMP SWITCH

Refer to [DLK-124. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace trunk lamp switch and trunk release solenoid.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000012592071

1.CHECK TRUNK LAMP SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lamp switch and trunk release solenoid connector.
3. Check trunk lamp switch.

TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Trunk condition	Continuity
Trunk lamp switch and trunk release solenoid			
1	2	OPEN	Yes
		CLOSE	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lamp switch and trunk release solenoid.

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Description

INFOID:000000012592072

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000012592073

1.CHECK FUNCTION

With CONSULT

Check door request switch "REQ SW-DR", "REQ SW-AS" in "Data Monitor".

Monitor item	Condition
REQ SW-DR	Door request switch is pressed : ON
REQ SW-AS	Door request switch is released : OFF

Is the inspection result normal?

- YES >> Door request switch is OK.
 NO >> Refer to [DLK-126, "Diagnosis Procedure"](#).

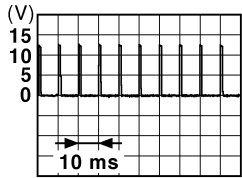
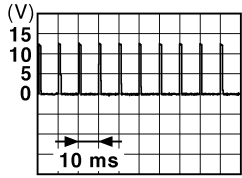
Diagnosis Procedure

INFOID:000000012592074

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1.CHECK DOOR REQUEST SWITCH OUTPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between BCM harness connector and ground.

Terminals			Door request switch Condition	Voltage (V) (Approx.)
(+)		(-)		
BCM connector	Terminal			
M18	Door request switch (driver side)	Ground	Pressed	0
			Released	 <p style="text-align: right;">JPMIA0016GB</p>
	Pressed		0	
	Released		 <p style="text-align: right;">JPMIA0016GB</p>	
Door request switch (passenger side)	72			

Is the inspection result normal?

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

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM and front outside handle connector.
2. Check continuity between BCM connector and front outside handle connector.

BCM connector	Terminal	Front outside handle connector	Terminal	Continuity
M18	71	D6 (driver side)	3	Yes
	72	D106 (passenger side)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	71	Ground	No
	72		

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair or replace harness between BCM and front outside handle.

3. CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between front outside handle connector and ground.

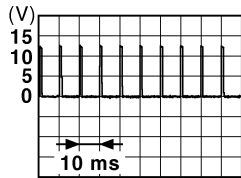
Front outside handle connector	Terminal	Ground	Continuity
D6 (driver side)	4	Ground	Yes
D106 (passenger side)			

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Repair or replace front outside handle ground circuit.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

Terminals		(-)	Voltage (V) (Approx.)
BCM connector	Terminal		
M18	71	Ground	
	72		

JPMIA0016GB

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

5. CHECK DOOR REQUEST SWITCH

Refer to [DLK-128, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Replace malfunctioning front outside handle.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000012592075

1. CHECK DOOR REQUEST SWITCH

Check front outside handle (request switch).

Terminal		Door request switch condition	Continuity
Front outside handle (request switch)			
3	4	Pressed	Yes
		Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunction front outside handle.

TRUNK OPENER REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK OPENER REQUEST SWITCH

Description

INFOID:000000012592076

Performs trunk lid open request when it is pressed.

Component Function Check

INFOID:000000012592077

1. CHECK FUNCTION

With CONSULT

Check trunk opener request switch "REQ SW -BD/TR" in "Data Monitor".

Monitor item	Condition
REQ SW -BD/TR	Trunk opener request switch is pressed : ON
	Trunk opener request switch is released : OFF

Is the inspection result normal?

- YES >> Trunk opener request switch is OK.
- NO >> Refer to [DLK-129, "Diagnosis Procedure"](#).

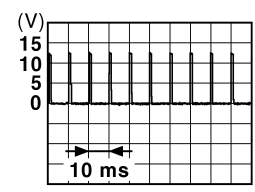
Diagnosis Procedure

INFOID:000000012592078

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK TRUNK OPENER REQUEST SWITCH OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Trunk lid opener request switch condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Pressed	0
M19	83	Released	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>

Is the inspection result normal?

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

2. CHECK TRUNK OPENER REQUEST SWITCH CIRCUIT

1. Disconnect BCM and trunk opener request switch connector.
2. Check continuity between BCM connector and trunk opener request switch connector.

BCM connector	Terminal	Trunk opener request switch connector	Terminal	Continuity
M19	83	B33	1	Yes

3. Check continuity between BCM connector and ground.

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TRUNK OPENER REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
M19	83		No

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair or replace harness between BCM and trunk opener request switch.

3.CHECK TRUNK OPENER REQUEST SWITCH GROUND CIRCUIT

Check continuity between trunk opener request switch connector and ground.

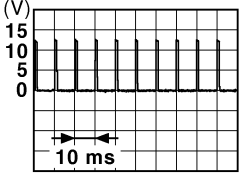
Trunk opener request switch connector	Terminal	Ground	Continuity
B33	2		Yes

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Repair or replace trunk opener request switch ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal		
M19	83	Ground	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

5.CHECK TRUNK OPENER REQUEST SWITCH

Refer to [DLK-130, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Replace trunk opener request switch.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000012592079

1.CHECK TRUNK OPENER REQUEST SWITCH

Check trunk opener request switch.

TRUNK OPENER REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Trunk opener request switch condition	Continuity
Trunk opener request switch			
1	2	Pressed	Yes
		Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk opener request switch.

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000012592080

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000012592081

1.CHECK FUNCTION

1. Perform "Active Test" of "DOOR LOCK" using CONSULT.
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-132, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000012592082

Regarding Wiring Diagram information, refer to [DLK-51, "Wiring Diagram"](#).

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M21	135	Lock	0 → Battery voltage → 0
	137	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator driver side connector.
3. Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M21	135	D14	1	Yes
	137		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M21	135	No
	137	

Is the inspection result normal?

- YES >> Replace front door lock actuator LH.
NO >> Repair or replace harness.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000012592083

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000012592084

1. CHECK FUNCTION

1. Perform "Active Test" of "DOOR LOCK" using CONSULT.
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-133. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000012592085

Regarding Wiring Diagram information, refer to [DLK-51. "Wiring Diagram"](#).

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M21	135	Lock	0 → Battery voltage → 0
	130	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and front door lock actuator RH connector.
2. Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
M21	135	D108	2	Yes
	130		1	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M21	135	No
	130	

Is the inspection result normal?

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace front door lock actuator RH.
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

REAR LH

REAR LH : Description

INFOID:000000012592086

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000012592087

1. CHECK FUNCTION

1. Perform "Active Test" of "DOOR LOCK" using CONSULT.
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-134. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000012592088

Regarding Wiring Diagram information, refer to [DLK-51. "Wiring Diagram"](#).

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M21	132	Lock	0 → Battery voltage → 0
	133	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and rear door lock actuator LH connectors.
2. Check continuity between BCM connector and rear door lock actuator LH connector.

BCM connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M21	132	D205	1	Yes
	133		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M21	132	No
	133	

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace rear door lock actuator LH.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

REAR RH

REAR RH : Description

INFOID:000000012592089

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000012592090

1.CHECK FUNCTION

1. Perform Active Test of "DOOR LOCK" using CONSULT.
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-135. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000012592091

Regarding Wiring Diagram information, refer to [DLK-51. "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M21	132	Lock	0 → Battery voltage → 0
	133	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and rear door lock actuator RH connectors.
2. Check continuity between BCM connector and rear door lock actuator RH connector.

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M21	132	D305	2	Yes
	133		1	

3. Check continuity between BCM connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal		Continuity
M21	132	Ground	No
	133		

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

TRUNK LID OPENER ACTUATOR

Description

INFOID:0000000012592092

Performs trunk lid open with signal from BCM.

Component Function Check

INFOID:0000000012592093

1.CHECK FUNCTION

1. Perform "Active Test" of "TRUNK/GLASS HATCH" using CONSULT.
2. Touch "OPEN" and check that trunk lid opens.

Is the inspection result normal?

- YES >> Trunk lid opener actuator is OK.
NO >> Refer to [DLK-137, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012592094

Regarding Wiring Diagram information, refer to [DLK-77, "Wiring Diagram"](#).

1.CHECK OUTPUT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect trunk lamp switch and trunk release solenoid connector.
3. Check voltage between trunk lamp switch and trunk release solenoid connector and ground.

Terminals		(-)	Condition of trunk lid opener switch	Voltage (V) (Approx.)
(+)	Terminal			
Trunk lamp switch and trunk release solenoid connector	3	Ground	OFF → ON	0 → Battery voltage → 0
B28	3	Ground	OFF → ON	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		(-)	Condition of trunk lid opener switch	Voltage (V) (Approx.)
(+)	Terminal			
BCM connector	91	Ground	OFF → ON	0 → Battery voltage → 0
M19	91	Ground	OFF → ON	0 → Battery voltage → 0

Is the inspection result normal?

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

3.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM.
2. Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
M19	91	B28	3	Yes

3. Check continuity between BCM connector and ground.

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TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal		Continuity
M19	91	Ground	No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER GROUND CIRCUIT

Check continuity between trunk lamp switch and trunk release solenoid connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal		Continuity
B28	2	Ground	Yes

Is the inspection result normal?

YES >> Replace trunk lamp switch and trunk release solenoid.

NO >> Repair or replace harness.

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000012592095

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:0000000012592096

1.CHECK FUNCTION

With CONSULT

Check Intelligent Key warning buzzer in "OUTSIDE BUZZER" of "Active Test".

Is the inspection result normal?

YES >> Intelligent Key warning buzzer (engine room) is OK.

NO >> Refer to [DLK-139, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012592097

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check voltage between BCM connector and ground.

Terminals		Warning buzzer operation condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	ON	0
M18	64	OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key warning buzzer connector.
3. Check voltage between Intelligent Key warning buzzer connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
Intelligent Key warning buzzer connector	Terminal	Battery voltage
E74	1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and Intelligent Key warning buzzer connector.

BCM connector	Terminal	Intelligent Key warning buzzer connector	Terminal	Continuity
M18	64	E74	3	Yes

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	64		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness between BCM and Intelligent Key warning buzzer.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Check [DLK-140. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace Intelligent Key warning buzzer.

5. CHECK INTERMITTENT INCIDENT

Check [GI-44. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000012592098

1. CHECK INTELLIGENT KEY WARNING BUZZER

Connect battery power supply to Intelligent Key warning buzzer terminals 1 and 3, and check the operation.

Intelligent Key warning buzzer		Operation
Terminal		
(+)	(-)	
1	3	Buzzer sounds

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000012592099

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000012592100

1. CHECK FUNCTION

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "RKE OPE COUN1" in "Data Monitor".
3. Check that the function operates normally according to the following conditions:

Monitor item	Condition
RKE OPE COUN1	Check whether value changes when operating Intelligent Key.

Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.
 NO >> Refer to [DLK-141, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012592101

Regarding Wiring Diagram information, refer to [DLK-61, "Wiring Diagram"](#).

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M20	119	Ground	Standby state	
			Press the Intelligent Key lock or unlock button.	

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
 NO >> GO TO 2.

2. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. Disconnect BCM and remote keyless entry receiver connectors.
2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M20	119	M27	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)		(-)	Continuity
BCM			
Connector	Terminal		
M20	119	Ground	No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(-)	Voltage (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M27	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 5A fuse No. 9 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 5A fuse No. 9.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver harness connector and ground.

Remote keyless entry receiver		Ground	Continuity
Connector	Terminal		
M27	3		Yes

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to [DLK-221. "Removal and Installation"](#).

NO >> Repair or replace harness.

INTELLIGENT KEY BATTERY AND FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY BATTERY AND FUNCTION

Description

INFOID:0000000012592102

The following functions are available when having and carrying the Intelligent Key.

- Door lock/unlock
- Trunk open

Remote control entry function and panic alarm function are available when operating the remote buttons.

Component Function Check

INFOID:0000000012592103

NOTE:

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

- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

1. CHECK FUNCTION

With CONSULT

Check remote keyless entry receiver "RKE OPE COUN1" in "Data Monitor".

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating with the Intelligent Key.

Is the inspection result normal?

- YES >> Intelligent Key is OK.
- NO >> Refer to [DLK-143. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012592104

NOTE:

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

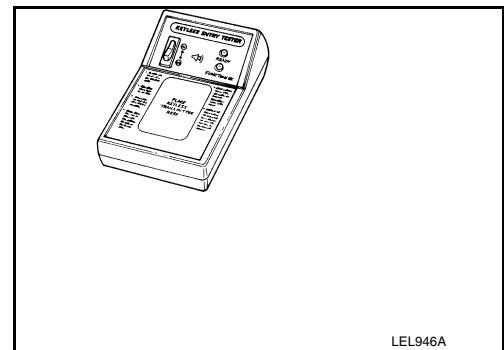
- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

1. CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function using Signal Tech II Tool [-(J-50190)] or Remote Keyless Entry Tester [-(J-43241)] (shown).

Does the test pass?

- YES >> Intelligent Key is OK.
- NO >> GO TO 2.



2. CHECK INTELLIGENT KEY COMPONENTS

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

INTELLIGENT KEY BATTERY AND FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

2. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

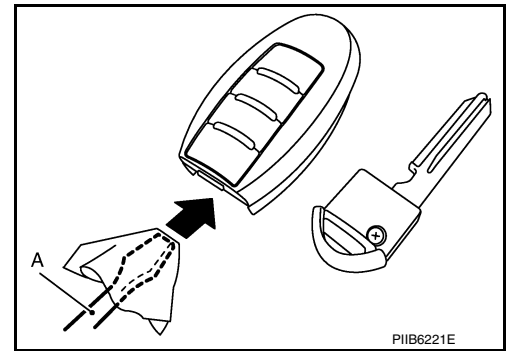
- Do not touch the circuit board or battery terminal.
- The Intelligent Key is water-resistant. However, if it does get wet, immediately wipe it dry.

3. Remove the Intelligent Key battery.

CAUTION:

- Keep dirt, grease, and other foreign materials off the electrode contact area.

4. Visually inspect Intelligent Key internal components.



Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace malfunctioning parts.

3. CHECK INTELLIGENT KEY BATTERY

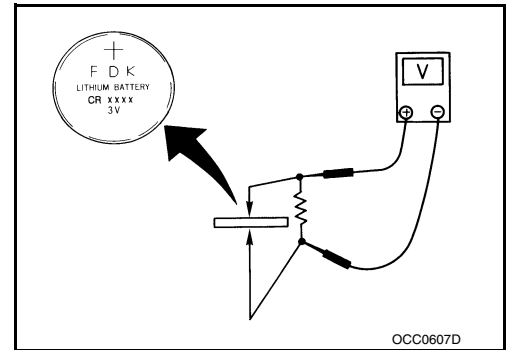
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within specification?

YES >> Intelligent Key battery is OK. Check remote keyless entry receiver. Refer to [DLK-141](#), "[Component Function Check](#)".

NO >> GO TO 4.



4. REPLACE INTELLIGENT KEY BATTERY

1. Replace the Intelligent Key battery.
2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

CAUTION:

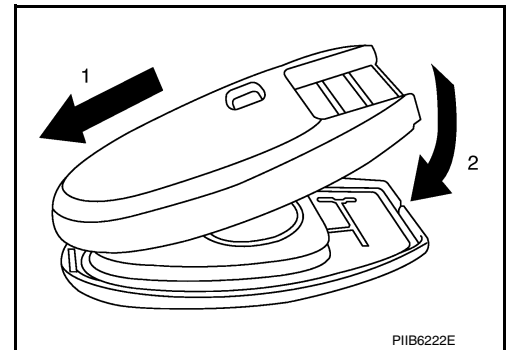
- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

3. After replacing the battery, check that all Intelligent Key functions work properly.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Check remote keyless entry receiver. Refer to [DLK-141](#), "[Component Function Check](#)".



WARNING CHIME FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME FUNCTION

Description

INFOID:000000012592105

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000012592106

1.CHECK FUNCTION

With CONSULT

1. Perform "Active Test" of "INSIDE BUZZER".
2. Touch "TAKE OUT", "KNOB" or "KEY" on screen.

Is the inspection result normal?

- YES >> Warning buzzer into combination meter is OK.
NO >> Refer to [DLK-145, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012592107

1.CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace combination meter. Refer to [MWI-83, "Removal and Installation"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

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HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Description

INFOID:000000012592108

Perform answer-back for each operation with number of blinks.

Component Function Check

INFOID:000000012592109

1.CHECK FUNCTION

Check hazard warning lamp ("FLASHER") in "Active Test".

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to [DLK-146, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012592110

1.CHECK HAZARD SWITCH CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace hazard warning switch circuit. Refer to [EXL-80, "Work Flow"](#) (Halogen type headlamp) or [EXL-213, "Work Flow"](#) (LED type headlamp).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> Inspection End.

HOMELINK UNIVERSAL TRANSCEIVER

< DTC/CIRCUIT DIAGNOSIS >

HOMELINK UNIVERSAL TRANSCEIVER

Description

INFOID:0000000012592111

Homelink® universal transceiver can store and transmit a maximum of 3 radio signals. Allows operation of garage doors, gates, home and office lighting, entry door locks and security system, etc. Homelink® universal transceiver power supply uses vehicle battery, which enables it to maintain every program in case battery is discharged or removed.

Component Function Check

INFOID:0000000012592112

1.CHECK FUNCTION

Check that system receiver (garage door opener, etc.) operates with original hand-held transmitter.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Receiver or hand-held transmitter is malfunctioning.

2.CHECK ILLUMINATE

1. Turn ignition switch "OFF".
2. Press each of the transmitter buttons and watch for the red light to illuminate with each button.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Refer to [DLK-147. "Diagnosis Procedure"](#).

3.CHECK TRANSMITTER

Check transmitter with Tool*.

*:For details, refer to Technical Service Bulletin.

Is the inspection result normal?

- YES >> Receiver or hand-held transmitter malfunction, not vehicle related.
NO >> Replace auto anti-dazzling inside mirror (homelink® universal transceiver). Refer to [MIR-18. "Removal and Installation"](#).

Diagnosis Procedure

INFOID:0000000012592113

Regarding Wiring Diagram information, refer to [DLK-49. "Wiring Diagram"](#).

1.CHECK POWER SUPPLY

1. Disconnect auto anti-dazzling inside mirror (homelink® universal transceiver) connector.
2. Check voltage between auto anti-dazzling inside mirror (homelink® universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (Homelink® universal transceiver) connector	Terminal	Condition	Voltage (V) (Approx.)
R4	10	Ground	Ignition switch position: LOCK Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Check the following.
- 10A fuse [No. 1 located in the fuse block (J/B)]
 - Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink® universal transceiver).

2.CHECK GROUND CIRCUIT

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HOMELINK UNIVERSAL TRANSCEIVER

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between auto anti-dazzling inside mirror (homelink® universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (Homelink® universal transceiver) connector	Terminal	Ground	Continuity
R4	8		Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> Inspection End.

INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Diagnosis Procedure

INFOID:0000000013316789

NOTE:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

SYMPTOM TABLE 1 (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)	Symptom
1	OK	OK	No start	No start	SEC-137
2	OK	NG	OK	OK	DLK-150
3	OK	NG	No crank, No start	OK	DLK-152
4	NG	NG	No crank, No start	OK	DLK-154
5	NG	NG	No start	No start	DLK-155
6	OK	OK	No crank, No start	OK	SEC-138
7	NG	OK	OK	OK	DLK-157
8	NG	NG	OK	OK	DLK-158
9	Poor range	OK	OK	OK	DLK-159

SYMPTOM TABLE 2 (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)	Symptom
1	NG	OK	OK	OK	DLK-161
2	NG	NG	No crank, No start	OK	DLK-162
3	NG	NG	No crank, No start	No crank, No start	DLK-164
4	OK	OK	No crank, No start	No crank, No start	SEC-140
5	OK	NG	No crank, No start	OK	SEC-141
6	Poor range	OK	OK	OK	DLK-166

DLK

ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

Description

INFOID:000000013316790

All doors do not lock/unlock using front door request switch or trunk lid does not open using trunk lid opener request switch.

NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
OK	NG	OK	OK

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- "LOCK/UNLOCK BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.
- Registered Intelligent Key is within the detection area of outside key antenna.

DIAGNOSIS PROCEDURE

Refer to [DLK-150, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316791

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.
Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. PERFORM SELF-DIAGNOSIS RESULT

Select "Self Diagnostic Result" mode of "BCM", and check if DTC is detected.

Is DTC detected?

- YES >> Perform the trouble diagnosis for detected DTC.
- NO >> GO TO 3.

3. CHECK OUTSIDE KEY ANTENNA

Use SIGNAL TECH II to check each outside key antenna. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

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

4. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key outside signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace the malfunctioning outside key antenna. Refer to [DLK-218, "DRIVER SIDE : Removal and Installation"](#) (Drive side), [DLK-218, "PASSENGER SIDE : Removal and Installation"](#) (Passenger side) and [DLK-218, "DRIVER SIDE : Removal and Installation"](#) (Rear bumper).

5. CHECK DOOR REQUEST SWITCH

ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

Check each door request switch.

- Front door: Refer to [DLK-126, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-195, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

6.REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

Description

INFOID:000000013316792

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
OK	NG	No crank, No start	OK

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- "LOCK/UNLOCK BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.
- "ENGINE START BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.

DIAGNOSIS PROCEDURE

Refer to [DLK-152, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316793

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA AND INSIDE KEY ANTENNA

Use SIGNAL TECH II to check each outside key antenna and inside key antenna. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

4. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/ PUSH SW) (ALL KEYS)

< SYMPTOM DIAGNOSIS >

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)

Description

INFOID:000000013316794

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch, Intelligent Key, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	OK

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

"ENGINE START BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.

DIAGNOSIS PROCEDURE

Refer to [DLK-154, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316795

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. PERFORM SELF-DIAGNOSIS RESULT

Select "Self Diagnostic Result" mode of "BCM", and check if DTC "B26FF" is detected.

Is DTC "B26FF" detected?

YES >> Perform the trouble diagnosis for detected DTC.

