

 D

Е

CONTENTS

PRECAUTION	3
PRECAUTIONS	3
PREPARATION)
PREPARATION	9
SYSTEM DESCRIPTION11	i
COMPONENT PARTS11	i
POWER DOOR LOCK SYSTEM	1
INTELLIGENT KEY SYSTEM	3
INTEGRATED HOMELINK TRANSMITTER	5
AUTOMATIC BACK DOOR SYSTEM	7

System Diagram	F
SYSTEM (INTELLIGENT KEY SYSTEM)21	
INTELLIGENT KEY SYSTEM21 INTELLIGENT KEY SYSTEM : System Diagram21 INTELLIGENT KEY SYSTEM : System Description	ŀ
DOOR LOCK FUNCTION22 DOOR LOCK FUNCTION : System Diagram22 DOOR LOCK FUNCTION : System Description22	I
BACK DOOR OPEN FUNCTION	DI
REMOTE KEYLESS ENTRY FUNCTION	L
KEY REMINDER FUNCTION	1
REMOTE ENGINE START FUNCTION30 REMOTE ENGINE START FUNCTION : System Diagram	(
WELCOME LIGHT FUNCTION32 WELCOME LIGHT FUNCTION : System Diagram	
33 WELCOME LIGHT FUNCTION : System Description33	

WARNING FUNCTION		
WARNING FUNCTION : System Description	34 BATTERY NEGATIVE TERMINAL11	1
SYSTEM (AUTOMATIC BACK DOOR SYS-	Description11	
TEM)	Work Procedure11	1
System Diagram		
System Description		2
•	Description11	
SYSTEM (INTEGRATED HOMELINK	Work Procedure 11	2
TRANSMITTER)	. 45	
System Description		
DIAGNOSIS SYSTEM (BCM)	AUTOMATIC BACK DOOR CONTROL UNIT11	
• •	Description	
COMMON ITEM	46 Work Flocedure	J
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	CALIBRATION OF AUTOMATIC BACK	
COMMON TIEM)	DOUR POSITION INFORMATION11	
DOOR LOCK		
DOOR LOCK : CONSULT Function (BCM -	Work Procedure11	4
DOOR LOCK)	DTC/CIRCUIT DIAGNOSIS11	5
INTELLIGENT KEY		J
INTELLIGENT KEY: CONSULT Function (BCM -	U1000 CAN COMM CIRCUIT11	5
INTELLIGENT KEY)		
TDUNK	DTC Logic11	
TRUNKTRUNK : CONSULT Function (BCM - TRUNK)		5
TRUNK . CONSULT FUNCTION (BCM - TRUNK)	U1010 CONTROL UNIT (CAN)11	6
DIAGNOSIS SYSTEM (AUTOMATIC BACK	Description11	
DOOR CONTROL UNIT)	. 52 DTC Logic11	
CONSULT Function	52 Diagnosis Procedure11	6
ECU DIAGNOSIS INFORMATION	54 B2401 IGNITION POWER SUPPLY CIRCUIT11	
LCO DIAGNOSIS INI ORMATION	DTC Logic	
AUTOMATIC BACK DOOR CONTROL UNIT	Diagnosis Procedure	
Reference Value	.54	
Fail Safe		
DTC Inspection Priority Chart		
DTC Index		
BCM	Component Inspection	
List of ECU Reference		<u>'1</u>
WIDING DIA ODAM	DTC Logic12	
WIRING DIAGRAM	Diagnosio i roccatio	
POWER DOOR LOCK SYSTEM	Component Inspection	:3
Wiring Diagram		۸(
	DTC Logic 12	
INTELLIGENT KEY SYSTEM	. 74 Diagnosis Procedure 12	
Wiring Diagram	Component Inspection	26
AUTOMATIC BACK DOOR SYSTEM	.94 B2419 OPEN SWITCH12	
Wiring Diagram	D2419 OPEN SWITCH12	
	DTG Logic	
HOMELINK UNIVERSAL TRANSCEIVER 1	Component Ingression	
Wiring Diagram1	100	
BASIC INSPECTION1	108 B2420 CLOSE SWITCH13	
	DTC Logic13	
DIAGNOSIS AND REPAIR WORK FLOW 1		
Work Flow1	Component Inspection	1

D	L	Κ	

M

Ν

0

Р

Α

В

С

 D

Е

F

G

Н

DTC Logic	133	SIDE)	162
Diagnosis Procedure		Component Function Check	
		Diagnosis Procedure	
B2423 AUTOMATIC BACK DOOR MOTO		-	
OPERATION TIME		OUTSIDE KEY ANTENNA (DRIVER SIDE)	
DTC Logic		Component Function Check	
Diagnosis Procedure	136	Diagnosis Procedure	164
B2426 ENCODER	138	OUTSIDE KEY ANTENNA (REAR BUMPER	(). 166
DTC Logic		Component Function Check	
Diagnosis Procedure		Diagnosis Procedure	
D0407 FN00DED		DOOD OMITOUR	
B2427 ENCODER		DOOR SWITCH	
DTC Logic		Component Function Check	
Diagnosis Procedure	141	Diagnosis Procedure Component Inspection	
B2428 AUTOMATIC BACK DOOR CONT	ROL	Component inspection	109
UNIT	144	BACK DOOR SWITCH	170
DTC Logic	144	Component Function Check	
Diagnosis Procedure	144	Diagnosis Procedure (With Power Back Door)	170
DO 404 OL COLUDE CONDITION		Diagnosis Procedure (Without Power Back Doo	,
B242A CLOSURE CONDITION		Component Inspection (With Power Back Door)	172
DTC Logic		Component Inspection (Without Power Back	
Diagnosis Procedure		Door)	173
Component Inspection	147	DOOR LOCK AND UNLOCK SWITCH	174
B261B REMOTE ENGINE START	148		
DTC Logic	148	DRIVER SIDE	
Diagnosis Procedure	148	DRIVER SIDE : Description	
B2622 INSIDE ANTENNA	440	DRIVER SIDE : Component Function Check	174
		DRIVER SIDE : Diagnosis Procedure (With LH	4=4
DTC Logic		and RH Auto Up/Down)	1/4
Diagnosis Procedure	149	DRIVER SIDE : Diagnosis Procedure (With LH Auto Down Only)	175
B2623 INSIDE ANTENNA	151	Auto Down Only)	173
DTC Logic	151	PASSENGER SIDE	
Diagnosis Procedure	151	PASSENGER SIDE : Description	176
B26FD SHIFT LOCK SOLENOID	450	PASSENGER SIDE :	
		Component Function Check	
DTC Logic Diagnosis Procedure		PASSENGER SIDE : Diagnosis Procedure (Wit	
Diagnosis Frocedure	100	LH and RH Auto Up/Down)	
B26FE HOOD SWITCH	156	PASSENGER SIDE : Diagnosis Procedure (Wit	
DTC Logic		LH Auto Down Only)	1/8
Diagnosis Procedure		DOOR LOCK ACTUATOR	180
Component Inspection	157		
B26FF REMOTE KEYLESS ENTRY REC	= 1\/_	DRIVER SIDE	
ER		DRIVER SIDE: Component Function Check	
		DRIVER SIDE : Diagnosis Procedure	180
DTC Logic Diagnosis Procedure		PASSENGER SIDE	181
Diagnosis Frocedure	150	PASSENGER SIDE :	
POWER SUPPLY AND GROUND CIRCU	IT160	Component Function Check	181
ALITOMATIC DAOK DOOD CONTDOX		PASSENGER SIDE : Diagnosis Procedure	
AUTOMATIC BACK DOOR CONTROL UNIT			
AUTOMATIC BACK DOOR CONTROL UNIT		REAR LH	
agnosis Procedure	160	REAR LH: Component Function Check	
BCM	160	REAR LH : Diagnosis Procedure	Iŏ2
BCM : Diagnosis Procedure		REAR RH	183
-		REAR RH: Component Function Check	

OUTSIDE KEY ANTENNA (PASSENGER

B2422 BACK DOOR STATE133

REAR RH : Diagnosis Procedure	183	AUTOMATIC BACK DOOR MAIN SWITCH	207
FUEL LID LOCK ACTUATOR	40=	Component Function Check	207
FUEL LID LOCK ACTUATOR		Diagnosis Procedure	207
Component Function Check		Component Inspection	208
Diagnosis Procedure	185	ALITOMATIC DACK DOOD OM/ITOLI	
UNLOCK SENSOR	187	AUTOMATIC BACK DOOR SWITCH	
Component Function Check		Component Function Check	
Diagnosis Procedure		Diagnosis Procedure	
Component Inspection		Component Inspection	210
		HALF LATCH SWITCH	211
DOOR KEY CYLINDER SWITCH	189	Component Function Check	
Component Function Check	189	Diagnosis Procedure	
Diagnosis Procedure	189	Component Inspection	
Component Inspection	190	·	
REMOTE KEYLESS ENTRY RECEIVER	404	TOUCH SENSOR	213
Component Function Check		BU	242
•		RH	
Diagnosis Procedure	191	RH : Component Function Check	
DOOR REQUEST SWITCH	193	RH : Diagnosis ProcedureRH : Component Inspection	
Component Function Check		RH . Component inspection	214
Diagnosis Procedure		LH	215
Component Inspection		LH: Component Function Check	
		LH : Diagnosis Procedure	
BACK DOOR REQUEST SWITCH	195	LH : Component Inspection	
Component Function Check	195	·	
Diagnosis Procedure	195	SPINDLE MOTOR	218
Component Inspection	196	BU	- 40
		RH	
BACK DOOR OPENER SWITCH		RH : Diagnosis Procedure	218
Component Function Check		LH	218
Diagnosis Procedure		LH : Diagnosis Procedure	
Component Inspection	198	-	
INTELLIGENT KEY WARNING BUZZER	100	BACK DOOR CLOSURE MOTOR	
Component Function Check		Diagnosis Procedure	220
Diagnosis Procedure		ALITOMATIC DACK DOOD WADNING DUT	,
Component Inspection		AUTOMATIC BACK DOOR WARNING BUZZ	
Component inspection	200	ER	
INTELLIGENT KEY	201	Diagnosis Procedure	
Component Function Check	201	Component Inspection	222
Diagnosis Procedure		GROUND CIRCUIT	222
•		Diagnosis Procedure	
METER BUZZER CIRCUIT		Diagnosis Flocedule	223
Description		HOOD SWITCH	224
Component Function Check		Component Function Check	224
Diagnosis Procedure	202	Diagnosis Procedure	
KEY WARNING LAMP	202	Component Inspection	
Component Function Check		INTEGRATED HOMELINK TRANSMITTER	
Diagnosis Procedure	203	Component Function Check	
HAZARD FUNCTION	204	Diagnosis Procedure	226
Component Function Check		EVMDTOM DIACNOSIS	•••
Diagnosis Procedure		SYMPTOM DIAGNOSIS	228
-		INTELLIGENT KEY SYSTEM SYMPTOMS.	228
AUTOMATIC BACK DOOR CLOSE SWITC	CH. 205	Diagnosis Procedure	
Component Function Check	205	Diagnosis i Tocedule	220
Diagnosis Procedure	205	ALL DOORS DO NOT LOCK/UNLOCK OR	
Component Inspection	206	TRUNK/BACK DOOR DO NOT OPEN WITH	
		REQUEST SWITCH	220

Description	Exploded View	246
Diagnosis Procedure	HOOD ASSEMBLY	246 A
DOOR DOES NOT LOCK/UNLOCK AND EN-	HOOD ASSEMBLY : Removal and Installation	
GINE DOES NOT START (REQ SW/PUSH	HOOD ASSEMBLY : Adjustment	
SW) (ALL KEYS)231	HOOD HINGE	_
Description	HOOD HINGE : Removal and Installation	
	RADIATOR CORE SUPPORT	250 ^C
DOOR DOES NOT LOCK/UNLOCK AND EN-	Exploded View	250
GINE DOES NOT START (ALL I-KEY/REQ	Removal and Installation	
SW/PUSH SW)	FRONT FENDER	D DED
Description	Exploded View	
Diagnosis Frocedure255	Exploded view	
INTELLIGENT KEY SYSTEM ALL FUNC-	FRONT FENDER	
TIONS CANNOT OPERATE (ALL KEYS)234	FRONT FENDER : Removal and Installation	252
Description	FRONT DOOR	254 _
Diagnosis Procedure234	Exploded View	F
DOOR DOES NOT LOCK/UNLOCK WITH IN-	·	
TELLIGENT KEY236	DOOR ASSEMBLY	
Description	DOOR ASSEMBLY: Removal and Installation	
Diagnosis Procedure	DOOR ASSEMBLY : Adjustment	255
-	DOOR STRIKER	256
DOOR DOES NOT LOCK/UNLOCK WITH	DOOR STRIKER: Removal and Installation	256
DOOR REQUEST SWITCH AND INTELLI-	DOOR STRIKER : Adjustment	256
GENT KEY237	DOOR HINGE	050
Description	DOOR HINGE : Removal and Installation	
INTELLIGENT KEY BUTTON OPERATION	DOOR CHECK LINK	257
HAS POOR RANGE (ALL KEYS)238	DOOR CHECK LINK : Removal and Installation	
Description238	REAR DOOR	258
Diagnosis Procedure238	Exploded View	250
DOOR DOES NOT LOCK/UNLOCK WITH IN-	·	DL
TELLIGENT KEY (ONE KEY)240	DOOR ASSEMBLY	
Description	DOOR ASSEMBLY : Removal and Installation DOOR ASSEMBLY : Adjustment	
Diagnosis Procedure240	DOOR ASSEMBLY . Adjustifient	259 _
-	DOOR STRIKER	
DOOR DOES NOT LOCK/UNLOCK AND EN-	DOOR STRIKER : Removal and Installation	B. /
GINE DOES NOT START (ONE I-KEY/REQ	DOOR STRIKER : Adjustment	260
SW/PUSH SW)241	DOOR HINGE	260
Description	DOOR HINGE : Removal and Installation	260
Diagnosis Procedure241		IN
INTELLIGENT KEY SYSTEM ALL FUNC-	DOOR CHECK LINK	
TIONS CANNOT OPERATE (ONE KEY) 243	DOOR CHECK LINK : Removal and Installation	
Description243	BACK DOOR	262
Diagnosis Procedure243	Exploded View	
INTELLIGENT KEY BUTTON OPERATION	·	
HAS POOR RANGE (ONE KEY)245	BACK DOOR ASSEMBLYBACK DOOR ASSEMBLY : Removal and Installa	
Description245	tion	
Diagnosis Procedure	BACK DOOR ASSEMBLY : Adjustment	
	•	
REMOVAL AND INSTALLATION246	BACK DOOR STRIKER	266
HOOD246	BACK DOOR STRIKER : Removal and Installation	266
	HOH	∠00

BACK DOOR STRIKER : Adjustment266	KEY CYLINDER283
BACK DOOR HINGE267 BACK DOOR HINGE : Removal and Installation267	GLOVE BOX LID KEY CYLINDER283 GLOVE BOX LID KEY CYLINDER: Removal and
SPINDLE UNIT267	Installation
SPINDLE UNIT: Removal and Installation267	DOOR SWITCH284 Removal and Installation284
BACK DOOR STAY267	Removal and installation284
BACK DOOR STAY : Removal and Installation267	DOOR REQUEST SWITCH285
BACK DOOR WEATHER-STRIP268	DRIVER SIDE285
BACK DOOR WEATHER-STRIP : Removal and Installation268	DRIVER SIDE : Removal and Installation 285
HOOD LOCK269	PASSENGER SIDE285
Exploded View	PASSENGER SIDE : Removal and Installation 285
	BACK DOOR285
HOOD LOCK269 HOOD LOCK : Removal and Installation269	BACK DOOR : Removal and Installation 285
HOOD LOCK : Inspection269	INSIDE KEY ANTENNA286
SECONDARY LATCH270	INSTRUMENT CENTER 286
SECONDARY LATCH : Removal and Installation.270	INSTRUMENT CENTER : Removal and Installation
HOOD LOCK RELEASE CABLE270	
HOOD LOCK RELEASE CABLE : Removal and	CONSOLE
Installation270	CONSOLE : Removal and Installation 286
FRONT DOOR LOCK272	LUGGAGE ROOM
Exploded View272	LUGGAGE ROOM : Removal and Installation 286
DOOR LOCK272	OUTSIDE KEY ANTENNA287
DOOR LOCK : Removal and Installation272	DRIVER SIDE287
INSIDE HANDLE273	DRIVER SIDE : Removal and Installation 287
INSIDE HANDLE : Removal and Installation273	PASSENGER SIDE287
OUTSIDE HANDLE273	PASSENGER SIDE : Removal and Installation 287
OUTSIDE HANDLE : Removal and Installation273	REAR BUMPER287
REAR DOOR LOCK 276	REAR BUMPER : Removal and Installation 287
Exploded View276	
DOOR LOCK276	INTELLIGENT KEY WARNING BUZZER288 Removal and Installation
DOOR LOCK : Removal and Installation276	
	BACK DOOR WARNING CHIME289
INSIDE HANDLE :276 INSIDE HANDLE : Removal and Installation276	Removal and Installation
	REMOTE KEYLESS ENTRY RECEIVER290
OUTSIDE HANDLE277	Removal and Installation290
OUTSIDE HANDLE : Removal and Installation277	INTELLIGENT KEY BATTERY291
BACK DOOR LOCK279	Removal and Installation
Exploded View279	AUTOMATIC DACK DOOD CONTDOL MOD
DOOR LOCK279	AUTOMATIC BACK DOOR CONTROL MOD- ULE292
DOOR LOCK : Removal and Installation279	Removal and Installation
TOUCH SENSOR279	
TOUCH SENSOR : Removal and Installation280	AUTOMATIC BACK DOOR MAIN SWITCH293 Removal and Installation
FUEL FILLER LID OPENER 281	
Exploded View281	AUTOMATIC BACK DOOR SWITCH294
Removal and Installation	Removal and Installation294

AUTOMATIC BACK DOOR CLOSE SWITCH. 295	Removal and Installation	295

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 Servicing Doors and Locks

INFOID:0000000012549171

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

PREPARATION

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PREPARATION

PREPARATION

Special Service Tool

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Tool number	Description	_
(TechMate No.)		
Tool name		
.	Locating the noise	
(J-39570) Chassis Ear	AAAA	
Cildosis Edi		
		_
<u> </u>		Е
	SIIA0993E	_
_	Repairing the cause of noise	F
(J-50397)		
NISSAN Squeak and Rattle Kit	Y ONION	
The state of the s	V Charles & Venezio	
		-
	ALJIA1232ZZ	
_	Used to test keyfobs	
(J-43241)	TOWN BOW TOOL	
Remote Keyless Entry Tester		I
TESTEI		
(LE0400)	Activate and display TPMS transmitter ID Display the pressure reported by the TPM	
(J-50190) Signal Tech II	Display tire pressure reported by the TPN transmitter	MS DI
orginal rectific	Read TPMS DTCs	
	Register TPMS transmitter IDs	

- 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

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PREPARATION

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Tool number (TechMate No.) Tool name		Description
KV48105501 (J-45295-A) Transmitter Activation Tool	ALEIA0183ZZ	 Activate TPMS transmitter IDs Compatible with future sensors Equipped with a display (KV48105501 only)
— (J-46534) Trim Tool Set	AWJAQ483ZZ	Removing trim components

Commercial Service Tool

INFOID:0000000012549173

(TechMate No.) Tool name		Description
(J-39565) Engine ear	SIIA0995E	Locating the noise
(—) Power tool		Loosening nuts, screws and bolts
	PIIB1407E	

SYSTEM DESCRIPTION

COMPONENT PARTS
POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

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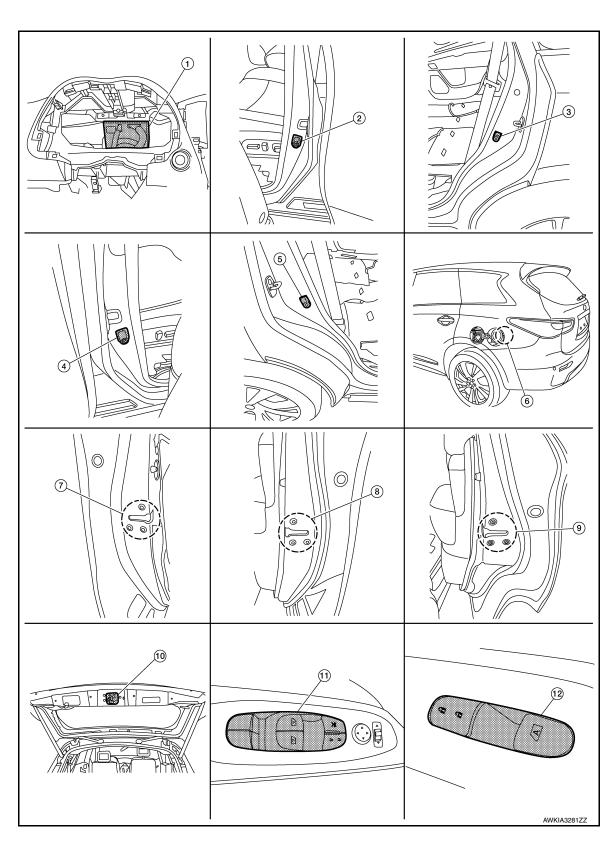
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2016 Pathfinder

Revision: November 2015

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< SYSTEM DESCRIPTION >

- 1. BCM (view with combination meter 2. Front door switch LH removed)
- Front door switch RH 4.
- 7. Front door lock assembly LH
- 10. Back door lock assembly
- 5. Rear door switch RH
- 8. Front door lock actuator RH
- 3. Rear door switch LH
- 6. Fuel lid door lock actuator
 - Rear door lock actuator RH (LH sim-
- 11. Main power window and door lock/ unlock switch
- 12. Power window and door lock/unlock switch RH

POWER DOOR LOCK SYSTEM : Component Description

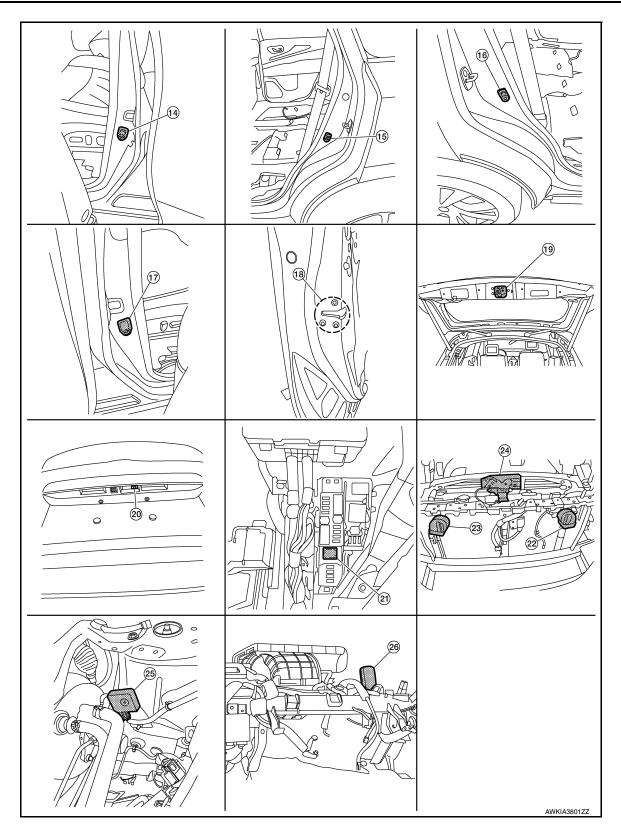
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Item	Function			
BCM	Controls the door lock system			
Door switch	Inputs door open/close condition to BCM			
Door lock and unlock switch	Detects if door lock and unlock switch is press/release Integrated in the main power window and door lock/unlock switch and power window and door lock/unlock switch (RH)			
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door			
Fuel lid door lock actuator	Output lock/unlock signal from BCM and locks/unlocks fuel filler lid			

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM: Component Parts Location INFOID:0000000012549176 Α 1 В D Е F G 456 Н DLK M Ν 0 AWKIA3800ZZ

DLK-13 Revision: November 2015 2016 Pathfinder



- BCM (view with combination meter removed)
- CVT shift selector (P (Park) position 5. switch) (view with center console removed)
- Combination meter
- CVT shift selector (Shift lock solenoid) (view with center console removed)
- 3. Push-button ignition switch
- CVT shift selector (P (Park) position switch) (view with center console removed)

< SYSTEM DESCRIPTION >

7.	Stop lamp switch	8.	Front outside handle RH (RH request switch and outside key antenna passenger side)	9.	Front outside handle LH (LH request switch and outside key antenna drivers side)	А
10.	Outside key antenna (rear bumper) (view with rear bumper cover removed)	11.	IPDM E/R	12.	Inside key antenna (console)	В
13.	Inside key antenna (luggage room) (view with rear carpet removed)	14.	Front door switch LH	15.	Rear door switch LH	
16.	Rear door switch RH	17.	Front door switch RH	18.	Front door lock assembly LH	С
19.	Back door lock assembly	20.	Back door opener switch	21.	Horn relay	
22.	Horn (low)	23.	Horn (high)	24.	Hood switch	
25.	Intelligent Key warning buzzer	26.	Remote keyless entry receiver (view			D

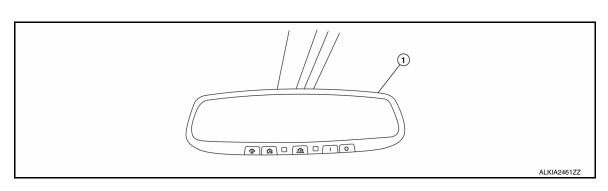
with instrument panel removed)

INTELLIGENT KEY SYSTEM: Component Description

Item	Function			
BCM	Controls the Intelligent Key system.			
Back door opener switch	Inputs back door 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	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



1. Auto anti-dazzling inside mirror

Revision: November 2015 DLK-15 2016 Pathfinder

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< SYSTEM DESCRIPTION >

INTEGRATED HOMELINK TRANSMITTER : Component Description

INFOID:000000001254917

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

AUTOMATIC BACK DOOR SYSTEM

AUTOMATIC BACK DOOR SYSTEM : Component Parts Location

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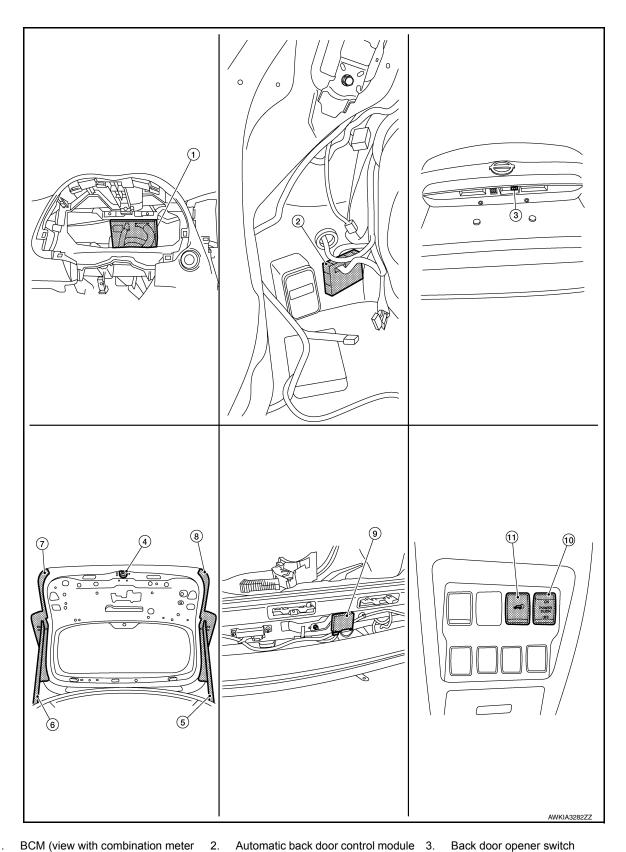
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- BCM (view with combination meter removed)
- Automatic back door control module 3. (view with luggage side lower finisher removed)
 - 6. Spindle unit LH

- 4. Back door lock assembly
- 5. Spindle unit RH

Revision: November 2015 DLK-17 2016 Pathfinder

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< SYSTEM DESCRIPTION >

- 7. Touch sensor LH
- 8. Touch sensor RH
- 9. Back door warning chime (view with rear bumper cover removed)

- 10. Automatic back door main switch
- 11. Automatic back door switch

AUTOMATIC BACK DOOR SYSTEM : Component Description

INFOID:0000000012549181

Item	Function
Automatic back door control module	Controls the automatic back door system.
BCM	Transmits and receives signals to the automatic back door control module.
Combination meter	Transmits vehicle speed signal to CAN communication line.
Automatic back door warning chime	Warns the user of the automatic back door condition and inappropriate operations with the chime sounds.
Touch sensor LH/RH	During back door close operation, the touch sensor detects any trapped foreign material.
Back door opener switch	Detects if back door opener switch is press/release.
Back door request switch	Detects if back door request switch is press/release.
Automatic back door switch	Detects if automatic back door switch is press/release.
Automatic back door main switch	Detects if automatic back door main switch is press/release.
Automatic back door close switch	Detects if automatic back door close switch is press/release.
Back door lock assembly	Back door closure motor, half latch switch, open switch, close switch and back door switch are installed: • Closure motor: Inputs open/close signal from automatic back door control module and activates the back door auto closure operation. • Half latch switch: Starts the closure motor close operation. • Open switch: Stops the closure motor open operation. • Close switch: Stops the closure motor close operation. • Back door switch: Inputs back door open/ close condition to BCM.
Spindle unit	 Encoder and spindle motor are installed: Encoder: Automatic back door control module receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control module calculates the back door position, operation direction, and operation speed according to the received pulse signals. Spindle motor: Inputs open/close signal from automatic back door control module and activates the automatic back door open/close operation.

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram

INFOID:0000000012549182 Door lock/unlock switch Each door lock actuator Door lock/unlock switch signal Door key cylinder lock/unlock signal Fuel lid door lock actuator Door key cylinder switch CAN communication **BCM** Combination meter Vehicle speed signal Each door switch signal Each door switch P Range signal Transmission range switch Push switch signal Push-button ignition switch To interior room lamp control system ALKIA2859GB

System Description

INFOID:0000000012549183

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

• The door lock and unlock switch (driver side) is built into power window main switch.

- The door lock and unlock switch (passenger side) is built into front power window switch (passenger side).
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors and fuel lid lock actuator are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors actuator and fuel lid lock actuator 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 actuator of all doors and fuel lid lock actuator.
- 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 doors actuator and fuel lid lock actuator. (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using CONSULT.

Refer to BCS-16, "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-10, "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-6, "INTERIOR ROOM LAMP CONTROL SYSTEM: 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.

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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 park position switch when 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.

(P) 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 at the WORK SUPPORT setting of CONSULT.

⋈ Without CONSULT

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

- Close all doors (door switch OFF)
- Ignition switch: OFF→ON
- 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.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 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 P to the 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 park position switch when shifted from any position other than P to the P position.

Setting change of Automatic Door Lock/Unlock Function

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

(P) 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 at the WORK SUPPORT setting of CONSULT.

⋈ Without CONSULT

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

- Close all doors (door switch OFF)
- 2. Ignition switch: OFF→ON
- 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.
- The switching is complete when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM: System Diagram

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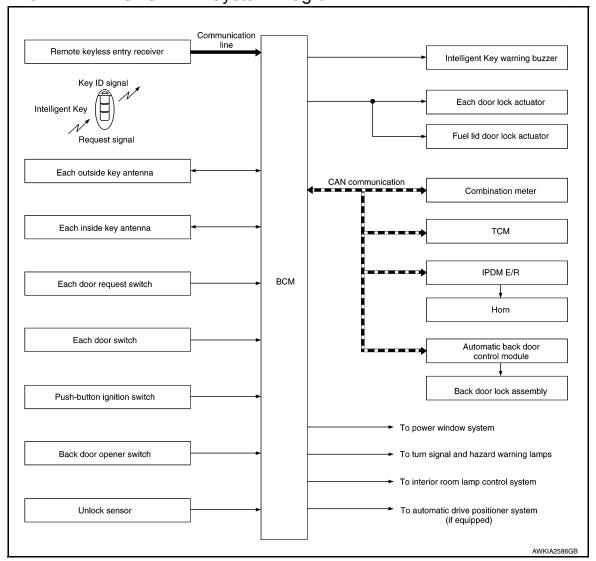
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INTELLIGENT KEY SYSTEM: System Description

• 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).

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 onscreen instructions.