NO >> GO TO 3.

3. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-143, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-222, "Removal and Installation"](#).

4. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-141, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-221, "Removal and Installation"](#).

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

Description

INFOID:000000013316796

Intelligent Key system all functions cannot operate (door lock and engine start).

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No start	No start

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

“ENGINE START BY I-KEY” setting in “Work support” mode of “INTELLIGENT KEY” of “BCM” is ON.

DIAGNOSIS PROCEDURE

Refer to [DLK-155. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316797

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149. "Diagnosis Procedure"](#).

>> GO TO 2.

2.CHECK INTELLIGENT KEY-1

For both Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

- Check if the Intelligent Key that is checked is the Intelligent Key for a different NISSAN/INFINITI vehicle that the user owns.
- Check that the Intelligent Key buttons match the vehicle specifications.

Does the Intelligent Key belong to the vehicle to be checked?

YES >> GO TO 3.

NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

3.CHECK INTELLIGENT KEY-2

Check the inside of the both Intelligent Keys for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

4.REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5.REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

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DLK

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

6.REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

2. Check the operation after replacement.

Is the inspection result normal?

YES >> Inspection End

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:000000013316798

All doors do not lock/unlock using Intelligent Key button.

NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	OK	OK	OK

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

Registered Intelligent Key is within the detection area of remote keyless entry receiver.

DIAGNOSIS PROCEDURE

Refer to [DLK-157. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316799

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149. "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key output signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-81. "Removal and Installation"](#).
- NO >> Replace Intelligent Key.

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

Description

INFOID:000000013316800

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch or Intelligent Key button.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	OK	OK

DIAGNOSIS PROCEDURE

Refer to [DLK-158, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316801

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock using door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to [DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH].

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

Description

INFOID:000000013316802

Intelligent Key button operation has poor range.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
Poor range	OK	OK	OK

DIAGNOSIS PROCEDURE

Refer to [DLK-159, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316803

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 3.

NO >> Replace Intelligent Key battery. Refer to [DLK-222, "Removal and Installation"](#).

3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to [DLK-143, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to [DLK-222, "Removal and Installation"](#).

4. PERFORM SELF-DIAGNOSIS RESULT-1

Select "Self Diagnostic Result" mode of "BCM", and check if DTC "B26FF" is detected.

Is DTC "B26FF" detected?

YES >> Perform the trouble diagnosis for detected DTC.

NO >> GO TO 5.

5. REMOTE AFTERMARKET DEVICE

1. If the vehicle is equipped with any interference-generating aftermarket device such as a vehicle security system, charger and remote engine starter etc., remove them.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

6. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-96, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 7.

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DLK

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

Description

INFOID:000000013316804

All doors do not lock/unlock using Intelligent Key button. (One Intelligent Key has the symptom, other keys operate normally.)

NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	OK	OK	OK

DIAGNOSIS PROCEDURE

Refer to [DLK-161, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316805

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key output signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

3. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

4. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DLK

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

Description

INFOID:000000013316806

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch, Intelligent Key, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key. (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	OK

DIAGNOSIS PROCEDURE

Refer to [DLK-162. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316807

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149. "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK INTELLIGENT KEY

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage. Squeeze, twist or bend the Intelligent Key and check the functionality again. Is the Intelligent Key operating normally?

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to [DLK-222. "Removal and Installation"](#).

4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

Description

INFOID:000000013316808

Intelligent Key system all functions cannot operate (door lock and engine start). (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	No crank, No start

DIAGNOSIS PROCEDURE

Refer to [DLK-164, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316809

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK INTELLIGENT KEY-1

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to be checked?

YES >> GO TO 3.

NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

3. CHECK INTELLIGENT KEY-2

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.

2. Check the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

< SYMPTOM DIAGNOSIS >

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-81, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DLK

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

Description

INFOID:000000013316810

Intelligent Key button operation has poor range. (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
Poor range	OK	OK	OK

DIAGNOSIS PROCEDURE

Refer to [DLK-166, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000013316811

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-149, "Diagnosis Procedure"](#).

>> GO TO 2.

2. CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> Replace Intelligent Key battery. Refer to [DLK-222, "Removal and Installation"](#).

NO >> GO TO 3.

3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> Replace Intelligent Key and register new Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-222, "Removal and Installation"](#).

HOOD

< REMOVAL AND INSTALLATION >

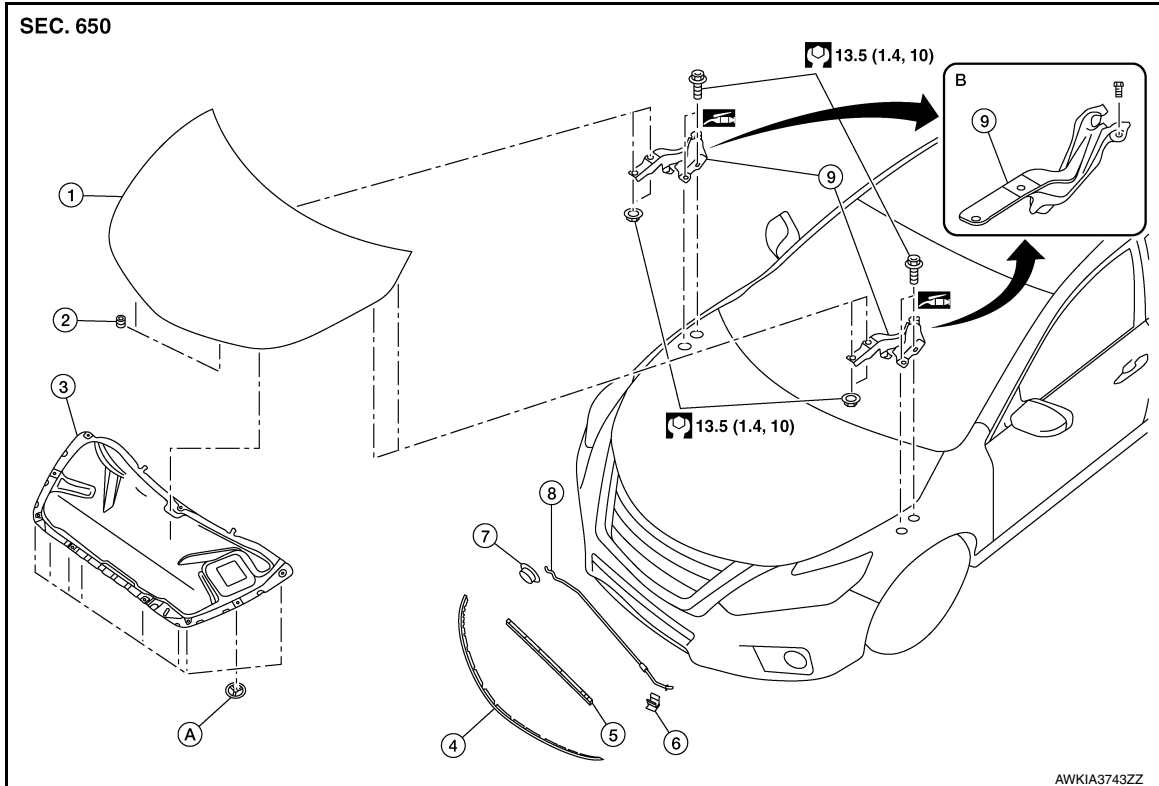
REMOVAL AND INSTALLATION


HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000012592129



- | | | |
|-----------------------------|-------------------------|--|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Hood insulator |
| 4. Hood seal front | 5. Hood seal | 6. Hood support rod clamp |
| 7. Hood support rod grommet | 8. Hood support rod | 9. Hood hinge |
| A. Clip | B. RH shown; LH similar |  Grease |

HOOD ASSEMBLY : Removal and Installation

INFOID:000000012592130

CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support the hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

2. Disconnect front washer nozzle and tube.

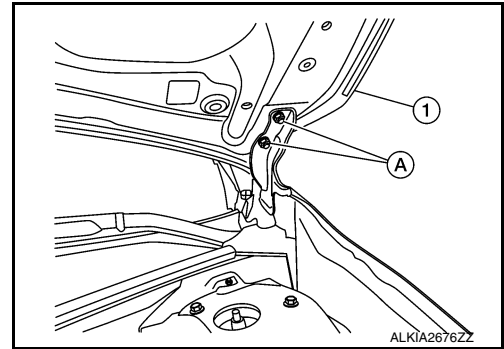
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HOOD

< REMOVAL AND INSTALLATION >

3. Remove hood hinge to hood nuts (A) and then remove the hood assembly (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten hood hinge to hood nuts to specified torque.

Hood hinge nuts **13.5 N·m (1.4 kg-m, 10 ft-lb)**

CAUTION:

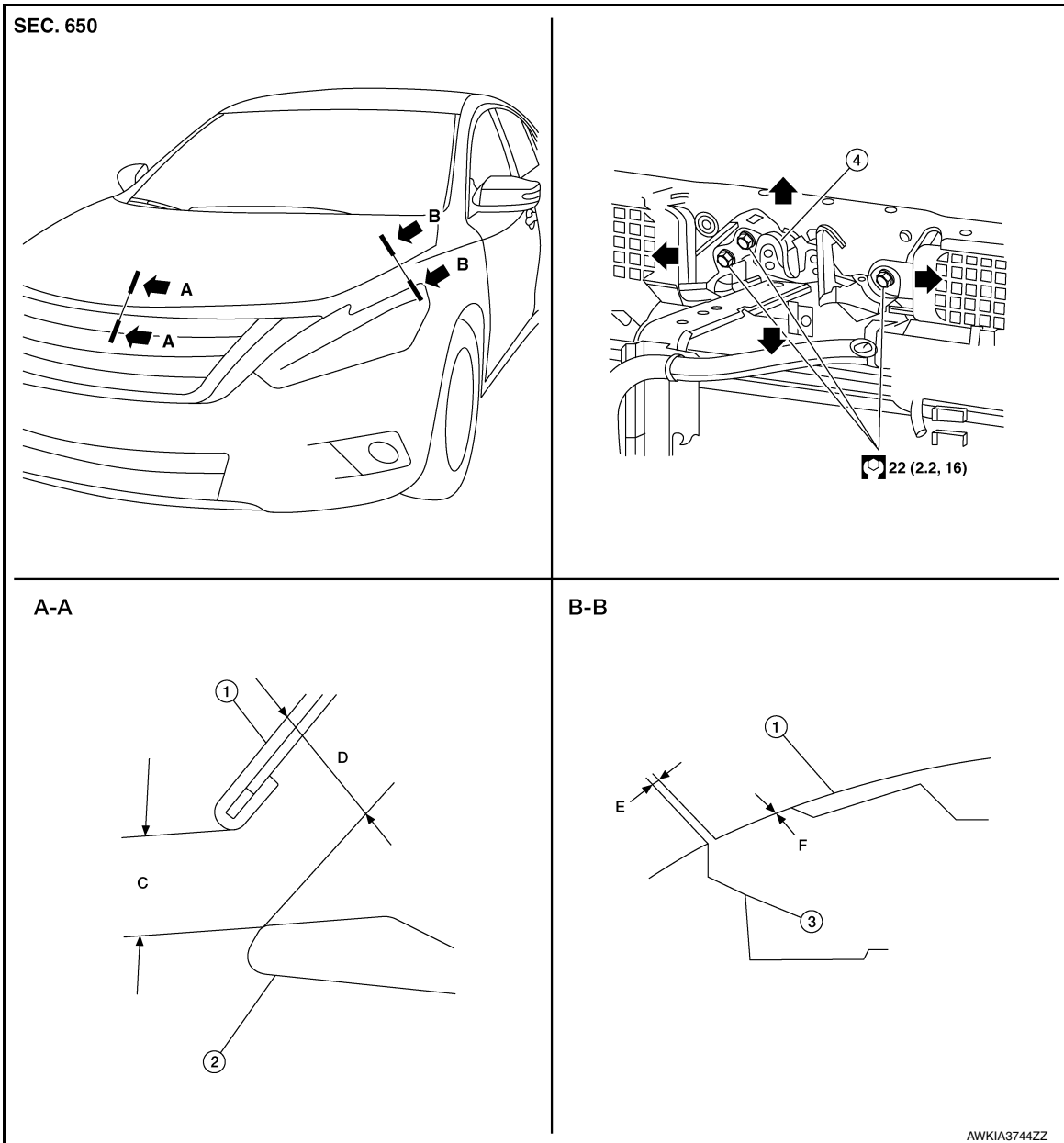
- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-169, "HOOD ASSEMBLY : Adjustment"](#).

HOOD

< REMOVAL AND INSTALLATION >

HOOD ASSEMBLY : Adjustment

INFOID:000000012592131



- 1. Hood assembly
- 2. Grille
- 3. Front fender (LH)
- 4. Hood lock assembly

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A - A	C	Clearance	0.0 ± 2.1 (0.00 \pm 0.08)	<2.0 (0.08)	—
	D	Surface height	—	—	—
B - B	E	Clearance	3.5 ± 1.0 (0.14 \pm 0.04)	≤ 1.5 (0.06)	< 2.0 (0.08)
	F	Surface height	0.0 ± 1.0 (0.00 \pm 0.04)	—	< 1.5 (0.06)

CLEARANCE ADJUSTMENT

- Remove the hoodledge finishers (LH/RH).

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HOOD

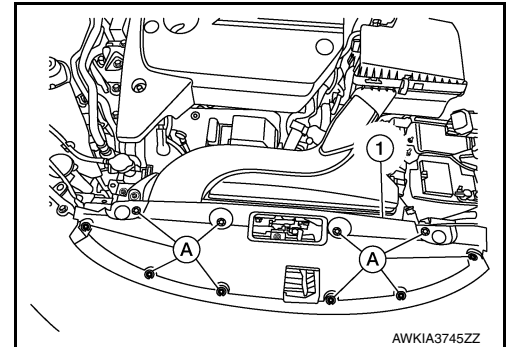
< REMOVAL AND INSTALLATION >

2. Remove cowl top side trim covers (LH/RH). Refer to [EXT-34, "Removal and Installation"](#).
3. Loosen hood hinge (LH/RH) nuts and bolts.

NOTE:

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

4. Release the radiator core support upper cover clips (A), then remove radiator core support upper cover (1).



5. Loosen the hood lock assembly bolts.
6. Adjust the hood assembly so the clearance measurements are within specifications provided.
7. Tighten the hood hinge nuts and bolts to specified torque.

Hood hinge nuts 13.5 N·m (1.4 kg-m, 10 ft-lb)

Hood hinge to body bolts 13.5 N·m (1.4 kg-m, 10 ft-lb)

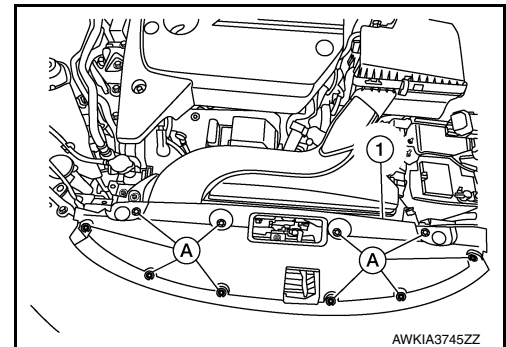
8. Tighten the hood lock assembly bolts to specified torque.

Hood lock assembly bolts 22 N·m (2.2 kg-m, 16 ft-lb)

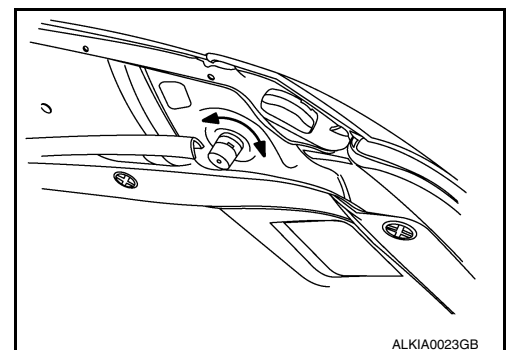
9. Install the radiator core support upper cover.
10. Install the hoodledge finishers.
11. Install cowl top side trim covers. Refer to [EXT-34, "Removal and Installation"](#).

HEIGHT ADJUSTMENT

1. Release the radiator core support upper cover clips (A), then remove radiator core support upper cover (1).



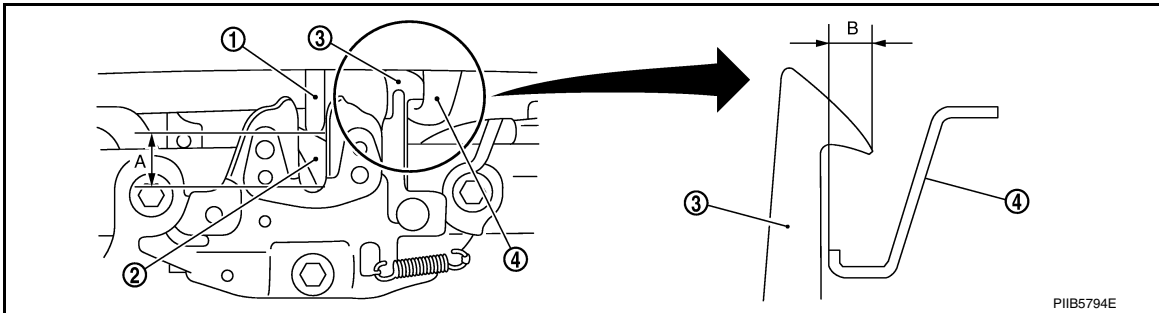
2. Loosen the hood lock assembly bolts.
3. Adjust the surface height of hood assembly to front bumper fascia and front fender according to the specified values by rotating hood bumper rubbers (LH/RH).



HOOD

< REMOVAL AND INSTALLATION >

- Temporarily tighten hood lock assembly bolts.
- Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.87 in) height or by pressing hood lightly [approximately 29 N-f (3.0 kg-f, 6.5 lb-f)].



- | | | |
|--------------------|---------------------------------------|----------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary striker |
| 4. Secondary latch | A. 20 ± 1 mm (0.8 ± 0.04 in) | B. 6.8 mm (0.27 in) |

- After adjustment, tighten hood hinge nuts and bolts to the specified torque.

CAUTION:

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) onto the head of hood hinge bolts and nuts.

- Tighten the hood lock assembly bolts to specified torque.

Hood lock assembly bolts 22 N·m (2.2 kg-m, 16 ft-lb)

- Install the radiator core support upper cover.
- If the clearance measurements between the hood and fender cannot be corrected by adjusting the hood, the fender must be adjusted. Refer to [DLK-179. "Adjustment"](#).

HOOD HINGE

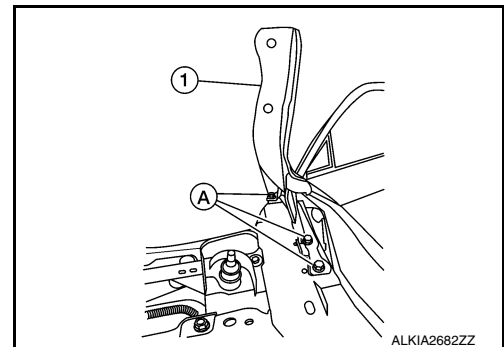
HOOD HINGE : Removal and Installation

INFOID:000000012592132

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REMOVAL

- Remove hood assembly. Refer to [DLK-167. "HOOD ASSEMBLY : Removal and Installation"](#).
- Remove hood hinge bolts (A), and then remove hood hinge (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten hood hinge bolts to specified torque.

Hood hinge bolts 13.5 N·m (1.4 kg-m, 10 ft-lb)

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.