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch.	DLK-22
Back door opener	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	<u>DLK-25</u>

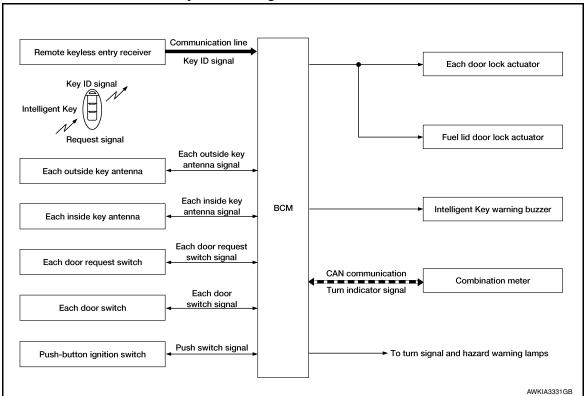
< SYSTEM DESCRIPTION >

Function	Description		Refer
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller b telligent Key.	utton of the In-	DLK-26
Key reminder	The key reminder buzzer sounds a warning if the door is locked w inside the vehicle.	ith the key left	DLK-29
Welcome light	When the Intelligent Key is carried, and vehicle doors are approach illuminates interior room lamps and operates heart beat operation button ignition switch.	-	DLK-33
Warning	If an action that does not meet the operating condition of the Intell tem is taken, the buzzer sounds to inform the driver.	ligent Key sys-	DLK-34
Engine start	The engine can be turned on while carrying the Intelligent Key.		SEC-9
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock sta	INL-6	
Power window	Power window can be operated by Intelligent Key button operation	PWC-10	
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds		SEC-14
	Setting of auto driving position can be automatically set, according to key ID of Intelligent Key to the position that is registered in advance.	Automatic drive posi- tioner	ADP-12
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.	Air condi- tioning sys- tem	HAC-18
	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.	Multi AV sys- tem	<u>AV-14</u>

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION: System Diagram

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DOOR LOCK FUNCTION: System Description

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

< SYSTEM DESCRIPTION >

OPERATION DESCRIPTION

- When the BCM detects that each door request switch is pressed, it activates the outside key antenna and inside key antenna corresponding to the pressed door request switch 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 doors (except back 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

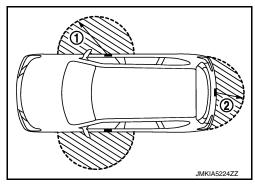
If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch is operated.

Each door request switch operation	Operation condition
Lock	 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	 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 back door handle (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 (driver side, passenger side, back door), all doors and fuel filler lid are locked.

Unlock Operation

- When an UNLOCK signal from driver side door request switch is transmitted, driver side door and fuel filler lid are unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors (except back door) are unlocked.
- When an UNLOCK signal from passenger side door request switch is transmitted, passenger side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors (except back door) and fuel filler lid are unlocked.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set.
 When another UNLOCK signal is transmitted within 60 seconds, all doors (except back door) and fuel filler lid are unlocked.

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

Refer to BCS-22, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

HAZARD AND BUZZER REMINDER FUNCTION

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< SYSTEM DESCRIPTION >

During lock or unlock operation by each door request switch, 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-22, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

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

Operating condition	Door switch is ON (door is open).Door is locked.Push switch is pressed.
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How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to BCS-22, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

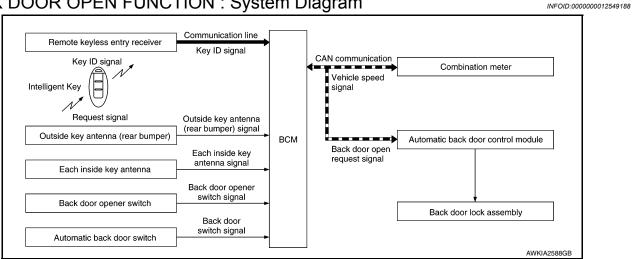
Parts marked with \times are the parts related to operation.

Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Fuel lid 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	×				×	×				×			×

BACK DOOR OPEN FUNCTION

< SYSTEM DESCRIPTION >

BACK DOOR OPEN FUNCTION: System Diagram



BACK DOOR OPEN FUNCTION: System Description

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This section describes the operation of the back door opener switch.

- · The back door open function can open the back door by pressing the back door opener switch while carrying the Intelligent Key and all doors (except back door) are locked.
- The back door open function enables the back door to be opened by pressing back door opener switch after BCM transmits UNLOCK signal to each door.

BACK DOOR OPEN

While back door open in the permitted state, back door opens when back door opener switch is pressed after back door request switch is operated. Back door open also can be operated according to the following proce-

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key and then, checks that the Intelligent Key is near the back 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.
- If the verification result is OK, BCM transmits the back door open request signal to automatic back door control module via CAN communication.
- · Automatic back door control module transmits back door open request signal to back door lock assembly and back door is open.
- When the back door is open, automatic back door system performs waiting operation for next back door close operation.
 - The operation of then back door open is the same as the automatic back door system, refer to <u>DLK-38</u>, "System Description".

OPERATION CONDITION

If the following conditions are not satisfied, back door open operation is not performed even if the back door opener switch is operated.

Back door opener switch operation	Operation condition
Back door open	 Vehicle speed is less than 5 km/h (3 MPH). Intelligent Key is within outside key antenna (rear bumper) detection area. Back door is closed. Panic alarm is not activated.

OUTSIDE KEY ANTENNA DETECTION AREA

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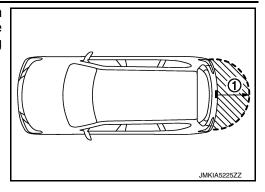
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< SYSTEM DESCRIPTION >

The outside key antenna detection area of back door open function is in the range of approximately 80 cm (31.50 in) surrounding the outside key antenna (rear bumper) (1). However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

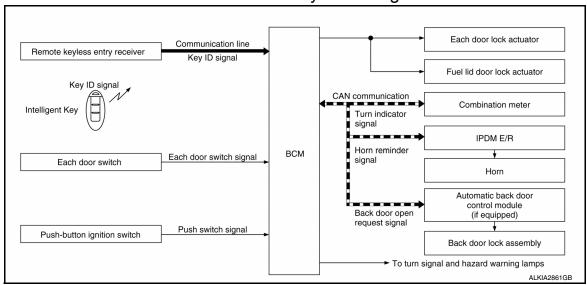
Parts marked with × are the parts related to operation.

Function	Intelligent Key	Remote keyless entry receiver	Back door opener switch	Back door lock assembly	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Automatic back door control module
Back door open function	×	×	×	×	×	×	×	×	×

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION: System Diagram

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REMOTE KEYLESS ENTRY FUNCTION : System Description

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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

Revision: November 2015 DLK-26 2016 Pathfinder

< SYSTEM DESCRIPTION >

- Auto door lock function
- Hazard and horn reminder function
- Automatic back door open/close 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 and the fuel lid, 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 pushbutton 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 aditional 10 minutes of running time. Extended time can only be added once, for a total run time of up to 20 minutes.

	Anti-theft alarm - unauthorized entry Maximum time for engine to run by remote start has been exceded.
Remote engine start cancel opera-	Hazard lamps are turned on.
tion	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.
- When BCM receives the door lock/unlock signal, it operates all door lock actuators and fuel lid lock actuator, blinks the hazard lamp (lock: 2 times, unlock: 1 time) 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	 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 and fuel filler lid are locked.
- When an UNLOCK signal is transmitted from Intelligent Key once, driver side door and fuel filler lid are unlocked.
- Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors (except for back door) are unlocked.

How to change selective unlock operation mode.

Selective unlock operation mode can be changed using CONSULT.

Refer to BCS-16, "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.

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< SYSTEM DESCRIPTION >

Operating condition	Door switch is ON (door is open)Door is lockedPush switch is pressed

How to change auto door lock operation mode.

Auto door lock mode can be changed using CONSULT.

Refer to BCS-22, "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 m	node	S mode				
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

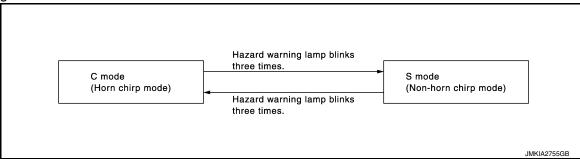
(II) With CONSULT

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

Refer to BCS-22, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

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:



AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door button of Intelligent Key is pressed for 0.4 second or more, back door open automatically for detailed description, refer to <u>DLK-38</u>, "System <u>Description</u>".

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Function	Intelligent Key	Door switch	Door lock actuator	Fuel lid lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp	Automatic back door control module	Back door lock assembly
Door lock/unlock function	×	×	×	×			×						
Selective unlock function	×	×	×	×			×						
Auto door lock function	×	×	×	×	×		×						
Hazard and horn reminder function						×	×	×	×	×	×		
Automatic back door open/close function	×					×	×					×	×
Remote engine start function	×			×	×	×	×	×	×		×	×	×

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION: System Diagram

INFOID:0000000012549192 Communication line Remote keyless entry receiver Each door lock actuator Key ID signal Key ID signal Fuel lid door lock actuator Intelligent Key Signal CAN communication Each inside key Automatic back door control module antenna signal (if equipped) Back door open **BCM** Each inside key antenna request signal Driver side door lock/unlock Back door lock assembly status signal Unlock sensor Each door Intelligent Key warning buzzer switch signal Each door switch ALKIA2862GB

KEY REMINDER FUNCTION: System Description

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

Key remainder func- tion	Operation condition	Operation				
Driver door closed*	Right after driver side door is closed under the following conditions: Door lock operation is performed. Driver side door is open. Driver side door is in lock state.	All doors (except back door) and fuel filler lid unlock.				

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Key remainder func- tion	Operation condition	Operation
Door is open or closed	Right after all doors are closed under the following conditions: Intelligent Key is inside the vehicle. Any door is open. All doors (except back door) are locked by door lock and unlock switch or door lock knob.	 All doors (except back door) and fuel filler lid unlock. Honk Intelligent Key warning buzzer.
Back door is closed	Right after back door is closed under the following conditions: Intelligent Key is inside vehicle. All doors (except for back door) are closed. All doors (except for back door) are locked.	 All doors (except for back door) and fuel filler lid unlock. Back door can open with back door opener switch. 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.

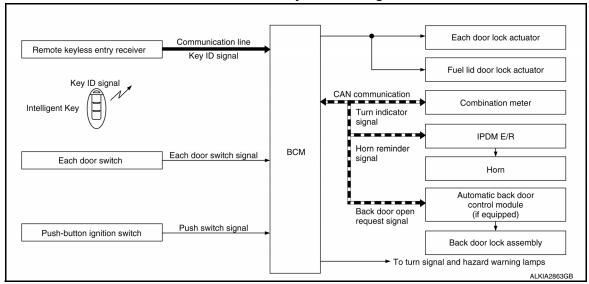
CAUTION:

 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

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REMOTE ENGINE START FUNCTION: System Description

INFOID:0000000012549195

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
- · Automatic back door open/close 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

< SYSTEM DESCRIPTION >

- 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.
- 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	 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	 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. Must wait for 6 seconds or more after IGN RUN → OFF. Remote engine start can only be activated up to 2 times. 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.

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).

- Improper remote engine start operation can occur when stop lamp switch is misadjusted or inoperative.

Operating Function of Hazard and Horn Reminder

	C n	node	S mode				
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.

The doors must be closed.The back door must be closed.The hood must be closed.

· No current DTCs in the BCM can be present.

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

How to Change Hazard and Horn Reminder Mode

Revision: November 2015 DLK-31 2016 Pathfinder

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< SYSTEM DESCRIPTION >

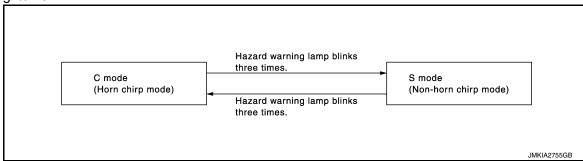
(II) With CONSULT

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

Refer to BCS-22, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

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

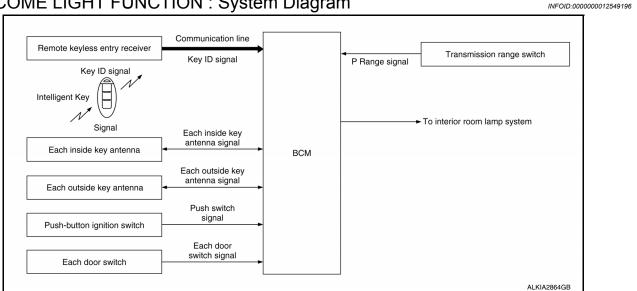
Parts marked with \times are the parts related to operation.

Function	Intelligent Key	Door switch	Door lock actuator	Fuel lid lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp	Automatic back door control module	Back door lock assembly
Door lock/unlock function	×	×	×	×			×						
Selective unlock function	×	×	×	×			×						
Auto door lock function	×	×	×	×	×		×						
Hazard and horn reminder function						×	×	×	×	×	×		
Automatic back door open/close function						×	×					×	×
Remote engine start function	×			×	×	×	×	×	×		×	×	×

WELCOME LIGHT FUNCTION

< SYSTEM DESCRIPTION >

WELCOME LIGHT FUNCTION: System Diagram



WELCOME LIGHT FUNCTION: System Description

INFOID:0000000012549197

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 pushbutton 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	 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

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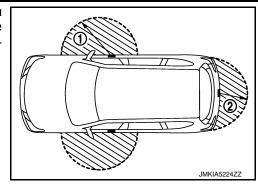
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< SYSTEM DESCRIPTION >

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 back door handle (2). However, this operating range depends on the ambient conditions.



WELCOME LIGHT FUNCTION SETTING

Welcome light function operation mode can be changed using CONSULT

(P) With CONSULT

Refer to BCS-22, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

N 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

WARNING FUNCTION: System Description

INFOID:0000000012549198

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.

< SYSTEM DESCRIPTION >

Warning/Information functions		Operation procedure		
OFF position warning	For internal	 When condition A, B or condition C is satisfied Condition A Ignition switch: ACC position Door switch (driver side): ON (Door is open) Condition B Turn ignition switch from ON to OFF while door is open Condition C 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 occur as below: P position warning → ACC warning → OFF position warning (Finternal) → OFF position warning (For internal)		
D:	For internal	Shift position: Except P (Park) position Engine is running to stopped (ignition switch is ON to OFF)		
P position warning	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		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	 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	 Ignition switch: Except Lock position Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key on not be detected inside the vehicle 		
	Push-button ignition switch operation	 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 conditio of door request switch or Intelligent Key are not satisfied		
Familia shark's factors'	Ignition switch is ON position	Ignition switch: ON position Shift position: P (Park) position Engine is stopped		
Engine start information	Ignition switch is except ON position	 Ignition switch: Except ON position Shift position: P (Park) position 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		 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.

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< SYSTEM DESCRIPTION >

Warning/Information functions		"KEY"	Information display (combination meter)	Warning chime	
		warning lamp		Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key system malfunction		Indicate	-	_	_
OFF position warning	For internal	_	_	Activate	_
	For external	_	-	_	Activate
-	For internal			Activate	_
P position warning	For external	_	Shift to Park	_	Active
ACC warning		_	Push ignition to OFF ALKIA2516GB	Activate	_
Take away warning P	Door is open to close	_		Activate	Activate
	Door is open			_	_
	Push-button ignition switch operation		No Key Detected	Activate	_
Door lock op- eration warn-	Request switch operation	_	-	_	Activate
ing	Intelligent Key	_	_	_	Activate
Key ID warning	9	_	Key ID Incorrect	_	_
Engine start in	formation	_	Push brake and start button to drive	_	_

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

	"KEY"	Information display	Warning chime		
Warning/Information functions	warning lamp	(combination meter)	Combination meter buzzer	Intelligent Key warning buzzer	
Intelligent Key low battery warning	1	Key low battery ALKIA2520GB	_	-	
Key ID verification information	_	(I) (II (I) ALKIA2521ZZ	_	_	

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Warning function		Intelligent Key	Ignition switch	Door switch	Door request switch	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 malf	unction									×	×		×
OFF position warning	For internal			×					×	×	×		
For external				×				×			×		
P (Park) position warning			×						×	×	×	×	×
ACC warning			×						×	×	×	×	
	Door is open or close	×		×		×		×	×	×	×	×	×
Take away warning	Door is open	×		×		×				×	×	×	×
rane away warning	Push-button ignition switch operation	×	×			×			×	×	×	×	×
Door lock operation warning	9	×		×	×	×	×	×			×		
Key ID warning			×			×				×	×	×	×
Ignition switch is ON position		×	×			×				×	×	×	
Engine start information	Ignition switch is except ON position	×	×			×				×	×	×	
Intelligent Key low battery warning		×				×				×	×	×	×
Key ID verification informat	on	×				×				×	×	×	

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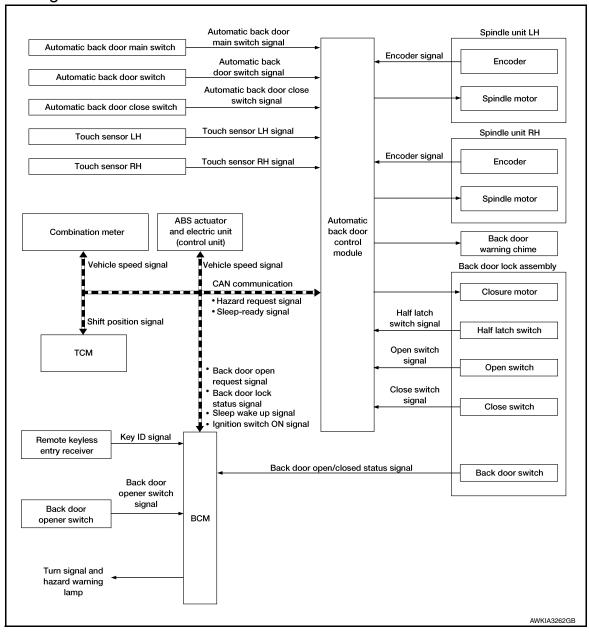
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Revision: November 2015 DLK-37 2016 Pathfinder

System Diagram

INFOID:0000000012549199



System Description

INFOID:0000000012549200

The automatic back door system performs the automatic open/close operation of the back door by operating the automatic back door switch, the automatic back door close switch, the back door opener switch, and Intelligent Key.

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

- In the case of the back door fully closed, operate the automatic back door switch, Intelligent Key or back door opener switch with the back door unlock. The back door closure motor releases the latch, then the spindle motor opens the back door to the fully open position. The closure motor reverses to the neutral position simultaneously.
- In the case of the back door fully open, operate the automatic back door switch, Intelligent Key or automatic
 back door close switch. The spindle motor closes the back door to the half-latch position, then the back door
 closure motor to the full latch position. Then, the closure motor reverses to the neutral position.

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

< SYSTEM DESCRIPTION >

Automatic open/close temporary stop function temporarily stops the open/close operation by operating back door opener switch during automatic open/close operation or by turning automatic back door main switch OFF.

Back Door Opener Switch Operation

- Automatic open/close operation stops when back door opener switch is operated during automatic open/ close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during automatic open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.
- Automatic operation is performed again, in the direction that automatic back door switch operated before stopping, when automatic back door switch or Intelligent Key button is operated during automatic open/close temporary stop function operation.

Automatic Back Door Main Switch Operation

- While automatic back door main switch is ON, automatic open/close operation stops when automatic back door main switch is turned OFF during automatic open/close operation.
- While automatic back door main switch is OFF, automatic open/close operation stops when automatic back door main switch is turned ON then turned OFF during automatic open/close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during auto open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.
- Automatic operation is performed again, in the direction that automatic back door switch operated before stopping, when automatic back door switch or Intelligent Key button is operated during automatic open/close temporary stop function operation.

BACK DOOR OPEN POSITION SETTING FUNCTION

Back door open position setting function enables a user to set stop position for automatic open operation.

Setting Procedure

Stop position for back door open position setting function can be set by the following procedure.

- 1. Manually move the back door to a stop setting position.
- Press and hold the automatic back door close switch for 3 seconds while maintaining the back door position.
- 3. The switching is complete when the buzzer sounds (pattern E).
- 4. Fully close the back door.

Cancellation Procedure

Setting of back door open position setting function can be cancelled by the following procedure.

- 1. Manually move the back door to a fully open position.
- 2. Press and hold the automatic back door close switch for 3 seconds.
- 3. The switching is complete when the buzzer sounds (pattern E).
- 4. Fully close the back door.

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

When back door opener switch is pressed and automatic back door main switch in the OFF position, BCM transmits the back door open request signal to automatic back door control module via CAN communication, and automatic back door control module opens back door lock assembly.

Closure Function

When the back door is closed to the half-latch position, the motor drives to rotate the latch lever and pulls it in from half latched to fully latched and automatically closes the door. Then, the closure motor reverses to the neutral position.

WARNING FUNCTION

The warning function is as follows and gives the user warning information using automatic back door warning chime and hazard warning lamps.

Chime Operation Condition

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< SYSTEM DESCRIPTION >

	Pattern	Time	Description
А	ON 200ms OFF JMKIA1862ZZ	0.75 sec.	Operation start announcement Anti-pinch operation start announcement
В	Pi	2.0 sec.	Closure function operates when automatic back door main switch is in OFF position During the closure operation, when touch sensor detects any trapped foreign material, the back door stops halfway
С	Pi	Back door fully closed or vehi- cle is stopped	The conditions are not satisfied in the fully open position or during the operation, and then the operation continues
D	OFF JMKIA1863ZZ	During open/close operation	During operation announcement
E	ON 500ms OFF	2.5 sec.	Calibration of automatic back door position information is complete Back door open position setting procedure is complete

ANTI-PINCH FUNCTION

During auto open operation, if an object is detected by encoder pulse in the door's path, a warning chime sounds and the back door operates in the reverse direction to prevent pinching.

During auto close operation, if an object is detected by the touch sensors and encoder pulse in the door's path, a warning chime sounds and the back door operates in the open direction until it is fully open.

Operation Condition

Detection method		Encoder pulse	Touch sensor		
Applicable operation		Open/close operation	Close operation		
Operation when any trapped for- eign material is de- tected	Stop the vehicle	Chime sounds (pattern A) and reverse operation	 Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation 		
	Running the vehicle	No reverse operation (chime sounds, pattern C)	 The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation During closure (close) operation (at main switch ON): Closure (open) operation 		
Non-reverse area		 Just after starting the motor operation Full range of closure operation Driving 	Back door open operation Closure [open (return the latch to the neutral position)]		

< SYSTEM DESCRIPTION >

Detection method	Encoder pulse	Touch sensor
Switch operation during reverse operation	Receive	
Number of allowable reverse operations	Perform the automatic open/ogardless of the operation dire	close temporary stop function after 2 reverse operations re- ction

AUTOMATIC BACK DOOR OPEN/CLOSE OPERATION CONDITION

	Automa	atic back doo	or switch	Intellig	ent Key	Automatic back Back door door close switch		•
Operating direction	Fully close	ed → Open	Fully open →Closed	$ \begin{array}{c} \text{Fully} \\ \text{closed} \rightarrow \\ \text{Open} \end{array} \rightarrow \begin{array}{c} \text{Fully open} \\ \rightarrow \text{Closed} \end{array} $		Fully open → Closed	Fully closed → Open	
Main switch	_	_	_	_	_	ON	ON	
Ignition position	ON/ACC/ LOCK	OFF	_	-	_	_	ON/ACC/ LOCK	OFF
Shift selector lever	P position	_	_			_	P position	_
Vehicle speed				0 k	m/h	 	+	
Back door lock condition	_	_	_	_	_	_	Unio	ock*
Touch sensor				No	rmal	l		
Power supply (Automatic power back door control module)		Approx. 11 V or more						

^{*:} If the registered Intelligent Key is used, the operation can be performed even if the back door is in the LOCK position.

CONTROL IF NOT WITHIN THE OPERATION CONDITIONS DURING THE OPERATION If the back door is not within the operation conditions during the operation, the automatic back door control module performs the control as follows.

Item (Condition)	Back door condition					
Vehicle stop condition (open operation) • IGN ON and shift P (Park) position→IGN ON and other than P (Park) position	The operation is continued					
Operation condition release during the operation start announcement condition	Automatic back door function does not operate					
Vehicle speed	Open operation	Operation stop [Back door fully closed or chime sounds until the vehicle stops (pattern C)]				
$(0 \text{ km/h} \rightarrow \text{More than } 0 \text{ km/h})$	Close operation	The operation is continued [chime sounds (pattern C) until back door fully closed]				
	Open operation	The operation is continued (If the pinch is detected after that, the system switches to the automatic open/close temporary stop function)				
Touch concer	Close operation	Automatic open/close temporary stop function				
Touch sensor (Normal → Open)	Closure (close) operation	Closure (open) operation and chime sounds (pattern B)				
	Closure [open (return the latch to the neutral position)]	The operation is continued				
Operation time (More than approx. 180 sec.)	Inhibit automatic back door operation					

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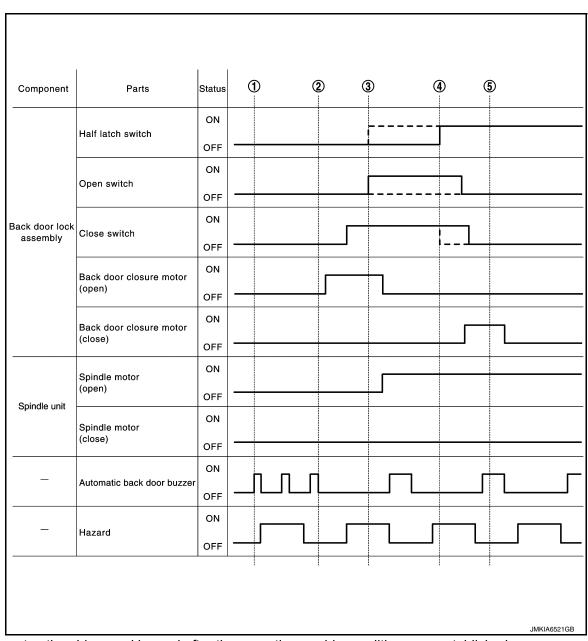
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Item (Condition)	Back door condition			
Dock door one or witch	Closure (close) operation	Closure (open) operation and back door open		
Back door opener switch (OFF → ON)	Closure [open (return the latch to the neutral position)]	Back door open		
Malfunction detected	IGN circuit	Automatic open/close temporary stop function		
Manufiction detected	Half latch switch	Operation is possible up to 3 times		

TIME CHART FOR AUTOMATIC BACK DOOR SYSTEM

Fully Closed to Fully Open Operation

When operating the automatic back door switch, automatic back door opener switch and Intelligent Key in the fully closed position, the system operates as follows.



- 1. Operates the chime and hazard after the operation enable conditions are established.
- 2. The back door closure motor performs the open operation after the chime (pattern A) stops sounding.
- 3. Stops the back door closure motor open operation after turning the open switch to ON

< SYSTEM DESCRIPTION >

Then, operate the spindle motor to perform the back door open operation.

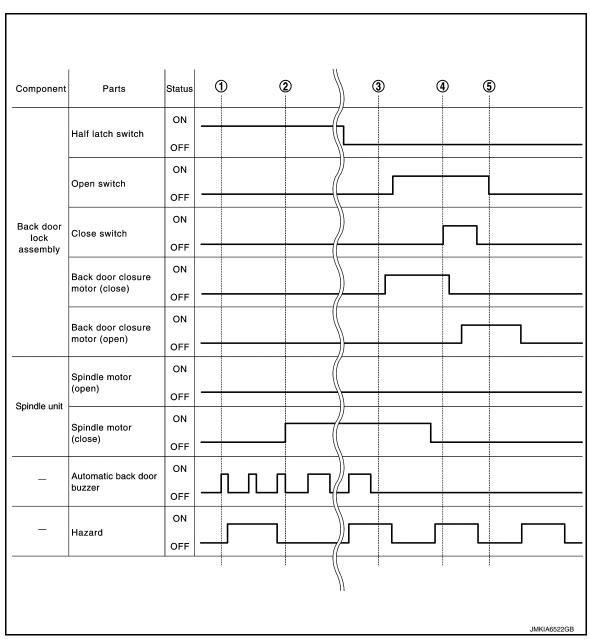
- 4. The back door closure motor performs the close operation after turning the half latch switch to ON.
- Stop the back door closure motor close operation and return the latch to the neutral position after turning the close switch to OFF.

NOTE:

In the operation of steps 3 and 4, the inputs of half latch switch, open switch, and close switch may be different according to the reaction force of the back door weatherstrip. Refer to the area encircled by a broken line in the Time chart (fully closed to fully open operation).

Fully Open to Fully Closed Operation

When operating the automatic back door switch, automatic back door close switch and Intelligent Key, the automatic back door system operates as follows.



- Operates the chime and hazard after the operation enable conditions are established.
- 2. After the chime (pattern A) stops sounding, operates the spindle motor to perform the back door close operation.
- 3. The back door closure motor performs the close operation in 300 msec. or more after turning the half latch switch to OFF.
- 4. The back door closure motor performs the open operation after turning the close switch to ON.

Revision: November 2015 DLK-43 2016 Pathfinder

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< SYSTEM DESCRIPTION > Stop the back door closure motor open operation and return the latch to the neutral position after turning the close switch to OFF.

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:0000000012549201

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

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000013002784

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and 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	 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.

				Direct [Diagnosti	c Mode		
System	Sub System	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			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				

< SYSTEM DESCRIPTION >

		Direct Diagnostic Mode							
System	Sub System	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:0000000013002785

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CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and 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 back door request switch.	1
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.	DLK
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door 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.	M
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.

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
	MODE3	This mode is not used.
AUTO LOCK FUNCTION	MODE2	Doors lock automatically when shifted out of P (park).
AUTO LOCK FUNCTION	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:0000000013002787

CAUTION:

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

SELF DIAGNOSTIC RESULT Refer to <u>BCS-52</u>, "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 back door request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHFTLCK SLNID PWR SPLY [On/Off]	×	Indicates condition of power supply to shiftlock 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.

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< 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.
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back 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 TMR [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
DETE SW PWR [On/Off]		Indicates condition of detent switch voltage.
IGN RLY3 -REQ [On/Off]		Indicates condition of front blower motor relay control request.
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.
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 back door 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.
RKE PBD [On/Off]		Indicates condition of power back door 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 N02/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 back door 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].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].

< SYSTEM DESCRIPTION >

Test Item	Description
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 check ignition relay operation [On/Off].
REVERSE LAMP TEST	This test is able to check reverse lamp illumination operation [On/Off].
DOOR HANDLE LAMP TEST	This test is able to check door handle lamp illumination operation [On/Off].
TRUNK/LUGGAGE LAMP TEST	This test is able to check cargo lamp illumination operation [On/Off].
KEYFOB P/W TEST	This test is able to check power window operation using the Intelligent Key [P/W up/down OFF/Send P/W down ON/Send P/W up ON].
SHIFTLOCK SORENOID 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.
IGN/ACC BAITERY SAVER	Off	Battery saver function OFF.
REMOTE ENGINE STARTER	On*	Remote engine start function ON.
REMOTE ENGINE STARTER	Off	Remote engine start function OFF.
	BUZZER*	Buzzer reminder function by door lock/unlock request switch ON.
ANSWER BACK I-KEY LOCK UNLOCK	HORN	Horn chirp reminder function by door lock request switch ON.
ANSWER BACK I-RET LOCK UNLOCK	Off	No reminder function by door lock/unlock request switch.
	INVALID	This mode is not used.
ANSWERBACK KEYLESS LOCK UN-	On*	Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
LOCK	Off	No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
WELCOME LIGHT OR SET	On*	Door handle lamp function from request switch ON.
WELCOME LIGHT OP SET	Off	Door handle lamp function from request switch OFF.
ANSWER BACK	On*	Horn chirp reminder when doors are locked with Intelligent Key.
ANSWER BACK	Off	No horn chirp reminder when doors are locked with Intelligent Key.
RETRACTABLE MIRROR SET	On	Retractable mirror set ON.
RETRACTABLE WIRROR SET	Off*	Retractable mirror set OFF.
CONFIRM KEY FOB ID	_	Intelligent Key ID code registration can be checked.
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.
LOCK/UNLOCK BY I-KEY	Off	Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*	Engine start function from Intelligent Key ON.
ENGINE START BT I-RET	Off	Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function by back door request switch ON.
INDINIVOLAGO HAI OH OFEN	Off	Buzzer reminder function by back door request switch OFF.
INTELLIGENT KEY LINK SET	On	Intelligent Key link set ON.
	Off*	Intelligent Key link set OFF.

< SYSTEM DESCRIPTION >

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

^{*:} Initial Setting

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000013002788

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and 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 back door opener switch.
RKE-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.

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DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function

INFOID:0000000012549206

CAUTION:

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

APPLICATION ITEMS

CONSULT performs the following functions via CAN communication with automatic back door control module.