HOOD

< REMOVAL AND INSTALLATION >

- After installation, perform hood assembly adjustment procedure. Refer to [DLK-169, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000012592133

REMOVAL

1. Support hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.

2. Rotate and remove hood support rod from grommet.
3. Release tab and remove grommet from hood assembly (if necessary).

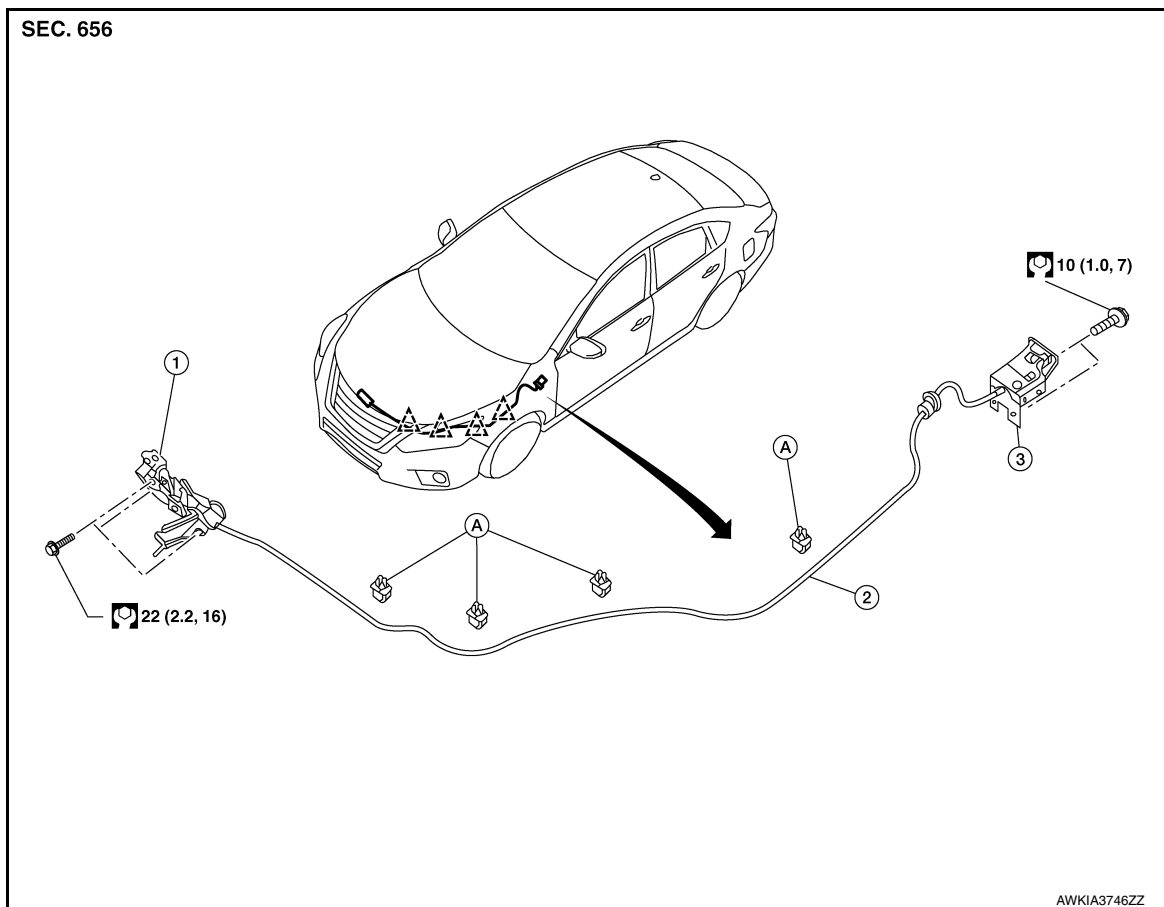
INSTALLATION

Installation is in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Component Parts Location

INFOID:000000012592134



1. Hood lock assembly
 2. Hood lock release cable
 3. Hood lock/fuel filler door release handle assembly
- A. Hood lock release cable clip
- △ Clip

HOOD

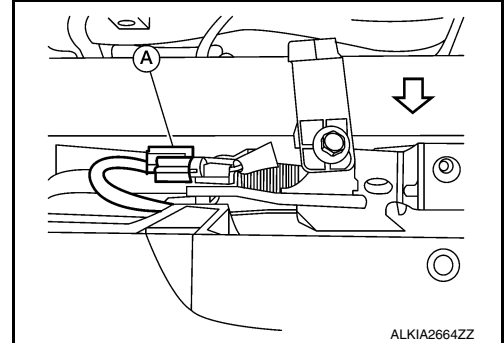
< REMOVAL AND INSTALLATION >

HOOD LOCK CONTROL : Removal and Installation

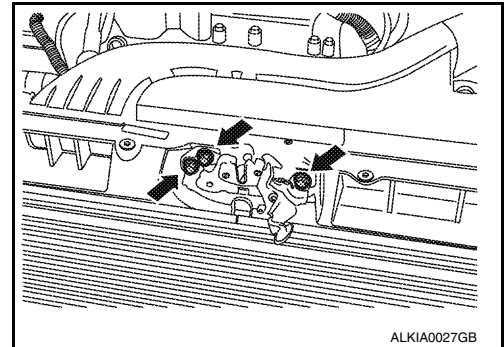
INFOID:000000012592135

REMOVAL

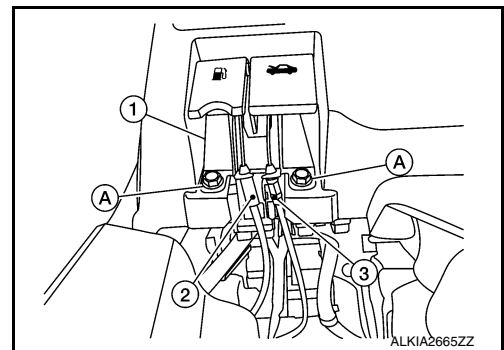
1. Release the radiator core support upper cover clips, then remove the radiator core support upper cover.
2. Remove the hoodedge finisher clips (LH), then remove the hoodedge finisher (LH).
3. Disconnect the hood switch harness connector (A) (if equipped).
↔: Front



4. Remove the hood lock assembly bolts (↔).



5. Disconnect the hood lock release cable from the hood lock assembly and unclip from the hoodedge.
6. Remove the fender protector (LH). Refer to [EXT-36. "FENDER PROTECTOR : Removal and Installation"](#).
7. Remove the bolts (A), then separate the hood lock/fuel filler door release handle assembly (1) from the hood lock release cable (3) and fuel filler door release cable (2).



8. Remove the grommet from the upper dash assembly and pull the hood lock release cable into the passenger compartment.

CAUTION:

While pulling, be careful not to damage (peel) the outside of the hood lock release cable.

INSTALLATION

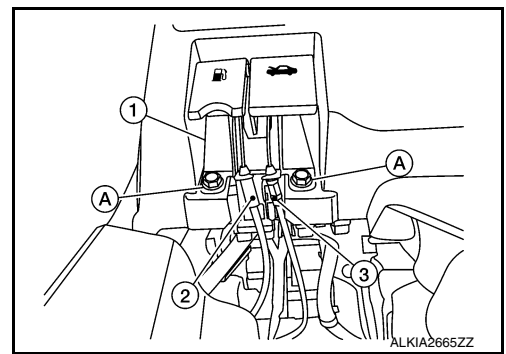
1. Pull the hood lock release cable through the upper dash assembly into the engine compartment.
CAUTION:
Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.

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HOOD

< REMOVAL AND INSTALLATION >

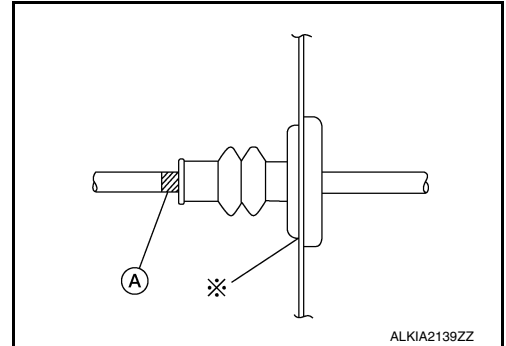
2. Attach the hood lock release cable (3) and the fuel filler door release cable (2) to the hood lock/fuel filler door release handle assembly (1).
3. Place hood lock/fuel filler door release handle assembly in position and retain with bolts (A).



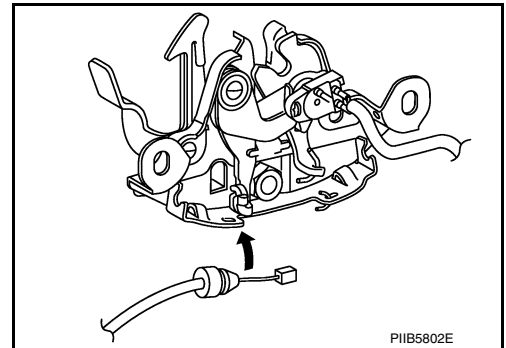
4. Check that the cable is not offset from the center of the grommet and seat the grommet into the upper dash hole.

NOTE:

Make sure that the marked area (A) of the cable is located as shown after mounting grommet to dash upper assembly. Apply sealant around the grommet at * mark.



5. Position the hood lock release cable and clip it into place.
6. Install the hoodedge finisher (LH) and retain with clips.
7. Connect the hood lock release cable to the hood lock assembly.



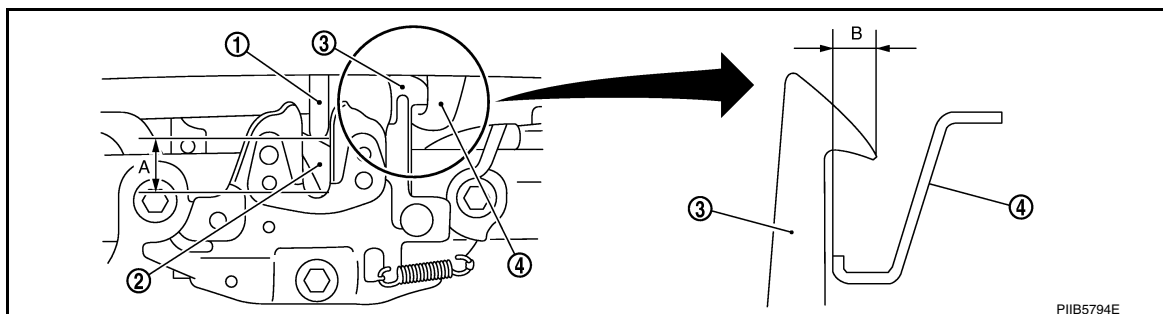
8. Install the fender protector (LH). Refer to [EXT-36, "FENDER PROTECTOR : Removal and Installation"](#).
9. Perform hood fitting adjustment. Refer to [DLK-169, "HOOD ASSEMBLY : Adjustment"](#).
10. Perform the hood lock control inspection.

INSPECTION

NOTE:

If the hood lock release cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker and meets specification provided (B) with hood's own weight.

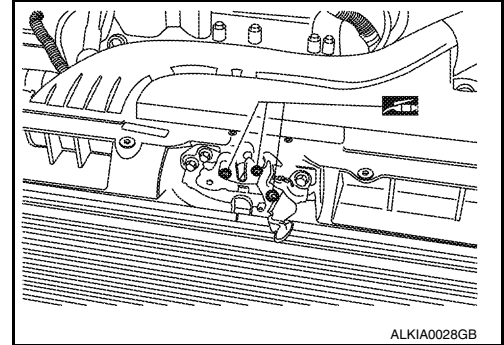


HOOD

< REMOVAL AND INSTALLATION >

- | | | |
|--------------------|---------------------------------------|----------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary striker |
| 4. Secondary latch | A. 21 ± 1 mm (0.8 ± 0.04 in) | B. 6.8 mm (0.27 in) |

2. While operating the hood lock release handle, carefully check that the front end of the hood assembly is raised and meets the specification provided (A). Also check that the hood lock release handle returns to the original position.
3. Check that the hood lock release handle operating force is 49 N (5.0 kg-f, 11 lb-f) or less.
4. Install so the static closing force of the hood assembly is 254 – 490 N (25.9 – 50 kg-f, 57.1 - 110.2 lb-f).
5. Check the hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease as shown.



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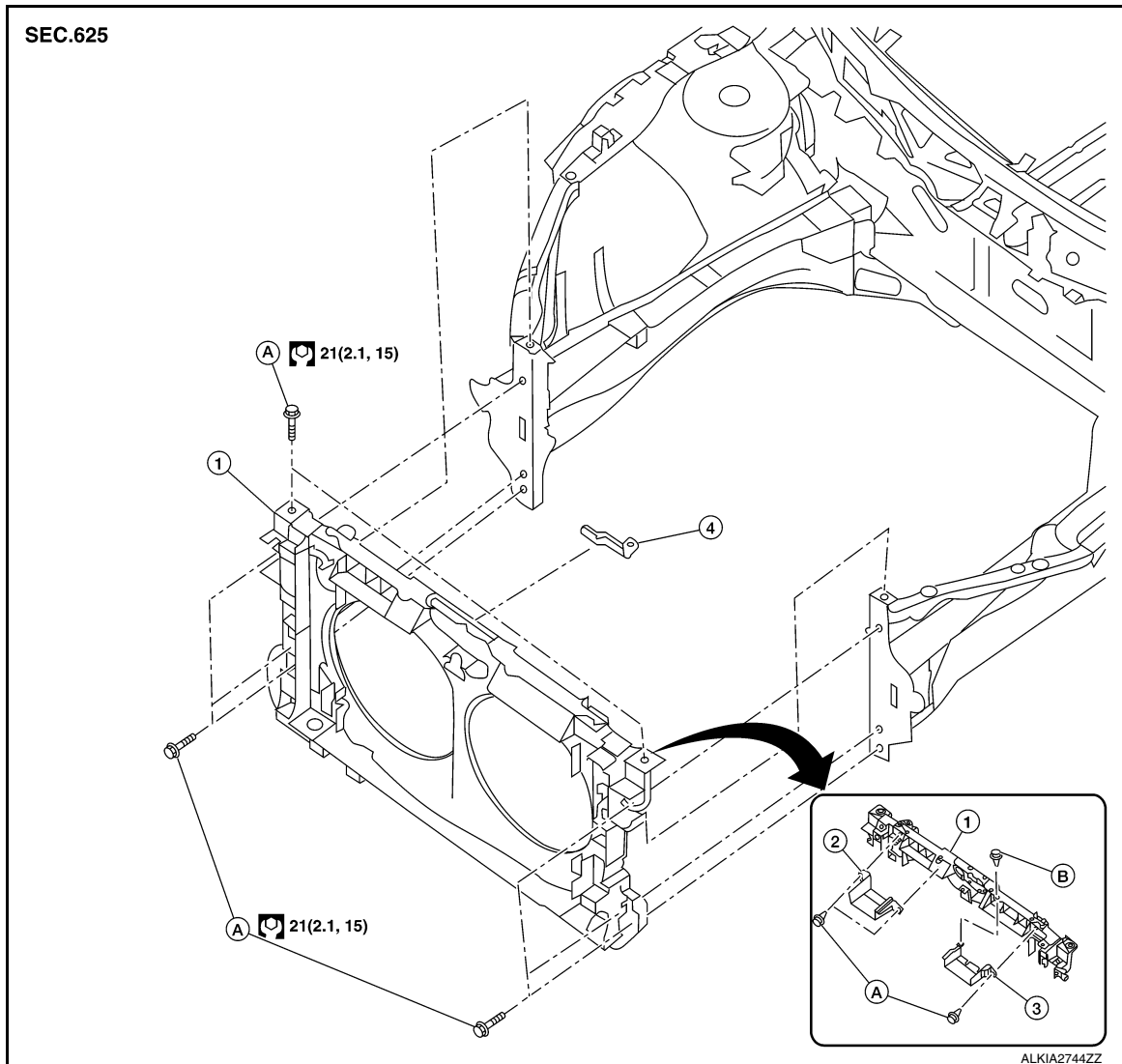
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

RADIATOR CORE SUPPORT

Removal and Installation

INFOID:000000012592136



- | | | |
|--------------------------|----------------------------|----------------------------|
| 1. Radiator core support | 2. Air guide (QR25DE only) | 3. Air guide (VQ35DE only) |
| 4. Hood switch bracket | A. Bolt | B. Clips |

CAUTION:

Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

REMOVAL

1. Remove crash zone sensor. Refer to [SR-22. "Removal and Installation"](#).
2. Remove radiator. Refer to [CO-13. "Removal and Installation"](#) (QR25DE) or [CO-37. "Removal and Installation"](#) (VQ35DE).
3. Remove the hood lock. Refer to [DLK-173. "HOOD LOCK CONTROL : Removal and Installation"](#).
4. Remove air guides (LH/RH).
5. Remove and disconnect all remaining harness connectors and clips from the radiator core support assembly, and position aside.
6. Remove the bolts and the radiator core support assembly.
7. Remove the following parts after removing radiator core support assembly.
 - Cooling fan. Refer to [CO-17. "Exploded View"](#) (QR25DE) or [CO-39. "Exploded View"](#) (VQ35DE).

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

- Hood switch bracket (if equipped).

INSTALLATION

Installation is in the reverse order of removal.

Radiator core support bolts **21 N·m (2.1 kg-m, 15 ft-lb)**

CAUTION:

After installing, perform hood fitting adjustment. Refer to [DLK-169, "HOOD ASSEMBLY : Adjustment"](#).

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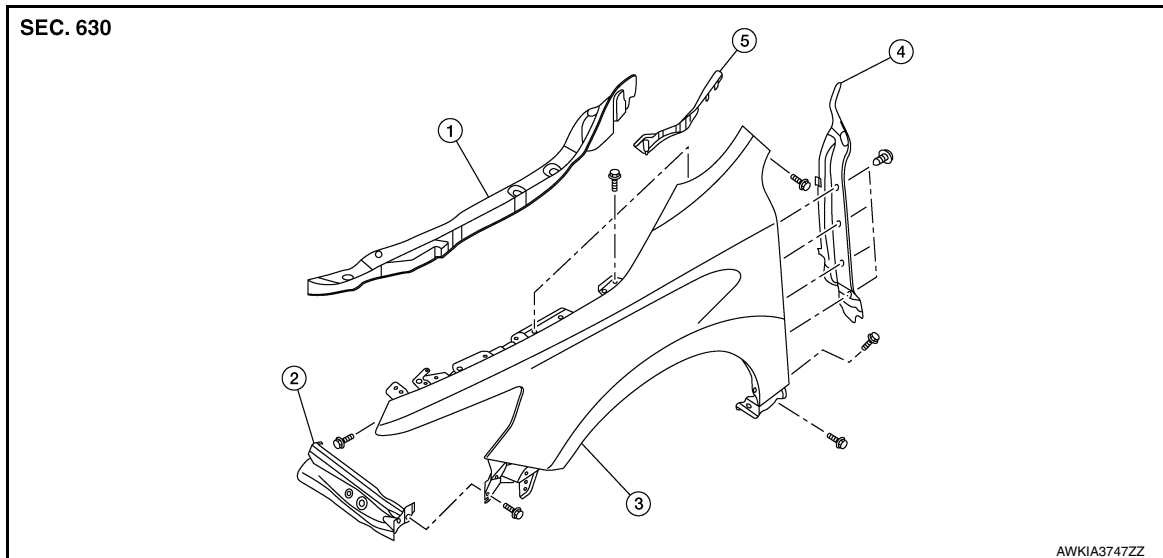
FRONT FENDER

< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

INFOID:000000012592137



- | | | |
|------------------------|------------------------|-----------------|
| 1. Hoodedge finisher | 2. Front fender stay | 3. Front fender |
| 4. Front fender baffle | 5. Cowl top side cover | |

Removal and Installation

INFOID:000000012592138

REMOVAL

1. Remove fender protector. Refer to [EXT-36, "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove the front combination lamp. Refer to [EXL-254, "Removal and Installation"](#) (LED) or [EXL-117, "Removal and Installation"](#) (Halogen).
3. Remove the cowl top side trim cover. Refer to [EXT-34, "Removal and Installation"](#).
4. Remove mudguard. Refer to [EXT-40, "Removal and Installation"](#).
5. Remove the bolts and the front fender.

CAUTION:

Use a shop cloths to protect the body from being damaged during removal and installation.

6. Remove front fender baffle.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

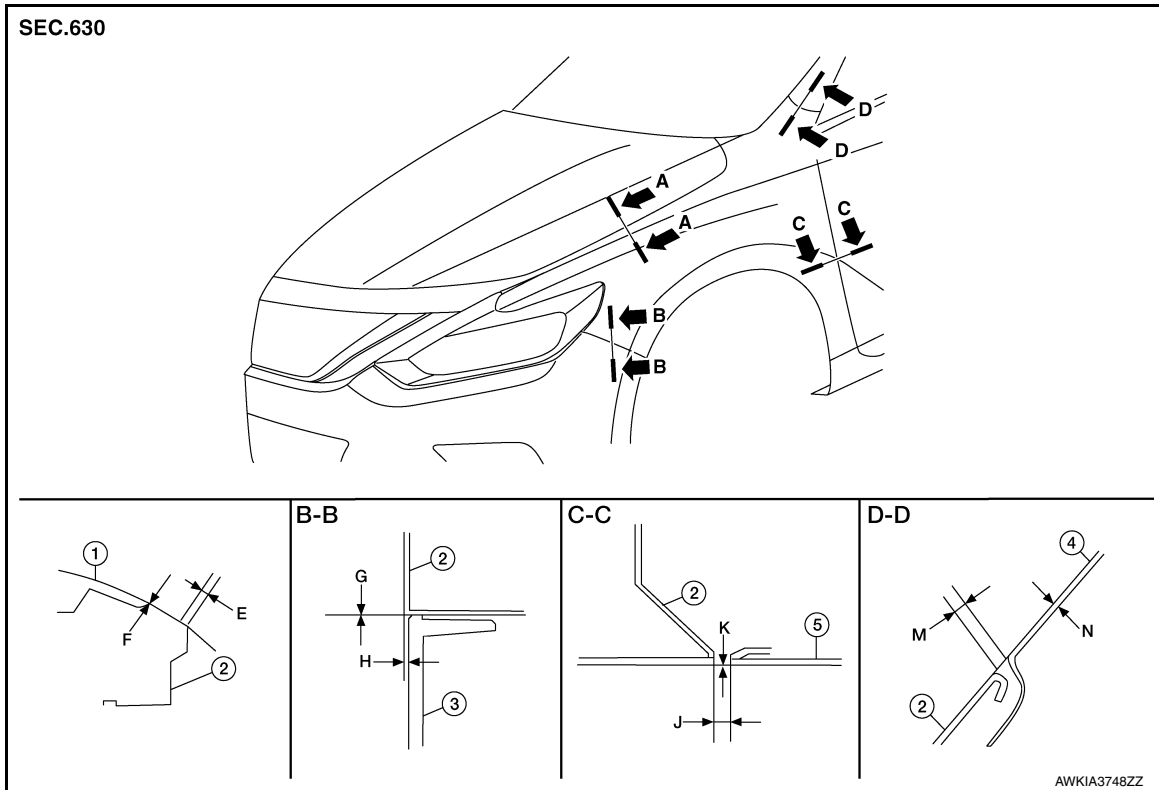
After installation, perform fender adjustment procedure. Refer to [DLK-179, "Adjustment"](#).

FRONT FENDER

< REMOVAL AND INSTALLATION >

Adjustment

INFOID:000000012592139



- 1. Hood assembly
- 2. Front fender
- 3. Front fascia
- 4. Body side outer
- 5. Front door assembly

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A - A	E	Clearance	$3.5 \pm 1 (0.14 \pm 0.04)$	$< 1.5 (0.06)$	$< 2.0 (0.08)$
	F	Surface height	$0.0 + 1 (0.0 + 0.04)$	—	$< 1.5 (0.06)$
B - B	G	Clearance	$0.3 + 0.7, - 0.0 (0.01 + 0.03, - 0.0)$	—	—
	H	Surface height	$0.7 \pm 1.0 (0.03 \pm 0.04)$	$\leq 1.0 (0.04)$	—
C - C	J	Clearance	$3.6 \pm 1.0 (0.14 \pm 0.04)$	—	—
	K	Surface height	$0.0 \pm 1.0 (0.0 \pm 0.04)$	—	—
D - D	M	Clearance	$2.35 \pm 1.0 (0.09 \pm 0.04)$	$\leq 1.0 (0.04)$	—
	N	Surface height	$- 0.05 \pm 1.0 (0.0 \pm 0.04)$	—	—

Adjustment

1. Remove hoodledge finisher.
2. Remove the cowl top side trim cover. Refer to [EXT-34, "Removal and Installation"](#).
3. Remove front fascia. Refer to [EXT-25, "Removal and Installation"](#).
4. Remove the front fender protector. Refer to [EXT-36, "FENDER PROTECTOR : Removal and Installation"](#).
5. Remove the mudguard. Refer to [EXT-40, "Removal and Installation"](#).
6. Loosen the front fender bolts.
7. Adjust the clearance (J) and surface height (K) between the front fender and the front door.
8. Tighten the rear upper and lower front fender bolts.