Diagnosis mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by automatic back door control module
Data Monitor	The automatic back door control module input/output signals are displayed
Work support	Changes the setting for each setting function.
ECU Identification	The automatic back door control module part number is displayed

SELF DIAGNOSTIC RESULTS

Refer to DLK-58, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Description
SPINDLE SENSOR LH	[Pulse]	Displays the condition of the LH encoder
SPINDLE LH SPEED	[mm/s]	Displays the LH spindle operation speed
SPINDLE MOTOR LH DUTY	[%]	Displays the condition of the spindle motor LH duty
VHCL SPEED MTR	[km/h]	Displays the vehicle speed signal received from combination meter by numerical value
VHCL SPEED ABS	[km/h]	Displays the vehicle speed signal received from ABS actuator and electrical unit by numerical value
MAIN SW	[ON/OFF]	Indicates condition of automatic back door main switch
AUTO BD SW	[ON/OFF]	Indicates condition of automatic back door switch
BK DOOR CL SW	[ON/OFF]	Indicates condition of automatic back door close switch
BACK DOOR LOCK STATUS	[ON/OFF]	Indicates condition of back door lock status
PKB SW	[ON/OFF]	Indicates condition of park brake switch
OPEN SW	[ON/OFF]	Indicates condition of open switch
CLOSE SW	[ON/OFF]	Indicates condition of close switch
HALF LATCH SW	[ON/OFF]	Indicates condition of half latch switch
TOUCH SEN RH	[ON/OFF/OPEN]	Indicates condition of touch sensor RH
TOUCH SEN LH	[ON/OFF/OPEN]	Indicates condition of touch sensor LH
P RANGE IND	[ON/OFF]	Indicates condition of P range signal from combination meter
RKE REQ	[OFF/MOVE/ REV]	Indicates condition of remote keyless entry signal from BCM
IGN SW	[ON/OFF]	Indicates condition of IGN power supply
SPINDLE LH ENCODER A	[LO/HI]	Indicates condition of encoder signal from encoder A
SPINDLE LH ENCODER B	[LO/HI]	Indicates condition of encoder signal from encoder B
UNLOCK SEN BD	[LOCKUNLKI]	Indicates condition of back door unlock sensor
DESTINATION	[JPN/NAM]	Indicates specification of destination of the automatic back door system
AUTO BCK DR POS INITIAL	[YET/DONE]	Indicates condition of calibration of automatic back door position information

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Description
AUTO BCK DR POS LEARN	[YET/DONE]	Indicates condition of additional service when removing battery negative cable
SPINDLE SENSOR RH	[Pulse]	Displays the condition of the RH encoder
SPINDLE RH SPEED	[mm/s]	Displays the RH spindle operation speed
SPINDLE MOTOR RH DUTY	[%]	Displays the condition of the spindle motor RH duty
SPINDLE RH ENCODER A	[LO/HI]	Indicates condition of encoder signal from encoder A
SPINDLE RH ENCODER B	[LO/HI]	Indicates condition of encoder signal from encoder B
TRANSMISSION TYPE	[AT/CVT]	Indicates type of transmission the vehicle is equipped with

WORK SUPPORT

Work item	Description	Refer to
RESET AUTO BACK DOOR STATUS	This item is for calibration of automatic back door position information.	DLK-114, "Work Procedure"

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ECU DIAGNOSIS INFORMATION

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

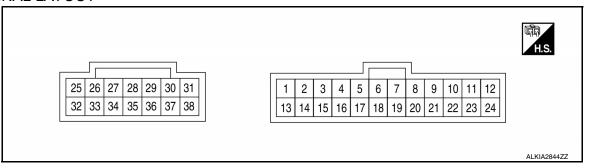
CONSULT MONITOR ITEM

Monitor Item	Conditio	Value/Status	
SPINDLE SENSOR LH	Back door: Moving	0 – 65535	
SPINDLE LH SPEED	Back door: Moving	0 - 6553.5	
SPINDLE MOTOR LH DUTY	Back door: Moving		0 – 255
VHCL SPEED MTR	While driving		Equivalent to speedometer reading
VHCL SPEED ABS	While driving		Equivalent to speedometer reading
MAINI CVA	Automatic back door main switch	OFF	OFF
MAIN SW	Automatic back door main switch	ON	ON
ALITO DD CW	Automotic hook door quitab	Release	OFF
AUTO BD SW	Automatic back door switch	Press	ON
DK DOOD OL OW	Automotic hook door close quitab	Release	OFF
BK DOOR CL SW	Automatic back door close switch	Press	ON
BACK DOOR LOCK STATUS	Dook door look	Lock	OFF
BACK DOOR LOCK STATUS	Back door lock	Unlock	ON
DIAD OW	Dedica hada	Not applied	OFF
PKB SW	Parking brake	Applied	ON
ODEN CW	Dank dana	Half latch/fully closed	OFF
OPEN SW	Back door	Applied	ON
01 005 014	5	Open/half latch	OFF
CLOSE SW	Back door	Fully closed	ON
LIALE LATOURON	Park days	Open/fully closed	OFF
HALF LATCH SW	Back door	Half latch	ON
TOUGH CEN DIL	Touch concer DII	Other than below	OFF
TOUCH SEN RH	Touch sensor RH	Detect obstruction	ON
TOUGH CENTH	Touch concert!!	Other than below	OFF
TOUCH SEN LH	Touch sensor LH	Detect obstruction	ON
P RANGE IND	Calacter layer	Other than P position	OFF
P RAINGE IND	Selector lever	P position	ON
		Release	OFF
RKE REQ	Intelligent Key button (back door)	Press (more than 0.5 second)	MOVE
		Press (just after)	REV
ION CW	Innition quitab	Other than ON position	OFF
IGN SW	Ignition switch	ON position	ON
CDINIDI E LI LENCODED A	Automotic hook deep	Not operate	No change HI or LO
SPINDLE LH ENCODER A	Automatic back door	Operate	Change HI or LO
CDINIDI E I LI ENCODED D	Automatic hook door	Not operate	No change HI or LO
SPINDLE LH ENCODER B	Automatic back door	Operate	Change HI or LO

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Conditio	Condition		
UNLOCK SEN BD	Back door lock	Lock	LOCK	
UNLOCK SEN BD	Back door lock	Unlock	UNLK	
DESTINATION	_		OTHER	
AUTO BCK DR POS INITIAL	Calibration of automatic back door	Not complete	YET	
AUTO BOK DR POS INITIAL	position information	Complete	DONE	
AUTO BCK DR POS LEARN	Additional service when removing	Not complete	YET	
	battery negative terminal	Complete	DONE	
SPINDLE SENSOR RH	Back door: Moving	0 – 65535		
SPINDLE RH SPEED	Back door: Moving		0 - 6553.5	
SPINDLE MOTOR RH DUTY	Back door: Moving		0 – 255	
SPINDLE RH ENCODER A		Not operate	No change HI or LO	
SPINDLE RH ENCODER A	Automatic back door	Operate	Change HI or LO	
SPINDLE RH ENCODER B	Automatic back door	Not operate	No change HI or LO	
SPINDLE KIT ENCODER B	Automatic back door	Operate	Change HI or LO	
TRANSMISSION TYPE	_	_ '		

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition		Voltage
(+)	(-)	Signal name	Input/ Output			(Approx.)
1 (BR)	13 (SB)			Touch sensor RH	Detect obstruc- tion	1.8 – 5 V
(טול)	(36)	nal			Other than above	2.72 – 7.27 V
2	2 13 Touch sensor LH sig- (LG) (SB) nal	Input	Touch sensor LH	Detect obstruc- tion	1.8 – 5 V	
(LG)				Other than above	2.72 – 7.27 V	
3	Cround	Half latch quitab aignal	la a d	Dool door	Half latch	0 V
(L)	Ground	Half latch switch signal	Input	Back door	Fully closed/open	Battery voltage
4 (GR)	Ground	Ground	_	_		0 V
5	5 (LG) Ground Close switch signal	Close switch signal	laaut	Dook door	Fully closed	0 V
(LG)		Input	ut Back door	Open/half latch	Battery voltage	

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	Terminal No. (Wire color) Description			Con	dition	Voltage	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
6 (V)	Ground	Encoder LH A signal	Input	Back door	Moving (auto or manual)	NOTE: Waveform width changes according to back door open/close speed	
					When stopped	0 V or Battery voltage	
7 (Y)	Ground	Encoder LH B signal	Input	Back door	Moving (auto or manual)	V) 15 10 20ms JMKIA1864ZZ NOTE: Waveform width changes accord-	
						ing to back door open/close speed	
					When stopped	0 V or 12 V	
8 (BR)	Ground	Encoder RH A signal	Input	Back door	Moving (auto or manual)	NOTE: Waveform width changes according to back door open/close speed	
					When stopped	0 V or 12 V	
9 (L)	Ground	Encoder RH B signal	Input	Back door	Moving (auto or manual)	(V) 15 10 5 0 20ms JMKIA1864ZZ NOTE:	
						Waveform width changes according to back door open/close speed	
					When stopped	0 V or 12 V	
10	Ground	Automatic back door	Input	Automatic back	ON	0 V	
(LG)		main switch		door main switch	OFF	Battery voltage	
11 (BR)	Ground	Open switch signal	Input	Back door	Moving (auto or manual)	0 V	
12			Inn:+/		When stopped	Battery voltage	
(W)	Ground	CAN - L	Input/ Output	-	_	_	

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition		Voltage
(+)	(-)	Signal name	Input/ Output			(Approx.)
13 (SB)	Ground	Touch sensor ground	Input	-	_	0.01 – 0 V
18 (—)	Ground	Ground (noise shield)	_	-	_	0.01 – 0 V
19 (SB)	Ground	Encoder LH power supply	Output	-	_	Battery voltage
20 (Y)	Ground	Encoder RH power supply	Output	-	_	Battery voltage
21 (LG)	Ground	Encoder ground	_	-	_	0 V
22	Ground	Automatic back door	Input	Automatic back	Pressed	0 V
(SB)	Ground	switch	iliput	door switch	Released	Battery voltage
23	Ground	Automatic back door	Innut	Automatic back	Pressed	0 V
(Y)	Ground	close switch	Input	door close switch	Released	Battery voltage
24 (B)	Ground	CAN - H	Input/ Output	_		_
25 (B)	Ground	Power supply (BAT)	Input	-	_	Battery voltage
27 (B)	Ground	Spindle motor LH (open)	Output	Back door	Auto open operation	Battery voltage
28 (—)	Ground	Ground (noise shield)	_	-	_	0.01 – 0 V
29 (B)	Ground	Spindle motor RH (open)	Output	Back door	Auto open operation	Battery voltage
31	Ground	Back door closure mo-	Output	Back door	Open operation	Battery voltage
(B)	Ground	tor (open)	Output	Dack door	Other than above	0 V
32 (B)	Ground	Ground	_	_		0 V
34 (W)	Ground	Spindle motor LH (close)	Output	Back door	Auto close operation	Battery voltage
36 (W)	Ground	Spindle motor RH (close)	Output	Back door	Auto close operation	Battery voltage
37		Back door warning	0	Automatic back	Sounding	Battery voltage
(LG)	Ground	chime	Output	door warning chime Not sounding		0 V
38	Ground	Back door closure mo-	Output	Back door	Close operation	Battery voltage
(W)	3.00.10	tor (close)	2 4 4 4		Other than above	0 V

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
U1000 CAN COMM	Inhibit automatic back door operation	Return to normal status.
U1010 CONTROL UNIT (CAN)	Inhibit automatic back door operation	Return to normal status.
B2401 IGN OPEN	Inhibit automatic back door operation	Automatic back door control module detects ignition switch ON signal via CAN communication.

Revision: November 2015 DLK-57 2016 Pathfinder

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< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2409 HALF LATCH SW	Inhibit automatic back door operation	Automatic back door control module detects that half latch switch changes from ON to OFF when back door fully closes.
B2416 TOUCH SEN R OPEN	Inhibit automatic back door operation	Return to normal status.
B2417 TOUCH SEN L OPEN	Inhibit automatic back door operation	Return to normal status.
B2419 OPEN SW	Inhibit automatic back door operation	Reconnect battery.
B2420 CLOSE SW	Inhibit automatic back door operation	Reconnect battery.
B2422 BACK DOOR STATE	Inhibit automatic back door operation	Half latch switch is ON from OFF.
B2423 ABD MTR TIME OUT	Inhibit automatic back door operation	At least 180 seconds are passed after automatic back door operation is inhibited.
B2426 SPINDLE SENSOR LH	Inhibit automatic back door operation	Return to normal status.
B2427 SPINDLE SENSOR RH	Inhibit automatic back door operation	Return to normal status.
B2428 AUTO BACK DR CNT MODULE	Inhibit automatic back door operation	Return to normal status.
B242A CLSR CONDITION	Inhibit automatic back door operation	Reconnect battery.

DTC Inspection Priority Chart

INFOID:0000000012549209

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2428 AUTO BK DR CNT UNIT U1000 CAN COMM U1010 CONTROL UNIT (CAN) B2401 IGN OPEN
2	B2409 HALF LATCH SW B2416 TOUCH SEN R OPEN B2417 TOUCH SEN L OPEN B2419 OPEN SW B2420 CLOSE SW B2422 BACK DOOR STATE B2423 ABD MTR TIME OUT B2426 SPINDLE SENSOR LH B2427 SPINDLE SENSOR RH B242A CLSR CONDITION

DTC Index

NOTE:

Details of time display

1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2
 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM	×	DLK-115, "DTC Logic"
U1010: CONTROL UNIT(CAN)	×	DLK-116, "DTC Logic"
B2401: IGN OPEN	×	DLK-117, "DTC Logic"
B2409: HALF LATCH SW	×	DLK-118, "DTC Logic"
B2416: TOUCH SEN R OPEN	×	DLK-121, "DTC Logic"
B2417: TOUCH SEN L OPEN	×	DLK-124, "DTC Logic"

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Reference page
B2419: OPEN SW	×	DLK-127, "DTC Logic"
B2420: CLOSE SW	×	DLK-130, "DTC Logic"
B2422: BACK DOOR STATE	×	DLK-133, "DTC Logic"
B2423: ABD MTR TIME OUT	×	DLK-136, "DTC Logic"
B2426: SPINDLE SENSOR LH	X	DLK-138, "DTC Logic"
B2427: SPINDLE SENSOR RH	×	DLK-141, "DTC Logic"
B2428: AUTO BACK DR CNT UNIT	×	DLK-144, "DTC Logic"
B242A: CLSR CONDITION	×	DLK-145, "DTC Logic"

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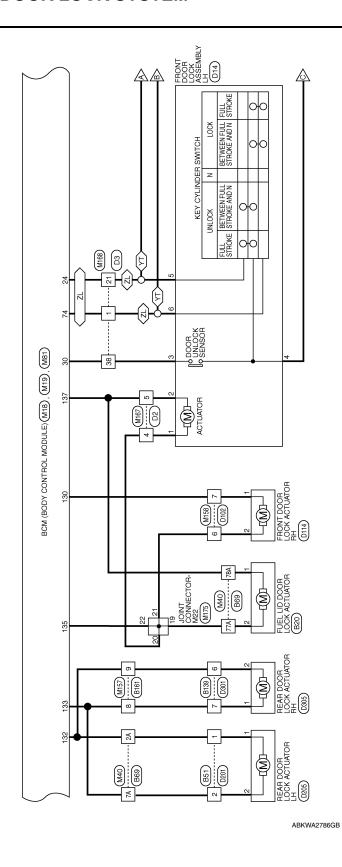
List of ECU Reference

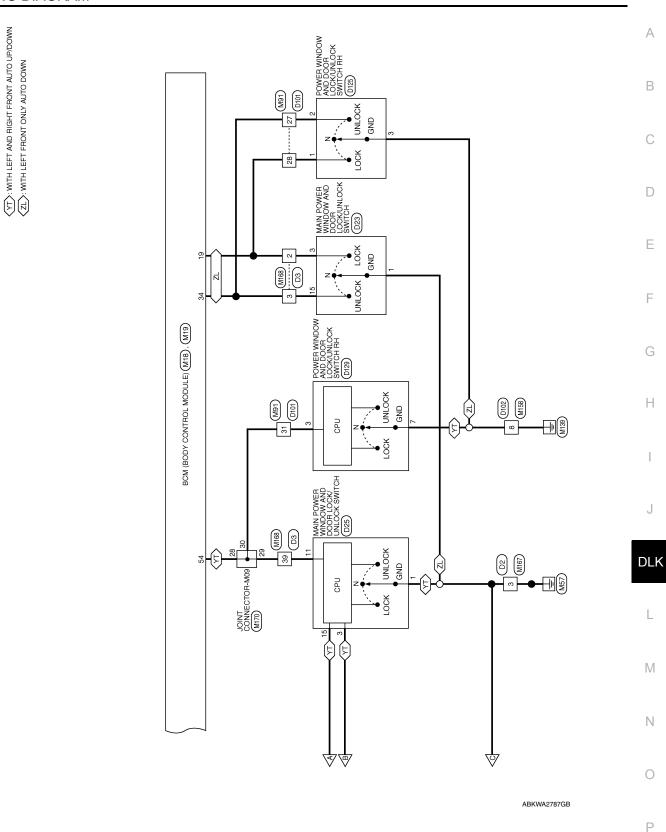
INFOID:0000000012549211

ECU	Reference
	BCS-31, "Reference Value"
BCM	BCS-50, "Fail Safe"
BCIVI	BCS-51, "DTC Inspection Priority Chart"
	BCS-52, "DTC_Index"

WIRING DIAGRAM Α POWER DOOR LOCK SYSTEM Wiring Diagram INFOID:0000000012549212 В ⟨PB⟩: WITH POWER BACK DOOR XB⟩: WITHOUT POWER BACK DOOR D505 D550 D502 B47 С D BACK DOOR LOCK ASSEMBLY (DOOR AJAR SWITCH) BACK DOOR LOCK ASSEMBLY (D565): (XB) Е B41 F 93A M40 M40 (B47) REAR DOOR SWITCH RH (B116) TO MONITOR SYSTEM CAN SYSTEM CAN SYSTEM WONITOR SYSTEM CAN GATEWAY SYSTEM CAN GATEWAY SYSTEM Н M81 SWITCH RH (B108) (M20 BCM (BODY CONTROL MODULE) (M19), M84 J DLK FUSE (J/B) (J/B) SWITCH LH 8 L 38 142 M JOINT CONNECTOR-M36 (M181) POWER DOOR LOCK SYSTEM SWITCH LH (B8) Ν M40 B69 10A 0 10G M31 E152 \$ **Q** BATTERY 134 Р ABKWA2785GB

 $\overbrace{\text{XL}}\text{Y:WITH LEFT AND RIGHT FRONT AUTO UP/DOWN}$





					45 44 43 42 41 65 64 63 62 61																				
		BCM (BODY CONTROL MODULE)	×		54 53 52 51 50 49 48 47 46 74 73 72 71 70 69 68 67 66	Signal Name	PW LIN/COM	CAN-L	CAN-H	DOOR KEY/C LOCK SW		2	Sigriai Name	ı											
	M19		+		59 58 57 56 55 79 78 77 76 75	Color of Wire	>	۵		BB		Color of	Wire	>											
	Connector No.	Connector Name	Connector Color		<u>ର୍</u>	Terminal No.	54	59	09	74			erminal No.	10G											
M CONNECTORS	Connector No. M18	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN		H.S. (20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 2 1	Terminal No. Color of Signal Name	19 V CENTRAL		24 SB DOOR REY/C UNLOCK SW	30 P DR DOOR LOCK STATUS	34 BR CENTRAL DOOR UNLOCK SW	Connector No. M31	Connector Name WIRE TO WIRE	Connector Color WHITE		H.S. 16 26 36 46 36 6 16 6 6 76 8 9 6 100	11G12G173G144G15G16G177G18G19G20G21G 22G23G24G25G26G27G28G29G30G	316320\836\386\386\386\386\396\400\416	426436466456476486496506	516526536546155615661576158615961006116	R2068308408569666870808999700			916 926 936 946 956	966 976 986 986 906 1000
POWER DOOR LOCK SYSTEM COI	Connector No. M3		Connector Color WHITE	NE 3N	1.5. 8N 7N 6N 5N 4N	Terminal No. Color of Signal Name	- V N4	- × N9	6N W -			Connector No. M20	Connector Name BCM (BODY CONTROL	MODÜLE)	Connector Color GRAY	H.S.	92 91 90 89 88 87 86 85 84 83 82 81 87 104 105 102 101 100 99 98 97 96 95 94 83		Terminal No. Color of Signal Name	82 W RL DOOR SW	91 BR BACK DOOR OPEN OUT	93 R RR DOOR SW	94 G AS DOOR SW	96 BG DR DOOR SW	97 W BACK DOOR SW
POW	ĮĞ	Õ (اد	适	3	<u> </u>						<u> [</u>	ĮŎ		Ó		[6] P		<u>"</u>				AE	BKIA4	1770GB

POWER DOOR LOCK SYSTEM

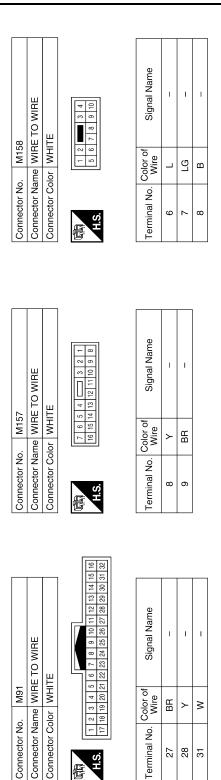
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Connector No. M69	Connector Color MHITE						16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 23 2 12 10 18 17		Terminal No. Color of Wire Signal Name	12 W –			Connector No. M84	Connector Name WIRE TO WIRE	Connector Color WHITE		匠	H.S.			16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1			Terminal No. Color of Signal Name Wire	21 G –			B C D
Signal Name	1	1	ı	1	1	ı	– (WITHOUT POWER BACK DOOR)						Signal Name)	DOOR UNLOCK RR/RL	GND 2	DOOR LOCK DR/AS/FL	DOOR UNLOCK DR/FL	BAT REAR DOOR	BAT POWER F/L	BAT FRONT DOOR	GND 1						F
Terminal No. Color of Wire	2A BR	7A Y	65A W	66A BG	77A L	78A V)- BB - A86						Terminal No. Color of	WIE	>	В	7	>	>	139 W	142 Y B.	143 B						H
M40 Milbe TO Milbe	WILL IO WILL			14 24 34 44 5A	8A 9A 10A		11A12A13A14A15A16A17A18A19A20A21A 22A23A24A25A26A27A28A28A29A30A	31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A	42A 43A 44A 45A 46A 47A 48A 49A 50A	51A 52A 53A 54A 55A 56A 57A 85A 69A 60A 61A 62A 63A 64A 65A 66A 67A 88A 89A 70A	82A 83A 84A 85A 86A 87A 88A 89A 90A	91A 92A 93A 94A 95A 96A 97A 98A 99A100A		Connector Name BCM (BODY CONTROL		WHITE		- 137/13613513413311321311331128 143 142 141 140 139 138	<u> </u>	Joseph 2	Wire Signal Name	LG DOOR UNLOCK AS	W BAT BCM FUSE	BR DOOR LOCK RR/RL				J DLI
Connector No.	Connector Color			0				L					Connector No.	Connector		Connector Color	á		H.S.		Terminal No.	130	131	132				0

DLK-65 Revision: November 2015 2016 Pathfinder

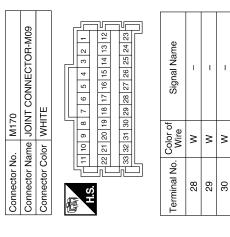
POWER DOOR LOCK SYSTEM

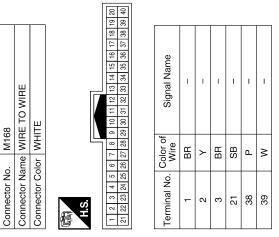
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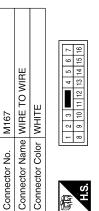


Terminal No.

28 28 31







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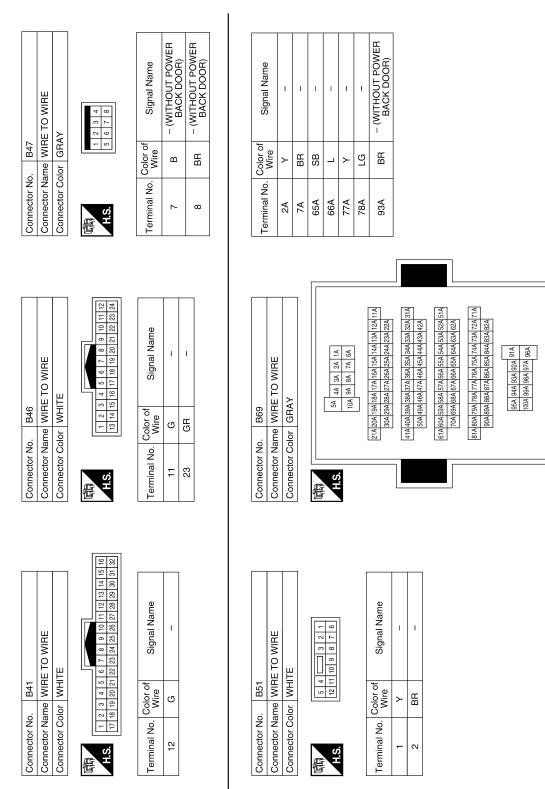


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136 126 116 136	3
Connector No. E152	3
State	Э
Connector No. E152	Ξ
F	=
DR-M36	3
Connector No. M181 Connector Name JOINT CONNECTOR-M36 Connector Color WHITE Terminal No. Wire Connector Name REAR DOOR SWITCH LH Connector Color WHITE Terminal No. Wire Signal Name 3 SB	-
M181	l
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Terminal No. Connector Color Terminal No. 3 S	J
DI	LK
Connector No. M175 Connector Name JOINT CONNECTOR-M22 Connector Color WHITE Terminal No. Wire Signal Name 20	
46. M175 Aame JOINT CON Solor WHITE 11 10 9 8 7 6 11 110 9 8 7 6 12 21 20 19 18 17 Color of Rame FRONT DC Nure Color of Rame FRONT DC Nure Color of Rame FRONT DC L L L L L L L L L L L L L	\I
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Connector Name Connector No. 33 22 H.S. H.S. Terminal No. Color Terminal No. 3 L. 3 L.	
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Revision: November 2015 DLK-67 2016 Pathfinder

POWER DOOR LOCK SYSTEM



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POWER DOOR LOCK SYSTEM

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			А
Connector No. B116 Connector Name REAR DOOR SWITCH RH Connector Color WHITE	Signal Name -	WIRE	В
B116 REAR DOC WHITE		D2	С
Connector No. B116 Connector Name REAR I Connector Color WHITE	I No. Wire LG	Ook Cok	D
Connector No. Connector Colc	Terminal No.	Connector No. Connector Nam Connector Colo A.S. Terminal No. C 3 3 4 4 5	E
			F
OH RH	Φ		
Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	Signal Name	WIRE 12 13 4 5 6 7 14 15 16 7 15 16 7 17 18 18 18 18 18 18 18 19 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18	G
FRONT DG WHITE			Н
Connector No. B108 Connector Name FRONT Connector Color WHITE A.S.	No. Wire LG	Colo Colo	I
Connector No. Connector Cole	Terminal No.	Connector No. Connector Nam Connector Colo H.S. H.S. 9	J
			DLK
9 28	e u	<u>e</u>	L
WIRE 12 13 14 15 12 12 29 30 31	Signal Name	WIRE Signal Name	
WHITE WHITE 8 9 10 11 11 12 24 25 26 22 22 22 22 22 22 22	Color of Wire LG	S. B139 Sime WIRE TO W Slow Wire Wire BR Y	M
Connector No. B101 Connector Color WHITE Connector Color WHITE H.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28 29 30 31 32	al No. Col.	Color Manager	N
Connec Connec Connec	Terminal No. 21 22	Connector No Connector No Connector Connector Connector Connector Connector Connector No Connect	0

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Revision: November 2015 DLK-69 2016 Pathfinder

		Connector Ivarie Wire O Wire	Connector Name		FRONT DOOR LOCK	Ċ			MAIN POWER WINDOW AND
Connector Color	lor WHITE	<u>T</u>	Connector Color		AY	GO	Connector Name Connector Color		SWITCH (WITH LEFT FROM ONLY AUTO DOWN)
H.S. 20 19 18 17 16 15 40 39 38 37 36 35	35 34 33 3	22 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 23 22 21	山东 H.S.		2		H.S.	7 6 5 8 9 10	11 12 13 14 15 16
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terr	Terminal No.	Color of Wire	Signal Name
-	BR	ı	-	>	ı		-	В	GND
2	>	ı	2	٨	1		3	Α	LOCK CDL
3	BR	1	3	LG	ı		15	BR	UNLOCK CDL
21	SB	ı	4	В	ı				
38	ГG	ı	2	SB	1				
39	>	ı	9	BB	ı				
Connector No.	D25		Connector No.	No. D101	10	Con	Connector No.	. D102	
Connector Name	MAI ANE SWI	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT AND	Connector Name Connector Color	Name WIRE T	Connector Name WIRE TO WIRE Connector Color WHITE	Color	Connector Name Connector Color	Connector Name WIRE TO WIRE Connector Color WHITE	TO WIRE
	UP/I	DOWN)				4			
Connector Color	lor WHITE	1	υ,	15 14 13	12 11 10 9 8 7 6 5 4 3 2		S.	10 9 8	7 6 5
H.S.	8 9	5 4 3 2 1	<u> </u>	32 31 30 29	28 27 26 25 24 23 22 21 20 19 18	<u>=</u>	1		
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terr	Terminal No.	Color of Wire	Signal Name
1	В	GND	27	BB	ı		9	>	ı
3	BR	KEY CYL LOCK	28	٨	1		7	P.	1
11	Υ	COM	31	>	ı		8	В	ı
-,									

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POWER DOOR LOCK SYSTEM

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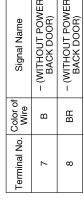
		А
POWER WINDOW AND DOOR LOCKUNLOCK SWITCH RH (WITH LEFT AND RIGHT FRONT AUTO UP/DOWN) WHITE	0301 WIRE TO WIRE WHITE For a 9 10 11 12 Cof Signal Name	В
Mire B B B B B B B B B B B B B B B B B B B	D301 MHE T	C
	No. Color Co	D
Connector No. Connector Name Connector Color H.S. 3	Connector No. D301 Connector Name WIRE TO WIRE Connector Color WHITE	Е
		F
POWER WINDOW AND BOOR LOCK/UNLOCK SWITCH RH (WITH LEFT FRONT ONLY AUTO DOWN) WHITE I 2 3 4 5 6 7 8 9 10 11 12 12 12 13 4 5 10 11 12 13 4 5 10 11 12 13 4 5 10 11 12 13 4 5 10 11 12 13 4 5 10 11 12 13 10 11 12 13 10 11 12 13 10 11 12 13 10 11 12 13 10 11 12 13 10 11 12 13 10 11 12 13 10 11 12 13 13 13 13 13 13	D205 REAR DOOR LOCK ACTUATOR LH GRAY Tref Signal Name R	G
D125 POWER DOOR LL SWITCH FRONT C	PD205 REAR DO GRAY GRAY REAR DO GRAY R R R R R R R R R R R R R R R R R R R	Н
		I
Connector No. Connector Name Connector Color H.S. 1 2 2 2 3	Connector No. Connector Name Connector Color H.S. Terminal No. Www. Www. Www. Www. Www. Www. Www. Ww	J
		DLK
Connector No. D114 Connector Name FRONT DOOR LOCK ACTUATOR RH Connector Color GRAY LS. (6 5 4 3 2 1) Terminal No. Color of Signal Name 1 LG - 2 Y -	E TO WIRE TE Signal Name	L
PHONT ACTUAL GRAY or of fire	D201 WHRE TO OF OF THE TO	
No. D11. Color of ACT Color of Color o	No. D20 Color WHI Color of BR L	Ν
Connector No. Connector Color Connector Color H.S. 1 L. 2	Connector No. D201 Connector Name WIRE TO WIRE Connector Color WHITE	0

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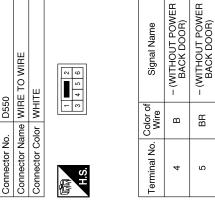
Connector No.	D502
Connector Name	Connector Name WIRE TO WIRE
Connector Color	GRAY

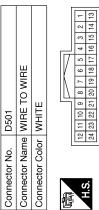
Signal Name	– (WITHOUT POWER BACK DOOR)	– (WITHOUT POWER BACK DOOR)
Color of Wire	В	BR
erminal No. Wire	7	8



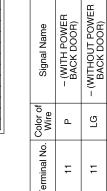


D550

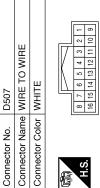


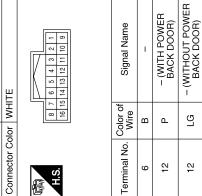


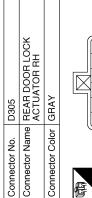
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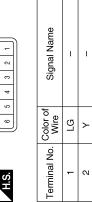


Signal Name	– (WITH POWER BACK DOOR)	- (WITHOUT POWER BACK DOOR)	-
Color of Wire	Р	LG	В
Ferminal No. Wire	11	=	23









D505	WIRE TO WIRE	VHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	

L O WILL	TE	H.S.	Signal Name	– (WITHOUT POWER BACK DOOR)	- (WITHOUT POWER BACK DOOB)
2	lor WH		Color of Wire	В	BR
Connector Color WHITE	Connector Color WHITE		Terminal No.	4	5

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POWER DOOR LOCK SYSTEM

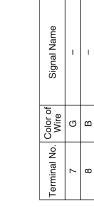
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Connector No.	D565
Connector Name	Connector Name ASSEMBLY (WITHOUT POWER BACK DOOR)
Connector Color WHITE	WHITE

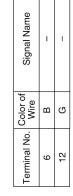
	4 3 2 1	
7	ι	

of Signal Name	ı	ı	-	1
Color Wire	BR	В	9	В
Terminal No. Wire	٦	2	3	4

Connector No.	D557
Connector Name	Connector Name ASSEMBLY (WITH POWER BACK DOOR)
Connector Color WHITE	WHITE







<u></u>	-	
Connector Name	Connector Color	
 Connec	Connec	唇

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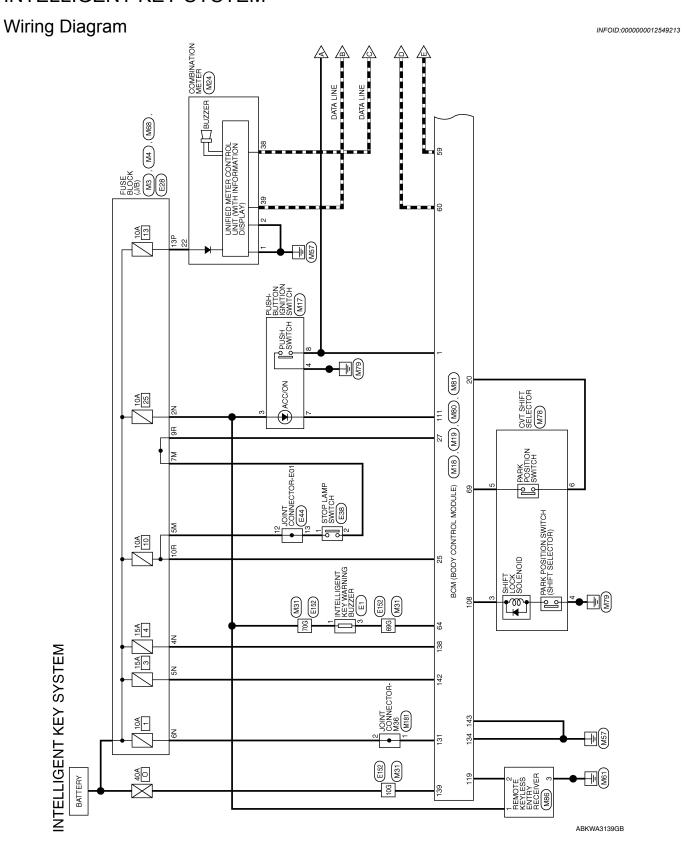
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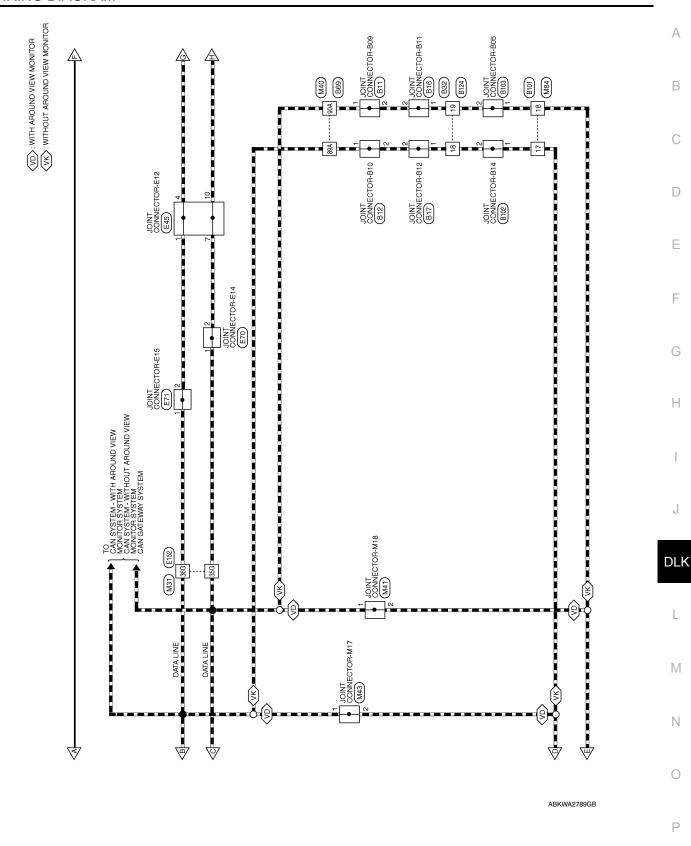
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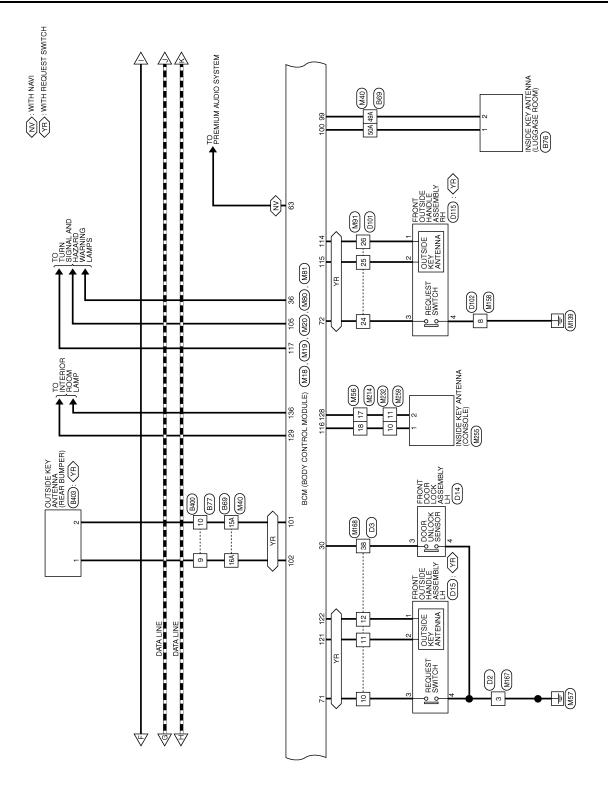
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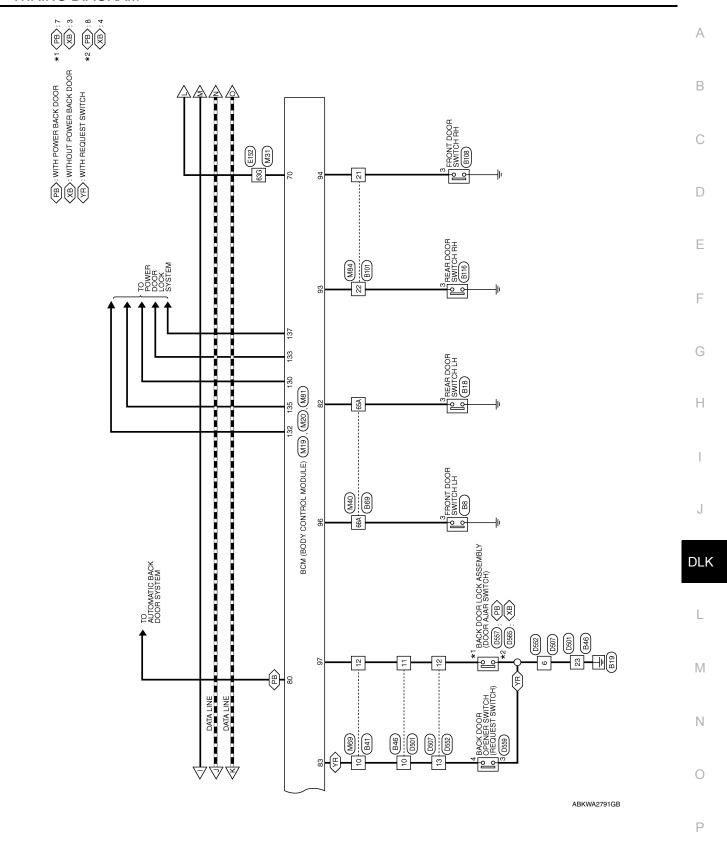


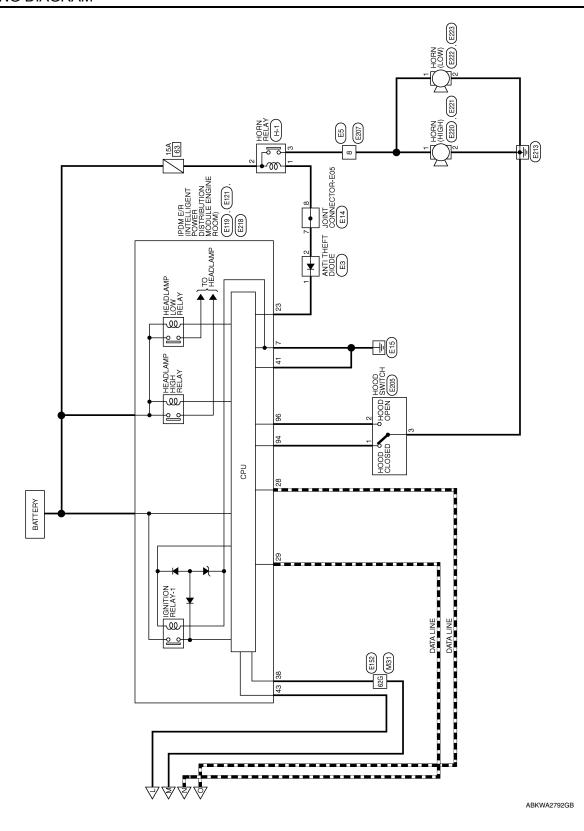


Revision: November 2015 DLK-75 2016 Pathfinder



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INTELLIGENT KEY SYSTEM CONNECTORS

M4	Connector Name FUSE BLOCK (J/B)	WHITE	7P 6P 5P 4P 3P 2P 1P 16P 15P 12P 11P 10P 9P 8P	r of Signal Name	1			
	or Name	Connector Color WHITE	7P 6F 16P 15I	Terminal No. Wire	Α			
Connector No.	Connect	Connect	南 H.S.	Termina	13P			
	Connector Name FUSE BLOCK (J/B)	IITE	3N N N N N N N N N N N N N N N N N N N	f Signal Name	ı	I	1	ı
). M3	ame FU	olor WF	NE N8	Color o Wire	BG	۸	Υ	8
Connector No.	Connector Na	Connector Color WHITE	研 H.S.	Terminal No. Wire	2N	4N	NS	N9

						42 41 62 61										
		BCM (BODY CONTROL MODULE)	BLACK			51 50 49 48 47 46 45 44 43 71 70 69 68 67 66 65 64 63	Signal Name	CAN-L	CAN-H	I-KEY LINK SIGNAL	BUZZER OUT	AT DEVICE OUT	IGN USM OUT1	DR REQUEST SW	AS REQUEST SW	BACK DOOR OPEN SW
-	M19		\vdash			55 54 53 52 75 74 73 72	Color of Wire	۵	_	BG	۵	თ	۵	œ	თ	<u>~</u>
	Connector No.	Connector Name	Connector Color	Œ	H.S.	60 59 58 57 56 8 80 79 78 77 76 7	Terminal No.	59	09	63	64	69	70	71	72	80

					2 1 22 21							
	BCM (BODY CONTROL MODULE)	GREEN			8 7 6 5 4 3 28 27 26 25 24 23	Signal Name	ENG START SW	SHIFT P	BRAKE SW FUSE	BRAKE SW LAMP	DR DOOR LOCK STATUS	HAZARD SW
. M18		_			15 14 13 3 35 34 33 3	Color of Wire	ŋ	>	>	ŋ	۵	>
Connector No.	Connector Name	Connector Color	僵	H.S.	20 19 18 17 16 15 14 13 12 11 10 9 8 40 38 37 38 37 38 38 38 37 38 38 38 39 39 39 39 39 39 39	Terminal No.	1	20	25	27	30	36

Connector No.	M17	
Connector Name PUSH-BUTTON	ime PUS IGN	PUSH-BUTTON IGNITION SWITCH
Connector Color WHITE	lor WHI	TE
赋 H.S.	4 10	8 3
Terminal No.	Color of Wire	Signal Name
3	BG	ı
4	В	1

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Connector No.	o. M20	/ (BODY	Terminal No.	Color of Wire	Signal Name	Connector No.	M24 COM	Connector No. M24 Connector Name COMBINATION METER
	loo 2	CONTROL MODULE)	26	W	BACK DOOR SW	Connector Color	WHITE	
Connector Color	olor GRAY	47	66	۵	ROOM ANT 3 B			
ſ	L		100	>	ROOM ANT 3 A	管		
			101	В	REAR BUMPER ANT B	S I		
H.S.	4 103 102 101 11	92 91 90 89 88 87 86 85 84 83 82 81 104 107 101 101 99 98 97 96 95 94 93	102	g	REAR BUMPER ANT A		Ī	7
	201	5				20 19 18 17 16 15 40 39 38 37 36 35	14 13 12 34 33 32	11 10 9 8 7 6 5 4 3 2 1 31 30 29 28 27 26 25 24 23 22 21
Terminal No.	Color of Wire	Signal Name					Color of	N Company
82	>	RL DOOR SW				leffillia No.	Wire	olgilal Ivalile
83	BG	BACK DOOR REQUEST SW				- 0	<u>а</u> а	GND1
93	Я	RR DOOR SW				22	>	BAT
94	G	AS DOOR SW				38	_	CAN-L
96	BG	DR DOOR SW				39		CAN-H
Connector No. M31	o. M31		Terminal No.	Color of Wire	Signal Name			
Connector Color	olor WHITE	1 L	10G	3	ı			
	_		35G	۵	1			
			36G	_	ı			
Y.		16 26 36 46 56	62G	G	1			
		6G 7G 8G 9G 10G	63G	Ь	1			
			969	۵	ı			
	11G12G	11G12G13G14G15G16G17G18G19G20G21G	70G	BG	ı			
	316326							
	516526	51G 52C 53C 54G 55C 56C 57C 58C 59C 60C 61G 62C 62C 62C 62C 62C 62C 62C 62C						
	716726	71G 72G 73G 74G 75G 76G 77G 78G 79G 80G 81G 82G 83G 84G 85G 86G 87G 86G 87G 86G 87G 86G 87G 87G 88G 87G 87G 87G 87G 87G 87G 87						
		910 920 930 940 956 960 970 980 990 1000						

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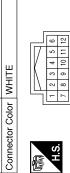
Connector No. M41	Connector Color WHITE			ď			Color of	l erminal No. Wire Signal Name	2 P P - 1					Connector No. M68	Connector Name FUSE BLOCK (U/B) Connector Color BROWN	जिते अ हम । जा सामा निर्मा	Ŋ.	Terminal No. Color of Signal Name	9R G	10R W -		B C D
]]	F
Signal Name	ı	1	I	1	1	1	1	1							IO WIKE		4 5 6 7 8 9 10 11 12 16 17 18 19 20 21 22 23 24	Signal Name	1	1		G
Color of Wire	æ	ŋ	Ъ	M	×	BG	_	۵). M56	ame WIRE		1 2 3 4 13 14 15 16	Color of Wire	æ	*		
Terminal No.	15A	16A	49A	50A	65A	66A	89A	90A						Connector No.	Connector Name WIRE 10 WIRE		<u>જ</u>	Terminal No.	17	18		J
			F																			DLK
TO WIDE				14 24 34 44 5A	6A 7A 8A 9A 10A		11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A	22A 23A 24A 25A 26A 27A 28A 29A 30A	31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A	51A 52A 53A 54A 55A 56A 65A 68A 69A 70A 62A 63A 64A 65A 66A 67A 68A 69A 70A	71 A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A 82A 83A 84A 85A 86A 87A 88A 89A 90A	91A 92A 93A 94A 95A	96A 97A 98A 99A100A		Connector Name JUIN CUNNECTOR-M17	2 1	ī	Signal Name	1	ı		L
). M40	Jor Salar						11A 12A	22A	31A 32A 42A	51A 52A 62A t	71A 72A 82A 8). M43	ame JOIN	4 3	<u>,</u>	Color of Wire	_	7		N
Connector No. M40	Connector Color			V										Connector No.	Connector Name JOINT Connector Color WHITE		H.S.	Terminal No.	-	2		0
																			ABł	KIA47	708GB	Р

Revision: November 2015 DLK-81 2016 Pathfinder

t	WIRE TO WIRE	=	7	8 7 6 5 4 3 2 1 24 23 22 21 20 19 18 17	Signal Name	ı	1	1	ı
. M84		lor WH		11 10 9 27 26 25	Color of		۵	g	Œ
Connector No.	Connector Name	Connector Color WHITE	原 H.S.	16 15 14 13 12 11 10 9 8 32 31 30 29 28 27 26 25 24	Terminal No.	17	18	21	22

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

Ö	Color of	ဝိ	ا ا	1			Ľ
24 23 22 21 20 19 18	26 25	27	29 28	2	30	31	32
8 7 6 5 4 3 2	10 9	Ξ	15 14 13 12	=	-		16
		Ť					
					(Ó	H.S.	優工
ITE	WHITE	Connector Color	5	용	<u> ĕ</u>	=	ပိ
Connector Name WIRE TO WIRE	WIF	ame	Z	얹	ĕ	u	ပိ
	NO	o	COLLINGIA INC.	€.	ĭ	=	3



Connector Name CVT SHIFT SELECTOR

Connector No. M78

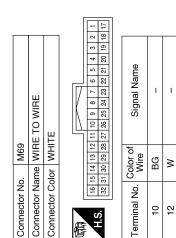
Signa					
Color of Wire	GR	В	В	Α	
Ferminal No.	3	4	2	9	

7

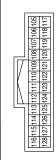
M81	BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name BCM (BODY CONTROL M	Connector Color WHITE	



Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT
130	рп	DOOR UNLOCK AS
131	Μ	BAT BCM FUSE
132	BR	DOOR LOCK RR/RL
133	Ь	DOOR UNLOCK RR/RL
134	В	GND 2
135	٦	DOOR LOCK DR/AS/FL
136	ГС	ROOM LAMP CONT
137	^	DOOR UNLOCK DR/FL
138	۸	BAT REAR DOOR
139	Μ	BAT POWER F/L
142	\	BAT FRONT DOOR
143	В	GND 1



	M80	Connector Name BCM (BODY CONTROL MODULE)	BLACK
	Connector No.	Connector Name	Connector Color BLACK





Signal Name	FR FLASHER	SHIFT LOCK SOLENC OUT	ACC LED	AS DOOR ANT A	AS DOOR ANT B	ROOM ANT A	FL FLASHER	RF NIMOCO	DR DOOR ANT B	DR DOOR ANT A	BOOM ANT B
Color of Wire	LG	GR	Ь	>	BG	>	SB	ш	В	Ь	<u>«</u>
 Terminal No.	105	108	111	114	115	116	117	119	121	122	128

9

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< WIRING DIAGRAM >

Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE
Connector No. M86 Connector Name REMOTE KEYLESS ENTRY RECEIVER Connector Color of Signal Name 1 BG

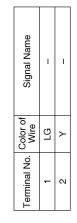
Revision: November 2015 DLK-83 2016 Pathfinder

Connector No. M255	M255
Connector Name	Connector Name INSIDE KEY ANTENNA (CONSOLE)
Connector Color GRAY	GRAY
	≪

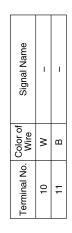
Signal Name	ı	I	
Color of Wire	Μ	В	
Terminal No. Wire	1	2	



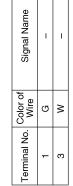


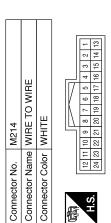






Connector No.	E1
Connector Name	Connector Name INTELLIGENT KEY WARNING BUZZER
Connector Color BROWN	BROWN
1	<







Connector No.	Š.	M259	32								
Connector Name WIRE TO WIRE	Name	⋝	22		0	I≅		l			
Connector Color WHITE	Color	⋛	∓	Ш							
僵			_	- 11\	- 11	- IV	- 117				
ΣĮ	12 11 10 9	10		8	7	9	2	4	က	2	-
5	24 23 22 21 20 19 18 17 16 15 14 13	22	21	20	19	18	17	16	15	14	13
		1	1	1	1	1	1	1	1	1	1

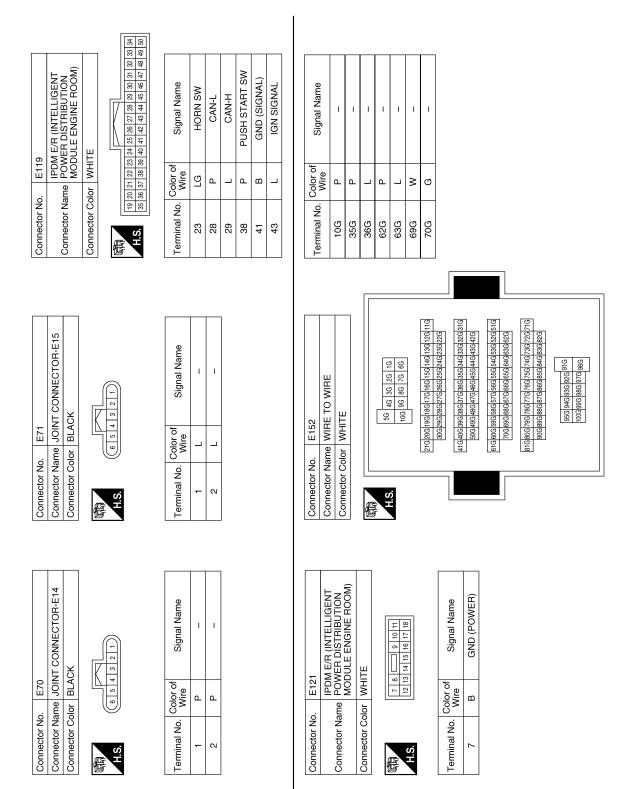
Signal Name	-	ı
Color of Wire	Μ	В
Terminal No.	10	11

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< WIRING DIAGRAM >

Connector No. E5 Connector Name WIRE TO WIRE Connector Color WHITE	IE TO WIRE	Connector No. E14 Connector Name JOINT CONNECTOR-E05 Connector Color BLACK	8 8 8	Connector No. E28 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	E BLOCK (J/B)	
H.S.	8 9 10 11 12 13 14 15 16	H.S. [12] 11] 10] 9 8 7 6 5 4 3 2 1]		ν <u>i</u>	4M 3M	
Terminal No. Color of Wire 8	Signal Name	Terminal No. Color of Signal Name 7 Y	T P	Terminal No. Color of Wire 5M Y 7M R	Signal Name	ф В
Connector No. E38 Connector Name STOP LAMP SWITCH Connector Color WHITE	P LAMP SWITCH	Connector No. E44 Connector Name JOINT CONNECTOR-E01 Connector Color WHITE	0 0 0	Connector No. E45 Connector Name JOINT CONNECTOR-E12 Connector Color BLUE	17 CONNECTOR	3-E12
H.S.	⊗ 4	H.S.	E T	S. S.	8	2 -
No. Co	Signal Name	ON .	Ter	Terminal No. Color of Wire	Signal Name	ae l
2 B	ı	13 Y -		4 L 7 P 10 P	1 1 1	
N	L	G H	E	D	В	

Revision: November 2015 DLK-85 2016 Pathfinder



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< WIRING DIAGRAM >

				А
POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE	Signal Name HOODSW 2 HOODSW	(wo)	Signal Name	В
ctor No.	Terminal No. Color of Wire 94 LG 96 R	Connector No. E222 Connector Name HORN (LOW) Connector Color BLACK N. H.S.	Terminal No. Color of Wire G	C
Conne	Termi	Conne Conne	Termi	Е
				F
O WIRE	Signal Name	НІЗН)	Signal Name	G H
Connector No. E207 Connector Name WIRE TO WIRE Connector Color WHITE	al No. Color of Wire G	Connector No. E221 Connector Name HORN (HIGH) Connector Color BLACK H.S.	al No. Color of Wire B	I
Connec Connec H.S.	Terminal No.	Connee Connee Connee	Terminal No.	J
				DLK
TCH (C)	Signal Name	fi	Signal Name	L
HOOD SWI'		E220 HORN (HIG BLACK		M
ctor No.	Terminal No. Color of Wire 1 LG 2 R 3 B	octor No. ector Name ector Color	Terminal No. Color of Wire 1 G	N
Conne Conne Conne	Term	Conne	ABKIA7215GB	0

Revision: November 2015 DLK-87 2016 Pathfinder

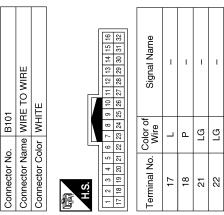
< WIRING DIAGRAM >

Connector No. B11 Connector Name JOINT CONNECTOR-B09 Connector Color WHITE The state of the sta	Terminal No. Color of Wire Signal Name 1 P	Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color WHITE Terminal No. Color of Signal Name 1 L
Connector No. B8 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE	Terminal No. Color of Signal Name 3 L –	Connector No. B16 Connector Name JOINT CONNECTOR-B11 Connector Color WHITE Terminal No. Vire Signal Name 1 P
Connector No. E223 Connector Name HORN (LOW) Connector Color BLACK ##S	Terminal No. Color of Wire Signal Name	Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE H.S. Terminal No. Color of Signal Name 1

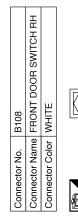
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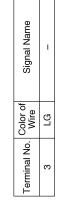
TO WIRE	10 11 12 13 14 15 16 26 27 28 29 30 31 32	Signal Name	Signal Name	
Connector Name WIRE TO WIRE Connector Color WHITE	3 4 5 6 7 8 9 9 20 21 22 23 24 25	Color of Wire	No. Color of Wire S W W W W W W W W W W W W W W W W W W	
Connec	H.S. 17 18 17 18 14 14 14 14 14 14 14 14 14 14 14 14 14	Terminal No. 10 12	Terminal No. 15A 16A 49A 65A 66A 89A 89A 89A 90A	
WIRE	5 4 3 2 1 21 20 19 18 17	Signal Name	B69	
Connector Name WIRE TO WIRE Connector Color WHITE	77 56 25 24 23 22	Color of Wire L	Connector No. B69 Connector Name WIRE TO WIRE Connector Color GRAY 10A 9A 8A 7A 10A 9A 8A 7A 10A 9A 8A 7A 6A 9A 10A 9A 8A 8A 7A 10A 9A 8A 8A 7A 6A 9A 10A 9A 9A 9A 9A 9A 9A 10A 9A 9A 10A 9A 9A 9A 10A 9A 10A 9A 9A 9A 10A 9A 10A 9A 9A 9A 10A	
Connector Name WIRE T	H.S. 16 15 14 13 12 11 10 9 8 22 31 30 23 28 27 28 29 24	Terminal No.	Connector No. Connector Name Connector Color ALS.	
Connector Name REAR DOOR SWITCH LH Connector Color WHITE	4	Signal Name	TO WIRE E 6 7 8 9 10 111 12 18 19 20 21 22 23 24	
me REAR [- 2	Color of Wire SB	Or of fire 3 4 5 5 16 17 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Connector Name Connector Color	ь	Terminal No.	Connector No. Connector Name Connector Color Terminal No. To 10 11 23 Galanta	

Revision: November 2015 DLK-89 2016 Pathfinder

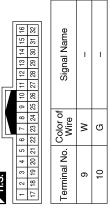


Signal Name	1	ı	ı	1
Color of Wire	_	Ь	ГG	LG
Terminal No. Wire	17	18	21	22











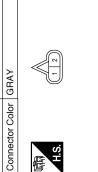


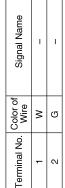
Signal Name	I	_
Color of Wire	Ь	Ь
Terminal No.	1	5



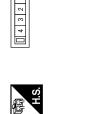
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Connector No.









Signal Name	1	_
Color of Wire	Τ	٦
Terminal No.	1	2

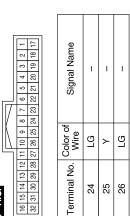
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< WIRING DIAGRAM >

Connector No. B400 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE WHITE	Connector No. D3 Connector Name WIRE TO WIRE	A B C D
Connector No. B124	Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE	F G H
Connector Name REAR DOOR SWITCH RH Connector Color WHITE Terminal No. Color of Signal Name 3 LG -	Connector No. B403 Connector Name OUTSIDE KEY ANTENNA Connector Color GRAY Terminal No. Color of Signal Name 1 W - 2 G -	L M N

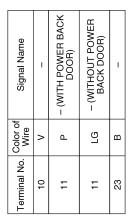
Revision: November 2015 DLK-91 2016 Pathfinder

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



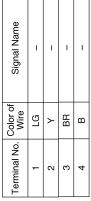


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				6	15	ı
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	H		l 17	2	17	ı
	>		I IV	9	8	ı
	잍	111	l IN	_	9	ı
Ξ	끭	Ξ		8	24 23 22 21 20 19 18 17 16 15 14 13	ı
D501	ا≝ا	Η		6	21	ı
	>	^		9	22	ı
	l e	lor		12 11 10	23	ı
8	Na	လ		12	24	ı
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE		É	Б	



Connector Name FRONT OUTSIDE HANDLE ASSEMBLY LH Connector Color BLACK	Connector No. D15
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Signal Name	ı	_	ı	-	
Color of Wire	LG	У	BR	В	
rminal No.	1	2	က	4	





H.S.

Signal Name

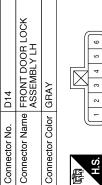
Color of Wire

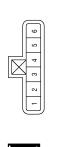
Terminal No.

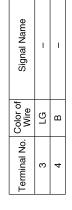
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Signal Name	1	ı	ı	-
Color of Wire	LG	>	LG	В
Terminal No. Wire	Į.	2	3	7







D102	Connector Name WIRE TO WIRE	or WHITE	10 9 8 7 6 5
Connector No.	Connector Nam	Connector Color WHITE	H.S.