FRONT FENDER

< REMOVAL AND INSTALLATION >

9. Adjust the clearance (E) and surface height (F) between the front fender and the hood.
10. Adjust the clearance (M) and surface height (N) between the front fender and the body side outer.
11. Tighten the inner front fender bolts.
12. Adjust the clearance (G) and the surface height (H) between the front fender and the front fascia.
13. Tighten the front fender to front fascia and bracket screws.
14. Install front fascia.
15. Install the center mudguard. Refer to [EXT-40, "Removal and Installation"](#).
16. Install the front fender protector. Refer to [EXT-36, "FENDER PROTECTOR : Removal and Installation"](#).
17. Install the cowl top side trim cover.
18. Install hoodledge finisher.

CAUTION:

- If the clearance measurements cannot be corrected by adjusting the fender, adjust the following as necessary.
 - Hood assembly: Refer to [DLK-169, "HOOD ASSEMBLY : Adjustment"](#).
 - Front door: Refer to [DLK-183, "DOOR ASSEMBLY : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) onto the head of the front fender bolts.

FRONT DOOR

< REMOVAL AND INSTALLATION >

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

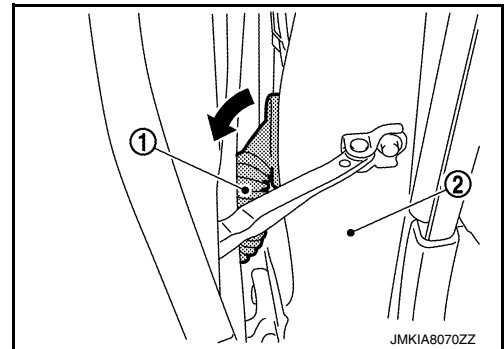
INFOID:000000012592140

CAUTION:

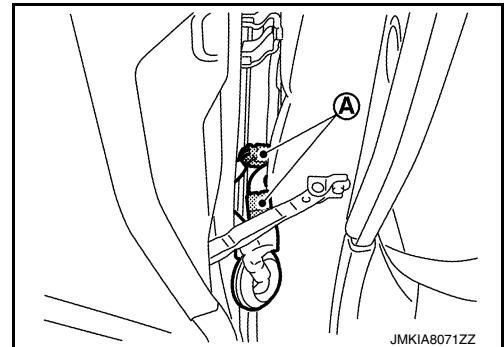
- Use two people when removing or installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.
- Do not use air tools or electric tools for servicing.
- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

REMOVAL

1. Disconnect the battery negative and positive terminals and wait at least three minutes with the side air bag (satellite) sensor (if equipped).
2. Remove front door harness grommet (LH) (1) then pull out door harness from body (2).



3. Disconnect the harness connectors (A) from the front door harness.



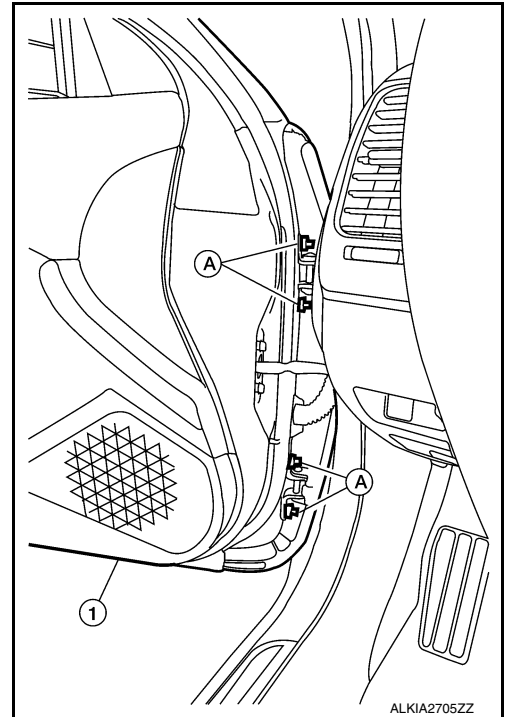
4. Remove the check link bolt (body side).

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FRONT DOOR

< REMOVAL AND INSTALLATION >

5. Remove front door hinge nuts (A) (door side) and the front door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten door hinge nuts to specified torque.

Front door hinge nuts **24.5 N·m (2.5 kg-m, 18 ft-lb)**

CAUTION:

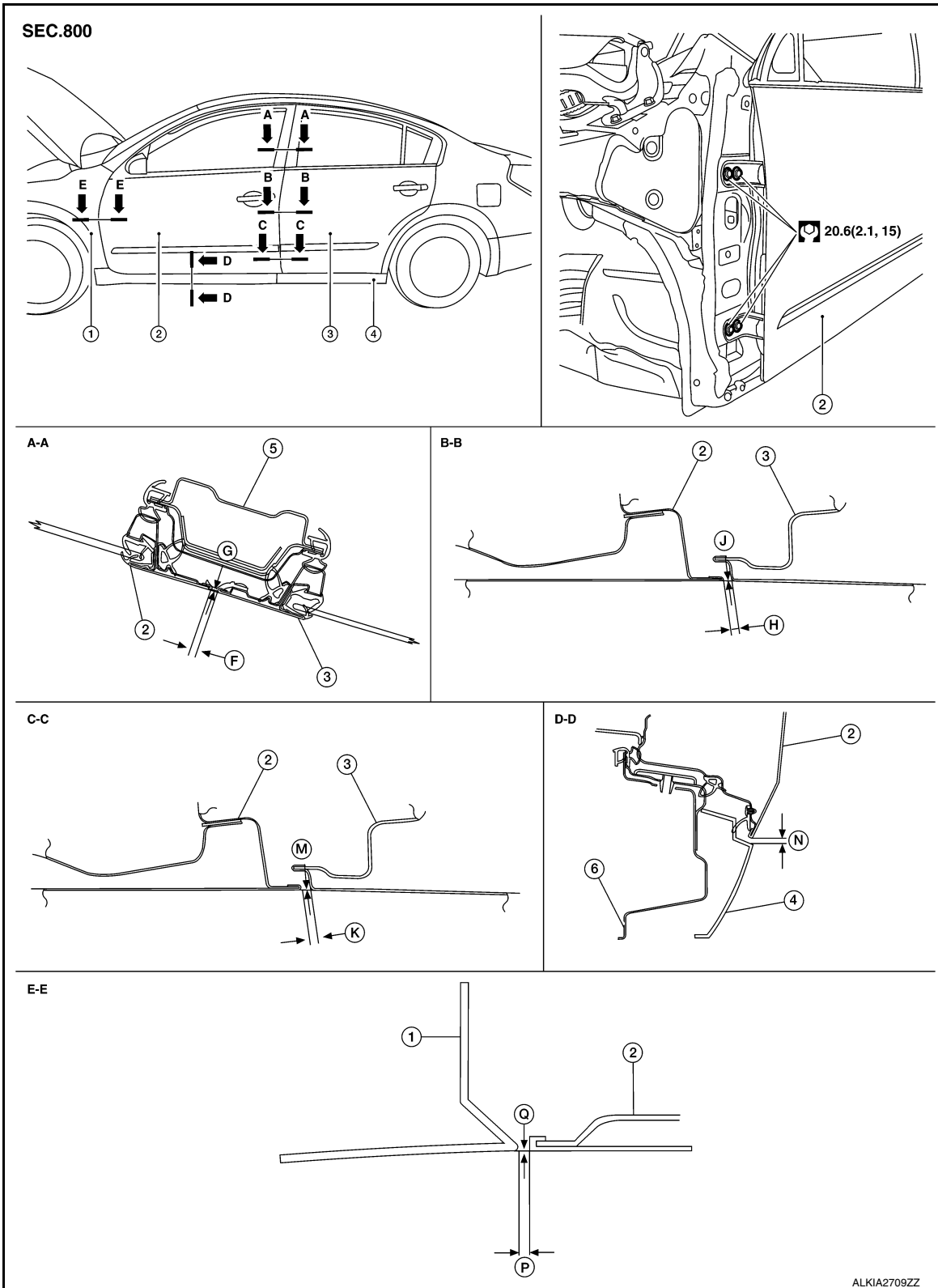
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-183, "DOOR ASSEMBLY : Adjustment"](#).

FRONT DOOR

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

INFOID:000000012592141



- | | | |
|--------------------|------------------------|-----------------------|
| 1. Front fender | 2. Front door assembly | 3. Rear door assembly |
| 4. Center mudguard | 5. Center pillar | 6. Outer sill |

Check the clearance and surface height between front door and each part by visual inspection and tactile feel.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	F	Clearance	4.5 ± 1.5 (0.18 ± 0.06)
	G	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B – B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C – C	K	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	M	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
D – D	N	Clearance	7.4 ± 1.7 (0.29 ± 0.07)
E – E	P	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
	Q	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Remove the front fender. Refer to [DLK-178, "Removal and Installation"](#).
2. Loosen the front door hinge to body bolts. Move the door forward or backward as necessary until within specifications provided.
3. Tighten the hinge to body bolts to specified torque.

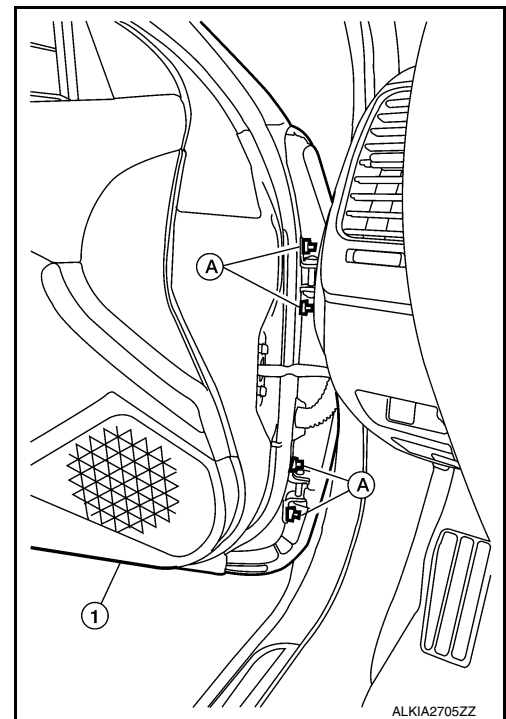
Front door hinge bolts 20.6 N·m (2.5 kg-m, 18 ft-lb)

4. Install the front fender. Refer to [DLK-178, "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the front door hinge nuts (A).
2. Move the top and/or bottom of the door (1) in or out as necessary until it is within specifications provided.
3. Tighten the front door hinge nuts to specified torque.

Front door hinge nuts 24.5 N·m (2.5 kg-m, 18 ft-lb)



CAUTION:

- Check front door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- If the clearance measurements cannot be corrected by adjusting the front door, adjust the following as necessary.
 - Front fender: Refer to [DLK-179, "Adjustment"](#).
 - Rear door: Refer to [DLK-188, "DOOR ASSEMBLY : Adjustment"](#).

FRONT DOOR

< REMOVAL AND INSTALLATION >

DOOR STRIKER ADJUSTMENT

Adjust front door striker so that it becomes parallel with door lock insertion direction.

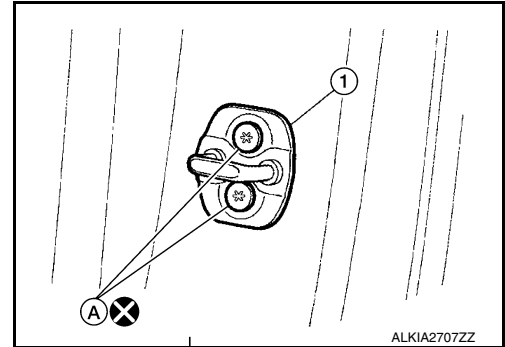
DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000012592142

REMOVAL

Remove striker bolts (A) and front door striker (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten front door striker bolts to specified torque.

Front door striker bolts **16.7 N·m (1.7 kg-m, 12 ft-lb)**

CAUTION:

- Do not reuse striker bolts.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-183, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000012592143

DLK

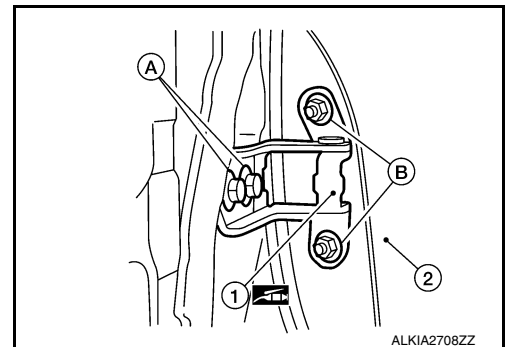
CAUTION:

- Use two people when removing and installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support door using a suitable tool.

REMOVAL

1. Remove front door assembly. Refer to [DLK-181, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove door hinge bolts (B) and hinge (1).

 Grease



INSTALLATION

Installation is in the reverse order of removal.
Tighten front door hinge bolts to specified torque.

Front door hinge bolts **20.6 N·m (2.5 kg-m, 18 ft-lb)**

FRONT DOOR

< REMOVAL AND INSTALLATION >

CAUTION:

- Apply anticorrosive agent onto the front door hinge mating surface.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-183. "DOOR ASSEMBLY : Adjustment"](#).

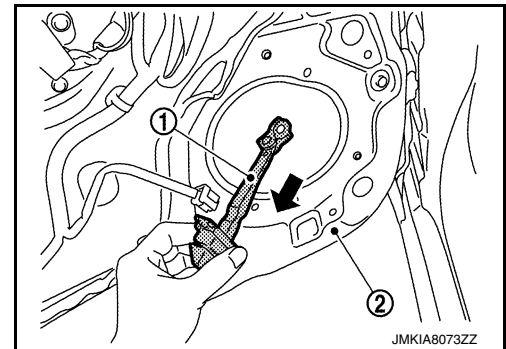
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000012592144

REMOVAL

1. Fully close the front door glass.
2. Remove front door speaker. Refer to [AV-48. "Removal and Installation"](#).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).



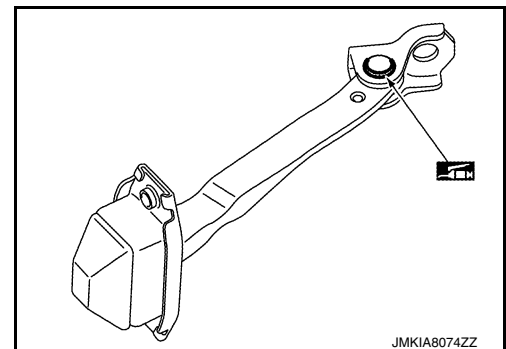
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check front door open/close, lock/unlock operation.
- Check front door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

: Grease



REAR DOOR

< REMOVAL AND INSTALLATION >

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

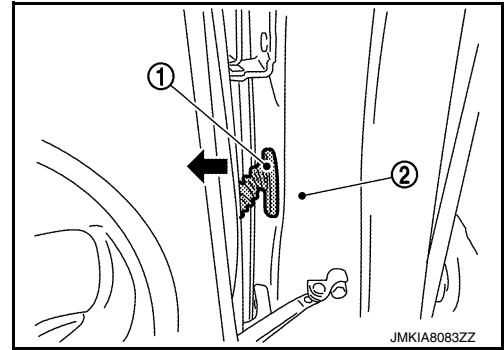
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CAUTION:

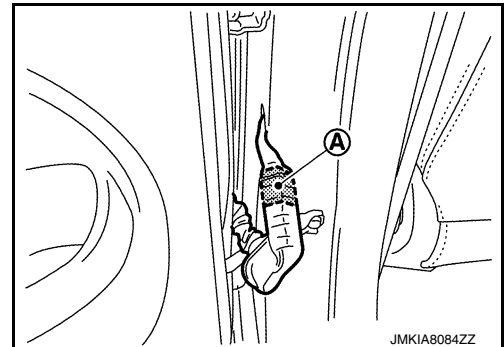
- Use two people when removing or installing the rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support rear door with a suitable tool.

REMOVAL

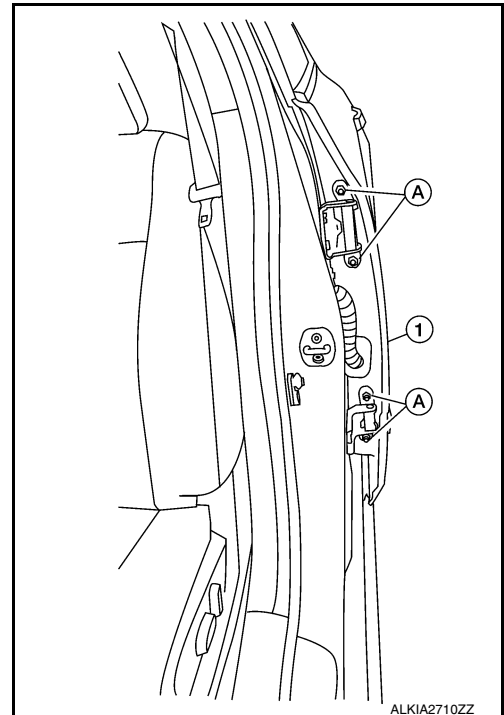
1. Remove rear door harness grommet (LH) (1) then pull out door harness from body (2).



2. Disconnect the harness connector (A) from the door harness.



3. Remove the check link bolt from the body.
4. Remove rear door hinge nuts (A) (door side) and the door assembly (1).



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REAR DOOR

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

Tighten rear door hinge nuts (door side) to specified torque.

Rear door hinge nuts **24.5 N·m (2.5 kg-m, 18 ft-lb)**

CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-188, "DOOR ASSEMBLY : Adjustment"](#).

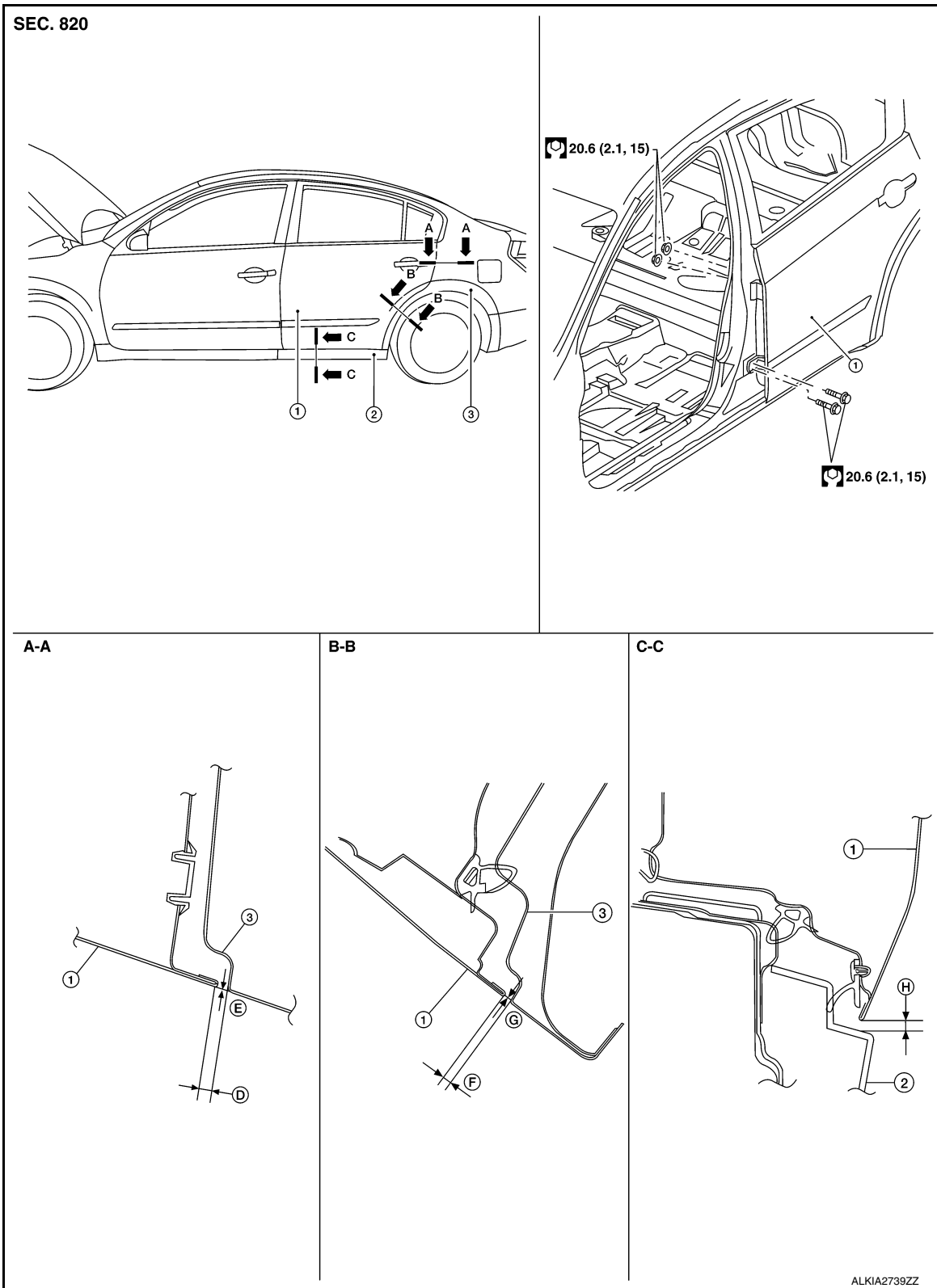
DOOR ASSEMBLY : Adjustment

INFOID:0000000012592146

ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >



1. Rear door assembly

2. Center mudguard

3. Body side outer

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

REAR DOOR

< REMOVAL AND INSTALLATION >

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	D	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
	E	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
B – B	F	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
	G	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C – C	H	Clearance	7.1 ± 1.7 (0.28 ± 0.07)

LONGITUDINAL CLEARANCE

1. Remove the center pillar upper finisher. Refer to [INT-24, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
2. Loosen the rear door upper hinge nuts.
3. Loosen the rear door lower hinge bolts.
4. Move the rear door forward or backward as necessary until within specifications provided.
5. Tighten the lower hinge bolts to specification.

Rear door lower hinge bolts **20.6 N·m (2.1 kg-m, 15 ft-lb)**

6. Tighten the upper hinge nuts to specification.

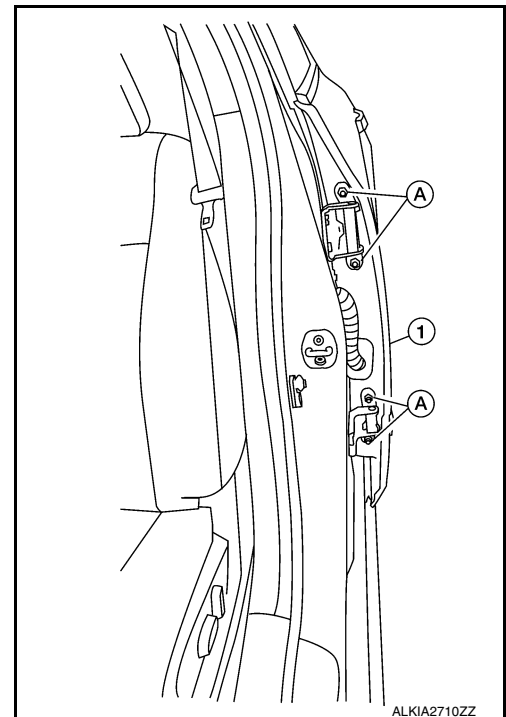
Rear door upper hinge nuts **20.6 N·m (2.1 kg-m, 15 ft-lb)**

7. Install the center pillar upper finisher. Refer to [INT-24, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the rear door hinge nuts (door side) (A).
2. Move the top and/or the bottom of the rear door (1) in or out as necessary until it is within specifications provided.
3. Tighten the rear door hinge nuts (door side) (A) to specification.

Rear door nuts **24.5 N·m (2.5 kg-m, 18 ft-lb)**



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CAUTION:

- Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.

REAR DOOR

< REMOVAL AND INSTALLATION >

- If the clearance measurements cannot be corrected by adjusting the rear door, adjust the front door. Refer to [DLK-183, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust rear door striker so that it becomes parallel with door lock insertion direction.

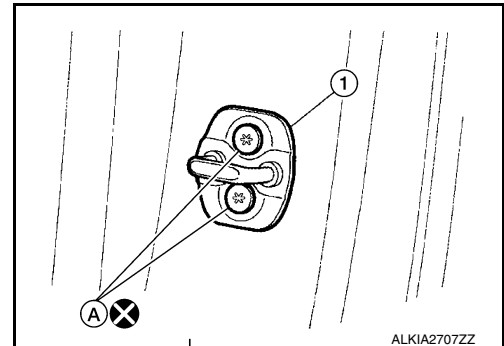
DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000012592147

REMOVAL

Remove bolts (A) and rear door striker (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten rear door striker bolts to specified torque.

Rear door striker bolts **16.7 N·m (1.7 kg-m, 12 ft-lb)**

CAUTION:

- Do not reuse striker bolts.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-188, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

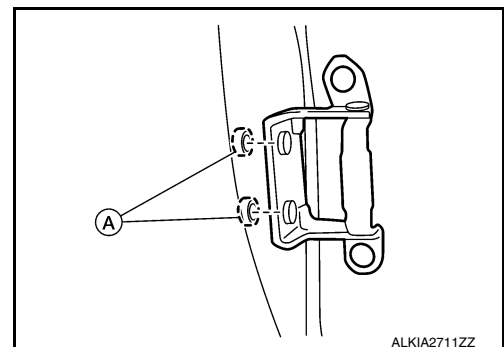
INFOID:000000012592148

CAUTION:

- Use two people when removing or installing rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support door using a suitable tool.

REMOVAL

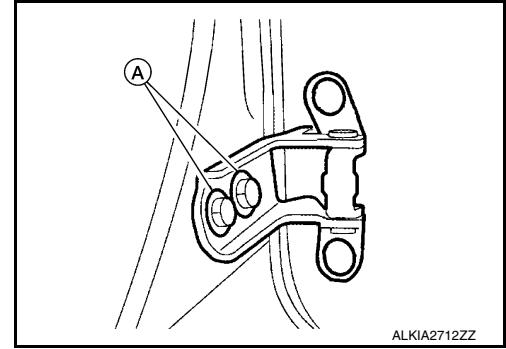
1. Remove rear door assembly. Refer to [DLK-187, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar upper finisher (upper hinge only). Refer to [INT-24, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
3. Remove rear door upper hinge nuts (A) and upper hinge.



REAR DOOR

< REMOVAL AND INSTALLATION >

4. Remove rear door lower hinge bolts (A) and lower hinge.



INSTALLATION

Installation is in the reverse order of removal.
Tighten rear door hinge nuts and bolts to specified torque.

Rear door hinge nuts and bolts **20.6 N·m (2.1 kg-m, 15 ft-lb)**

CAUTION:

- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-188, "DOOR ASSEMBLY : Adjustment"](#).

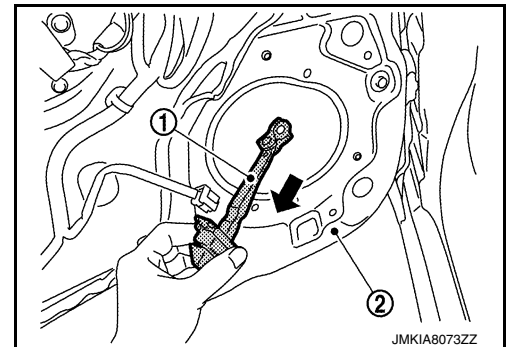
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000012592149

REMOVAL

1. Fully close the rear door glass.
2. Remove rear door finisher (w/o rear door speaker) or rear door speaker. Refer to [INT-18, "Removal and Installation"](#) (w/o rear door speaker), [AV-48, "Removal and Installation"](#) (BASE AUDIO), [AV-198, "Removal and Installation"](#) (DISPLAY AUDIO WITH BOSE), [AV-111, "Removal and Installation"](#) (DISPLAY AUDIO WITHOUT BOSE), [AV-295, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE), or [AV-413, "Removal and Installation"](#) (NAVIGATION WITH BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

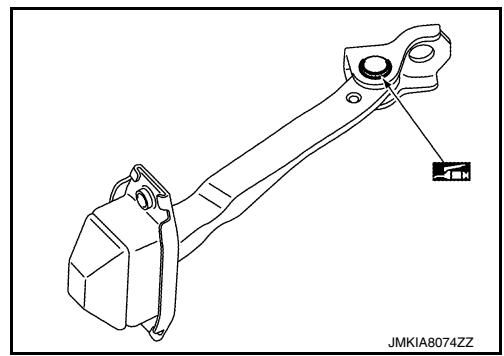
- After installation, check rear door open/close, lock/unlock operation.

REAR DOOR

< REMOVAL AND INSTALLATION >

- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

 Grease



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DOOR HANDLE

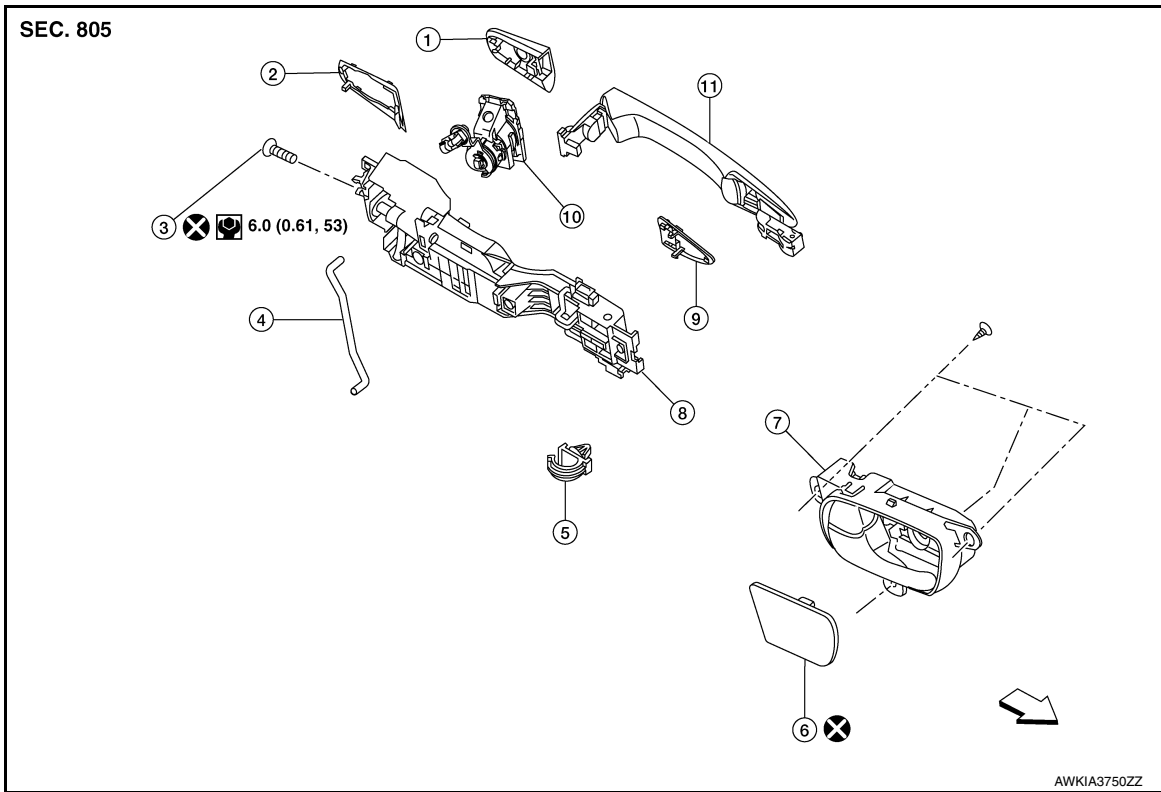
< REMOVAL AND INSTALLATION >

DOOR HANDLE

FRONT DOOR HANDLE

FRONT DOOR HANDLE : Exploded View

INFOID:000000012592150



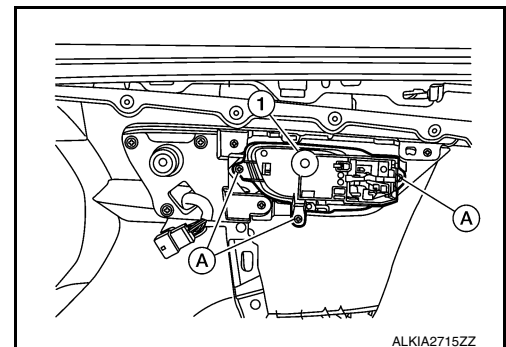
- | | | |
|---|---------------------------|----------------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. Screw |
| 4. Door key cylinder rod (driver side) | 5. Cable clip | 6. Inside door handle escutcheon |
| 7. Inside handle | 8. Outside handle bracket | 9. Front gasket |
| 10. Door key cylinder assembly (driver side only) | 11. Outside handle | ← Front |

FRONT DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000012592151

REMOVAL

1. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
2. Remove inside handle screws (A) and the inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

DOOR HANDLE

< REMOVAL AND INSTALLATION >

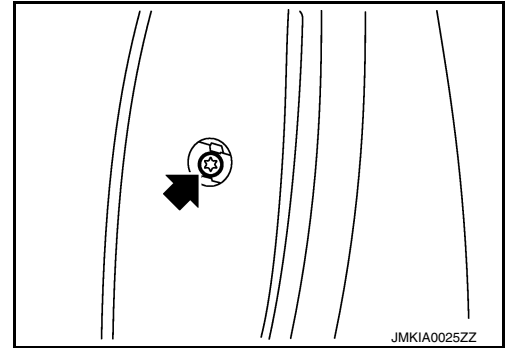
- Do not reuse inside door handle escutcheon. Replace with new part after removal.
- Check front door lock cables are properly engaged to inside handle.
- After installation, check front door open/close, lock/unlock operation.

FRONT DOOR HANDLE : Removal and Installation - Outside Handle

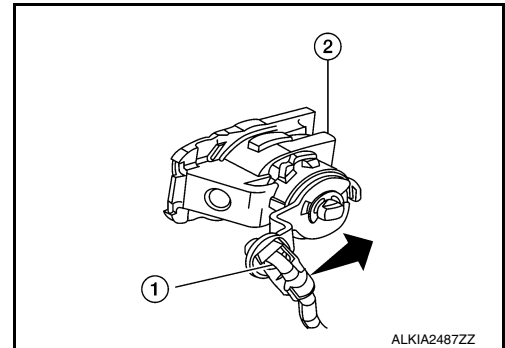
INFOID:000000012592152

REMOVAL

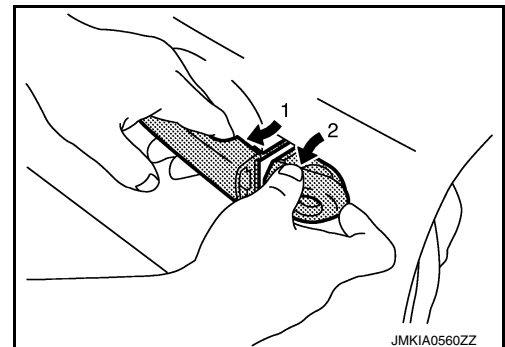
1. Fully close front door glass.
2. Remove front door finisher. Refer to [JNT-15. "Removal and Installation"](#).
3. Remove front door vapor barrier.
4. Remove front door glass channel rear.
5. Disconnect the harness connectors from the door antenna and door request switch and then remove harness clamp on outside handle bracket.
6. Remove door side grommet, and loosen screw that retains the front door outside handle bracket.



7. Reach in to separate door key cylinder rod (LH side) (1) from door key cylinder assembly (LH side).



8. While pulling outside handle (1), remove door key cylinder assembly (LH side) or outside handle escutcheon (2) (RH side).

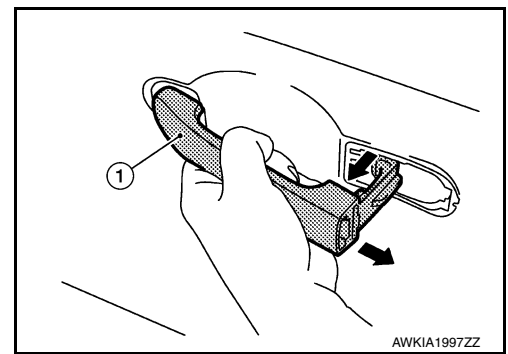


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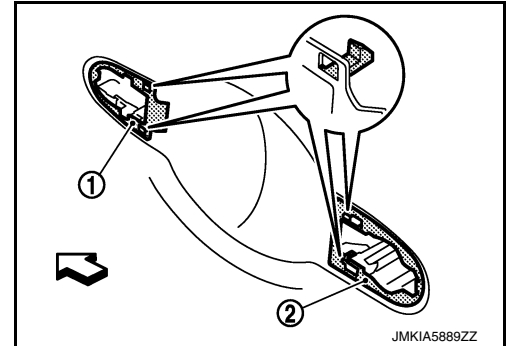
DOOR HANDLE

< REMOVAL AND INSTALLATION >

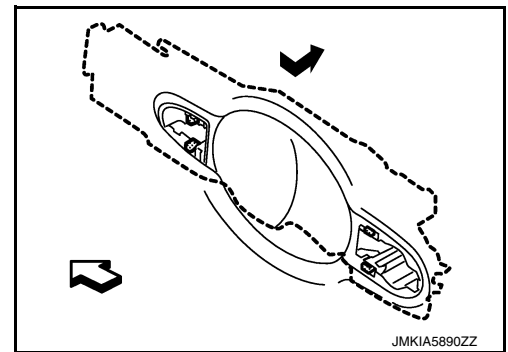
9. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



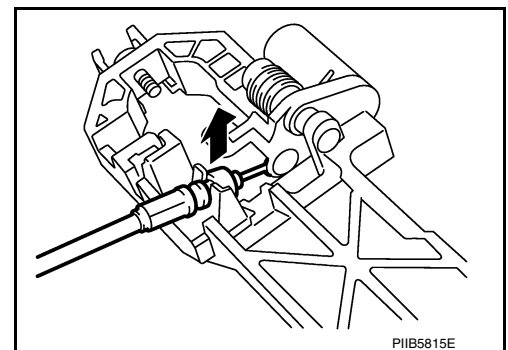
10. Remove front gasket (1) and rear gasket (2).
⇐: Front



11. Slide outside handle bracket toward rear of vehicle to remove.
⇐: Front



12. Disconnect the outside handle cable from the outside handle bracket connection.



INSTALLATION

Installation is in the reverse order of removal.

Tighten front door outside handle bracket screw to specified torque.

Front door outside handle bracket screw **6.0 N·m (0.61 kg-m, 53 in-lb)**

CAUTION:

- When installing do not reuse front door outside handle bracket screw. Always replace screw with new ones when removed.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.

DOOR HANDLE

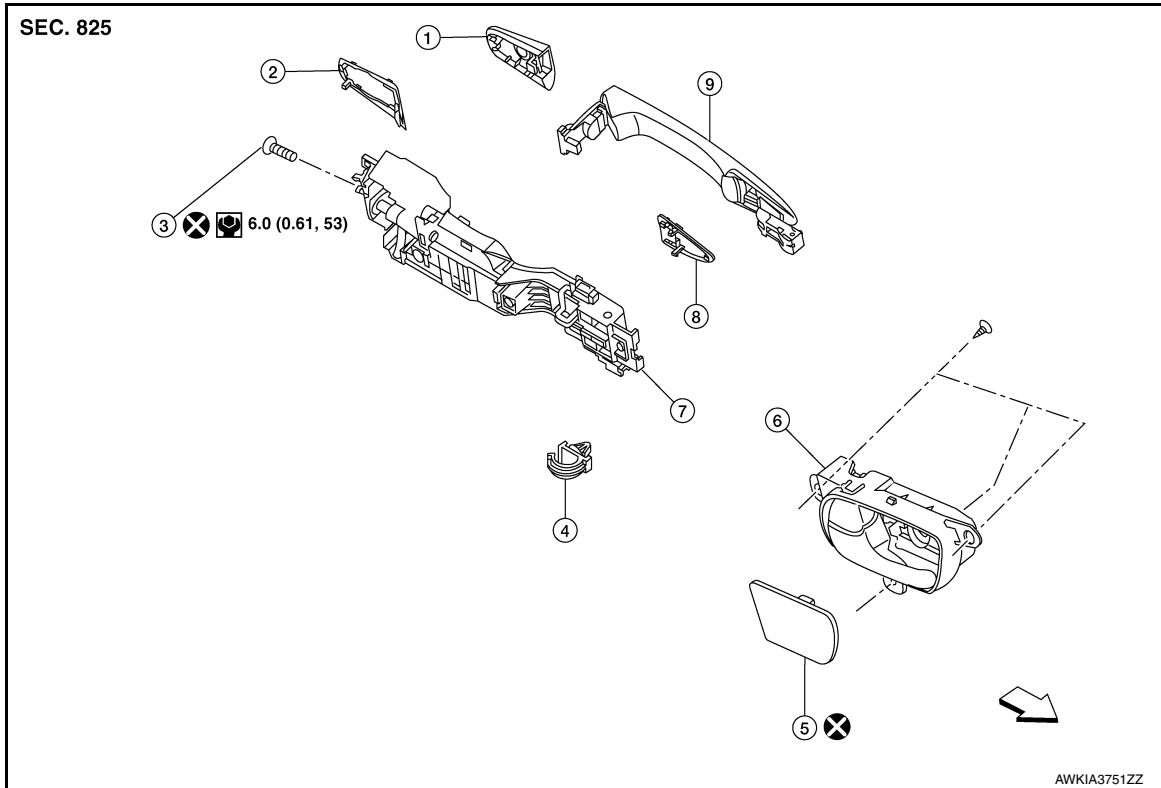
< REMOVAL AND INSTALLATION >

- Check front door lock cable is properly engaged to outside handle bracket.
- After installation, check front door open/close, lock/unlock operation.

REAR DOOR HANDLE

REAR DOOR HANDLE : Exploded View

INFOID:000000012592153



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|------------------------------|---------------------------|-------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. Screw |
| 4. Cable clip | 5. Inside handle finisher | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |
- ↩ Front

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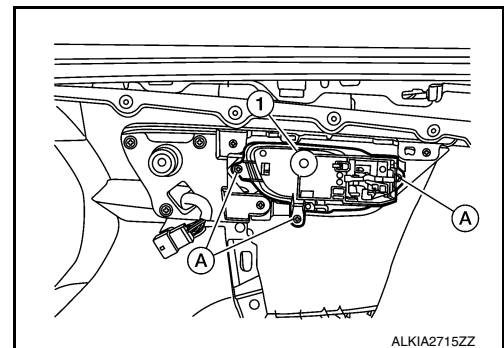
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REAR DOOR HANDLE : Removal and Installation - Inside Handle

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REMOVAL

1. Remove rear door finisher. Refer to [INT-18, "Removal and Installation"](#).
2. Remove inside handle screws (A) and inside handle (1).



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INSTALLATION

Installation is in the reverse order of removal.