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Connector No.	. D557	7
Connector Name		BACK DOOR LOCK ASSEMBLY (WITH POWER BACK DOOR)
Connector Color	lor WHITE	TE
H.S.	- 4	2 2 3 2 5 9 9 5
Terminal No.	Color of Wire	Signal Name
7	ŋ	ı
8	В	I

Connector No.). D557	7
Connector Name		BACK DOOR LOCK ASSEMBLY (WITH POWER BACK DOOR)
Connector Color WHITE	olor WHI	TE
原 H.S.	- 4	2 2 9 9 9 9
Terminal No.	Color of Wire	Signal Name
7	ŋ	1
8	В	1

			ı				_
2	RE TO WIRE	里	12 13 14 15 16	Signal Name	_	_	ı
. D552	me WIF	lor WH	9 10 11 12	Color of Wire	В	g	>
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	喃 H.S.	Terminal No.	9	12	13

9 10 11 12 13 14 15 16	Signal Name	ı	I	I
9 10 11	Color of Wire	В	5	Μ
Ų.	Terminal No. Wire	9	12	13

Connector No. D507									
Connector No. D50	7	IE TO WIRE	ΠE	13 7 11 10 2		-	– (WITH POWER BACK DOOR)	– (WITHOUT POWER BACK DOOR)	ı
Connector No Connector Na Connector Co H.S. H.S. 12 12 13		me WIF	lor WH	8 7 8 15 11 11	Color of Wire	В	Ф	Pl	>
	Connector No.	Connector Na	Connector Co	刷 H.S.	Terminal No.	9	12	12	13

2	BACK DOOR LOCK ASSEMBLY (WITHOUT POWER BACK DOOR)	TE .	3 8 1	Signal Name	ı	1
. D565	me BAC ASS POV	lor WHI	4	Color of Wire	ŋ	В
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	က	4

Connector No.). D559	6
Connector Na	ame BAC	Connector Name BACK DOOR OPENER SWITCH
Connector Color WHITE	olor WH	ТЕ
H.S.		2 3 4
Terminal No. Color of Wire	Color of Wire	Signal Name
8	В	ı
4	×	1

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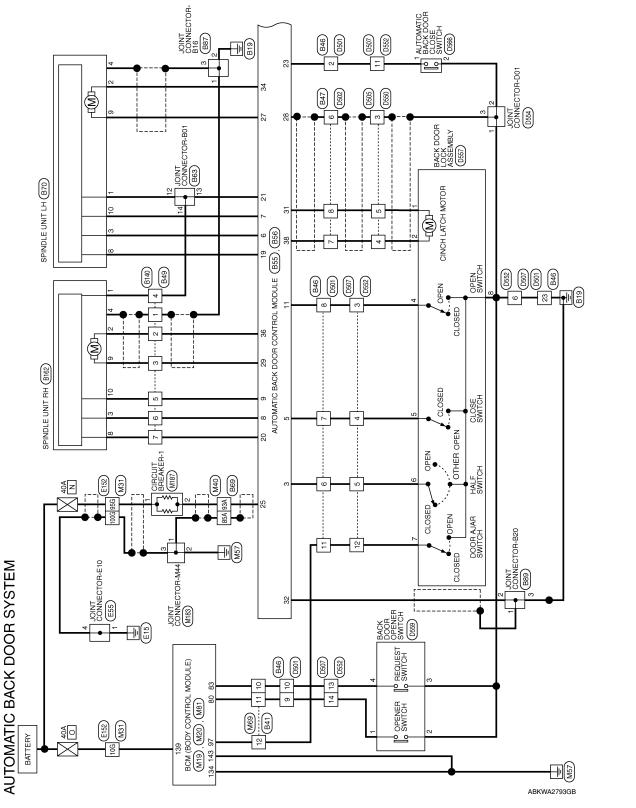
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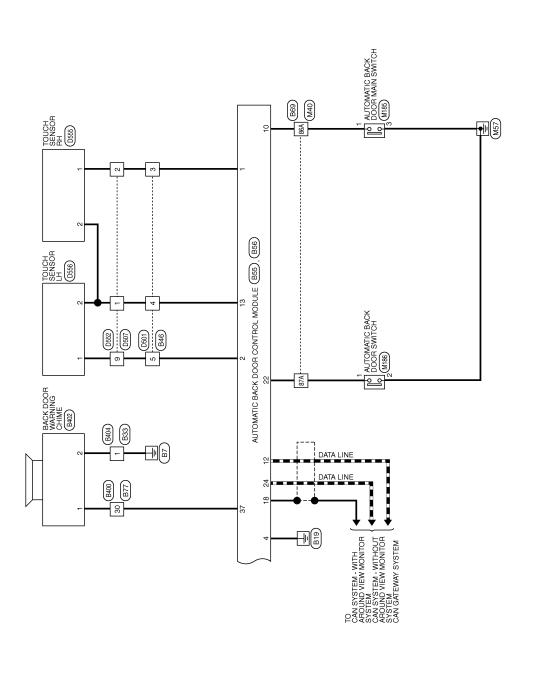
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AUTOMATIC BACK DOOR SYSTEM

Wiring Diagram





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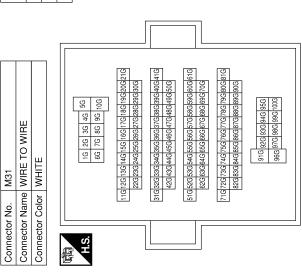
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AUTOMATIC BACK DOOR SYSTEM CONNECTORS

	0:	Connector Name BCM (BODY CONTROL MODULE)	IAY	22 81 90 89 88 78 86 85 84 88 82 81 81 81 81 81 81 81 81 81 81 81 81 81	f Signal Name	BACK DOOR REQUEST SW	BACK DOOR SW
Γ	. M20	ime BC	lor GF	92 91 90 89	Color o Wire	BG	≥
	Connector No.	Connector Na	Connector Color GRAY	(100 B) (100	Terminal No. Wire	83	26
				24	1 62 61		
		Connector Name BCM (BODY CONTROL MODULE)	CK	(1) (2) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	80 79 78 77 76 75 74 73 72 71 70 89 88 67 66 65 64 63 62 61	Signal Name	BACK DOOR OPEN SW
	. M19	me BCN MOI	lor BLA	55 54 53	75 74 73	Color of Wire	ш
	Connector No.	Connector Na	Connector Color BLACK	(京本) H.S.	80 79 78 77 76	Terminal No. Color of Wire	80

Signal Name	_	1	-
Color of Wire	M	В	SHIELD
Terminal No. Wire	10G	95G	100G



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Connector Name WIRE TO WIRE	Connector No. M185 Connector Name AUTOMATIC BACK DOOR MAIN SWITCH Connector Color WHITE Terminal No. Color of Signal Name 1
Signal Name (WITH POWER BACK DOOR)	Connector No. M183
SHIELD B B C C C C C C C C C C C C C C C C C	Color of Wire SHIELD
85A 6 86A 87A 87A 83A	Connector No. M183 Connector Name JOINT Connector Color WHITE M.S. Terminal No. Wire SHIELD 2 B 3 SHIELD
114 24 34 44 54 54 54 54 54 5	M81 M81 M81 M0DULE)
MRE MRE	
Connector Name WIRE TO WIRE Connector Color GRAY	Connector No. Connector Name Connector Color H.S. Terminal No. Color 134 E 134 E 143 E

Revision: November 2015 DLK-97 2016 Pathfinder

_								_	_		_			_			
Connector No. E55	Connector Name JOINT CONNECTOR-E10	Connector Color WHITE		(成) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Terminal No. Color of Signal Name	В П	4 SHIELD –	Connector No. B33	le le	Connector Color BLACK	_		H.S.		Terminal No. Color of Wire 1 B -		
	CIRCUIT BREAKER-1	TE			Signal Name	ı	1		olgnal Name	ı	ı	I					
Connector No. M187	Connector Name CIRC	Connector Color WHITE			al No. Color of Wire	В	В		lal No. Wire	G P	W Ø	OG SHIELD					
Conne	Conne	Conne	[H.S.	Terminal No.		0	H	l erminai No.	10G	95G	100G					
Connector No. M186	Connector Name AUTOMATIC BACK DOOR	SWITCH			nal No. Color of Signal Name	- 57 I	П В	Connector No. E152	e	Connector Color WHITE			56 46 36 26 16 100 96 86 76 66	216206196186176166156146136126116		81 G B00 G 72 G	956 946 956
Conne	Conne		000	唇 图	Terminal No.		2	Conne	Conne	Conne			H.S.				

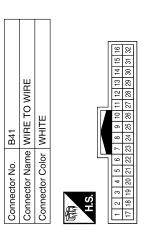
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AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

Signal Name	_	_	I	_	ı	I
Color of Wire	ГG	BR	>	В	ŋ	GR
Terminal No. Wire	2	8	6	10	11	23

Connector No.	۰No		ш	B46									
Connector Name WIRE TO WIRE	·Na	me	>	₹	끭		>	Ħ	Щ				
Connector Color WHITE	ပိ	o	>	¥	E								
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	Ŀ	c	c	11-	u	G	7	۰		0 10 11 12	F	Ę	
ě	-	v	၁	4	ი	0	`	0	'n	2	Ξ	7	
2	13	13 14 15 16 17 18 19 20 21 22 23 24	15	16	17	18	19	20	21	22	23	24	
		l	l	l	l	l	l	l	l	l	l		



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Terminal No.	2	3	4	ц
Signal Name	1	1	ı	
Color of Wire	Œ	8	g	
Terminal No. Wire	10	=	12	

Signal Name

Color of Wire

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Signal Name	-	_	I	-
Color of Wire	LG	٦	BR	\
Terminal No. Wire	4	5	9	7

Connector No.		B49	اما							
Connector Name WIRE TO WIRE	е	₹	쀭	ĭ	>	#	Щ			
Connector Color WHITE	_	₹	╘	ш						
	_	9	r2	4	Ш	┢	8	01	-	
011	16	55	4	13	16 15 14 13 12 11 10	Ξ		6	ω	
6										_

Connector Narr	原
Connector Colc	H.S.

Signal Name	ı	_	1
Color of Wire	SHIELD	Μ	В
Terminal No. Wire	-	2	3

RE TO WIRE	2 3 4 4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name
AR AR	- v	Color of
ame		Colo
Connector Name WIRE TO WIRE Connector Color GRAY	原列 H.S.	Terminal No

B47

Connector No.

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爬	4
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Signal Name	I	- (WITH POWER BACK DOOR)	– (WITH POWER BACK DOOR)	
Color of Wire	SHIELD	W	В	
Terminal No.	9	7	8	

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Signal Name	POWER LH	POWER RH	GND	DRIVER SW	INSIDE CLOSE SW	CAN-H
Color of Wire S	SB	→	re	a s	IISII X	В
Terminal No.	19	20	21	22	23	24

Signal Name	A SIGN LH	B SIGN LH	A SIGN RH	B SIGN RH	MAIN SW	OPEN SW	CAN-L	TOUCH SENS GND	ı	ı	1	-	CAN SHIELD
Color of Wire	>	>	BR	_	БG	BB	Ν	SB	ı	ı	1	ı	SHIELD
Terminal No.	9	7	8	6	10	11	12	13	14	15	16	17	18

Signal Name	TOUCH SENS RH	TOUCH SENS LH	HALF-LATCH-SW	LOGIC	CLOSE SW
Color of Wire	BR	LG	Τ	GR	LG
Terminal No. Wire	-	2	3	4	5

	1				
B63 JOINT CONNECTOR-B01 WHITE	7 6 5 4 3 2 1 18 17 16 15 14 13 12 29 28 27 26 25 24 23	Signal Name	ı	I	1
or ne	22 21 20 19 8 33 32 31 30	Color of Wire	LG	ГG	9
Connector No. Connector Name Connector Color	H.S.	Terminal No.	12	13	14

Terminal No.	Color of Wire	Signal Name
30	-	1
31	В	LATCH MTR OPEN
32	В	GND (POWER 1)
33	-	ı
34	M	LH MTR CLOSE
35	_	1
36	Μ	RH MTR CLOSE
37	ยา	BUZZER
38	Μ	LATCH MTR CLOSE

2	ne AUTOMATIC BACK DOO CONTROL MODULE	or GRAY	4	25 26 2	32 33 34
	MAT 3℃			27 28 29 30	4 35
	ౖ≥			53	36
	BACK			30 31	37 38
	K DOC LE		Г	_	



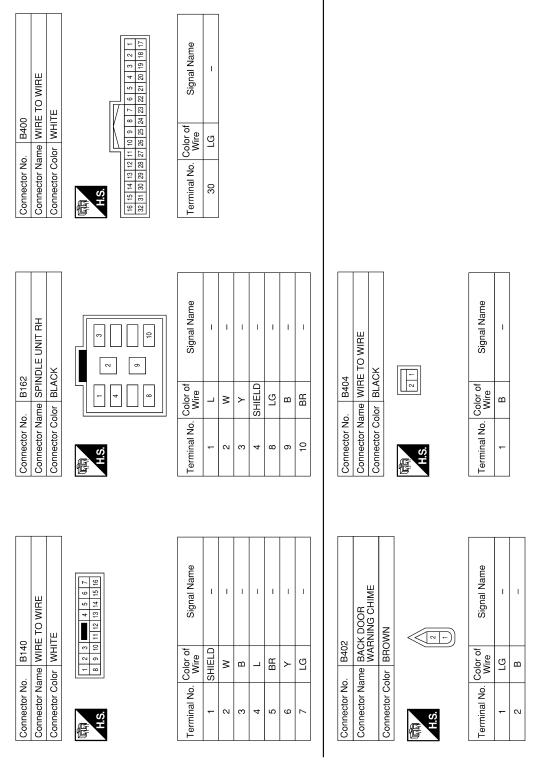
Signal Name	+B	ı	LH MTR OPEN	SHIELD NOISE SHIELD LATCH	RH MTR OPEN	
Color of Wire	В	1	В	SHIELD	В	
Terminal No. Color of Wire	25	26	27	28	29	

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AUTOMATIC BACK DOOR SYSTEM

UNIT LH		[[m]			Signal Name	. 1	1	-	1	1	1 1			Connector Name JOINT CONNECTOR-B20		2 1 0		Signal Name	1	1	ı	
Connector Name SPINDLE UNIT LH	Color BLACK			1 2	4		o. Color of) 	\ \ \	>	SHIELD	SB	m >-	-	No. B89	Name JOINT CC	Color WHITE	4 3 2 1		o. Color of Wire	SHIELD	В	В	
Connector Nan	Connector Color		F	H.S.			Terminal No.	-	2	က	4	∞ α	D 6		Connector No.	Connector	Connector Color	S.H.		Terminal No.	-	2	ဧ	
				ш_												16								
Olginal Ivaline	I	1	ı	– (WITH POWER BACK DOOR)												Connector Name JOINT CONNECTOR-B16		2 1 0		Signal Name	1	1	I	
Wire	SHIELD	<u>5</u>	SB	В											o. B87	ame JOINT	olor WHITE	0 4 3 2 1		Color of Wire	SHIELD	GR	SHIELD	
	85A	86A	87A	93A											Connector No.	Connector N	Connector Color	H.S.		Terminal No.	-	2	က	
																						7		
'O WIRE				4A 3A 2A 1A	110A 94 84 84 74 84 72 84 84 84 84 84 84 84 8	8A 37A 36A 35A 34A 33A 32A 31A	50A 49A 48A 47A 46A 45A 44A 43A 42A	61A 60A 59A 58A 57A 56A 55A 54A 53A 52A 51A	04 074 054 054 054 054	814 804 794 784 774 764 754 744 734 724 714		95A 94A 93A 92A 91A	93A 96A 97A 96A			O WIRE		П	27 28 29 30 31 32	Signal Name	I			
Connector Name WIRE TO WIRE	Color GRAY			94 94	21 A 20 A 19 A 18	41A 40A 39A 36	50A 49A 48	61A 60A 59A 58	70A 69A 60	81A 80A 79A 73		95A	Y001		No. B77	-	Color WHITE		5 6 7 8 9 10 21 22 23 24 25 26	Color of Wire	re	-		
Connector	Connector Color			H.S.											Connector No.	Connector	Connector Color	是 H.S.	17 18 19 20 2	Terminal No.	30			
																					ABK	IA470	5GB	

Revision: November 2015 DLK-101 2016 Pathfinder



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AUTOMATIC BACK DOOR SYSTEM

Connector No.	D505	5
Connector Name		WIRE TO WIRE
Connector Color WHITE	olor WH	ΠE
原 H.S.		S S S S S S S S S S
Terminal No.	Color of Wire	Signal Name
3	SHIELD	-
4	BR/B	– (WITH POWER BACK DOOR)
5	R/G	– (WITH POWER BACK DOOB)

Terminal No. Color of Wire 3 SHIELD 4 BR/B 5 R/G	Signal Nam		– (WITH POW BACK DOOF	– (WITH POW BACK DOOF	
Terminal No.	Color of Wire	SHIELD	BR/B	R/G	
	Terminal No.	3	4	5	

				Signal Name		(WITH POWER BACK DOOR)	(WITH POWER
00	WIRE TO WIRE	正	1 C C C C C C C C C C C C C C C C C C C		'	- (WITH BACK	- (WITH POWE
. D550	me WIF	lor WH		Color of Wire	SHIELD	>	α
Connector No.	Connector Name	Connector Color WHITE	原列 H.S.	Terminal No.	3	4	Ľ

Connector No.		D502
Connector Name	ame W	WIRE TO WIRE
Connector Color GRAY	olor GF	AAY
	4 ¤	2 2 2 1
Terminal No.	Color of Wire	of Signal Name
9	SHIELD	- 0
7	BR/B	– (WITH POWER BACK DOOR)
8	R/G	- (WITH POWER

Signal Name	1	ı	-	1	- (WITH POWER BACK DOOR)	ı	I
Color of Wire	SB	В	Б	BG	Ь	^	ГG
Terminal No. Wire	5	9	6	11	12	13	14

1	WIRE TO WIRE	TE		8 7 6 5 4 3 2 1 20 19 18 17 16 15 14 13	Signal Name	I	ı	ı	-	1	I	1	1	I	– (WITH POWER BACK DOOR)	I
. D501	_	lor WHITE	L	11 10 9	Color of Wire	BG	>	LG	В	SB	٦	ш	ГG	>	Ь	В
Connector No.	Connector Name	Connector Color		H.S. 24	Terminal No.	2	က	4	5	9	7	8	6	10	11	23

lo. D507	Connector Name WIRE TO WIRE	olor WHITE	16 15 14 13 12 11 10 9	Color of Signal Name Wire	- 5T	>	1	
Connector No.	Connector Name	Connector Color WHITE	H.S. 16 15	Terminal No. Wir	1 LG	2 \	3 B	

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AUTOMATIC BACK DOOR SYSTEM

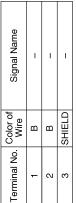


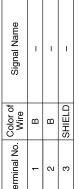
Signal Name

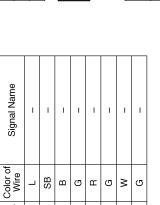
Terminal No.

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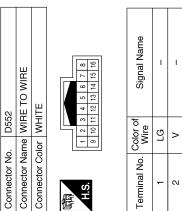






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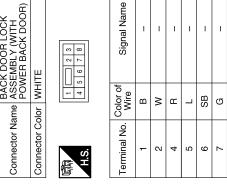
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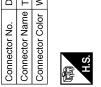




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Name TOUCH SENSOR



Signal Nam	1	-	
Color of Wire	G	ГG	
Terminal No.	1	2	

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Connector No.	D555
Connector Name	Connector Name TOUCH SENSOR RH
Connector Color GRAY	GRAY

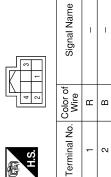




Signal Name	ı	ı
Color of Wire	>	LG
Terminal No.	1	2

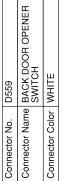
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D266	Connector Name AUTOMATIC BACK DOOR CLOSE SWITCH	GREEN	
Connector No.	Connector Name	Connector Color GREEN	



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2 3 4 Signal Name			
Color of Wire	a	В	///
H.S. Color of Terminal No. Wire	2	က	_

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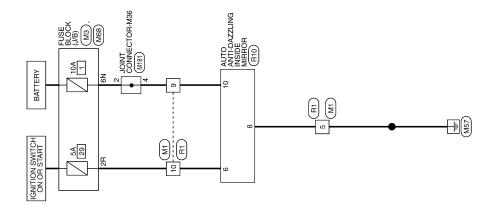
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HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram



HOMELINK UNIVERSAL TRANSCEIVER

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HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

Connector Name FUSE BLOCK (J/B) Connector Color BROWN

Connector No.

HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No. M3	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	3N 2N 1N H.S. 8N 7N 6N 5N 4N
Ŏ	Ŏ	O	
M1	nnector Name WIRE TO WIRE	WHITE	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
nnector No. M1	nnector Name	nnector Color WHITE	1.S.

Connector No.	o. M1		Connec
Connector Name WIRE TO WIRE	ame WIF	RE TO WIRE	Connec
Connector Color WHITE	olor WHI	TE THE	Connec
H.S.	3 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	H.S.
Terminal No. Color of Wire	Color of Wire	Signal Name	Termina
5	В	1	N9
6	>	ı	

No. Color of Wire	Signal Name	Terminal No. Color of Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
В	ı	N9	>	ı	2R	P	ı
Μ	-						
ГС	ı						

ignal Name	Terminal No. Wire	Color of Wire	Signal Name
ı	2R	ГG	1

Signal Name	ı	ı	ı
Color of Wire	В	W	ГG
Terminal No.	5	6	10

_		_	1				_
	Connector Name AUTO ANTI-DAZZLING INSIDE MIRROR	Š	1 2 8 8 2 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	1	1	_
. R10	me AU	lor BL/	4 6	Color of Wire	>	В	9
Connector No.	Connector Na	Connector Color BLACK	雨 H.S.	Terminal No. Color of Wire	9	8	10

	IE TO WIRE	ПЕ	20 19 18 17 16 15 14 13	Signal Name	_	I	1
E	me WIF	lor WH	23 22 21	Color of Wire	В	В	×
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. [12]	Terminal No.	5	6	10

1						
	Connector Name JOINT CONNECTOR-M36	ITE	3 2 1 0	Signal Name	-	ı
	me JOII	lor WH	4	Color of Wire	Μ	>
	Connector Na	Connector Color WHITE	所 H.S.	Terminal No.	2	4

Signa		
Color of Wire	Μ	W
Terminal No.	2	4

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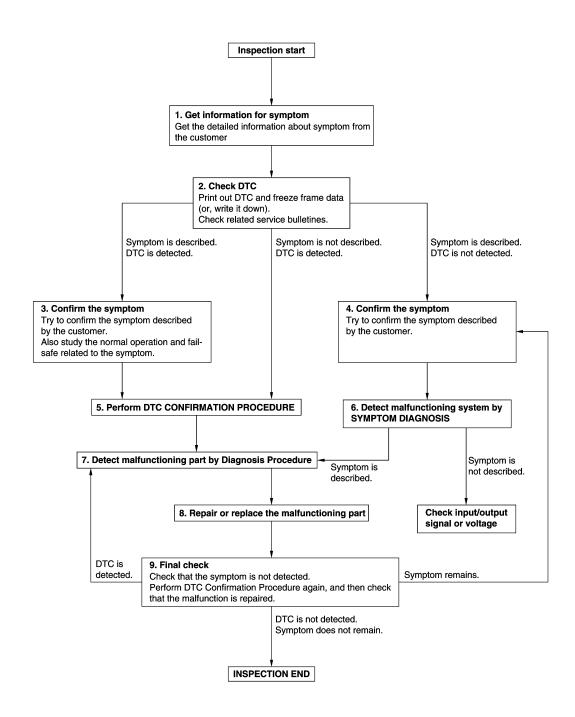
Connector No.

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

- 1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected.>>GO TO 3.

Symptom is described, DTC is not detected.>>GO TO 4.

Symptom is not described, DTC is detected.>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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 detected DTC and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle and check self diagnostic results in real time. If two or more DTCs are detected, refer to BCS-51, "DTC Inspection Priority Chart" (BCM) 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 on 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 CONFIR-MATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-47, "Intermittent Incident".

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-47, "Intermittent Incident".

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description INFOID:0000000012549217

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic back door control system normally.

NOTE:

The following specified operations are not performed under the non-initialized condition.

- Automatic back door open/close function
- Anti-pinch function

Work Procedure

INFOID:0000000012549218

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1.INITIALIZATION

- Fully close the back door manually. (When back door is already fully closed, this operation is not necessary).
- 2. Perform automatic back door open/close operation of back door.
- 3. Check for noise or malfunctioning during operation.
- 4. Check that hazard lamp blinks and that warning buzzer operates.

NOTE:

Never touch back door or allow foreign materials to be pinched in door when performing automatic back door open/close operation of back door until it is in the fully closed or fully open position.

>> Inspection End.

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Revision: November 2015 DLK-111 2016 Pathfinder

ADDITIONAL SERVICE WHEN REPLACING BCM

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING BCM

Description INFOID:000000012549219

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

Work Procedure

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

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description INFOID:000000012549221

When replacing control module or removing connector terminal, it is necessary to perform initial setting to operate automatic back door system normally.

NOTE:

The following specified operations are not performed under the non-initialized condition.

- Automatic back door open/close function
- Anti-pinch function

Work Procedure

INFOID:0000000012549222

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1.INITIALIZATION

- Fully close the back door manually. (When back door is already fully closed, this operation is not necessary.)
- 2. Perform automatic back door open/close operation of back door.
- 3. Check for noise or malfunctioning during operation.
- 4. Check that hazard lamp blinks and that warning buzzer operates.

NOTE:

Never touch back door or allow foreign materials to be pinched in door when performing automatic back door open/close operation of back door until it is in the fully closed or fully open position.

>> Inspection End.

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Revision: November 2015 DLK-113 2016 Pathfinder

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

< BASIC INSPECTION >

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Description INFOID:000000012549223

When the following work is performed, it is necessary to perform initial setting of automatic back door position information to operate automatic back door system.

- · After removing and installing or replacing back door assembly
- · After removing and installing or replacing spindle unit
- · After adjustment or position change of the back door hinges or striker

NOTE:

If the back door reverses and closes while opening with an automatic/power open operation, it is an indication that re-calibration is needed.

Work Procedure

INFOID:0000000012549224

1.STEP 1

Fully close the back door manually.

>> GO TO 2.

2.STEP 2

- 1. Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode.
- 3. Touch "START" to erase automatic back door position information.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic open operation.

NOTE:

At this time, automatic operation of back door is performed at half speed.

>> GO TO 4.

4.STEP 4

- 1. The back door fully opens.
- Check that hazard warning lamp blinks and automatic back door warning buzzer sounds normally.

Does hazard warning lamp blink and automatic back door warning buzzer sound normally?

YES >> GO TO 5.

NO >> GO TO 1.

5.STEP 5

Fully close the back door.

>> Inspection End.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000012549225

Refer to LAN-12, "CAN COMMUNICATION SYSTEM: System Description".

DTC Logic

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. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)	(

Diagnosis Procedure

1. PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.

NO >> Refer to GI-47, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DescriptionINFOID:000000012549228

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

CAN Communication Signal Chart. Refer to <u>LAN-38</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT(CAN)	Automatic back door control unit detected internal CAN communication circuit malfunction.	Automatic back door control module

Diagnosis Procedure

INFOID:0000000012549230

1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

When DTC "U1010: CONTROL UNIT(CAN)" is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	Automatic back door control module cannot detect ignition switch ON signal via CAN communication with BCM.	BCM Automatic back door control module CAN communication system

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Operate automatic back door.
- 3. Check Self Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-117</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

1. CHECK BCM OUTPUT SIGNAL

- 1. Select IPDM E/R using CONSULT.
- 2. Select IGN RLY1-REQ in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
IGN RLY1-REQ	Ignition switch	ON	On
IGN NET I-NEQ	ignition switch	OFF	Off

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>.

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Revision: November 2015 DLK-117 2016 Pathfinder

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2409 HALF LATCH SWITCH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	Automatic back door control module detects a mal- function of half latch switch during automatic oper- ation of back door.	

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Operate automatic back door.
- Check Self Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-118</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012549234

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CHECK HALF LATCH SWITCH MONITOR ITEM

- Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select HALF LATCH SW in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
HALF LATCH SW	Back door	Open/Fully closed	OFF
HALF LATOR SW	Back door	Half latch	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

f 4.CHECK HALF LATCH SWITCH INPUT SIGNAL

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

(+)		Malla a a	
Back door loo	k assembly	(–)	Voltage (Approx.)	
Connector Terminal			,	
D557	6	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK HALF LATCH SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back door control module		Back door lock assembly		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B55	3	D557	6	Yes	

Check continuity between automatic back door control module harness connector and ground.

Automatic back d	oor control module		Continuity
Connector Terminal		Ground	Continuity
B55	3		No

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to DLK-292, "Removal and Installation".
- NO >> Repair or replace harness.

O.CHECK HALF LATCH SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock	assembly		Continuity	
Connector Terminal		Ground	Continuity	
D557	8		Yes	

Is the inspection result normal?

YFS >> GO TO 7.

NO >> Repair or replace back door lock assembly ground circuit.

7. CHECK HALF LATCH SWITCH

Refer to DLK-120, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to DLK-279, "DOOR LOCK: Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

COMPONENT INSPECTION

DLK-119 Revision: November 2015 2016 Pathfinder DLK

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B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK SWITCH

- 1. Turn ignition switch OFF.
- Disconnect back door lock assembly connector. Check continuity between back door lock assembly terminals.

Back door lock assembly Terminal		Condition		Continuity
4	8	Fully closed/Half latch	No	
5		Fully closed	Yes	
5		Open/Half latch	No	
6		Open/Fully closed	No	
O		Half latch	Yes	
7		Back door switch	Open	Yes
,			Closed	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to DLK-279, "DOOR LOCK: Removal and Installation".

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B2416 TOUCH SENSOR RH

DTC Logic INFOID:0000000012549236

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2416	TOUCH SEN R OPEN	Automatic back door control module detects a mal- function of touch sensor RH during automatic oper- ation of back door.	Improper installation of touch sensor Touch sensor RH Harness or connectors Automatic back door control module

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-121</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.

Refer to DLK-280, "TOUCH SENSOR: Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to DLK-280, "TOUCH SENSOR: Removal and Installation".

2. CHECK TOUCH SENSOR MONITOR ITEM

- Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select TOUCH SEN RH in DATA MONITOR mode.
- Check that the function operates normally according to the following conditions.

Monitor item	C	Status	
TOUCH SEN RH	Touch sensor RH	Other than below	OFF
TOOCH SENTI	TOUCH SENSOL KIT	Detect obstruction	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 3.

3.CHECK TOUCH SENSOR INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between touch sensor RH harness connector and automatic back door control module harness connector.

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B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

((+)	(-	-)			
Touch s	ensor RH		door control mod- ile	Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D555	1	B55	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
D333	!	600	13	RH	Other than above	2.72 – 7.27 V

Is the inspection result normal?

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

4. CHECK TOUCH SENSOR RH CIRCUIT

- 1. Disconnect automatic back door control module and touch sensor RH connector.
- Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	or control module	Touch sensor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	1	D555	1	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back do	or control module		Continuity	
Connector	Terminal	Ground	Continuity	
B55	1		No	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR RH GROUND CIRCUIT 1

- Disconnect automatic back door control module and touch sensor RH connector.
- Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Touch sensor RH	
Connector	Terminal	Connector	Connector Terminal	
B55	13	D555	2	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK TOUCH SENSOR RH GROUND CIRCUIT 2

- Connect automatic back door control module and touch sensor RH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

	(+)		Valla	
Automatic back of	Automatic back door control module		Voltage (Approx.)	
Connector	Terminal		,	
B55	13	Ground	0.01 – 0 V	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

7. CHECK TOUCH SENSOR RH

Refer to DLK-123, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace touch sensor RH. Refer to <u>DLK-280, "TOUCH SENSOR: Removal and Installation".</u>

8.check intermittent incident

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TOUCH SENSOR RH

- Turn ignition switch OFF.
- 2. Disconnect touch sensor RH connector.
- Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition		Resistance
Terr	ninal			(Approx.)
1	2	Touch sensor RH	Detect obstruction	380 – 420 kΩ
ı	2	Touch sensor Kir	Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor RH. Refer to <u>DLK-280, "TOUCH SENSOR: Removal and Installation"</u>.

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Revision: November 2015 DLK-123 2016 Pathfinder

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

B2417 TOUCH SENSOR LH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2417	TOUCH SEN L OPEN	Automatic back door control module detects a mal- function of touch sensor LH during automatic oper- ation of back door.	• Injich sensor I H

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-124</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012549240

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.

Refer to DLK-280, "TOUCH SENSOR: Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-280</u>, "TOUCH SENSOR: Removal and Installation".

2.CHECK TOUCH SENSOR MONITOR ITEM

- 1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select TOUCH SEN LH in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	C	Status	
TOUCH SEN LH	Touch sensor LH	Other than below	OFF
TOGOTT GEN ETT	TOUCH SCHSOLETT	Detect obstruction	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 3.

3.CHECK TOUCH SENSOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Check voltage between touch sensor LH harness connector and automatic back door control module harness connector.

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

((+)	(-	-)			
Touch s	ensor LH		door control mod- le	Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D556	1	B55	12	Touch sensor	Detect obstruc- tion	1.8 – 5 V
D330	'	B00	13	13 Iouch sensor LH		2.72 – 7.27 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control module and touch sensor LH connector.

Check continuity between automatic back door control module harness connector and touch sensor LH harness connector.

Automatic back do	or control module	Touch sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	2	D556	1	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Connector Terminal		Continuity
B55	2		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR LH GROUND CIRCUIT 1

Disconnect automatic back door control module and touch sensor LH connector.

Check continuity between automatic back door control module harness connector and touch sensor LH harness connector.

Automatic back do	tomatic back door control module Touch sensor I		Touch sensor LH		
Connector	Terminal	Connector Terminal		Continuity	
B55	13	D556	2	Yes	

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK TOUCH SENSOR LH GROUND CIRCUIT 2

- Connect automatic back door control module and touch sensor LH connector.
- Check voltage between automatic back door control module harness connector and ground.

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B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

Automatic back	(+) Automatic back door control module		Voltage (Approx.)
Connector	Connector Terminal		(Αρβίολ.)
B55	13	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

7.CHECK TOUCH SENSOR LH

Refer to DLK-126, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace touch sensor LH. Refer to DLK-280, "TOUCH SENSOR: Removal and Installation"

8. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549241

1. CHECK TOUCH SENSOR LH

- 1. Turn ignition switch OFF.
- Disconnect touch sensor LH connector.
- Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition		Resistance (Approx.)
Terminal				
1 2		Touch sensor LH	Detect obstruction	380 – 420 kΩ
'	2	TOUCH SENSOR LIT	Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor LH. Refer to <u>DLK-280, "TOUCH SENSOR: Removal and Installation"</u>.

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2419 OPEN SWITCH

DTC Logic INFOID:0000000012549242

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2419	OPEN SW	Automatic back door control module detects a mal- function of open switch during automatic operation of back door.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Open switch Harness or connectors

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-127</u>, "<u>Diagnosis Procedure</u>".

>> Inspection End. NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YFS >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK OPEN SWITCH SIGNAL

- Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select OPEN SW in DATA MONITOR mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
OPEN SW	Back door	Fully closed/Half latch OFF	
OF LIN SW	Dack door	Open	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4.CHECK OPEN SWITCH INPUT SIGNAL

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B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check voltage between back door lock assembly harness connector and ground.

(+) Back door loc	,	(-)	Voltage (Approx.)
Connector	Terminal		(· .pp. 6/11)
D557	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK OPEN SWITCH CIRCUIT

- 1. Disconnect automatic back door control module connector.
- 2. Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back d	oor control module	Back door lock assembly		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B55	11	D557	4	Yes	

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	11		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

O.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly			Continuity
Connector	Connector Terminal		Continuity
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK OPEN SWITCH

Refer to DLK-129, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "DOOR LOCK: Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549244

COMPONENT INSPECTION

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check continuity between back door lock assembly terminals.

Back door loc	Back door lock assembly Terminal		Condition	Continuity
Termi			Condition	
4			Open	Yes
4			Fully closed/Half latch	No
5		Back door lock	Fully closed	Yes
3	0	8	Open/Half latch	No
6	0		Open/Fully closed	No
0			Half latch	Yes
7	7 Back do switch	Back door	Open	Yes
,		switch	Closed	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2420 CLOSE SWITCH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2420	CLOSE SW	Automatic back door control module detects a mal- function of close switch during automatic operation of back door.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Close switch Harness or connectors

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-130</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012549246

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK CLOSE SWITCH SIGNAL

- 1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select CLOSE SW in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condit	Status	
CLOSE SW	Rack door	Open/Half latch	OFF
	Back door	Fully closed	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4. CHECK CLOSE SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

\sim	D:		lock assembly	
_	Lugconnect	nack door	inck accominiv	CONDECIOE

3. Check voltage between back door lock assembly harness connector and ground.

(+)			Valtana	
Back door lock assembly		(–)	Voltage (Approx.)	
Connector	Terminal		,	
D557	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control module connector.

2. Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back de	oor control module	Back door lock assembly		Continuity
Connector	Connector Terminal		Terminal	Continuity
B55	5	D557	5	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back d	oor control module		Continuity
Connector Terminal		Ground	Continuity
B55	5		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-292, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK CLOSE SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock	assembly		Continuity	
Connector Terminal		Ground	Continuity	
D557	8		Yes	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

1.CHECK CLOSE SWITCH

Refer to DLK-131, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

COMPONENT INSPECTION

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK SWITCH

- 1. Turn ignition switch OFF.
- Disconnect back door lock assembly.
 Check continuity between back door lock assembly terminals.

Back door lock assembly Terminal		Condition		Continuity
				Continuity
4			Open	Yes
4			Fully closed/Half latch	No
5	8 6 Back	Back door lock	Fully closed	Yes
			Open/Half latch	No
6			Open/Fully closed	No
O			Half latch	Yes
7		Back door	Open	Yes
		switch	Closed	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to DLK-279, "DOOR LOCK: Removal and Installation".

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

B2422 BACK DOOR STATE

DTC Logic INFOID:0000000012549248

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2422	BACK DOOR STATE	When the automatic back door control module detects back door position malfunction according to the pulse signal.	Improper installation of back door assembly [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete Back door mechanism Encoder Automatic back door control module Harness or connectors

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL MODULE" using CON-SULT.

Is DTC detected?

YES >> Refer to DLK-133, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

- Perform initialization setting of automatic back door position information. Refer to DLK-113, "Work Procedure".
- Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

- Check that back door assembly is installed normally. Refer to DLK-265, "BACK DOOR ASSEMBLY: Adjustment".
- Check back door assembly mechanism deformation, looseness, rattle, interference with other parts and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check encoder signal

- Select "AUTOMATIC BACK DOOR CONTROL MODULE" using CONSULT.
- Select "SPINDLE SENSOR LH" and "SPINDLE SENSOR RH" in "DATA MONITOR" mode. 2.
- Check that the function operates normally according to the following conditions.

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DLK-133 Revision: November 2015 2016 Pathfinder

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Status
SPINDLE SENSOR LH	0 – 65535
SPINDLE SENSOR RH	0 – 65535

Is the difference between the 2 monitor items 10 or more?

YES >> GO TO 4.

NO >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

4. CHECK ENCODER POWER SUPPLY

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

(+) Spindle unit		(-)	Voltage (Approx.)	
Con	nector	Terminal		(.pp. 5/11)
LH	B70	0	Ground	Pattory valtage
RH	B162	0	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

CHECK ENCODER CIRCUIT 1

- 1. Disconnect automatic back door control module connector.
- 2. Check continuity between automatic back door control module harness connector and spindle unit harness connector.

Automatic back door control module			Continuity		
Connector	Terminal	Connector Term			Continuity
B55	19	LH	B70	Ω	Yes
Б33	20	RH	B162	0	163

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
DEE	19	Ground	No
B55	20		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

6. CHECK ENCODER CIRCUIT 2

- 1. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and spindle unit harness connector.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

Automatic back d	oor control module	Spindle unit			Continuity
Connector	Terminal	Connector		Terminal	Continuity
B55 6 7 8 9	6	1.11	LH B70	3	
	7	LIT		10	
	8	DU	D400	3	Yes
	RH	B162	10		

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back	door control module		Continuity
Connector	Terminal		Continuity
	6	Ground	
B55	7	Glound	No
вээ	8		INO
	9		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK ENCODER CIRCUIT 3

- 1. Connect automatic back door control module and spindle unit connector
- 2. Check continuity between automatic back door control module harness connector and ground.

Automatic ba	ck door control module		Voltage
Connector Terminal		Ground	(Approx.)
B55	21		0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning parts.

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B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
B2423	ABD MTR TIME OUT	When the automatic back door control module and spindle motor operate in the same direction for 180 seconds or more continuously.	Spindle motor Automatic back door control module Harness or connector

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Operate automatic back door.
- Check "Self-Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL MODULE" using CON-SULT.

Is DTC detected?

YES >> Refer to <u>DLK-136</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012549251

Regarding Wiring Diagram information, refer to <u>DLK-94, "Wiring Diagram"</u>.

1.ERASE DTC

- 1. At least 180 seconds are passed after automatic back door operation is inhibited.
- Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2. CHECK SPINDLE MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door control module and spindle unit connector.
- Check continuity between automatic back door control module harness connector and spindle unit harness connector.

Automatic back d	oor control module	Spindle unit		Continuity		
Connector	Terminal	Connector		Terminal	Continuity	
	27	LH B70	1.11		9	
B56	34		B70	2	Yes	
D 30	29	DII	D162	9	165	
	36	RH	B162	2		

4. Check continuity between automatic back door control module harness connector and ground.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door control module			Continuity	
Connector	Terminal		Continuity	
	27	- Ground		
B56	29	- Giouna	No	
B30	34		No	
	36			

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

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B2426 ENCODER

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2426	SPINDLE SENSOR LH	When the automatic back door control module can not receive the pulse signal from the encoder just after starting the open/close operation.	Improper installation of back door assembly [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete Back door mechanism Automatic back door control module Encoder Harness or connectors

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Operate automatic back door.
- Check "Self-Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL MODULE" using CON-SULT.

Is DTC detected?

YES >> Refer to <u>DLK-138</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012549253

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

- Perform initialization setting of automatic back door position information. Refer to DLK-113, "Work Procedure".
- Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

- Check that back door assembly is installed normally. Refer to <u>DLK-265</u>, "<u>BACK DOOR ASSEMBLY</u>: Adjustment".
- Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

- Select "AUTOMATIC BACK DOOR CONTROL MODULE" using CONSULT.
- Select "SPINDLE LH ENCODER A" and "SPINDLE LH ENCODER B" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condition		Status
SPINDLE LH ENCODER A		Moving (auto or manual)	HI ⇔ LO
	Dools door	When stopped	HI or LO
SPINDLE LH ENCODER B	Back door	Moving (auto or manual)	HI⇔LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>. NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect spindle unit LH connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between spindle unit LH harness connector and ground.

(+	·)		Vallage	
Spindle unit LH		(–)	Voltage (Approx.)	
Connector	Terminal			
B70	8	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK ENCODER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect automatic back door control module connector.
- 3. Check continuity between automatic back door control module harness connector and spindle unit LH harness connector.

Automatic back door control module		Spindle ur	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B55	19	B70	8	Yes

Check continuity between automatic back door control module harness connector and ground.

Automatic back d	oor control module		Continuity
Connector Terminal		Ground	Continuity
B55	19		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK ENCODER SIGNAL CIRCUITS

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and spindle unit LH harness connector.

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B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

Automatic back	door control module	Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	6	B70	3	Yes
БЭЭ	7	570	10	165

4. Check continuity between automatic back door control module harness connector and ground.

Automatic back de	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B55	6	Ground	No
B33	7		INU

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.check encoder ground circuit

- 1. Connect automatic back door control module and spindle unit LH connector.
- 2. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Voltage
Connector	Terminal	Ground	(Approx.)
B55	21		0 V

Is the inspection result normal?

YES >> Replace spindle unit LH. Refer to <u>DLK-267</u>, "SPINDLE UNIT: Removal and Installation".

NO >> Repair or replace harness.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

B2427 ENCODER

DTC Logic INFOID:0000000012549254

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2427	SPINDLE SENSOR RH	When the automatic back door control module can not receive the pulse signal from the encoder just after starting the open/close operation.	Improper installation of back door assembly [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete Back door mechanism Automatic back door control module Encoder Harness or connectors

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self-Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL MODULE" using CON-SULT.

Is DTC detected?

YES >> Refer to DLK-141, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

- Perform initialization setting of automatic back door position information. Refer to DLK-113, "Work Procedure".
- Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

- Check that back door assembly is installed normally. Refer to DLK-265, "BACK DOOR ASSEMBLY: Adjustment".
- Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check encoder signal

- Select "AUTOMATIC BACK DOOR CONTROL MODULE" using CONSULT.
- Select "SPINDLE RH ENCODER A" and "SPINDLE RH ENCODER B" in "DATA MONITOR" mode. 2.
- Check that the function operates normally according to the following conditions.

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B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condition		Status
SPINDLE RH ENCODER A		Moving (auto or manual)	HI ⇔ LO
	Back door	When stopped	HI or LO
SPINDLE RH ENCODER B	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect spindle unit RH connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between spindle unit RH harness connector and ground.

(+	•)		No.	
Spindle unit RH		(–)	Voltage (Approx.)	
Connector	Terminal		,	
B162	8	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK ENCODER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic back door control module connector.
- 3. Check continuity between automatic back door control module harness connector and spindle unit RH harness connector.

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	20	B162	8	Yes

4. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	20		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>. "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK ENCODER SIGNAL CIRCUITS

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and spindle unit RH harness connector.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

Automatic back of	loor control module	Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	8	B162	3	Yes
B00	9	D 102	10	165

Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Connector Terminal		Continuity
B55	8	Ground	No
600	9		No

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK ENCODER GROUND CIRCUIT

1. Connect automatic back door control module spindle unit RH connector.

2. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Voltage
Connector	Terminal	Ground	(Approx.)
B55	21		0 V

Is the inspection result normal?

YES >> Replace spindle unit RH. Refer to <u>DLK-267</u>, "SPINDLE UNIT: Removal and Installation".

NO >> Repair or replace harness.

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DLK-143 Revision: November 2015 2016 Pathfinder В

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B2428 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2428	AUTO BACK DR CNT UNIT	Automatic back door control module detected CPU malfunction	Automatic back door control module

Diagnosis Procedure

INFOID:0000000012549257

1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

When DTC [B2428] is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

B242A CLOSURE CONDITION

DTC Logic INFOID:0000000012549258

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B242A	CLSR CONDITION	Automatic back door control module detects mal- functions of open switch, close switch and half latch switch when auto closure of back door operates.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Open switch Close switch Half latch switch Harness or connectors

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate back door auto closure operation.
- Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-145</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-94</u>, "Wiring <u>Diagram"</u>.

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK MONITOR ITEM

- Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select HALF LATCH SW, OPEN SW and CLOSE SW in DATA MONITOR mode.
- Check that the function operates normally according to the following conditions.

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INFOID:0000000012549259

2016 Pathfinder

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condi	Status	
HALF LATCH SW		Open/Fully closed	OFF
HALI LATOITOW	Back door	Half latch	ON
OPEN SW		Fully closed/Half latch	OFF
OPEN SW		Open	ON
CLOSE SW		Open/Half latch	OFF
CLOSE SVV		Fully closed	ON

Is the inspection result normal?

YES >> GO TO 8. NO >> GO TO 4.

4. CHECK SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check voltage between back door lock assembly harness connector and ground.

(+)			
Back door loo	ck assembly	(–)	Voltage (Approx.)	
Connector	Connector Terminal		(, , , , , , , , , , , , , , , , , , ,	
	4			
D557	5	Ground	Battery voltage	
	6			

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK SWITCH CIRCUIT

- 1. Disconnect automatic back door control module connector.
- 2. Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back o	loor control module	Back door lock assembly		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
	3		6		
B55	5	D557	5	Yes	
	11		4		

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back de	oor control module		Continuity
Connector	Continuity		
	3	Ground	
B55	5		No
	11		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-292, "Removal and Installation".

NO >> Repair or replace harness.

O.CHECK SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

Back door lock	assembly		Continuity
Connector	Connector Terminal		Continuity
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace back door lock assembly ground circuit.

7. CHECK SWITCH

Refer to DLK-147, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

COMPONENT INSPECTION

1. CHECK SWITCH

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Term	Terminal		Condition	Continuity
4			Open	Yes
4			Fully closed/Half latch	No
5	Back door lock	Dools doos look	Fully closed	Yes
5		Back door lock	Open/Half latch	No
6			Open/Fully closed	No
0			Half latch	Yes
7		Back door	Open	Yes
1		switch	Closed	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

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B261B REMOTE ENGINE START

< DTC/CIRCUIT DIAGNOSIS >

B261B REMOTE ENGINE START

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B261B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>DLK-115, "DTC Logic"</u>.
- If DTC B261B is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to DLK-116, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B261B	ВСМ	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:0000000012549262

1. CHECK ECM IGNITION, POWER AND GROUND CIRCUITS

Check ECM ignition power and ground circuits. Refer to <u>EC-188, "Diagnosis Procedure"</u> (USA and Canada) or <u>EC-666, "Diagnosis Procedure"</u> (Mexico).

Is the inspection result normal?

YES >> Replace ECM. Refer to <u>EC-508</u>, "Removal and Installation" (USA and Canada) or <u>EC-885</u>, "Removal and Installation" (Mexico). GO TO 2.

NO >> Repair or replace harness or connectors.

2. INSPECTION

- 1. Turn ignition switch ON.
- 2. Select "Self-diagnostic result" mode with 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..

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (console) is sent to BCM.	Inside key antenna (console) Harness or connector [Inside key antenna (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 mode.
- 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 <u>DLK-149</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M80	116, 128	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
	110, 120	Sisteria	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> GO TO 2.

Revision: November 2015 DLK-149 2016 Pathfinder

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.check inside key antenna circuit

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

BCM Connector Terminal		Inside key antenna (console)		Continuity
		Connector	Terminal	Continuity
M80	116	M255	1	Yes
IVIOU	128	IVIZOO	2	165

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M80	116	Ground	No
IVIOU	128		INO

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

-	CM Terminal	(–)	Condition	Signal (Reference value)
M80	116, 128	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to <u>DLK-286, "CONSOLE : Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (luggage room) is sent to BCM.	Inside key antenna (luggage room) Harness or connector [Inside key antenna (luggage room) circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Select INTELLIGENT KEY of BCM using CONSULT.
- 2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
- 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 <u>DLK-151</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-74, "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 Connector Terminal		(–)	Condition	Signal (Reference value)
Connector	Terriina		When Intelligent Key is in the antenna detection area	(V) 15 10 5
M20	100, 99	Ground	terma detection area	JMKIA0062GB
			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> GO TO 2.

Revision: November 2015 DLK-151 2016 Pathfinder

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B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.CHECK INSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and inside key antenna (luggage room) connector.
- Check continuity between BCM harness connector and inside key antenna (luggage room) harness connector.

В	CM	Inside key antenna (luggage room)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M20	100	B76	1	Yes
IVIZU	99	570	2	165

3. Check continuity between BCM harness connector and ground.

F	BCM		Continuity	
Connector Terminal		- Ground	Continuity	
M20	100	Ground	No	
IVIZU	99		INU	

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 (luggage room). (New antenna or other antenna)
- 2. Connect BCM connector and inside key antenna (luggage room) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

	(+) BCM		Condition	Signal (Reference value)
Connector	Terminal			(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M20	100, 99	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s
WZU	100, 99	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to <u>DLK-286, "LUGGAGE ROOM : Removal</u> 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:0000000012549269

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B26FD	SHIFT LOCK SOLE- NOID	BCM shift lock solenoid output control is OFF but shift lock solenoid output feedback is ON and these conditions are continuous for 1 second.	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" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Refer to DLK-153, "Diagnosis Procedure".

NO >> Shift lock solenoid is OK.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-74, "Wiring Diagram".

1. CHECK POWER SOURCE (STOP LAMP SWITCH)

- Turn ignition switch OFF.
- 2. Disconnect stop lamp switch connector.
- Check voltage between stop lamp switch connector E38 terminal 1 and ground.

Stop lan	np switch		Voltage	
Connector Terminal		Ground	Voltage	
E38 1			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 TM-188, "Component Inspection (Stop Lamp Switch)" (RE0F10E) or TM-406, "Component Inspection (Stop Lamp Switch)" (RE0F10J).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace stop lamp switch. Refer to BR-20, "Exploded View".

3.CHECK GROUND CIRCUIT (BCM)

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

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DLK-153 Revision: November 2015 2016 Pathfinder

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

В	СМ		Continuity	
Connector	Connector Terminal (+)		Continuity	
M81	134	- Ground	Yes	
IVIO I	143	-	165	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

f 4.CHECK HARNESS BETWEEN BCM AND STOP LAMP SWITCH FOR OPEN

- Disconnect BCM connector M18.
- Check continuity between BCM connector M18 terminal 27 and stop lamp switch connector E38 terminal 2.

В	СМ	Stop I	Continuity	
Connector	Terminal	Connector Terminal		
M18	27	E38	2	Yes

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace damaged parts.

5. CHECK HARNESS BETWEEN BCM AND STOP LAMP SWITCH FOR SHORT CIRCUIT

Check continuity between BCM connector M18 terminal 27 and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M18	27		No

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace damaged parts.

$\mathsf{6}.$ CHECK HARNESS BETWEEN BCM AND CVT SHIFT SELECTOR FOR OPEN

- 1. Disconnect CVT shift selector connector M78 and BCM connector M80.
- Check continuity between BCM connector M80 terminal 108 and CVT shift selector connector M78 terminal 3.

BCM		CVT shift selector		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M80	108	M78	3	Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace damaged parts.

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

Check continuity between BCM connector M80 terminal 108 and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M80	108		No

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace damaged parts.

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

$8. {\tt CHECK\ GROUND\ CIRCUIT\ (CVT\ SHIFT\ SELECTOR)}$

Check continuity between CVT shift selector connector M78 terminal 4 and ground.

CVT shift	ft selector		Continuity
Connector Terminal		Ground	Continuity
M78	4		Yes

Is the inspection result normal?

YES >> Replace shift lock solenoid. Refer to <u>TM-198</u>, "<u>Removal and Installation</u>" (RE0F10E) or <u>TM-416</u>, "<u>Removal and Installation</u>" (RE0F10J).

NO >> Repair or replace damaged parts.

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B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B26FE HOOD SWITCH

DTC Logic

DTC DETECTION LOGIC

NOTE:

 If DTC B26FE is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>DLK-115, "DTC Logic"</u>.

 If DTC B26FE is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>DLK-116, "DTC Logic"</u>.

DTC	CONSULT display description	DTC detecting condition	Possible cause
B26FE	HOOD SWITCH	BCM detects that the hood switch input is malfunctioning for 3 seconds.	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.
- Check Self Diagnostic Result mode of BCM using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-156</u>, "<u>Diagnosis Procedure</u>".

NO >> Hood switch is OK.

Diagnosis Procedure

INFOID:0000000012549272

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK HOOD SWITCH SIGNAL CIRCUITS

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

	+) switch	(-)	Voltage (V) (Approx.)	
Connector Terminal			(Approx.)	
E205	1	Ground	Rattery voltage	
E203	2	Ground	Battery voltage	

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.

IPDN	/I E/R	Hood s	switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E218	94	E205	1	Yes
	96	L203	2	103

B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E218	94	Ground	No
E210	96		INO

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

Hood	d switch		Continuity
Connector	Connector Terminal		Continuity
E205	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HOOD SWITCH

Refer to DLK-157, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to <u>DLK-269</u>, "HOOD LOCK : Removal and Installation".

5. CHECK BCM CONFIGURATION

Refer to BCS-66, "CONFIGURATION (BCM): Configuration List".

>> Inspection End.

Component Inspection

INFOID:000000012549273

1. CHECK HOOD SWITCH

1. Turn ignition switch OFF.

2. Disconnect hood switch connector.

3. Check continuity between hood switch terminals.

Hood	Hood switch		Condition	
Tern	ninal	Condition		Continuity
1	3	Hood switch	Press	Yes
1	3	Hood switch	Release	No
2	3	Hood switch	Press	No
2	3	Hood switch	Release	Yes

DLK-157

Is the inspection result normal?

YES >> Inspection End.

Revision: November 2015

NO >> Replace hood switch. Refer to <u>DLK-269</u>, "HOOD LOCK: Removal and Installation".

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B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

B26FF REMOTE KEYLESS ENTRY RECEIVER

DTC Logic

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.	 Harness or connector Remote keyless entry receiver BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to <u>DLK-158</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012549275

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

	(+) BCM		Condition	Signal (Reference value)
Connector	Terminal			
M80	119	Ground	Standby state	(V) 6 4 2 0
			Press the Intelligent Key lock or unlock button	(V) 6 4 2 0 ••• 0.2s OCC3880D

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 >

ВСМ		Remote keyles	s entry receiver	Continuity
Connector	Terminal	Connector Terminal		Continuity
M80	119	M86	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)			
BCM		(–)	Continuity
Connector	Terminal		
M80	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.

	(+)			
Remote keyless entry receiver		(–)	Voltage (Approx)	
Connector	Terminal		() ()	
M86	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 10A fuse No. 25 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 10A fuse No. 25.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

Remote keyles	s entry receiver		Continuity	
Connector	Terminal	Ground	Continuity	
M86	3		Yes	

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to <u>DLK-290, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012549276

Regarding Wiring Diagram information, refer to <u>DLK-94, "Wiring Diagram"</u>.

1. CHECK FUSIBLE LINK

Check that the following fusible link is not open.

Fusible link No.	Signal name	
N (40A)	Battery power supply	

Is the fusible link open?

YES >> Replace the open fusible link after repairing the affected circuit.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door control module connector.
- Check voltage between automatic back door control module harness connector and ground.

	+)			
Automatic back d	oor control module Terminal	(-)	Voltage	
	Terrima			
B56 25		Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between automatic back door control module harness connector and ground.

Automatic back de	oor control module		Continuity	
Connector	Terminal		Continuity	
B56	32	Ground	Yes	
	28			
B55	4			

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

BCM

BCM: Diagnosis Procedure

INFOID:0000000013002854

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.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

В	CM	Ground	Voltage (Approx.)	
Connector	Terminal	Giodila		
M81	131		Pattony voltago	
IVIOI	139	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

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

В	CM	Ground	Continuity	
Connector	Terminal	Giodila		
M81	134		Yes	
IVIOI	143	_	res	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

Component Function Check

INFOID:0000000012549278

1. CHECK OUTSIDE KEY ANTENNA (PASSENGER SIDE)

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

Does the door unlock?

YES >> Inspection End.

NO >> Refer to <u>DLK-162</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549279

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition		Signal (Reference value)	
Connector	Terminal					
M80	114, 115	Ground	When the passenger door request switch is	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 1 s	
	,,,,,		operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 1 s JMKIA0063GB	

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 (passenger side) connector.
- Check continuity between BCM harness connector and outside key antenna (passenger side) harness connector.

В	СМ	Outside key anteni	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
M80	114	D115	1	Yes	
WOO	115	DIIS	2	165	

Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M80	114		No	
IVIOU	115		No	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3}.$ CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM		(-)	Condition		Signal (Reference value)	
Connector	Terminal					
M80	114, 115	Ground	When the passenger door request switch is	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 1 s JMKIA0062GB	
Wioo	114, 113	Ground	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA0063GB	

Is the inspection result normal?

YES >> Replace outside key antenna (passenger side). Refer to <u>DLK-287, "PASSENGER SIDE : Removal and Installation"</u>.

NO >> Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>.

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Revision: November 2015 DLK-163 2016 Pathfinder

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA (DRIVER SIDE)

Component Function Check

INFOID:0000000012549280

1. CHECK OUTSIDE KEY ANTENNA (DRIVER SIDE)

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

Does the door unlock?

YES >> Inspection End.

NO >> Refer to <u>DLK-164</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549281

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition		Signal (Reference value)	
Connector	Terminal				,	
M80	121, 122	Ground	When the driver door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 1 s JMKIA0062GB	
Woo	121, 122	Siddid	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 1 s	

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 (driver side) connector.
- Check continuity between BCM harness connector and outside key antenna (driver side) harness connector.

В	CM	Outside key ante	Continuity		
Connector	Connector Terminal		Terminal	Continuity	
M80	122	D15	1	Yes	
IVIOU	121	013	2		

3. Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M80	122		Not existed	
WIGO	121		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3}.$ CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM		(–)	Condition		Signal (Reference value)	
Connector	Terminal				(10.0.0.000 10.00)	
M80 121. 1	121, 122	Ground	When the driver door request switch is oper-	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 1 s	
MOU	121, 122	Giounu	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 1 s	

Is the inspection result normal?

YES >> Replace outside key antenna (driver side). Refer to <u>DLK-287, "DRIVER SIDE : Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

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OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA (REAR BUMPER)

Component Function Check

INFOID:0000000012549282

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 (back door).

Does the door unlock?

YES >> Inspection End.

NO >> Refer to <u>DLK-166</u>. "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549283

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK OUTSIDE 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				
M20	101, 102	Ground	When the back 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) When Intelligent Key is not in the antenna detection area (The distance between In-	(V) 15 10 5 0 1 s JMKIA0062GB
				telligent Key and antenna: Approx. 2 m)	JMKIA0063GB

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.
- Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

В	CM	Outside key ante	Continuity		
Connector	Connector Terminal		Terminal	Continuity	
M20	102	B403	1	Yes	
IVIZU	101	D 1 03	2		

Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

В	CM		
Connector	Terminal	Ground	Continuity
M20	102		No
IVIZU	101		INO

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3}.$ 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.

(+) BCM Connector Terminal		(-)	Condition		Condition Signal (Reference value)		
M20	101, 102	Ground	When the back door request switch is op-	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 1 s JMKIA0062GB		
WZO	101, 102	Glound	erated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 11 1 s JMKIA0063GB		

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to <u>DLK-287, "REAR BUMPER : Removal and Installation"</u>.

NO >> Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>.

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DOOR SWITCH

Component Function Check

INFOID:0000000012549284

1. CHECK FUNCTION

- 1. Select DOOR LOCK of BCM using CONSULT.
- 2. Select DOOR SW-DR, DOOR SW-AS, DOOR SW-RL, DOOR SW-RR, in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	On
DOOK SW-DK	Driver side door	Closed	Off
DOOD OW AC	December side door	Open	On
DOOR SW-AS	Passenger side door	Closed	Off
DOOR SW-RL	Rear door LH	Open	On
DOOR SW-RL	Real door Ln	Closed	Off
DOOR SW-RR	Rear door RH	Open	On
DOOR SW-RR	Real door RH	Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-168</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549285

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning door switch connector.
- 3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

(+) Door switch Connector Terminal			(–)	Signal (Reference value)	
Driver side	B8				
Passenger side	B108			(V) 15 10	
Rear LH	B18				
Rear RH	3		Ground	0 10 ms JPMIA0011GB 11.8 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between door switch harness connector and BCM harness connector.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Door switch			ВС	Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity
Driver side	B8			96	Yes
Passenger side	B108	3	Mao	94	
Rear LH	B18		M20	82	
Rear RH	B116			93	

3. Check continuity between door switch harness connector and ground.

	Door switch		Continuity	
Coni	nector	Terminal	-	Continuity
Driver side	Driver side B8		Ground	
Passenger side	B108	3	Giodila	No
Rear LH	B18	3		NO
Rear RH	B116			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK DOOR SWITCH

Refer to DLK-169, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to <u>DLK-284, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK DOOR SWITCH

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

Door switch		Condition		Continuity
Terminal				Continuity
Ground contact is part of the		Door switch	Pressed	No
3	switch.	Door Switch	Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunction door switch. Refer to <u>DLK-284, "Removal and Installation"</u>.

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BACK DOOR SWITCH

Component Function Check

INFOID:0000000012549287

1. CHECK FUNCTION

- 1. Select DOOR LOCK of BCM using CONSULT.
- 2. Select DOOR SW-BK in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
	Dack door	Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-170</u>, "<u>Diagnosis Procedure (With Power Back Door)</u>".

NO >> Refer to <u>DLK-171</u>, "<u>Diagnosis Procedure (Without Power Back Door)</u>".

Diagnosis Procedure (With Power Back Door)

INFOID:0000000012549288

Regarding Wiring Diagram information, refer to <u>DLK-94, "Wiring Diagram"</u>.

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+) Back door lock assembly		(–)	Signal (Reference value)	
Connector	Terminal		(**************************************	
D557	7	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between back door lock assembly harness connector and BCM harness connector.

Back door lo	ock assembly	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D557	7	M20	97	Yes

3. Check continuity between back door lock assembly harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D557	7		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door switch ground circuit

Check continuity between back door lock assembly harness connector and ground.

Back door lo	ock assembly		Continuity
Connector	Terminal	Ground	Continuity
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR SWITCH

Refer to DLK-172, "Component Inspection (With Power Back Door)".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Diagnosis Procedure (Without Power Back Door)

INFOID:0000000012549289

Regarding Wiring Diagram information, refer to <u>DLK-74, "Wiring Diagram"</u>.

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+) Back door lock assembly		(–)	Signal (Peterspee value)	
Connector	Terminal		(Reference value)	
D565	3	Ground	(V) 15 10 5 0 JPMIA0011GB 11.8 V	

Is the inspection result normal?

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

Revision: November 2015 DLK-171 2016 Pathfinder

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< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.check back door switch circuit

- 1. Disconnect BCM connector.
- 2. Check continuity between back door lock assembly harness connector and BCM harness connector.

Back door lo	Back door lock assembly		ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
D565	3	M20	97	Yes

3. Check continuity between back door lock assembly harness connector and ground.

Back door lo	ock assembly		Continuity
Connector	Terminal	Ground	Continuity
D565	3		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door switch ground circuit

Check continuity between back door lock assembly harness connector and ground.

Back door lo	ock assembly		Continuity
Connector	Terminal	Ground	Continuity
D565	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR SWITCH

Refer to DLK-173, "Component Inspection (Without Power Back Door)".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection (With Power Back Door)

INFOID:0000000012549290

1. CHECK BACK DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terminal				
7	7 0		Pressed	Yes
1	7 8	Back door switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection (Without Power Back Door)

INFOID:0000000012549291

1. CHECK BACK DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check continuity between back door lock assembly terminals.

Back	Back door lock assembly		Condition	
	Terminal			
3	4	Back door switch	Pressed	Yes
3	4	Dack door Switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation"</u>.

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DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000012549292

Transmits door lock/unlock operation to BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000012549293

1. CHECK FUNCTION

(A) With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

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

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to <u>DLK-174, "DRIVER SIDE : Diagnosis Procedure (With LH and RH Auto Up/Down)"</u>.

NO >> With LH anti-pinch only, refer to <u>DLK-175</u>. "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure (With LH Auto Down Only)</u>".

DRIVER SIDE: Diagnosis Procedure (With LH and RH Auto Up/Down)

INFOID:0000000012549294

Regarding Wiring Diagram information, refer to <u>DLK-61</u>, "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".
- 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			Q: 1
(+	(+)		Condition	Signal (Reference value)
BCM connector	Terminal	(-)		(
M19	54	Ground	Door is closed	(V) 15 10 5 0 10 ms JPMIA0013GB

Is the inspection result normal?

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

2.check power window switch ground

1. Turn ignition switch OFF.

< DTC/CIRCUIT DIAGNOSIS >

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

Main power window and door lock/unlock switch connector	Ierminai		Continuity
D25	1	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.check power window serial link circuit

- Disconnect BCM connector.
- 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
M19	54	D25	11	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
M19	54	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

DRIVER SIDE: Diagnosis Procedure (With LH Auto Down Only)

Regarding Wiring Diagram information, refer to DLK-61, "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
D23	Neutral → Unlock	15	Ground	Battery voltage → 0
D23	Neutral → Lock	3	Giodila	Battery voltage → 0

Is the inspection result normal?

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

2.CHECK POWER WINDOW SWITCH GROUND

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Revision: November 2015 DLK-175 2016 Pathfinder

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- 1. Turn ignition switch OFF.
- 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
D23	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
Unlock	1 - 15	Yes
Lock	1 - 3	165
Neutral/Unlock	1 - 3	No
Neutral/Lock	1 - 15	NO

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-61, "Removal and Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

- Disconnect BCM connector.
- 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	34	D23	15	Yes
WITO	19	523	3	165

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
M18	34	Ground	No
	19	Ground	140

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE: Description

Transmits door lock/unlock operation to BCM.

Revision: November 2015 DLK-176 2016 Pathfinder

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE: Component Function Check

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1. CHECK FUNCTION

(P)With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

Monitor item	(Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK SW	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-177, "PASSENGER SIDE: Diagnosis Procedure (With LH and RH Auto Up/Down)".

>> With LH anti-pinch only, refer to DLK-178, "PASSENGER SIDE: Diagnosis Procedure (With LH NO Auto Down Only)".

PASSENGER SIDE: Diagnosis Procedure (With LH and RH Auto Up/Down)

INFOID:0000000012549298

Regarding Wiring Diagram information, refer to DLK-61, "Wiring Diagram".

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 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".
- Check that signals which are shown in the figure below can be detected during 10 second just after ower window and door lock/unlock switch RH is changed "LOCK" or "UNLOCK".

	Terminal			
(+	-)		Condition	Signal
BCM connector	Terminal	(–)		(Reference value)
M19	54	Ground	Door is closed	(V) 15 10 5 0 10 ms

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

2.check power window switch ground

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

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< DTC/CIRCUIT DIAGNOSIS >

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D129	7	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 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
M19	54	D129	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminals		Continuity
M19	54	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE : Diagnosis Procedure (With LH Auto Down Only)

INFOID:0000000012549299

Regarding Wiring Diagram information, refer to <u>DLK-61</u>, "Wiring Diagram".