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DOOR HANDLE

< REMOVAL AND INSTALLATION >

CAUTION:

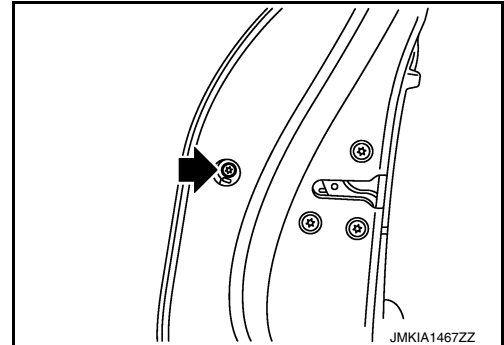
- Check rear door lock cables are properly engaged to inside handle.
- After installation, check rear door open/close, lock/unlock operation.

REAR DOOR HANDLE : Removal and Installation - Outside Handle

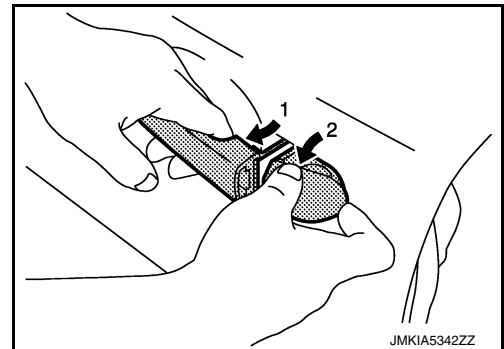
INFOID:0000000012592155

REMOVAL

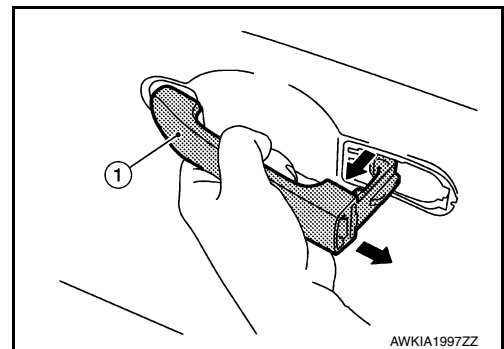
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-18. "Removal and Installation"](#).
3. Remove rear door vapor barrier.
4. Remove door side grommet, and loosen screw that retains the rear door outside handle bracket.



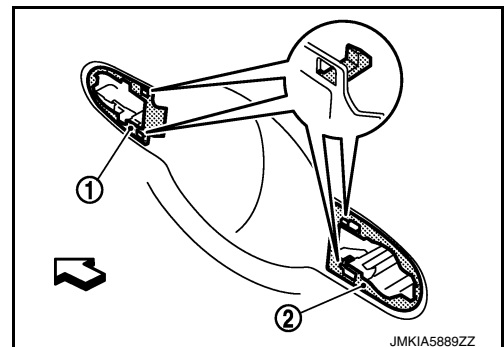
5. While pulling outside handle (1), remove outside handle escutcheon (2).



6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



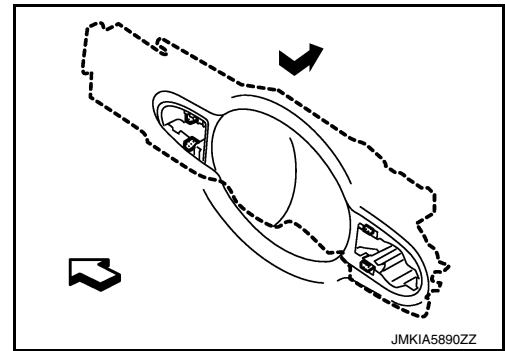
7. Remove front gasket (1) and rear gasket (2).
↔: Front



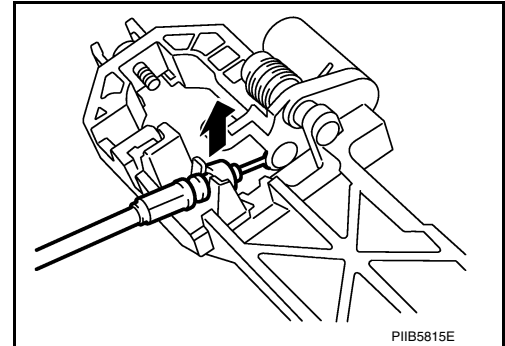
DOOR HANDLE

< REMOVAL AND INSTALLATION >

8. Slide outside handle bracket toward rear of vehicle to remove.
⇐: Front



9. Remove clip and disconnect the outside handle cable from the outside handle bracket.



INSTALLATION

Installation in the reverse order of removal.

Tighten rear door outside handle bracket screw to specified torque.

Rear door outside handle bracket screw **6.0 N·m (0.61 kg-m, 53 in-lb)**

CAUTION:

- When installing do not reuse rear door outside handle bracket screw. Always replace screw with new ones when removed.
- Check rear door lock cable is properly engaged to outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.

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DOOR LOCK

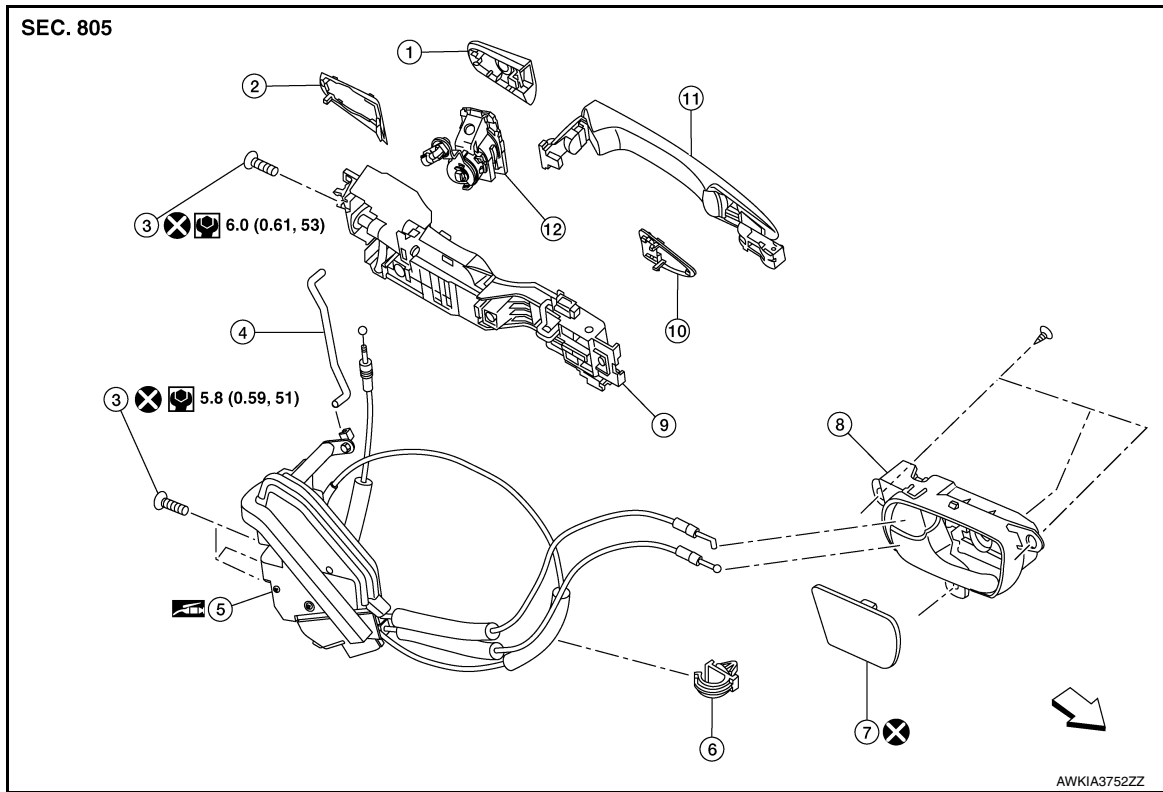
< REMOVAL AND INSTALLATION >

DOOR LOCK

FRONT DOOR LOCK

FRONT DOOR LOCK : Exploded View

INFOID:000000012592156



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|--|-----------------------------|---|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. Screw |
| 4. Door key cylinder rod (driver side) | 5. Front door lock assembly | 6. Cable clip |
| 7. Inside door handle escutcheon | 8. Inside handle | 9. Outside handle bracket |
| 10. Front gasket | 11. Outside handle | 12. Door key cylinder assembly (driver side only) |

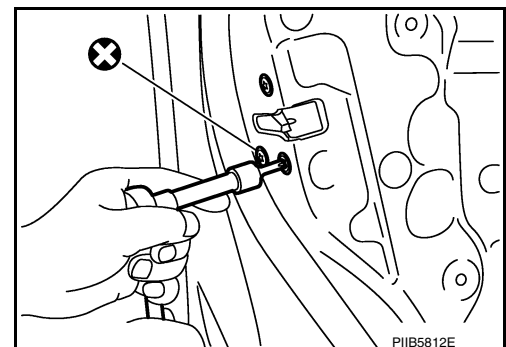
↶ Front

FRONT DOOR LOCK : Removal and Installation

INFOID:000000012592157

REMOVAL

1. Remove the front door outside handle. Refer to [DLK-195. "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Remove the rear glass run.
3. Disconnect the harness connector from the front door lock actuator.
4. Remove screws, and the door lock assembly.



DOOR LOCK

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

- Tighten front door lock screws to specified torque.

Front door lock screw 5.8 N·m (0.59 kg-m, 51 in-lb)

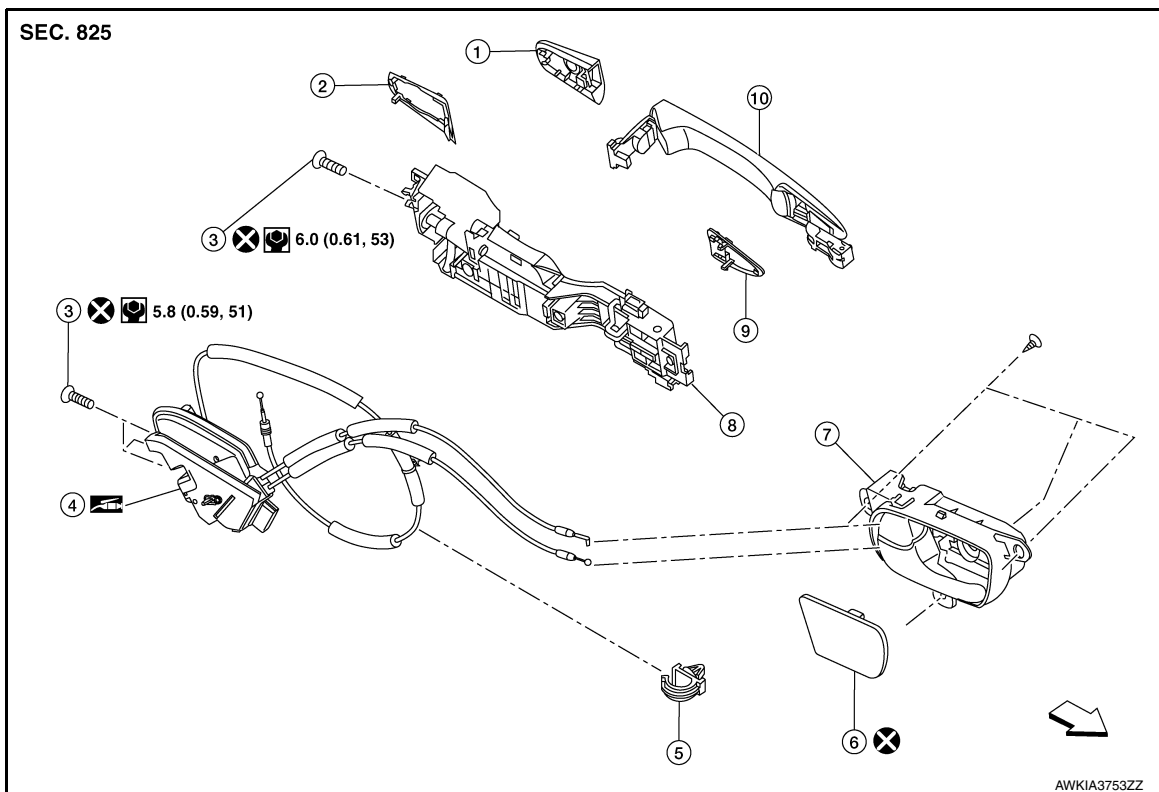
CAUTION:

- Do not reuse inside door handle escutcheon. Replace with new part after removal.
- Do not reuse front door lock assembly screws. Always replace screws with new ones when removed.
- Check front door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check front door open/close, lock/unlock operation.
- Check front door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

REAR DOOR LOCK

REAR DOOR LOCK : Exploded View

INFOID:0000000012592158



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|------------------------------|---------------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. Screw |
| 4. Rear door lock assembly | 5. Cable clip | 6. Inside handle finisher |
| 7. Inside handle | 8. Outside handle bracket | 9. Front gasket |
| 10. Outside handle | ↔ Front | |

REAR DOOR LOCK : Removal and Installation

INFOID:0000000012592159

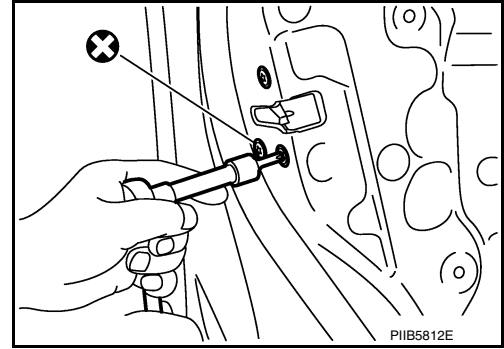
REMOVAL

1. Remove the rear door outside handle. Refer to [DLK-198, "REAR DOOR HANDLE : Removal and Installation - Outside Handle"](#).

DOOR LOCK

< REMOVAL AND INSTALLATION >

2. Disconnect the harness connector from the rear door lock actuator.
3. Remove the screws, and the door lock assembly.



INSTALLATION

Installation is in the reverse order of removal.

- Tighten rear door lock screws to specified torque.

Rear door lock screw 5.8 N·m (0.59 kg-m, 51 in-lb)

CAUTION:

- **Do not reuse rear door lock assembly screws. Always replace screws with new ones when removed.**
- **Check rear door lock cables are properly engaged to inside handle and outside handle bracket.**
- **After installation, check rear door open/close, lock/unlock operation.**
- **Check rear door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.**

TRUNK LID

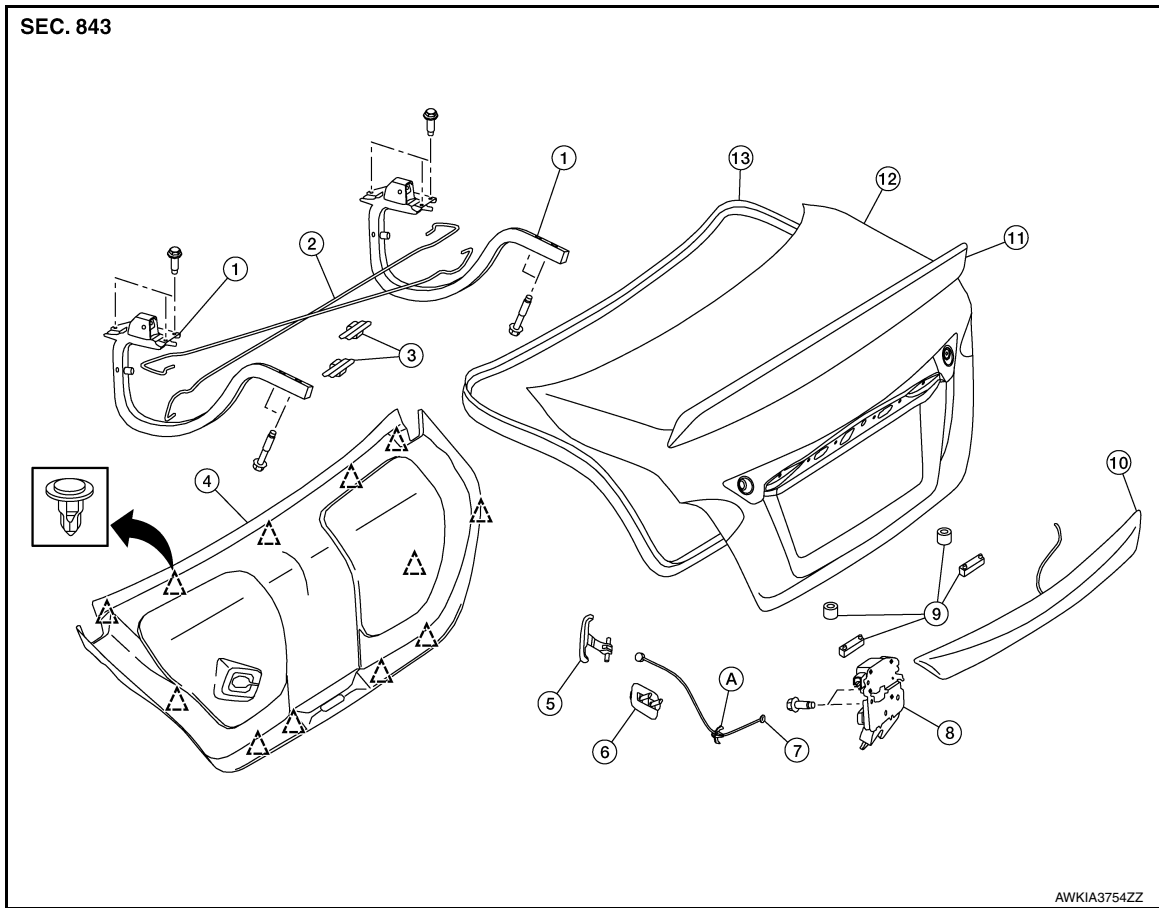
< REMOVAL AND INSTALLATION >

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Exploded View

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|-------------------------------------|---|---------------------------------|
| 1. Trunk lid hinge (LH/RH) | 2. Torsion bar (LH/RH) | 3. Torsion bar clips |
| 4. Trunk lid finisher (if equipped) | 5. Emergency release lever handle | 6. Emergency release lever clip |
| 7. Emergency release lever cable | 8. Trunk lamp switch and trunk release solenoid | 9. Trunk lid bumpers |
| 10. License plate finisher | 11. Rear spoiler (if equipped) | 12. Trunk lid |
| 13. Weatherstrip | A. Clip | △ Clip |

TRUNK LID ASSEMBLY : Removal and Installation

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CAUTION:

- Use two people when removing or installing trunk lid assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of trunk lid assembly.

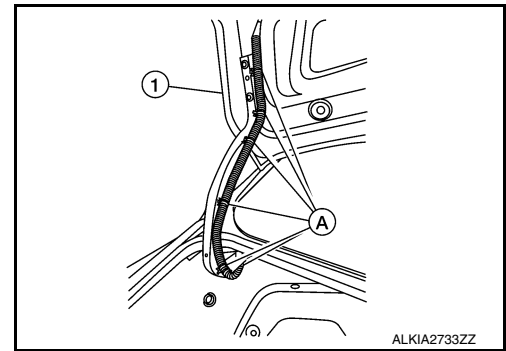
REMOVAL

1. Remove trunk lid finisher (if equipped). Refer to [INT-33, "TRUNK LID FINISHER : Removal and Installation"](#).

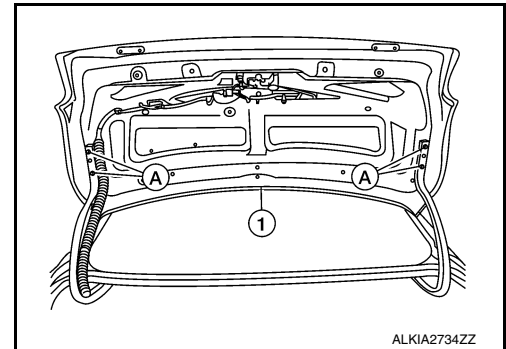
TRUNK LID

< REMOVAL AND INSTALLATION >

2. Disconnect the harness connectors in the trunk lid assembly (1) and remove the harness clips (A) then pull out harness from the trunk lid assembly (1).



3. Disconnect the harness connector from rear view camera then release clip from the truck lid assembly (if necessary).
4. Remove the bolts (A) and the trunk lid assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-205, "TRUNK LID ASSEMBLY : Adjustment"](#).