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch ON.
- 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
D125	Neutral → Lock	1	Ground Battery voltage	
D123	Neutral → Unlock	2	Oround	Battery Voltage -> 0

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.
- Check continuity between power window and door lock/unlock switch RH connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D125	3	Ground	Yes

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Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

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		
Neutral/Unlock	1 - 3	No
Neutral/Lock	2 - 3	INO

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
M18	19	D125	1	Yes
	34	D123	2	163

3. Check continuity between BCM connector and ground.

BCM connector	Terr	minal	Continuity
M10	19	Ground	No
IVI IO	M18 Gr		INO

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

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Revision: November 2015 DLK-179 2016 Pathfinder

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000012549300

1. CHECK FUNCTION

- 1. Select DOOR LOCK of BCM using CONSULT.
- 2. Select DOOR LOCK in ACTIVE TEST mode.
- Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-180, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000012549301

Regarding Wiring Diagram information, refer to DLK-61, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

Front door loc	+) k assembly LH	(–)	Condition		Voltage (Approx.)
Connector	Terminal				
D14	1	Ground	Door lock and unlock switch	Lock	12 V
D14	2	Oround	Door lock and diffock switch	Unlock	12 V

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to <u>DLK-272</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

NO >> GO TO 2.

2.check door lock actuator circuit

- 1. Disconnect BCM, all door lock actuators and fuel lid door lock actuator connector.
- 2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

В	СМ	front door lock assembly LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M81	135	D14	1	Yes	
IVIOI	137	014	2	163	

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M81	135	Giodila	No	
IVIO I	137		INO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

- 1. Connect BCM connector.
- Check voltage between BCM harness connector and ground.

	+) CM	(–)	Condition		Voltage (Approx.)
Connector	Terminal				
M81	135	Ground	Door lock and unlock switch	Lock	12 V
IVIOI	137	Ground	DOOF TOCK AND UTILOCK SWITCH	Unlock	12 V

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator and fuel lid door lock actuator.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

- 1. Select DOOR LOCK of BCM using CONSULT.
- Select DOOR LOCK in ACTIVE TEST mode.
- 3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-181, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE: Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-61, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect front door lock actuator RH connector.
- 3. Check voltage between front door lock actuator RH harness connector and ground.

_	(+) Front door lock actuator RH		(–)	(–) Condition		Voltage (Approx.)
_	Connector	Terminal				(Арргох.)
_	D114	1	Ground	Door lock and unlock switch	Unlock	12 V
	DITT	2		Door lock and unlock switch	Lock	· · · · · · · · · · · · · · · · · · ·

Is the inspection result normal?

YES >> Replace front door lock actuator RH. Refer to <u>DLK-272, "DOOR LOCK: Removal and Installation".</u>

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuators and fuel lid door lock actuator connector.
- 2. Check continuity between BCM harness connector and front door lock actuator RH harness connector.

BCM		Front door lock actuator RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M81	130	D114	1	Yes	
IVI81	135	D114	2	res	

Check continuity between BCM harness connector and ground.

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В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M81	130		No	
IVIO I	135		INO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector.
- Check voltage between BCM harness connector and ground.

(+)					V-11
ВСМ		(–)	Condition		Voltage (Approx.)
Connector	Terminal				
M81	130	Ground	Door lock and unlock switch	Unlock	12 V
1010 1	135	Ground	Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator and fuel lid door lock actuator.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

REAR LH

REAR LH: Component Function Check

INFOID:0000000012549304

1. CHECK FUNCTION

- 1. Select DOOR LOCK of BCM using CONSULT.
- Select DOOR LOCK in ACTIVE TEST mode.
- Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to DLK-182, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

INFOID:0000000012549305

Regarding Wiring Diagram information, refer to <u>DLK-61</u>, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect rear door lock actuator LH connector.
- Check voltage between rear door lock actuator LH harness connector and ground.

(+)			Condition		Voltage (Approx.)
Rear door lock actuator LH		(–)			
Connector	Terminal				(PF)
D205	1	Ground	Door lock and unlock switch	Lock	12 V
D203	2	Ground	Door lock and unlock switch	Unlock	12 V

Is the inspection result normal?

YES >> Replace rear door lock actuator LH. Refer to <u>DLK-276, "DOOR LOCK : Removal and Installation"</u>. NO >> GO TO 2.

< DTC/CIRCUIT DIAGNOSIS >

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuators and fuel lid door lock actuator connector.
- Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

ВСМ		Rear door lock actuator LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
MQ1	133	D205	2	Yes	
M81	132	D205	1		

Check continuity between BCM harness connector and ground.

В	СМ		Continuity	
Connector	Terminal	Ground	Continuity	
M81	133	Giouria	No	
	132		INU	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- Check voltage between BCM harness connector and ground.

	+) CM	(–)	Condition		Voltage (Approx.)
Connector	Terminal				()
M81	133	Ground	Door lock and unlock switch	Unlock	12 V
IVIOI	132	Ground	Door lock and unlock switch	Lock	

Is the inspection result normal?

>> Check for internal short of each door lock actuator.

>> Replace BCM. Refer to BCS-81, "Removal and Installation". NO

REAR RH

REAR RH: Component Function Check

1. CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select DOOR LOCK in ACTIVE TEST mode.
- Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

>> Refer to DLK-183, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-61, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect rear door lock actuator RH connector.
- Check voltage between rear door lock actuator RH harness connector and ground.

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2016 Pathfinder

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(+)					Valla e e
Rear door lock actuator RH		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(11 /
D305	1	Ground	Door lock and unlock switch	Unlock	12 V
	2	Glound	Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to <u>DLK-276, "DOOR LOCK : Removal and Installation"</u>. NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM, all door lock actuators and fuel lid lock actuator connector.
- 2. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

ВСМ		Rear door lock actuator RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M81	133	D305	1	Yes	
IVIOI	132	5303	2	165	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M81	133	Ground	No	
	132		INU	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

	+) CM	(–)	Condition		Voltage (Approx.)
Connector	Terminal				(Αρριοχ.)
M81	133	Ground	Door lock and unlock switch	Unlock	12 V
IVIOI	132	Giouna	DOOL LOCK AND UNIOCK SWILCH	Lock	1

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

FUEL LID LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

FUEL LID LOCK ACTUATOR

Component Function Check

1. CHECK FUNCTION

- 1. Select DOOR LOCK of BCM using CONSULT.
- 2. Select DOOR LOCK in ACTIVE TEST mode.
- 3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Fuel lid door lock actuator is OK.

NO >> Refer to <u>DLK-185</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-61, "Wiring Diagram".

1. CHECK FUEL LID DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect fuel lid door lock actuator connector.
- 3. Check voltage between fuel lid door lock actuator harness connector and ground.

(+)					
Fuel lid door lock actuator		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(·
B20	1	Ground	Door lock and unlock	Unlock	12 V
D2U -	2	Glound	switch	Lock	12 V

Is the inspection result normal?

YES >> Replace fuel lid door lock actuator. Refer to <u>DLK-281, "Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK FUEL LID DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM, all door lock actuators connector.
- 2. Check continuity between BCM harness connector and fuel lid door lock actuator harness connector.

BCM		Fuel lid door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M81	135	B20	2	Yes
IVIO I	137	B20	1	165

3. Check continuity between BCM harness connector and ground.

В	CM	- Ground	Continuity	
Connector	Terminal		Continuity	
M81	135		No	
IVIOI	137		No	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- 2. Check voltage between BCM harness connector and ground.

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Revision: November 2015 DLK-185 2016 Pathfinder

FUEL LID LOCK ACTUATOR

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	+) CM	(-)	Condition		Voltage (Approx.)
Connector	Terminal				(FF -)
M81	135	Ground	Door lock and unlock switch	Lock	12 V
IVIO I	137	Giodila	Door lock and unlock switch	Unlock	12 V

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>.

UNLOCK SENSOR

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UNLOCK SENSOR

Component Function Check

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1. CHECK FUNCTION

- 1. Select INTELLIGENT KEY of BCM using CONSULT.
- 2. Select UNLK SEN-DR in DATA MONITORmode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
ONLIN OLIN DIN	Direct side door	Unlock	ON

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to <u>DLK-187</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549311

Regarding Wiring Diagram information, refer to <u>DLK-61, "Wiring Diagram"</u>.

1. CHECK UNLOCK SENSOR INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect front door lock assembly LH connector.

3. Check signal between front door lock assembly LH harness connector and ground with oscilloscope.

(+) Front door lock assembly LH		(–)	Signal (Reference value)
Connector	Terminal		, ,
D14	3	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK UNLOCK SENSOR CIRCUIT

Disconnect BCM connector.

2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

В	ВСМ		Front door lock assembly LH	
Connector	Terminal	Connector	Terminal	Continuity
M18	30	D14	3	Yes

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M18	30		No	

Revision: November 2015 DLK-187 2016 Pathfinder

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UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.check unlock sensor ground circuit

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

Front door loo	k assembly LH		Continuity
Connector Terminal		Ground	Continuity
D14	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to DLK-188, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-272</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549312

1. CHECK UNLOCK SENSOR

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

Front door loc	k assembly LH	Condition		Continuity	
Terminal		Condition		Continuity	
2 4		Driver side door	Unlock	Yes	
3	4	Driver side door	Lock	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-272</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000012549313

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1. CHECK FUNCTION

- Select DOOR LOCK of BCM using CONSULT.
- 2. Select KEY CYL LK-SW, KEY CYL UN-SW in DATA MONITOR mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Con	Status	
KEY CYL LK-SW		Lock	ON
KET CTL LK-3W	Driver eide deer key eylinder	Neutral / Unlock	OFF
KEY CYL UN-SW	- Driver side door key cylinder	Unlock	ON
RET CTL UN-SW		Neutral / Lock	OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

>> Refer to DLK-189, "Diagnosis Procedure". NO

Diagnosis Procedure

INFOID:0000000012549314

Regarding Wiring Diagram information, refer to <u>DLK-61</u>, "Wiring <u>Diagram"</u>.

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect front door lock assembly LH connector.
- Check voltage between front door lock assembly LH harness connector and ground.

(+)			Voltage (Approx.)
Front door lock assembly LH		(–)	
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,
D14	5	Cround	5 V
D14	6	Ground	5 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

Disconnect power window main switch connector.

Check continuity between main power window and door lock/unlock switch harness connector and front

door lock assembly LH harness connector.

Main power window and	d door lock/unlock switch	Front door lock assembly LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
D25	3	D14	6	Yes
DZJ	15	014	5	163

Check continuity between power window main switch harness connector and ground.

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Main power window a	Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Ground	Continuity
D25	3	Ground	No
D25	15		INO

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-61, "Removal and Installation".

NO >> Repair or replace harness.

3.check door key cylinder switch ground circuit

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-190, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-272</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549315

1. CHECK DOOR KEY CYLINDER SWITCH

- Turn ignition switch OFF.
- 2. Disconnect front door lock assembly LH connector.
- 3. Check continuity between front door lock assembly LH terminals.

Front door lock assembly LH Terminal		Condition		Continuity
3	Neutral / Lock	No		
6	Driver side door key cyllinder	Lock	Yes	
0			Neutral / Unlock	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-272</u>, "<u>DOOR LOCK</u>: Removal and Installation".

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:0000000012549316

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to <u>DLK-191</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549317

Regarding Wiring Diagram information, refer to DLK-74, "Wiring Diagram".

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

	(+) BCM		Condition	Signal (Reference value)	
Connector	Terminal			,	
M80	119	Ground	Standby state	(V) 6 4 2 0 • 0.2s	
			Press the Intelligent Key lock or unlock button	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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.

В	ВСМ		s entry receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M80	119	M86	2	Yes

Revision: November 2015 DLK-191 2016 Pathfinder

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM harness connector and ground.

(+) BCM			Continuity
		(–)	
Connector	Terminal		
M80	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.

(+) Remote keyless entry receiver				
		(-)	Voltage Approx.	
Connector	Terminal		rr -	
M86	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 10A fuse No. 25 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 10A fuse No. 25.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

Remote keyles	Remote keyless entry receiver		Continuity
Connector	Terminal	Ground	Continuity
M86	3		Yes

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to <u>DLK-290, "Removal and Installation"</u>.

NO >> Repair or replace harness.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000012549318

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1. CHECK FUNCTION

- 1. Select INTELLIGENT KEY of BCM using CONSULT.
- 2. Select REQ SW-DR, REQ SW-AS in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status	
REQ SW -DR	Driver side door request switch	Pressed	ON
REQ 3W -DR	Driver side door request switch	Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
REQ 3W -A3	rassenger side door request switch	Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-193, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000012549319

Regarding Wiring Diagram information, refer to DLK-74, "Wiring Diagram".

1. CHECK DOOR REQUEST SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect malfunctioning front door request switch connector.
- 3. Check voltage between malfunctioning front door request switch harness connector and ground.

(+)			Voltage	
Front door request switch Connector Terminal		(-)	Voltage (Approx.)	
Driver side	D15			
Passenger side	D115	3	Ground	(V) 15 10 5 0 10 ms JPMIA0016GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check door request switch circuit

- 1. Disconnect BCM connector.
- Check continuity between malfunctioning front door request switch harness connector and BCM harness connector.

F	ront door request swit	ch	ВСМ		Continuity
Coni	nector	Terminal	Connector	Terminal	Continuity
Driver side	D15	3	M19	71	Yes
Passenger side	D115	3	IVITS	72	165

^{3.} Check continuity between malfunctioning front door request switch harness connector and ground.

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1	Front door request swit	ch		Continuity
Con	nector	Terminal	Ground	Continuity
Driver side	D15	2	Ground	No
Passenger side	D115	3		INO

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.check door request switch ground circuit

Check continuity between malfunctioning front door request switch harness connector and ground.

Front door request switch			Continuity		
Co	nnector	Terminal	Ground	Continuity	
Driver side	D15	4	Giouna	Yes	
Passenger side	D115	4		res	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR REQUEST SWITCH

Refer to DLK-194, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door request switch. Refer to <u>DLK-285</u>, "<u>DRIVER SIDE</u>: Removal and Installation" or <u>DLK-285</u>, "<u>PASSENGER SIDE</u>: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection 1. CHECK DOOR REQUEST SWITCH

INFOID:0000000012549320

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning front door request switch connector.
- 3. Check continuity between malfunctioning front door request switch terminals.

Front door request switch		Condition		Continuity	
Terr	minal	Condition		Continuity	
2	4	Door request quitch	Pressed	Yes	
3	4	Door request switch	Released	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning front door request switch. Refer to <u>DLK-285</u>, "<u>DRIVER SIDE</u>: Removal and Installation" or DLK-285, "PASSENGER SIDE: Removal and Installation".

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000012549321

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1. CHECK FUNCTION

- 1. Select INTELLIGENT KEY of BCM using CONSULT.
- 2. Select REQ SW-BD/TR in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW-BD/TR Back door request swit	Back door request switch	Pressed	On
	Back door request switch	Released	Off

Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Refer to <u>DLK-195, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000012549322

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door opener switch connector.
- 3. Check voltage between back door opener switch harness connector and ground.

Back door o	+) pener switch	(-)	Voltage (Approx.)	
Connector	Terminal			
D559	4	Ground	12 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check back door request switch circuit

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and back door opener switch harness connector.

В	CM	Back door o	pener switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M20	83	D559	4	Yes

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M20	83		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door request switch ground circuit

Check continuity between back door opener switch harness connector and ground.

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BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Back door o	Back door opener switch		Continuity
Connector	Terminal	Ground	Continuity
D559	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-196, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to <u>DLK-285, "BACK DOOR: Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549323

1. CHECK BACK DOOR REQUEST SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door opener switch assembly connector.
- 3. Check continuity between back door opener switch assembly terminals.

Back door opene	er switch assembly	Condition		Continuity
Terr	minal			Continuity
2	4	Back door request switch	Pressed	Yes
3	4	Back door request switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door opener switch assembly. Refer to DLK-285, "BACK DOOR: Removal and Installation".

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:0000000012549324

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1. CHECK FUNCTION

- 1. Select TRUNK of BCM using CONSULT.
- 2. Select TR/BD OPEN SW in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Back door opener switch	Pressed	ON
TIVED OF EN OW	Back door opener switch	Released	OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-197, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000012549325

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK BACK DOOR OPEN INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door opener switch connector.
- 3. Check voltage between back door opener switch harness connector and ground.

(+)			Voltage (Approx.)	
Back door opener switch		(–)		
Connector	Terminal		(44)	
D559	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and back door opener switch harness connector.

ВСМ		Back door opener switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M19	80	D559	1	Yes

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M19	80		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door opener switch ground circuit

Check continuity between back door opener switch harness connector and ground.

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Back door o	Back door opener switch		Continuity
Connector	Connector Terminal		Continuity
D559	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR OPENER SWITCH

Refer to DLK-198, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to <u>DLK-285, "BACK DOOR: Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549326

1. CHECK BACK DOOR OPENER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door opener switch connector.
- 3. Check continuity between back door opener switch terminals.

Back door opener switch assembly		Condition		Continuity
Terminal				Continuity
1	2	Back door opener	Pressed	Yes
ı	2	switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door opener switch. Refer to <u>DLK-285, "BACK DOOR: Removal and Installation"</u>.

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY WARNING BUZZER

Component Function Check

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "OUTSIDE BUZZER" in "ACTIVE TEST" mode.
- 3. Touch "On" or "Off" to check that it works normally.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

NO >> Refer to <u>DLK-199</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-74, "Wiring Diagram".

1. CHECK FUSE

1. Turn ignition switch OFF.

Check 10 A fuse [No. 25, located in fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key warning buzzer connector.

2. Check voltage between Intelligent Key warning buzzer harness connector and ground.

(+)			Voltage (Approx.)
Intelligent Key warning buzzer		(–)	
Connector	Terminal		() ;
E1	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check intelligent key warning buzzer circuit

1. Disconnect BCM connector.

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

В	M Intelligent Key		warning buzzer	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	64	E1	3	Yes

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector Terminal		Ground	Continuity
M19	64		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Revision: November 2015 DLK-199 2016 Pathfinder

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

Refer to DLK-200, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-288, "Removal and Installation"</u>.

Component Inspection

INFOID:0000000012549329

1. CHECK INTELLIGENT KEY WARNING BUZZER

- 1. Turn ignition switch OFF.
- 2. Disconnect Intelligent Key warning buzzer connector.
- 3. Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the operation.

Intelligent Key warning buzzer			
Terminal		Operation	
(+)	(-)		
1	3	Buzzer sounds	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-288</u>, "Removal and Installation".

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Component Function Check

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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

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to <u>DLK-201</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549331

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 BATTERY

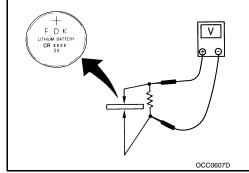
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA. Refer to <u>DLK-291</u>, "Removal and Installation".

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery.



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Revision: November 2015 DLK-201 2016 Pathfinder

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Description INFOID:000000012549332

- The buzzer for the warning chime system is installed in the combination meter.
- The combination meter sounds the buzzer based on the signals transmitted from various units.

Component Function Check

INFOID:0000000012549333

- 1. CHECK OPERATION OF METER BUZZER
- 1. Select BUZZER of BCM on CONSULT.
- Perform LIGHT WARN ALM or SEAT BELT WARN TEST of ACTIVE TEST.

Does meter buzzer activate?

YES >> Inspection End.

NO >> Refer to <u>DLK-202</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549334

1. CHECK COMBINATION METER INPUT SIGNAL

Select the Data Monitor for the "METER/M&A and check the BUZZER monitor value.

BUZZER

Under the condition of buzzer input : On Except above : Off

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-85, "Removal and Installation".

NO >> Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>.

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

KEY WARNING LAMP Α Component Function Check INFOID:0000000012549335 1. CHECK FUNCTION В Select "INTELLIGENT KEY" of "BCM" using CONSULT. 2. Select "INDICATOR" in "ACTIVE TEST" mode. Touch "KEY IND" or "KEY ON" to check that it works normally. Is the inspection result normal? YES >> Key warning lamp is OK. NO >> Refer to <u>DLK-203</u>, "<u>Diagnosis Procedure</u>". D Diagnosis Procedure INFOID:0000000012549336 Е 1. CHECK KEY WARNING LAMP Refer to MWI-18, "CONSULT Function (METER/M&A)". Is the inspection result normal? F YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CHECK INTERMITTENT INCIDENT Refer to GI-47, "Intermittent Incident". Н >> Inspection End.

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HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Function Check

INFOID:0000000012549337

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "FLASHER" in "ACTIVE TEST" mode.
- Touch "LH" or "RH" to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to <u>DLK-204</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549338

1. CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-131, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:0000000012549339

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1. CHECK FUNCTION

- Select "AUTOMATIC BACK DOOR CONTROL MODULE" using CONSULT.
- Select "BK DOOR CL SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BK DOOR CL SW	Automatic back door close switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Automatic back door close switch is OK.

NO >> Refer to <u>DLK-205</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549340

Regarding Wiring Diagram information, refer to <u>DLK-94</u>, "Wiring Diagram".

${f 1}.$ CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect automatic back door close switch connector.
- Check voltage between automatic back door close switch harness connector and ground.

	(+) Automatic back door close switch Connector Terminal		Voltage (Approx.)
D566	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and automatic back door close switch harness connector.

Automatic back d	oor control module	Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	23	D566	1	Yes

Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	23		No

Is the inspection result normal?

Revision: November 2015

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

DLK-205

NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

2016 Pathfinder

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between automatic back door close switch harness connector and ground.

Automatic back door close switch			Continuity
Connector	Terminal	Ground	Continuity
D566	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to DLK-206, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch. Refer to <u>DLK-295, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549341

1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door close switch connector.
- 3. Check continuity between automatic back door close switch terminals.

Automatic back door close switch Terminal		Condition		Continuity
'	2	close switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door close switch. Refer to <u>DLK-295, "Removal and Installation"</u>.

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR MAIN SWITCH

Component Function Check

INFOID:0000000012549342

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1. CHECK FUNCTION

- 1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select MAIN SW in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
MAIN SW A	Automatic back door main switch	ON	ON
IVIAIIN OVV		OFF	OFF

Is the inspection result normal?

YES >> Automatic back door main switch is OK.

NO >> Refer to <u>DLK-207</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549343

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK AUTOMATIC BACK DOOR MAIN SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect automatic back door main switch connector.
- 3. Check voltage between automatic back door main switch harness connector and ground.

(+)			
Automatic back door main switch		(–)	Voltage (Approx.)
Connector	Terminal		(*******)
M185	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and automatic back door main switch harness connector.

Automatic back d	oor control module	Automatic back door main switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B55	10	M185	1	Yes	

Check continuity between automatic back door control module connector and ground.

Automatic back de	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B55	10		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

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2016 Pathfinder

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between automatic back door main switch connector and ground.

Automatic back door main switch			Continuity
Connector	Terminal	Ground	Continuity
M185	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to DLK-208, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch. Refer to <u>DLK-293, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549344

1. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door main switch connector.
- 3. Check continuity between automatic back door main switch terminals.

Automatic back door main switch		Condition		Continuity
Terminal				Continuity
1 2	Automatic back door	ON	Yes	
	3	main switch	OFF	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door main switch. Refer to <u>DLK-293, "Removal and Installation"</u>.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:0000000012549345

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1. CHECK FUNCTION

- 1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select AUTO BD SW in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
AUTO BD SW	Automatic back door switch	Pressed	ON
A010 BD 3W		Released	OFF

Is the inspection result normal?

YES >> Automatic back door switch is OK.

NO >> Refer to <u>DLK-209</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549346

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect automatic back door switch connector.
- 3. Check voltage between automatic back door switch harness connector and ground.

(+)				
Automatic back door switch		(–)	Voltage (Approx.)	
Connector	Terminal		()	
M186	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- 2. Check continuity between automatic back door control module harness connector and automatic back door switch harness connector.

Automatic back d	Automatic back door control module		Automatic back door switch	
Connector	Terminal	Connector Terminal		Continuity
B55	22	M186	1	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector Terminal		Ground	Continuity
B55 22			No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

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AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between automatic back door switch harness connector and ground.

Automatic back door switch			Continuity
Connector	Terminal	Ground	Continuity
M186	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK AUTOMATIC BACK DOOR SWITCH

Refer to DLK-210, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch. Refer to <u>DLK-294, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549347

1. CHECK AUTOMATIC BACK DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door switch connector.
- 3. Check continuity between automatic back door switch terminals.

Automatic back door switch		Condition		Continuity	
Terminal					
1	2	Automatic back door switch	Pressed	Yes	
	2	Automatic back door switch	Released	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door switch. Refer to <u>DLK-294, "Removal and Installation"</u>.

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HALF LATCH SWITCH

Component Function Check

INFOID:0000000012549348

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1. CHECK FUNCTION

- Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select HALF LATCH SW in DATA MONITOR mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condit	Status	
HALF LATCH SW	Back door	Open/Fully closed	OFF
	Dack door	Half latch	ON

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to <u>DLK-211</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549349

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK HALF LATCH SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

	(–) Back door lock assembly		Voltage (Approx.)	
Connector	Terminal		(Αρριολ.)	
D557	6	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HALF LATCH SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back door control module		Back door lock	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B55	3	D557	6	Yes

Check continuity between automatic back door control module harness connector and ground.

Automatic back de	oor control module		Continuity
Connector	Connector Terminal		Continuity
B55	3		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly			Continuity	
Connector Terminal		Ground	Continuity	
D557	8		Yes	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HALF LATCH SWITCH

Refer to DLK-212, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549350

COMPONENT INSPECTION

1. CHECK HALF LATCH SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity	
Terminal					
6	8	Back door	Half latch	Yes	
O		Back door	Fully closed/Open	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-279</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

< DTC/CIRCUIT DIAGNOSIS >

TOUCH SENSOR

RH

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RH: Component Function Check

1. CHECK FUNCTION

- 1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- 2. Select TOUCH SEN RH in DATA MONITOR mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TOUCH SEN RH	Touch sensor RH	Other than below	OFF
	TOUCH SENSOF KIT	Detect obstruction	ON

Is the inspection result normal?

YES >> Touch sensor RH is OK.

NO >> Refer to <u>DLK-213</u>, "RH: <u>Diagnosis Procedure"</u>.

RH: Diagnosis Procedure

INFOID:0000000012549352

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK TOUCH SENSOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between touch sensor RH harness connector and automatic back door control module harness connector.

(+)	(-	-)			_
Touch s	ensor RH		door control mod- lle	Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D555	1	P55	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
D333	1 855	555	B55 13		Other than above	2.72 – 7.27 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TOUCH SENSOR RH CIRCUIT

- Disconnect automatic back door control module and touch sensor RH connector.
- Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Touch sensor RH	
Connector	Terminal	Connector Terminal		Continuity
B55	1	D555	1	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B55	1		No

Revision: November 2015 DLK-213 2016 Pathfinder

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Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR RH GROND CIRCUIT 1

Disconnect automatic back door control module and touch sensor RH connector.

Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Touch sensor RH	
Connector	Terminal	Connector	Terminal	Continuity
B55	13	D555	2	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH GROND CIRCUIT 2

- 1. Connect automatic back door control module and touch sensor RH connector.
- Check voltage between automatic back door control module harness connector and ground.

(+) Automatic back door control module		(–)	Voltage (Approx.)	
Connector	Connector Terminal		(ipp. 5/11)	
B55	13	Ground	0.01 – 0 V	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

CHECK TOUCH SENSOR RH

Refer to DLK-214, "RH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor RH. Refer to <u>DLK-280</u>, "TOUCH SENSOR: Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

RH: Component Inspection

INFOID:0000000012549353

1. CHECK TOUCH SENSOR RH

- 1. Turn ignition switch OFF.
- Disconnect touch sensor RH connector.
- 3. Check resistance between touch sensor RH terminals.

< DTC/CIRCUIT DIAGNOSIS >

Touch se	Touch sensor RH		Condition		
Terr	minal	Condition		(Approx.)	
1	2	Touch sensor RH	Detect obstruction	380 – 420 kΩ	
'	2	TOUCH SCHSOLINI	Other than above	0.95 – 1.05 kΩ	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor RH. Refer to <u>DLK-280, "TOUCH SENSOR: Removal and Installation"</u>.

LH

LH: Component Function Check

1. CHECK FUNCTION

- 1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
- Select TOUCH SEN LH in DATA MONITOR mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	C	Status	
TOUCH SEN LH To	Touch sensor LH	Other than below	OFF
	TOUCH SENSOI LA	Detect obstruction	ON

Is the inspection result normal?

YES >> Touch sensor LH is OK.

NO >> Refer to <u>DLK-215, "LH : Diagnosis Procedure"</u>.

LH : Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-94</u>, "Wiring Diagram".

1. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.

Check voltage between touch sensor LH harness connector and automatic back door control module harness connector.

(+)	(-	-)			
Touch s	ensor LH		door control mod- le	Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D556	1	B55	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
<i>D</i> 330	'	555	13	LH	Other than above	2.72 – 7.27 V

Is the inspection result normal?

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

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2.CHECK TOUCH SENSOR LH CIRCUIT

- 1. Disconnect automatic back door control module and touch sensor LH connector.
- Check continuity between automatic back door control module harness connector and touch sensor LH harness connector.

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< DTC/CIRCUIT DIAGNOSIS >

Automatic back d	Automatic back door control module		Touch sensor LH	
Connector	Terminal	Connector	Terminal	Continuity
B55	2	D556	1	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back d	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B55	2		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-292, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR LH GROND CIRCUIT 1

- 1. Disconnect automatic back door control module and touch sensor LH connector.
- Check continuity between automatic back door control module harness connector and touch sensor LH harness connector.

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	13	D556	2	Yes

Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK TOUCH SENSOR LH GROND CIRCUIT 2

- 1. Connect automatic back door control module and touch sensor LH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

(+) Automatic back door control module		(-)	Voltage
Connector	Terminal	. ,	(Approx.)
B55	13	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR LH

Refer to DLK-217, "LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor LH. Refer to <u>DLK-280, "TOUCH SENSOR: Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

LH: Component Inspection

INFOID:0000000012549356

1. CHECK TOUCH SENSOR LH

- 1. Turn ignition switch OFF.
- 2. Disconnect touch sensor LH connector.
- 3. Check resistance between touch sensor LH terminals.

Touch sensor LH Terminal		- Condition		Resistance (Approx.)	
'	2	Touch sensor Lit	Other than above	0.95 – 1.05 kΩ	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor LH. Refer to <u>DLK-280, "TOUCH SENSOR: Removal and Installation"</u>.

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SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SPINDLE MOTOR

RH

RH: Diagnosis Procedure

INFOID:0000000012549357

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK SPINDLE MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect spindle unit RH connector.
- 3. Check voltage between spindle unit RH harness connector and ground.

(+) Spindle unit RH		(–) Con		dition	Voltage (Approx.)
Connector	Terminal				([[]]
B162	9 Cround Pack door	Back door	Auto open opera- tion	Pattory voltage	
B102	2	Ground	Dack GOO!	Auto close opera- tion	Battery voltage

Is the inspection result normal?

YES >> Replace spindle unit RH. Refer to <u>DLK-267, "SPINDLE UNIT: Removal and Installation"</u>.

NO >> GO TO 2.

2. CHECK SPINDLE MOTOR CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and spindle unit RH harness connector.

Automatic back d	Automatic back door control module		Spindle unit RH	
Connector	Terminal	Connector	Terminal	Continuity
B56	29	B162	9	Yes
B30	36	D102	2	ies

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back d	oor control module		Continuity
Connector Terminal		Ground	Continuity
B56	29	Ground	No
	36		INO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

LH

LH: Diagnosis Procedure

INFOID:0000000012549358

Regarding Wiring Diagram information, refer to <u>DLK-94, "Wiring Diagram"</u>.

1. CHECK SPINDLE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

- 2. Disconnect spindle unit LH connector.
- 3. Check voltage between spindle unit LH harness connector and ground.

(+) Spindle unit LH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				(, ,pp. 6,)
B70	9 Cround		Back door	Auto open opera- tion	Rattery voltage
570	2	Ground	Dack GOO!	Auto close opera- tion	Battery voltage

Is the inspection result normal?

YES >> Replace spindle unit LH. Refer to <u>DLK-267</u>, "SPINDLE UNIT: Removal and Installation".

NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

- 1. Disconnect automatic back door control module connector.
- 2. Check continuity between automatic back door control module harness connector and spindle unit LH harness connector.

Automatic back d	Automatic back door control module		Spindle unit LH	
Connector	Terminal	Connector	Terminal	Continuity
B56	27	B70	9	Yes
D30	34	D/U	2	res

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back de	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B56	27	Ground	No
В30	34		INO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

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BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:0000000012549359

Regarding Wiring Diagram information, refer to <u>DLK-94, "Wiring Diagram"</u>.

1. CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check voltage between back door lock assembly harness connector and ground.

(+) Back door lock assembly		(–) Condit		lition	Voltage (Approx.)
Connector	Terminal				(* .pp. o/)
	1			Open operation	Battery voltage
D557		Ground	Back door	Other than above	0 V
D557	2		Dack door	Close operation	Battery voltage
				Other than above	0 V

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to <u>DLK-279, "DOOR LOCK: Removal and Installation"</u>. NO >> GO TO 2.

2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

- 1. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back dod	or control module	Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B56	B56 31		1	Yes
D30	38	D557	2	165

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back doo	r control module		Continuity	
Connector	Terminal	Ground	Continuity	
B56	31	Ground	No	
800	38		INU	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

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Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK BACK DOOR WARNING CHIME POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect back door warning chime connector.
- 3. Check voltage between back door warning chime harness connector and ground.