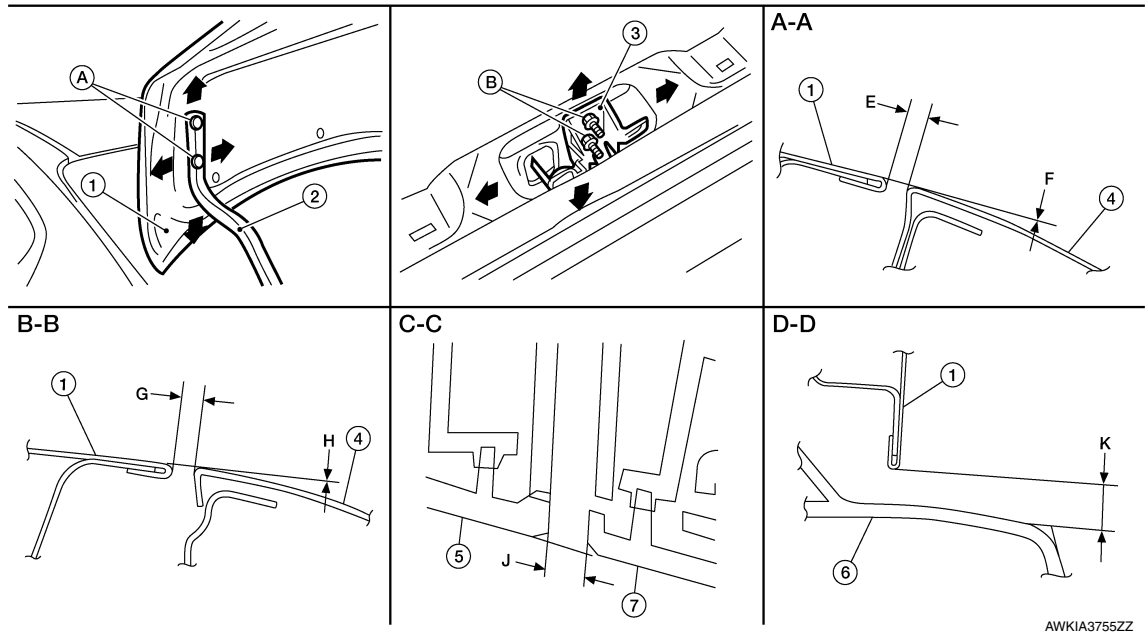
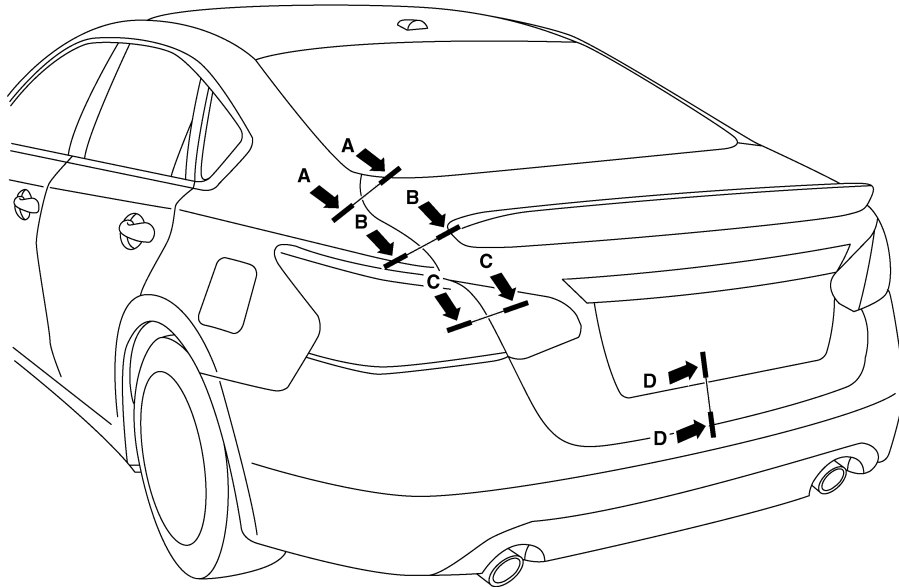
TRUNK LID

< REMOVAL AND INSTALLATION >

TRUNK LID ASSEMBLY : Adjustment

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|-----------------------|--------------------------|-----------------------|
| 1. Trunk lid assembly | 2. Trunk lid hinge | 3. Trunk lid striker |
| 4. Body side outer | 5. Rear combination lamp | 6. Rear bumper fascia |
| 7. Backup lamp | A. Trunk bolts | B. Striker bolts |

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel.

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TRUNK LID

< REMOVAL AND INSTALLATION >

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism (MAX)	Right/Left Difference (MAX)
A – A	E	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	1.4 (0.06)	1.4 (0.06)
	F	Surface height	0.0 ± 1.0 (0.00 ± 0.04)	1.4 (0.06)	1.4 (0.06)
B – B	G	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	1.4 (0.06)	1.4 (0.06)
	H	Surface height	0.0 ± 1.0 (0.00 ± 0.04)	1.4 (0.06)	1.4 (0.06)
C – C	J	Clearance	4.5 ± 1.5 (0.18 ± 0.06)	—	2.0 (0.08)
D – D	K	Clearance	6.0 ± 2.0 (0.24 ± 0.08)	2.0 (0.08)	—

LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

1. Loosen the trunk lid to hinge bolts.
2. Move the trunk lid so that the clearance measurements are within specifications provided.
3. Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

1. Remove the rear parcel shelf trim. Refer to [INT-26, "Removal and Installation"](#).
2. Loosen the hinge to parcel shelf bolts.
3. Move the trunk lid so that the clearance measurements are within specifications provided.
4. Tighten the hinge to parcel shelf bolts.
5. Install the rear parcel shelf trim. Refer to [INT-26, "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the bumper rubber.
2. Loosen the striker bolts.
3. Lift up the trunk lid approx. 100 - 150 mm (3.94 - 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
4. Tighten the trunk lid striker.

TRUNK LID HINGE

TRUNK LID HINGE : Removal and Installation

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REMOVAL

1. Remove trunk lid assembly. Refer to [DLK-203, "TRUNK LID ASSEMBLY : Removal and Installation"](#).
2. Remove torsion bar. Refer to [DLK-207, "TORSION BAR : Removal and Installation"](#).
3. Remove rear parcel shelf finisher. Refer to [INT-26, "Removal and Installation"](#).
4. Release rear washer tube clips (RH only) (if equipped).
5. Remove trunk lid hinge bolts (body side) and then trunk lid hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

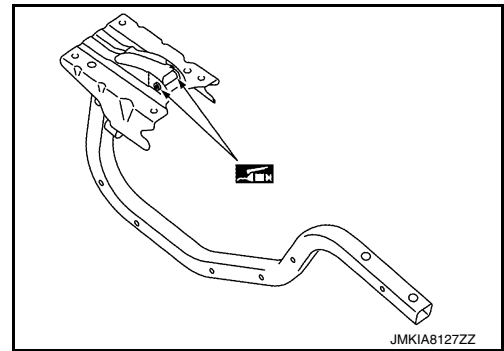
- Check trunk lid open/close, lock/unlock operation after installation.
- After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-205, "TRUNK LID ASSEMBLY : Adjustment"](#).

TRUNK LID

< REMOVAL AND INSTALLATION >

- Check trunk lid hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

 Grease



TORSION BAR

TORSION BAR : Removal and Installation

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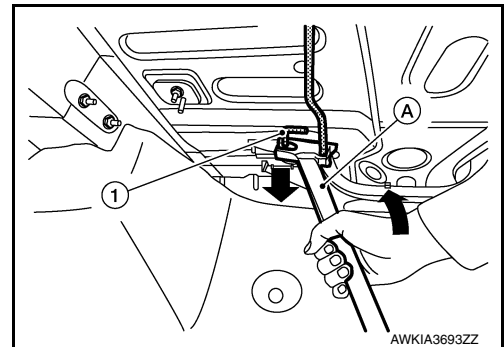
REMOVAL

1. Remove torsion bar clip.
2. Support the trunk lid assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing the torsion bars.

3. Apply suitable tool (A) to torsion bar (1) and lift torsion bar to remove it.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation check the trunk lid open/close, lock/unlock operation.

TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID

TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID : Removal and Installation

INFOID:000000012592165

REMOVAL

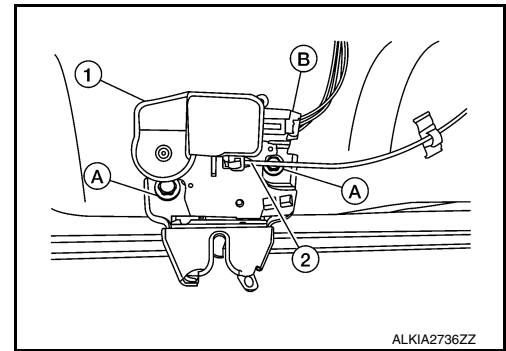
1. Remove the trunk lid finisher (if equipped). Refer to [INT-33. "TRUNK LID FINISHER : Removal and Installation"](#).

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TRUNK LID

< REMOVAL AND INSTALLATION >

2. Remove the trunk lamp switch and trunk release solenoid bolts (A).
3. Disconnect the harness connector (B) and emergency release handle (2) from the trunk lamp switch and trunk release solenoid (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-205, "TRUNK LID ASSEMBLY : Adjustment"](#).

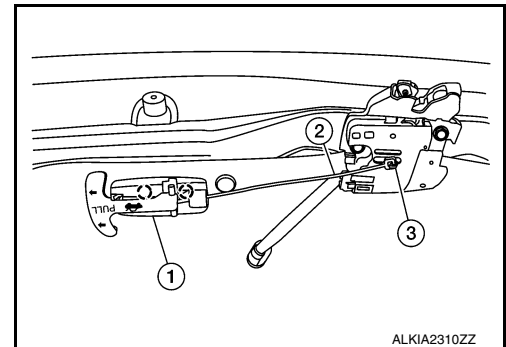
EMERGENCY LEVER

EMERGENCY LEVER : Removal and Installation

INFOID:0000000012592166

Removal

1. Remove the trunk lid finisher. Refer to [INT-33, "TRUNK LID FINISHER : Removal and Installation"](#).
2. Using a suitable tool release the pawls and remove emergency release handle (1) from trunk lid assembly.
○: Pawl
3. Disconnect emergency release handle cable (2) from trunk lamp switch and trunk release solenoid (3).



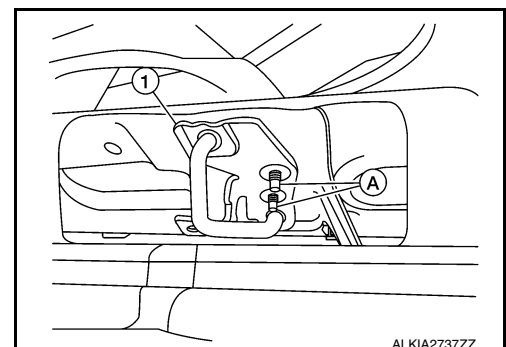
TRUNK LID STRIKER

TRUNK LID STRIKER : Removal and Installation

INFOID:0000000012592167

REMOVAL

1. Remove the trunk kicking plate. Refer to [INT-34, "TRUNK REAR FINISHER : Removal and Installation"](#).
2. Remove bolts (A), and striker (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

TRUNK LID

< REMOVAL AND INSTALLATION >

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-205, "TRUNK LID ASSEMBLY : Adjustment"](#).

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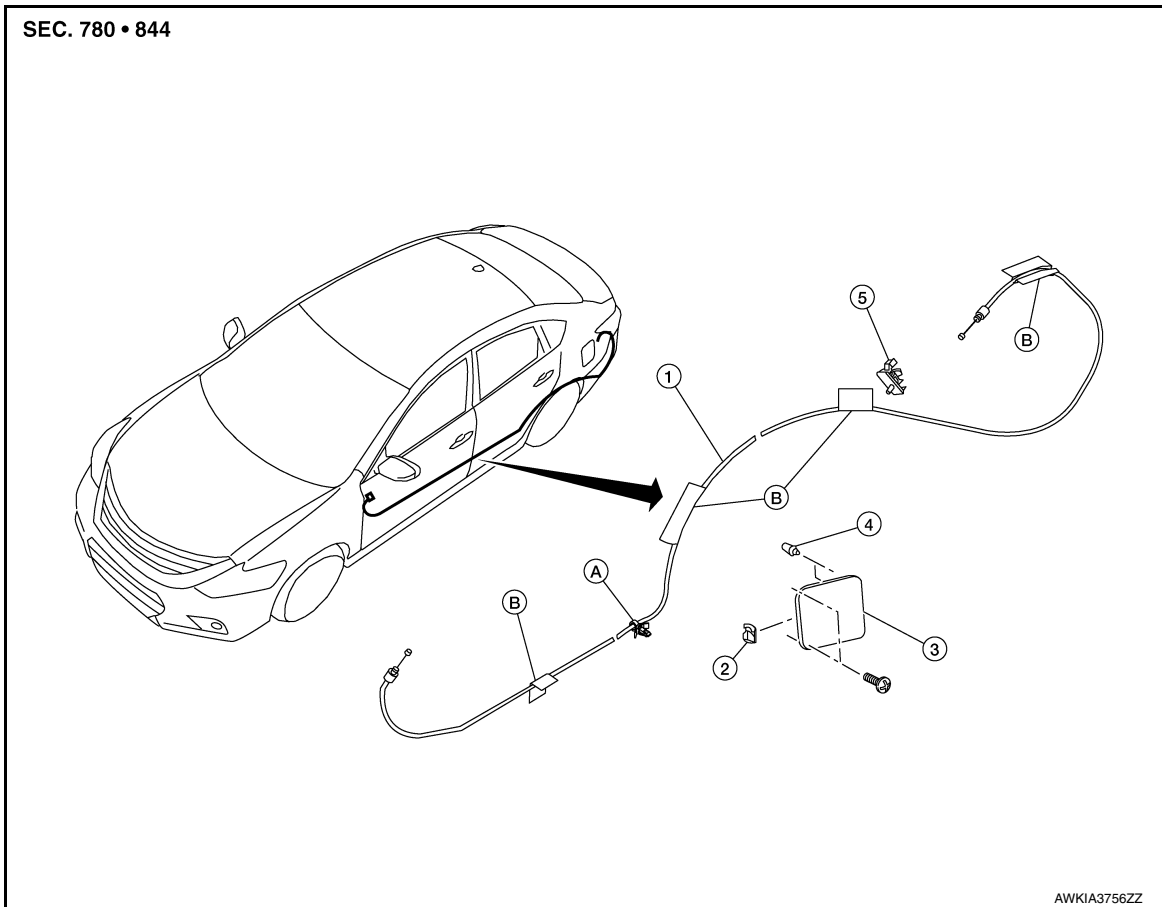
FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID OPENER

Exploded View

INFOID:000000012592168



1. Fuel filler lid opener cable

2. Spring

3. Fuel filler lid

4. Bumper rubber

5. Fuel filler lid lock

A. Clip

B. Cable protector

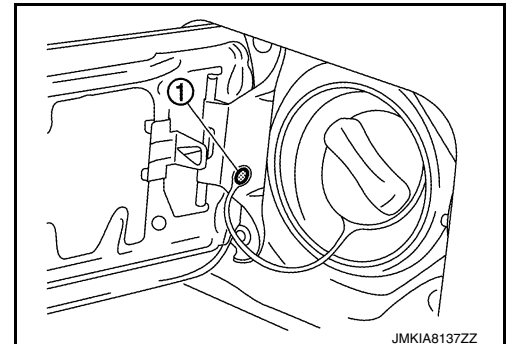
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000012592169

REMOVAL

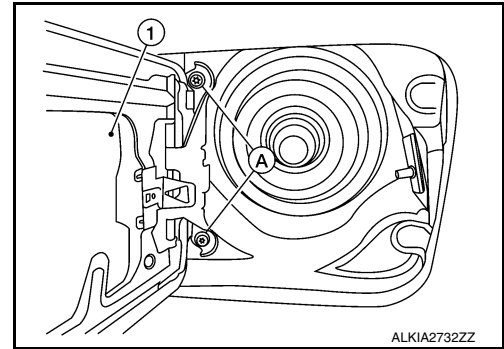
1. Fully open fuel filler lid.
2. Remove fuel cap pin (1).



FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

- Remove fuel filler lid screws (A) and fuel filler lid (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	3.5 ± 1.0 (0.14 ± 0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

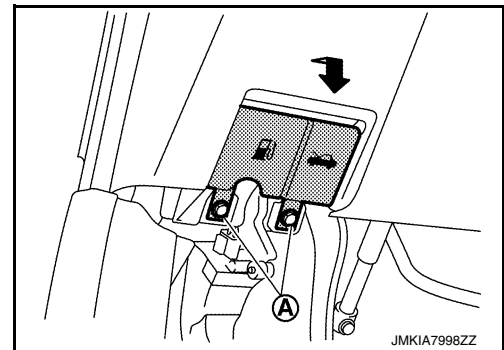
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

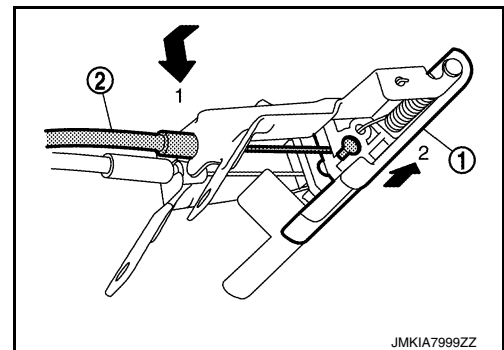
INFOID:000000012592170

REMOVAL

- Remove hood and fuel filler handle assembly bolts (A).



- Release fuel filler lid opener cable (2) by pulling downward and then sliding cable end to the side to remove from hood and fuel filler handle assembly (1).

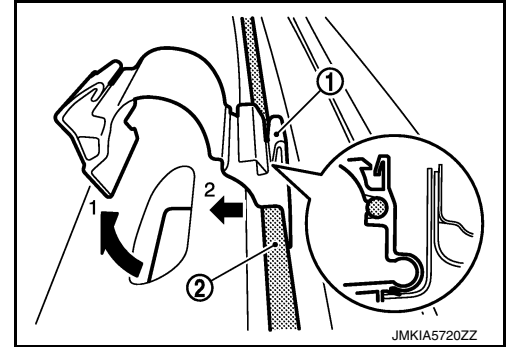


- Remove dash side finisher (LH). Refer to [INT-20, "DASH SIDE FINISHER : Removal and Installation"](#).
- Remove center pillar lower finisher (LH). Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
- Remove rear seat bolster (LH). Refer to [SE-44, "Removal and Installation - Rear Seat Bolster"](#).

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

6. Remove trunk side finisher (LH). Refer to [INT-34, "TRUNK SIDE FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to [DLK-212, "FUEL FILLER LID LOCK : Removal and Installation"](#).
8. Release each harness protector (1), and then remove fuel filler lid opener cable (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

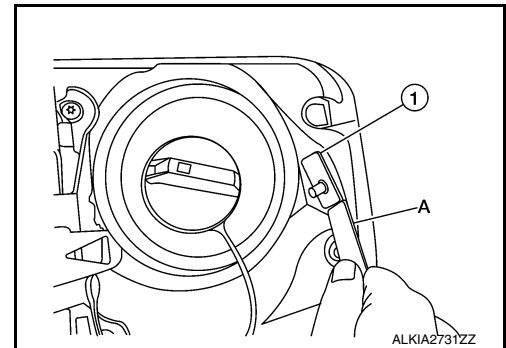
FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:0000000012592171

REMOVAL

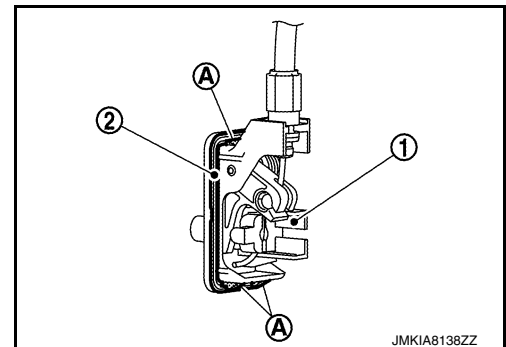
1. Fully open fuel filler lid.
2. Insert a suitable tool (A) as shown into bottom of fuel filler lock assembly(1).



3. Release lower pawls (A) using a suitable tool and remove fuel filler lid lock assembly (1) from opening.

CAUTION:

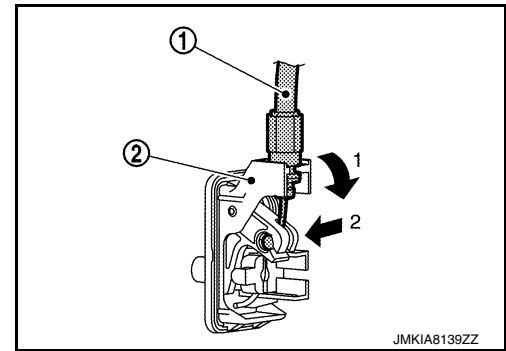
Be careful not to damage gasket (2) when removing.



FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

4. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

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DLK

KEY CYLINDER

< REMOVAL AND INSTALLATION >

KEY CYLINDER

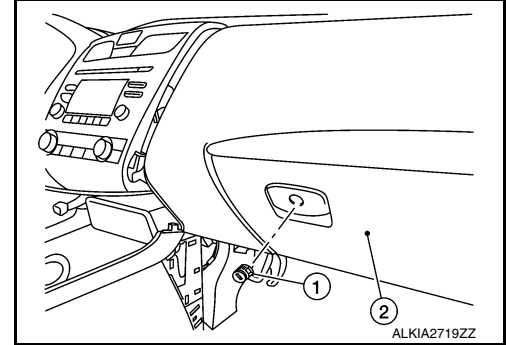
GLOVE BOX LID KEY CYLINDER

GLOVE BOX LID KEY CYLINDER : Removal and Installation

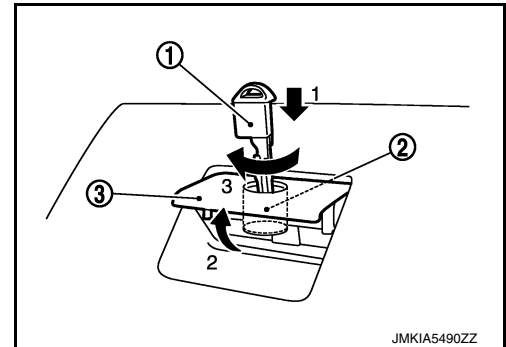
INFOID:000000012592172

REMOVAL

1. Remove glove box assembly (2) to access glove box lid key cylinder (1). Refer to [IP-22. "Removal and Installation"](#).



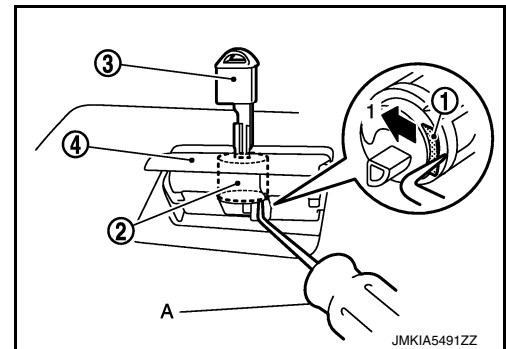
2. Insert key (1) into glove box lid lock cylinder (2).
3. Pull upward on glove box lid release handle (3).
4. Rotate key (1) and turn glove box lid key cylinder (2) to the lock position.



5. Press tumbler stopper (1) into glove box lid lock cylinder (2) using a suitable tool (A), and then remove key (3) and glove box lid lock cylinder together from glove box lid release handle (4).

NOTE:

When removing glove box lid lock cylinder (2) note the position of cylinder to glove box lid release handle (4).



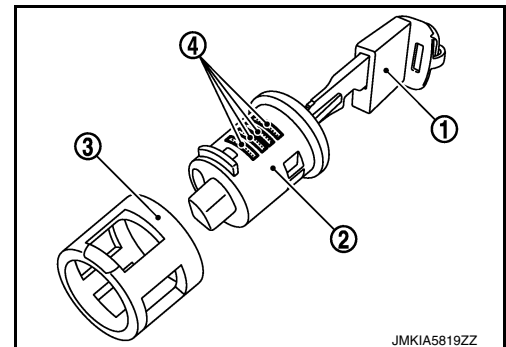
6. Remove sleeve (3) from glove box lid release handle and then install sleeve to glove box lid lock cylinder.

NOTE:

When removing sleeve note the position of sleeve to glove box lid release handle.

CAUTION:

Do not pull out key (1) from glove box lid lock cylinder (2) while sleeve (3) is removed. Otherwise, tumblers (4) may be lost from glove box lid lock cylinder.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check glove box assembly open/close, lock/unlock operation.

KEY CYLINDER

< REMOVAL AND INSTALLATION >

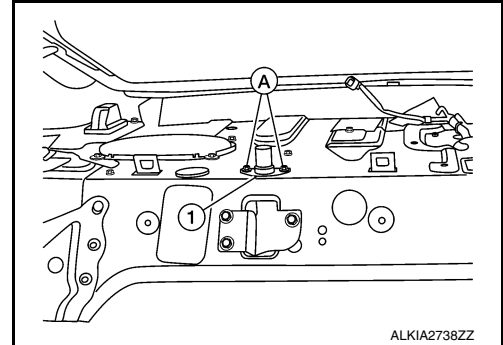
SEATBACK LOCK KEY CYLINDER

SEATBACK LOCK KEY CYLINDER : Removal and Installation

INFOID:000000013301968

REMOVAL

1. Remove rear parcel shelf finisher. Refer to [INT-26. "Removal and Installation"](#).
2. Remove bolts (A) and the seatback lock key cylinder (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, rear seatback assembly open/close, lock/unlock operation.

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DLK

DOOR SWITCH

< REMOVAL AND INSTALLATION >

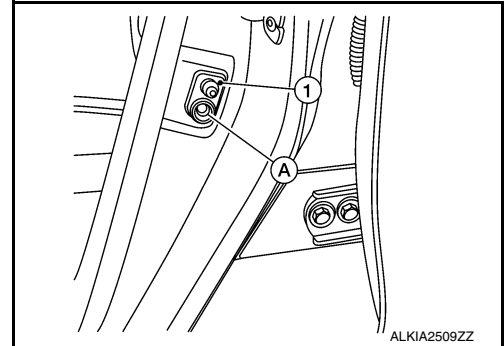
DOOR SWITCH

Removal and Installation

INFOID:000000012592174

REMOVAL

1. Remove the door switch bolt (A).
2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

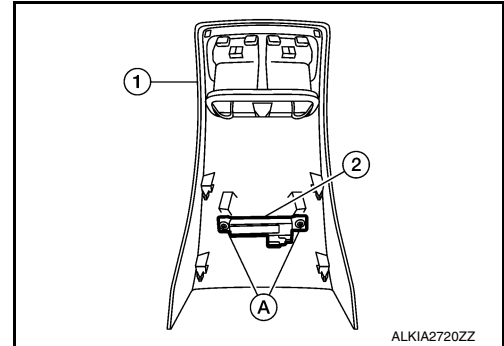
INSIDE KEY ANTENNA FRONT CONSOLE ANTENNA

FRONT CONSOLE ANTENNA : Removal and Installation

INFOID:0000000012592175

REMOVAL

1. Remove the center console rear finisher (1). Refer to [IP-18](#), "[Removal and Installation](#)".
2. Remove the inside key antenna (front console antenna) screws (A) and inside key antenna (front console antenna) (2).



INSTALLATION

Installation is in the reverse order of removal.

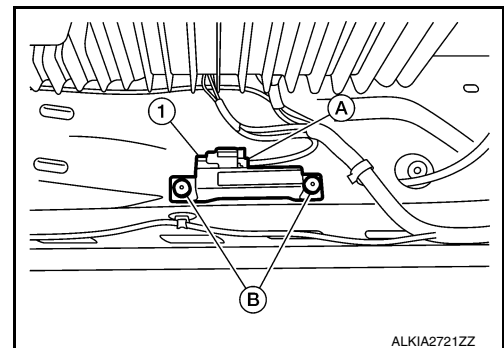
REAR PARCEL SHELF ANTENNA

REAR PARCEL SHELF ANTENNA : Removal and Installation

INFOID:0000000012592176

REMOVAL

1. Disconnect the harness connector (A) from the inside key antenna (rear parcel shelf antenna) (1).
2. Remove the inside key antenna (rear parcel shelf antenna) clips (B), and then remove inside key antenna (rear parcel shelf antenna) (1).



INSTALLATION

Installation is in the reverse order of removal.

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OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000012592177

REMOVAL

The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to [DLK-195. "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

INSTALLATION

Installation is in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000012592178

REMOVAL

The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Refer to [DLK-195. "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

INSTALLATION

Installation is in the reverse order of removal.

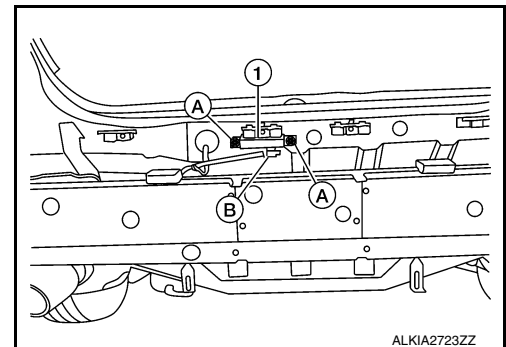
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:0000000012592179

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-29. "Removal and Installation"](#).
2. Disconnect the harness connector (B) from the rear bumper key antenna (1).
3. Remove the nuts (A) that retain the rear bumper key antenna (1) to the body.



INSTALLATION

Installation is in the reverse order of removal.

DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000012592180

REMOVAL

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to [DLK-195, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

INSTALLATION

Installation is in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000012592181

REMOVAL

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to [DLK-195, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

INSTALLATION

Installation is in the reverse order of removal.

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DLK

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

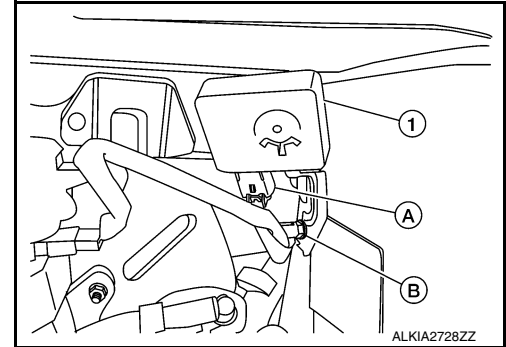
INFOID:000000012592182

REMOVAL

NOTE:

The Intelligent Key warning buzzer is located in the left front area of the engine compartment.

1. Remove the Intelligent Key warning buzzer harness clip.
2. Remove the nut (B) that retains the Intelligent Key warning buzzer (1) to the body.
3. Disconnect the harness connector (A) from the Intelligent Key warning buzzer (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

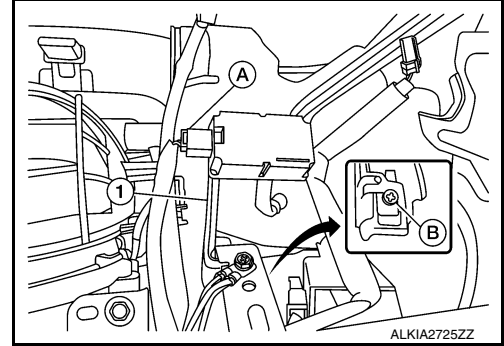
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:000000012592183

REMOVAL

1. Remove glove box assembly. Refer to [IP-22. "Removal and Installation"](#).
2. Disconnect the harness connector (A) from the remote keyless entry receiver (1).
3. Remove the screw (B) and remote keyless entry receiver (1).



INSTALLATION

Installation is in the reverse order of removal.

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INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

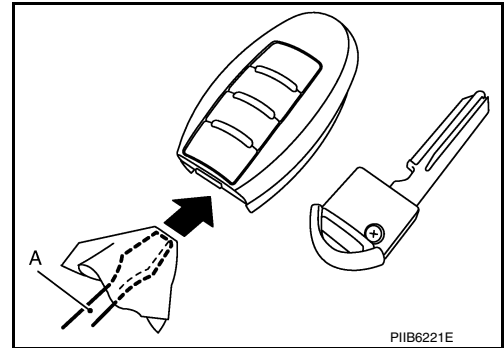
Removal and Installation

INFOID:000000012592184

1. Release the lock knob on the back of the Intelligent Key and remove the key.
2. Insert a suitable tool (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace the battery with a new one.

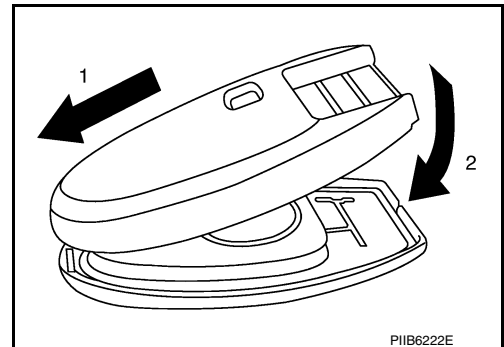
Battery replacement

:Coin-type lithium battery (CR2032)

4. Align the tips of the upper and lower parts, and then push them together until unit is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



TRUNK LID OPENER CANCEL SWITCH

< REMOVAL AND INSTALLATION >

TRUNK LID OPENER CANCEL SWITCH

Removal and Installation

INFOID:000000012592185

REMOVAL

1. Remove the glove box assembly. Refer to [IP-22. "Removal and Installation"](#).
2. Release pawls and remove the trunk cancel switch.

INSTALLATION

Installation is in the reverse order of removal.

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TRUNK LID OPENER SWITCH

< REMOVAL AND INSTALLATION >

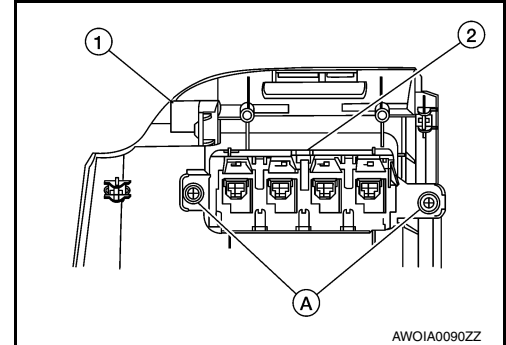
TRUNK LID OPENER SWITCH

Removal and Installation

INFOID:000000012592186

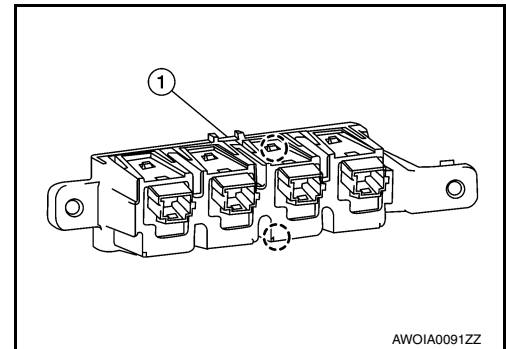
REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-21. "Removal and Installation"](#).
2. Remove screws (A) that retain the upper switch carrier (2) to the instrument lower panel LH (1).



3. Using a suitable tool release pawls and remove trunk lid opener switch from the upper switch carrier (1).

Pawl:



INSTALLATION

Installation is in the reverse order of removal.

TRUNK OPENER REQUEST SWITCH

< REMOVAL AND INSTALLATION >

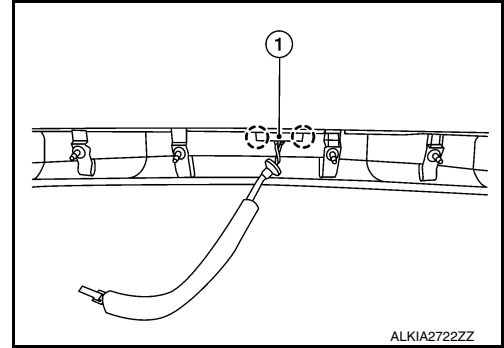
TRUNK OPENER REQUEST SWITCH

Removal and Installation

INFOID:000000012592187

REMOVAL

1. Remove the license plate lamp finisher. Refer to [EXT-46. "Removal and Installation"](#).
2. Release the pawls and remove the trunk opener request switch (1).
○: Pawl



INSTALLATION

Installation is in the reverse order of removal.

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DLK

FRONT DOOR

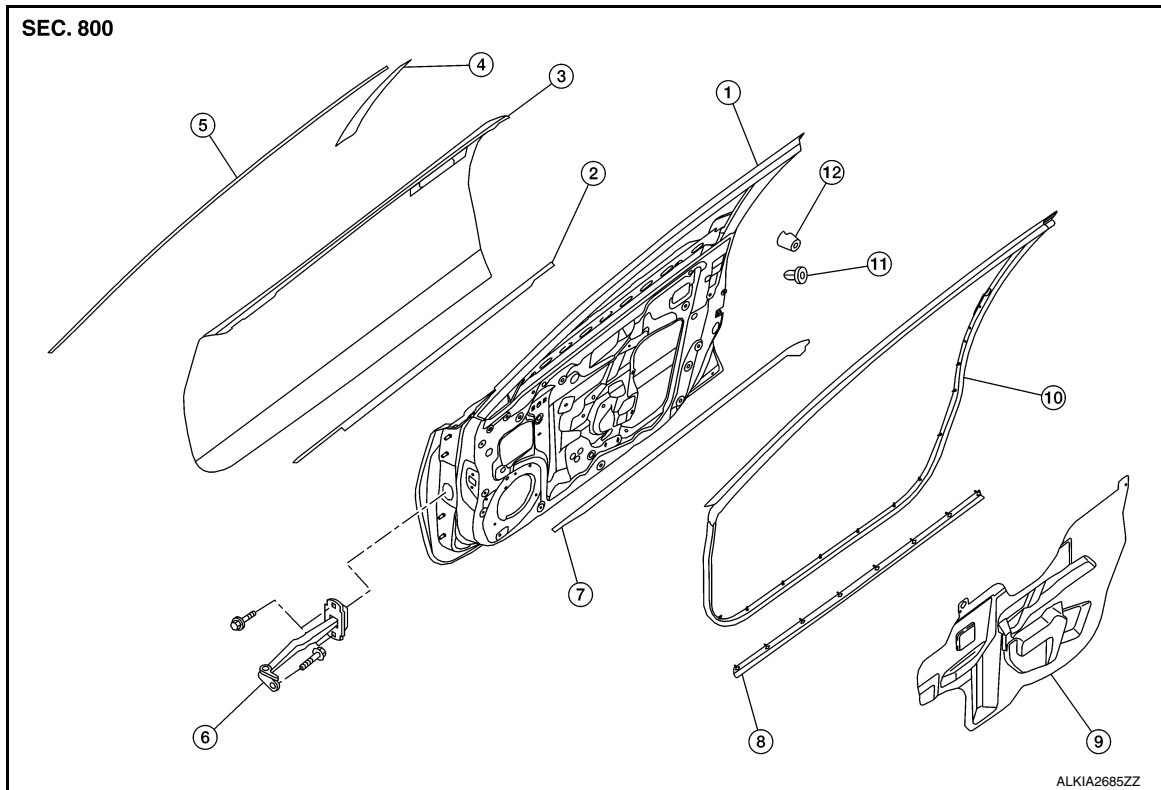
< UNIT DISASSEMBLY AND ASSEMBLY >

UNIT DISASSEMBLY AND ASSEMBLY

FRONT DOOR

Exploded View

INFOID:0000000012592188



- | | | |
|-----------------------------|-------------------------------|------------------------------|
| 1. Front door panel | 2. Front door outside molding | 3. Front door outer panel |
| 4. Front door tape | 5. Front door sash molding | 6. Front door check link |
| 7. Front door inside seal | 8. Front door lower seal | 9. Front door vapor barrier |
| 10. Front door weatherstrip | 11. Front door grommet | 12. Front door bumper rubber |

Disassembly and Assembly

INFOID:0000000012592189

DISASSEMBLY

NOTE:

RH side shown; LH similar

1. Remove front door. Refer to [DLK-181, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
3. Remove front door lower seal.
4. Remove front door bumper rubber.
5. Remove front door sash molding. Refer to [EXT-41, "FRONT DOOR SASH MOLDING : Removal and Installation"](#).
6. Remove front door weatherstrip.
7. Remove front door glass. Refer to [GW-14, "Removal and Installation"](#).
8. Remove front door glass regulator. Refer to [GW-16, "Removal and Installation - Front Regulator"](#).
9. Remove front door run rubber. Refer to [GW-16, "Exploded View"](#).
10. Remove front door outside molding. Refer to [EXT-44, "Removal and Installation"](#).
11. Remove front door front and rear glass channel. Refer to [GW-16, "Exploded View"](#).
12. Remove front door lock assembly. Refer to [DLK-200, "FRONT DOOR LOCK : Removal and Installation"](#).

FRONT DOOR

< UNIT DISASSEMBLY AND ASSEMBLY >

13. Remove front door check link.

ASSEMBLY

Assembly is in the reverse order of disassembly.

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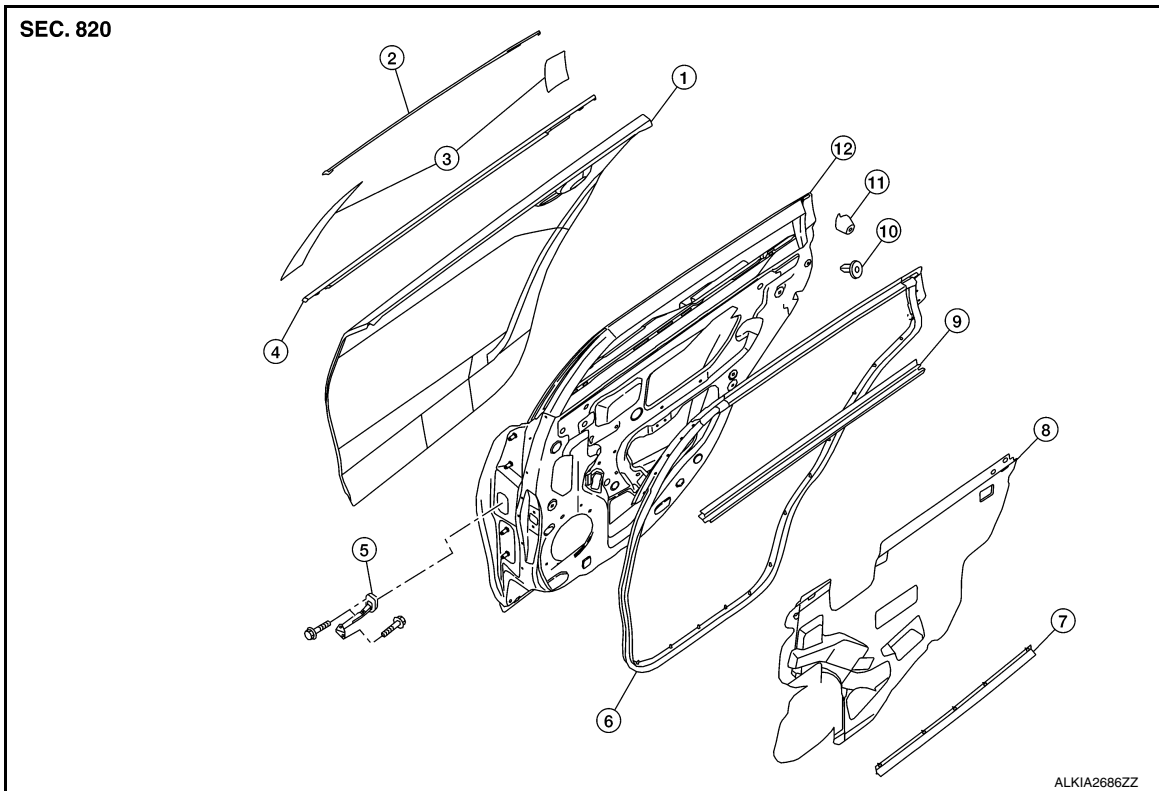
REAR DOOR

< UNIT DISASSEMBLY AND ASSEMBLY >

REAR DOOR

Exploded View

INFOID:000000012592190



- | | | |
|------------------------------|-----------------------------|---------------------------|
| 1. Rear door outer panel | 2. Rear door sash molding | 3. Rear door tape |
| 4. Rear door outside molding | 5. Rear door check link | 6. Rear door weatherstrip |
| 7. Rear door lower seal | 8. Front door vapor barrier | 9. Rear door inside seal |
| 10. Rear door grommet | 11. Rear door bumper rubber | 12. Rear door panel |

Disassembly and Assembly

INFOID:000000012592191

DISASSEMBLY

NOTE:

RH side shown; LH similar

1. Remove rear door. Refer to [DLK-187, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove rear door finisher. Refer to [JNT-18, "Removal and Installation"](#).
3. Remove rear door lower seal.
4. Remove rear door bumper rubber.
5. Remove rear door sash molding. Refer to [EXT-41, "FRONT DOOR SASH MOLDING : Removal and Installation"](#).
6. Remove rear door weatherstrip.
7. Remove rear door glass. Refer to [GW-19, "Removal and Installation"](#).
8. Remove rear door glass regulator. Refer to [GW-20, "Removal and Installation - Rear Regulator"](#).
9. Remove rear door run rubber. Refer to [GW-20, "Exploded View"](#).
10. Remove rear door outside molding. Refer to [EXT-44, "Removal and Installation"](#).
11. Remove rear door glass run. Refer to [GW-19, "Removal and Installation"](#).
12. Remove rear door lock. Refer to [DLK-201, "REAR DOOR LOCK : Removal and Installation"](#).
13. Remove rear door check link.

REAR DOOR

< UNIT DISASSEMBLY AND ASSEMBLY >

ASSEMBLY

Assembly is in the reverse order of disassembly.

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