(+) Back door warn	ing chime	(-)	Voltage (Approx.)	
Connector	Terminal			
B402	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR WARNING CHIME OUTPUT SIGNAL CIRCUIT

- 1. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and back door warning chime harness connector.

Automatic back d	Automatic back door control module Back door warning chime		Continuity	
Connector	Terminal	Connector Terminal		Continuity
B56	37	B402	1	Yes

3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B56	37		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK BACK DOOR WARNING CHIME GROUND CIRCUIT

Check continuity between back door warning chime harness connector and ground.

Back door warning chime			Continuity
Connector	Terminal	Ground	Continuity
B402	2		Yes

DLK-221

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR WARNING CHIME

Refer to DLK-222, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

Revision: November 2015

NO >> Replace back door warning chime. Refer to <u>DLK-289</u>, "Removal and Installation".

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AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012549361

1. CHECK BACK DOOR WARNING CHIME

- 1. Turn ignition switch OFF.
- 2. Disconnect back door warning chime connector.
- 3. Check battery power supply directly to back door warning chime terminals and check the operation.

back door v	varning chime		
Teri	minal	Operation	
(+)	(-)		
1	2	Chime sounds	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door warning chime. Refer to <u>DLK-289</u>, "Removal and Installation".

GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000012549362

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Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect automatic back door control module connector.
- 3. Check continuity between automatic back door control module harness connector and ground.

Automatic back door control module			Continuity
Connector	Terminal		Continuity
B56	32	Ground	
D30	28		Yes
B55	4		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-292</u>, "Removal and Installation".

NO >> Repair or replace harness.

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Revision: November 2015 DLK-223 2016 Pathfinder

< DTC/CIRCUIT DIAGNOSIS >

HOOD SWITCH

Component Function Check

INFOID:0000000012549363

1. CHECK FUNCTION

- 1. Select HOOD SW in Data Monitor mode of IPDM E/R using CONSULT.
- Check HOOD SW indication under the following condition.

Monitor item	Condition		Indication
HOOD SW	Hood	Open	ON
HOOD SW	11000	Close	OFF

Is the indication normal?

YES >> Hood switch is OK.

NO >> Go to <u>DLK-224</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000012549364

Regarding Wiring Diagram information, refer to DLK-74, "Wiring Diagram".

1. CHECK HOOD SWITCH SIGNAL CIRCUITS

- 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			
E205	1	Ground	12	
L203	2	Ground	12	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HOOD SWITCH SIGNAL CIRCUITS

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

IPDI	M E/R	Hood switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
E218	94	E205	1	Yes
L210	96	L205	2	165

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

IPDM E/R			Continuity	
Connector	Terminal	Ground	Continuity	
E218	94	Ground	No	
E210	96		INO	

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace harness.

HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

Hood switch			Continuity
Connector	Terminal	Ground	Continuity
E205	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HOOD SWITCH

Refer to DLK-225, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to <u>DLK-269</u>, "HOOD LOCK : Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

Component Inspection

1.CHECK HOOD SWITCH

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

Hood	Hood switch		Condition	
Terr	ninal	Condition		Continuity
1	1 2		Press	Yes
ı	3	Hood switch	Release	No
2	2 3	- HOOU SWILCH	Press	No
2			Release	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace hood switch. Refer to DLK-269, "HOOD LOCK: Removal and Installation".

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Revision: November 2015 DLK-225 2016 Pathfinder

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER

Component Function Check

INFOID:0000000012549366

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. Does red light of transmitter illuminate when any transmitter button is pressed?

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to <u>DLK-226</u>, "<u>Diagnosis Procedure</u>".

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-16, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012549367

Regarding Wiring Diagram information, refer to <u>DLK-106</u>, "Wiring Diagram".

1. CHECK POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect auto anti-dazzling inside mirror (homelink® universal transceiver) connector.
- 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.)
R10	10	Ground	Ignition switch position: OFF	Battery voltage
KIU	6	Ground	Ignition switch position: ON	Ballery Vollage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following items.

- 5A fuse [No. 29 located in the fuse block (J/B)]
- 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

Check continuity between auto anti-dazzling inside mirror (homelink® universal transceiver) harness connector and ground.

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

Auto anti-dazzling inside mirror (Homelink [®] universal transceiver) connector	Terminal	Ground	Continuity
R10	8		Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> Inspection End.

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INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Diagnosis Procedure

INFOID:0000000013320363

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 en- try)	Door lock operation (request switch) or back door open oper- ation (opener switch of back door panel)	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 (reg- istered Intelligent Key placed next to push- button ignition switch)	Symptom
1	OK	OK	No start	No start	<u>SEC-146</u>
2	OK	NG	OK	OK	DLK-229
3	OK	NG	No crank, No start	OK	DLK-231
4	NG	NG	No crank, No start	OK	DLK-233
5	NG	NG	No start	No start	DLK-234
6	OK	OK	No crank, No start	OK	<u>SEC-147</u>
7	NG	ОК	OK	OK	DLK-236
8	NG	NG	OK	OK	DLK-237
9	Poor range	OK	OK	OK	DLK-238

SYMPTOM TABLE 2 (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

No.	Door lock operation (remote keyless en- try)	Door lock operation (request switch) or back door open oper- ation (opener switch of back door panel)	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 (reg- istered Intelligent Key placed next to push- button ignition switch)	Symptom
1	NG	OK	OK	OK	DLK-240
2	NG	NG	No crank, No start	OK	DLK-241
3	NG	NG	No crank, No start	No crank, No start	DLK-243
4	OK	OK	No crank, No start	No crank, No start	SEC-149
5	ОК	NG	No crank, No start	OK	SEC-150
6	Poor range	OK	OK	OK	DLK-245

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:0000000013320364

All doors do not lock/unlock using front door request switch or back door does not open using back door 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 back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition 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-229, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table. Refer to DLK-228, "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 <u>DLK-287, "DRIVER SIDE: Removal and Installation"</u> (Drive side), <u>DLK-287, "PASSENGER SIDE: Removal and Installation"</u> (Passenger side) and <u>DLK-287, "REAR BUMPER: Removal and Installation"</u> (Rear bumper).

${f 5.}$ CHECK DOOR REQUEST SWTICH

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Revision: November 2015 DLK-229 2016 Pathfinder

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 <u>DLK-193</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts. Refer to <u>DLK-273, "OUTSIDE HANDLE : Removal and Installation"</u>.

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-47, "Intermittent Incident".

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:0000000013320366

All doors do not lock/unlock using door request switch or back door does not open using back door opener request switch, and engine does not start when push-button ignition switch is pressed while carrying Intelligent

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 back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition 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-231, "Diagnosis Procedure".

Diagnosis Procedure

 ${f 1}$.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-228, "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

- Register the Intelligent Key again.
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

>> GO TO 4. NO

REPLACE INTELLIGENT KEY

- Replace the Intelligent Key and perform registration again.
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5.REPLACE BCM

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DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

< SYMPTOM DIAGNOSIS >

- 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-47, "Intermittent Incident".

Revision: November 2015 DLK-232 2016 Pathfinder

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:0000000013320368

All doors do not lock/unlock using door request switch or back door does not open using back door 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) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition 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 <u>DLK-233</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-228, "Diagnosis Procedure".

>> GO TO 2.

${f 2}$.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-201, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

>> Repair or replace the malfunctioning parts. Refer to <u>DLK-291, "Removal and Installation"</u>. NO

4. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-191, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts. Refer to <u>DLK-290, "Removal and Installation"</u>.

5.REPLACE BCM

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

>> Check intermittent incident. Refer to GI-47, "Intermittent Incident". NO

DLK-233 Revision: November 2015 2016 Pathfinder DLK

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INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

Description INFOID:000000013320370

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) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition 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-234, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013320371

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-228, "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.

Revision: November 2015 DLK-234 2016 Pathfinder

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (A	ALL KEYS)
< SYMPTOM DIAGNOSIS >	
Is the inspection result normal? YES >> Inspection End.	А
NO >> GO TO 6.	
6.REPLACE BCM	В
 Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>. Check the operation after replacement. 	
Is the inspection result normal?	
YES >> Inspection End	С
NO >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".	
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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description INFOID:000000013320372

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) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition 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 <u>DLK-236</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000013320373

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-228, "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.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND IN-**TELLIGENT KEY**

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

Description INFOID:0000000013320374

All doors do not lock/unlock using door request switch or back door does not open using back door 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) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition switch)
NG	NG	OK	OK

DIAGNOSIS PROCEDURE

Refer to DLK-237, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table. Refer to DLK-228, "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

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-47, "Intermittent Incident". DLK

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INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

Description INFOID:0000000013320376

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) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key is within the detection area of in- side key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition switch)
Poor range	OK	OK	OK

DIAGNOSIS PROCEDURE

Refer to <u>DLK-238</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000013320377

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table. Refer to <u>DLK-228</u>, "<u>Diagnosis Procedure</u>".

>> 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 <u>DLK-291</u>, "Removal and Installation".

3.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to DLK-201, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to DLK-291, "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.

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-191, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7.

Revision: November 2015 DLK-238 2016 Pathfinder

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-47, "Intermittent Incident".

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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

Description INFOID:000000013320378

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 NOR-MALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition switch)
NG	OK	OK	OK

DIAGNOSIS PROCEDURE

Refer to DLK-240, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013320379

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-228, "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.
- 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".
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".

Revision: November 2015 DLK-240 2016 Pathfinder

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:0000000013320380

All doors do not lock/unlock using door request switch or back door does not open using back door 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 NOR-MALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition switch)
NG	NG	No crank, No start	ОК

DIAGNOSIS PROCEDURE

Refer to DLK-241, "Diagnosis Procedure".

Diagnosis Procedure

 $1.\mathsf{check}$ intelligent key system symptom table

Check Intelligent Key system symptom table. Refer to DLK-228, "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.

${f 3.}$ 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-291, "Removal and Installation".

4.REGISTER INTELLIGENT KEY

- Register the Intelligent Key again.
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

${f 5.}$ REPLACE INTELLIGENT KEY

- Replace the Intelligent Key and perform registration again.
- Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

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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-47, "Intermittent Incident".

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY) < SYMPTOM DIAGNOSIS > INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE Α KEY) Description INFOID:0000000013320382 В 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 NOR-MALLY) D Engine started with push-but-Engine started with push-but-Door lock operation (request ton ignition switch operation ton ignition switch operation Door lock operation (remote switch) or back door open op-(registered Intelligent Key (Intelligent Key is within the keyless entry) eration (opener switch of back detection area of inside key placed next to push-button ig-Е door panel) nition switch) antenna) NG NG No crank, No start No crank. No start F DIAGNOSIS PROCEDURE Refer to <u>DLK-243</u>, "<u>Diagnosis Procedure</u>". Diagnosis Procedure INFOID:0000000013320383 ${f 1}$.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE Check Intelligent Key system symptom table. Н Refer to DLK-228, "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. DLK NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle. 3.CHECK INTELLIGENT KEY-2 L 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? M YES >> GO TO 4. NO >> Replace Intelligent Key. 4.REGISTER INTELLIGENT KEY Ν Register the Intelligent Key again. Check the operation after replacement. Is the inspection result normal? YES >> Inspection End. NO >> GO TO 5. Р ${f 5.}$ REPLACE INTELLIGENT KEY

- Replace the Intelligent Key and perform registration again.
- 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.

<u>Is the inspection result normal?</u>

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

Description INFOID:000000013320384

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 NOR-MALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or back door open op- eration (opener switch of back door panel)	Engine started with push-but- ton ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-but- ton ignition switch operation (registered Intelligent Key placed next to push-button ig- nition switch)
Poor range	OK	OK	OK

DIAGNOSIS PROCEDURE

Refer to DLK-245, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table. Refer to <u>DLK-228</u>, "<u>Diagnosis Procedure"</u>.

>> 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-291, "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 <u>DLK-291</u>, "Removal and Installation".

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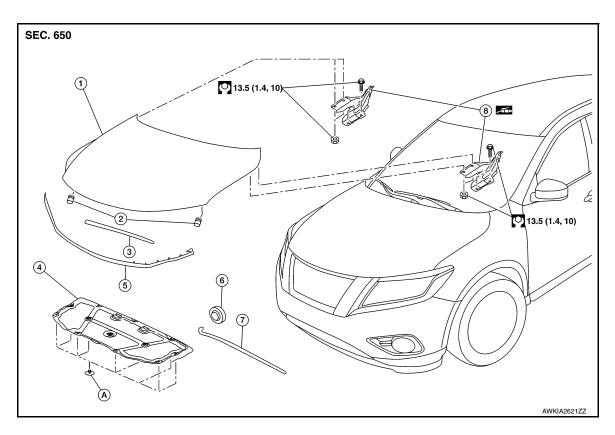
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Revision: November 2015 DLK-245 2016 Pathfinder

REMOVAL AND INSTALLATION

HOOD

Exploded View



- 1. Hood assembly
- 4. Hood insulator
- 7. Hood support rod
- 2. Hood bumper rubber
- 5. Hood front seal (body side)
- 8. Hood hinge (LH/RH)
- 3. Hood seal
- 6. Hood support rod grommet
- A. Clip

HOOD ASSEMBLY

HOOD ASSEMBLY: Removal and Installation

INFOID:0000000012549437

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.

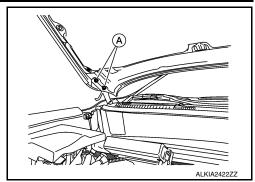
REMOVAL

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.

Remove hood hinge to hood nuts (A) and then remove the hood assembly.



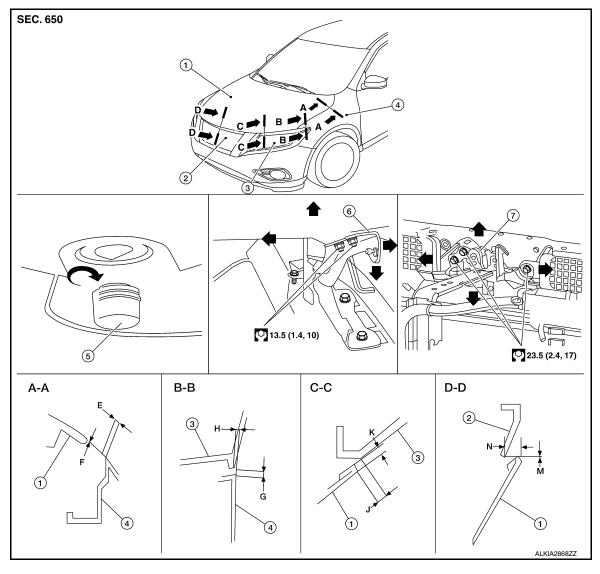
INSTALLATION

Installation is in the reverse order of removal.

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-247, "HOOD **ASSEMBLY: Adjustment".**

HOOD ASSEMBLY: Adjustment



Hood assembly

Front grille

Front combination lamp

DLK-247 Revision: November 2015 2016 Pathfinder В

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- 4. Front fender
- Hood bumper rubber
- 6. Hood hinge

7. Hood lock assembly

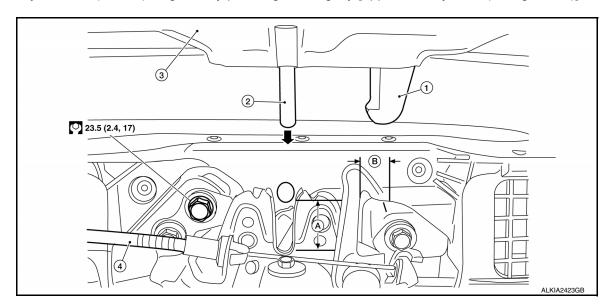
Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Parallelism
Hood assembly – Front fender	A – A	Е	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	≤ 1.5 (0.06)
		F	Surface height	$0.0 \pm 1.5 \; (0.0 \pm 0.06)$	_
Front fender — Front combination lamp	B – B	G	Clearance	1.5 ± 1.3 (0.06 ± 0.05)	< 1.5 (0.06)
		Н	Surface height	$0.0 \pm 0.0 \; (0.00 \pm 0.00)$	< 0.0 (0.00)
Hood assembly — Front combination lamp	C– C	J	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.08)$	< 2.0 (0.08)
		K	Surface height	$0.0 \pm 0.0 \; (0.0 \pm 0.00)$	< 0.0 (0.00)
Front bumper upper grille - Hood assembly	D – D	М	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.08)$	< 2.0 (0.08)
		N	Surface height	$0.0 \pm 0.0 \; (0.0 \pm 0.00)$	< 0.0 (0.00)

HEIGHT ADJUSTMENT

- Loosen the hood lock assembly bolts.
- Adjust the surface height of hood assembly to front grille and front fender according to the specified values by rotating hood bumper rubber.
- 3. Temporarily tighten hood lock assembly bolts.
- 4. 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 (3.0 kg, 6.5 lb)].



- 1. Secondary striker
- Primary striker
- 3. Hood assembly

- 4. Secondary latch control cable
- A. 20 mm (0.79 in)
- B. 6.8 mm (0.27 in)
- 5. 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) to the head of hood hinge bolts and nuts.

CLEARANCE ADJUSTMENT

- 1. Loosen hood hinge nuts and bolts.
- 2. Loosen the hood lock assembly bolts.

HOOD

< REMOVAL AND INSTALLATION >

- 3. Adjust the hood assembly so the clearance measurements are within specifications.
- Tighten the hood hinge nuts and bolts to specified torque.
- 5. Tighten the hood lock assembly bolts to specified torque.

HOOD HINGE

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HOOD HINGE: Removal and Installation

REMOVAL

- 1. Remove hood assembly. Refer to <u>DLK-246, "HOOD ASSEMBLY: Removal and Installation"</u>.
- Remove front fender. Refer to <u>DLK-252</u>, "FRONT FENDER: Removal and Installation".
- 3. Remove hood hinge bolts, and then remove hood hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-247</u>, "HOOD ASSEM-<u>BLY</u>: Adjustment".

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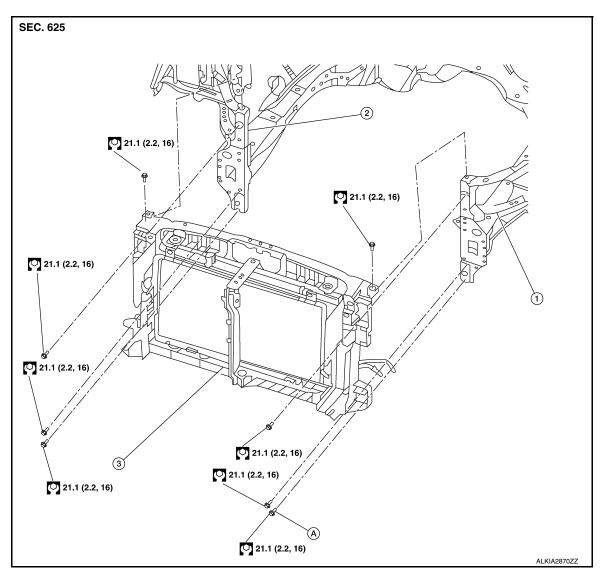
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Revision: November 2015 DLK-249 2016 Pathfinder

RADIATOR CORE SUPPORT

Exploded View



- 1. Radiator support (LH)
- 2. Radiator support (RH)
- 3. Radiator core support assembly

A. Refer to installation for sequence order

Removal and Installation

INFOID:0000000012549441

CAUTION:

When removing radiator core support upper, be careful not to damage the painted surface.

REMOVAL

- 1. Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 2. Release clips and then remove radiator upper seal.
- 3. Remove the battery. Refer to PG-93, "Removal and Installation".
- 4. Disconnect harness connector from refrigerant pressure sensor.
- 5. Remove upper air intake.
- 6. Disconnect all harness clips from radiator core support assembly.
- Remove hood lock assembly. Refer to <u>DLK-270</u>, "HOOD LOCK RELEASE CABLE: Removal and Installation".

RADIATOR CORE SUPPORT

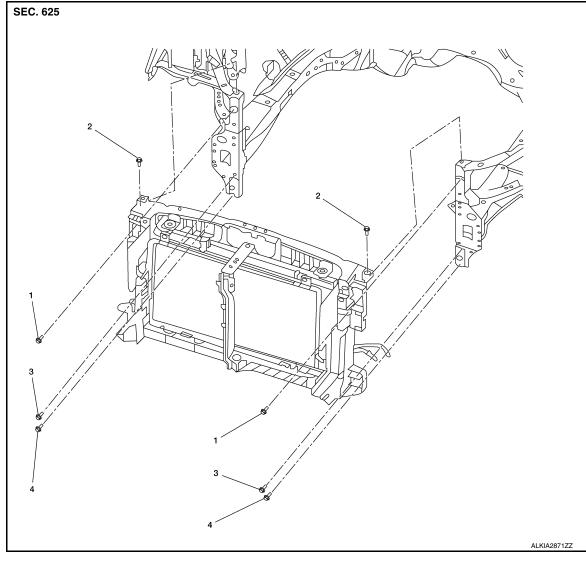
< REMOVAL AND INSTALLATION >

- 8. Release clips of air guide seal and remove.
- 9. Remove radiator bolts. Refer to CO-15, "Removal and Installation".
- 10. Remove bolts, and radiator core support assembly.

INSTALLATION

Installation is in the reverse order of removal.

• When installing the radiator core support, tighten the core support bolts in the sequence shown.



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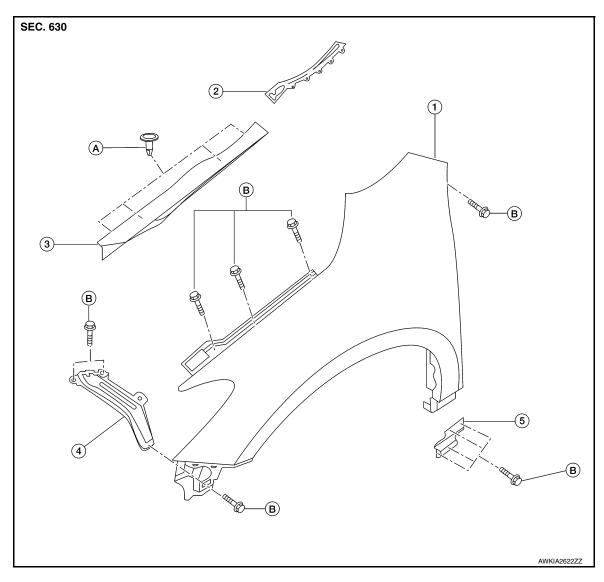
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FRONT FENDER

Exploded View



- 1. Front fender
- 2. Front fender upper seal
- 4. Front fender bracket
- 5. Front fender lower bracket
- 3. Front fender hoodledge finisher
- A. Clip

B. Bolt FRONT FENDER

FRONT FENDER: Removal and Installation

INFOID:0000000012549443

CAUTION:

Use a shop cloths to protect the body from being damaged during removal and installation.

REMOVAL

- 1. Remove front fender protector. Refer to EXT-28, "FENDER PROTECTOR: Removal and Installation".
- 2. Remove front combination lamp. Refer to EXL-145, "Removal and Installation".
- 3. Remove front fender outside lower molding. Refer to EXT-38, "Removal and Installation".
- 4. Remove front fender bolts and front fender. **CAUTION:**

FRONT FENDER

< REMOVAL AND INSTALLATION >

Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the baffle foam or damage to the front fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation apply touch up paint (body color) to the head of front fender bolts.
- After installation, adjust the following components as necessary:
- Hood assembly: Refer to <u>DLK-247</u>, "HOOD ASSEMBLY: Adjustment".
- Front door: Refer to DLK-255, "DOOR ASSEMBLY: Adjustment".

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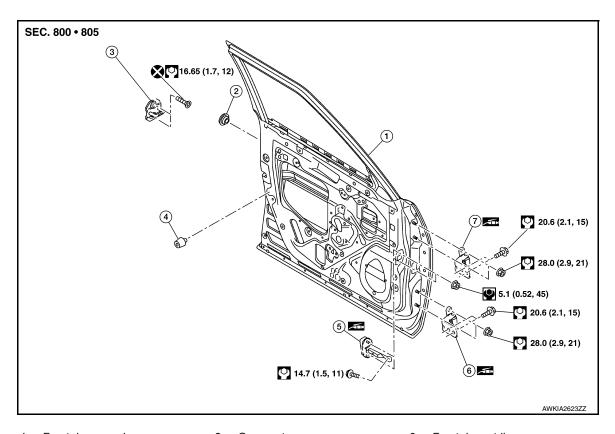
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Exploded View



- 1. Front door panel
- 4. Bumper rubber
- 7. Front door upper hinge
- 2. Grommet
- 5. Door check link
- 3. Front door striker
- 6. Front door lower hinge

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

INFOID:0000000012549445

CAUTION:

- Use two people when removing or installing the front door due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.

REMOVAL

- Disconnect the battery negative and positive terminals and wait at least three minutes. Refer to <u>PG-93</u>, <u>"Removal and Installation"</u>.
- 2. Remove front door finisher. Refer to INT-15, "Removal and Installation".
- Disconnect the harness connectors from the front door.
- 4. Remove front door harness grommet, then harness from the front door.
- 5. Remove front door check link bolt (body side).
- Remove front door hinge nuts (door side) and front door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- · Apply anticorrosive agent where necessary.
- After installation, check front door open/close and lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to <u>DLK-255</u>, "<u>DOOR ASSEM-BLY</u>: <u>Adjustment</u>".

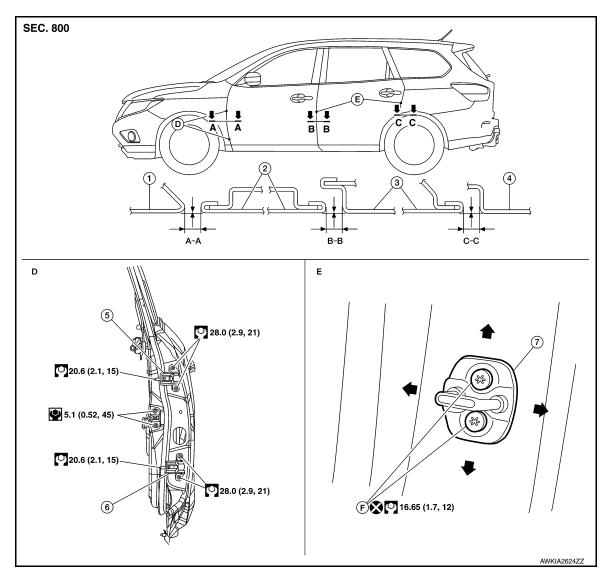
< REMOVAL AND INSTALLATION >

• Perform camera image calibration (with around view monitor). Refer to AV-308, "ADDITIONAL SER-VICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT: Description".

DOOR ASSEMBLY: Adjustment

INFOID:0000000012549446

Adjustment



- Front fender
- Body side outer
- Door striker

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- Front door
- Front door upper hinge
- Front door striker bolts
- Rear door
- Front door lower hinge

Check the clearance and surface height between front 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 proce-

Unit: mm (in)

Portion	Section	Measurement	Standard
Front fender - Front door	A – A	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
		Surface height	± 1.0 (± 0.04)
Front door - Rear door	B – B	Clearance	4.3 ± 1.0 (0.17 ± 0.04)
		Surface height	± 1.0 (± 0.04)

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< REMOVAL AND INSTALLATION >

Portion	Section	Measurement	Standard	
Rear door - Body side outer	C – C	Clearance	$3.7 \pm 1.0 \; (0.15 \pm 0.04)$	
		Surface height	± 1.0 (± 0.04)	

- Remove front fender. Refer to DLK-252, "FRONT FENDER: Removal and Installation".
- 2. Loosen front door hinge nuts (door side).
- 3. Adjust the surface height of front door according to the specifications provided.
- 4. Temporarily tighten front door hinge nuts (door side).
- 5. Loosen front door hinge bolts (body side).
- 6. Raise front door at rear end to adjust clearance of the front door according to the specifications provided.
- 7. After adjustment tighten bolts and nuts to the specified torque. **CAUTION:**
 - Check 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.
- 8. Install front fender. Refer to refer to DLK-252, "FRONT FENDER: Removal and Installation".

DOOR STRIKER

DOOR STRIKER: Removal and Installation

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REMOVAL

Remove bolts and front door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

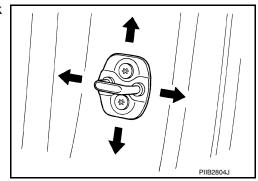
- Do not reuse front door striker bolts.
- After installation, check front door open/close operation. If necessary, adjust the front door striker.
 Refer to <u>DLK-256</u>, "<u>DOOR STRIKER</u>: <u>Adjustment"</u>.

DOOR STRIKER : Adjustment

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DOOR STRIKER ADJUSTMENT

- 1. Loosen door striker bolts
- Adjust door striker so that it becomes parallel with front door lock insertion direction.



Tighten door striker bolts to specification. Refer to <u>DLK-254</u>, "<u>Exploded View</u>".

DOOR HINGE

DOOR HINGE: Removal and Installation

INFOID:0000000012549449

REMOVAL

CAUTION:

- Use two people when removing and installing the front door due to its heavy weight.
- When removing and installing front door assembly, support door using a suitable tool.

< REMOVAL AND INSTALLATION >

- 1. Remove front fender. Refer to DLK-252, "FRONT FENDER: Removal and Installation".
- 2. Remove front door assembly. Refer to DLK-254, "DOOR ASSEMBLY: Removal and Installation".
- Remove front door hinge bolts (body side) and front door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent to the hinge mating surface.
- After installation, check front door open/close and lock/unlock operation.
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After installation, perform the front door adjustment procedure. Refer to <u>DLK-255</u>, "<u>DOOR ASSEM-BLY</u>: Adjustment".

DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

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REMOVAL

- 1. Fully close the front door window.
- Remove front door speaker. Refer to <u>AV-47, "Removal and Installation"</u> (BASE AUDIO), <u>AV-193, "Removal and Installation"</u> (MID AUDIO), or <u>AV-438, "Removal and Installation"</u> (PREMIUM AUDIO).
- Remove door check link bolt from body.
- 4. Remove door check link nuts on door assembly.
- 5. Remove door check link through the hole in door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check front door open/close and lock/unlock operation.
- Check door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

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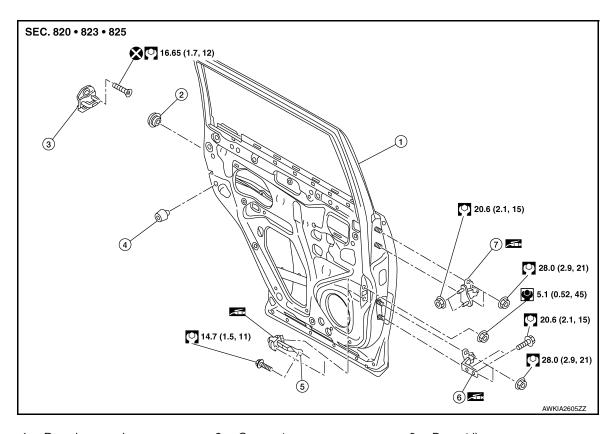
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Revision: November 2015 DLK-257 2016 Pathfinder

REAR DOOR

Exploded View



- 1. Rear door panel
- 4. Bumper rubber
- 7. Rear door upper hinge
- 2. Grommet
- 5. Door check link
- Door striker
- 6. Rear door lower hinge

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

INFOID:0000000012549452

CAUTION:

- Use two people when removing or installing the rear door due to its heavy weight.
- When removing and installing rear door assembly, support rear door using a suitable tool.

REMOVAL

- Remove rear door finisher. Refer to <u>DLK-258</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".
- Disconnect the harness connectors from rear door.
- Remove harness grommet from rear door, then pull out rear door harness from the rear door.
- 4. Remove rear door check link bolt (body side).
- 5. Remove rear door hinge nuts (door side) and rear door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- · Apply anticorrosive agent where necessary.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to <u>DLK-259</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjustment</u>".

DOOR ASSEMBLY: Adjustment

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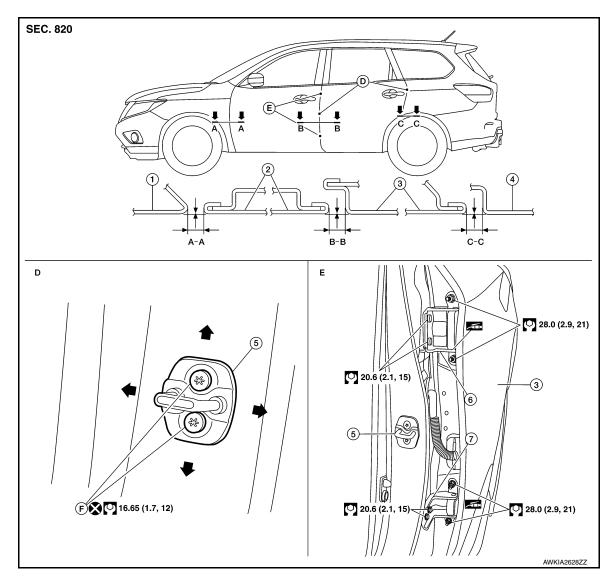
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- Front fender
- 4. Body side outer
- 7. Rear door lower hinge
- Front door
- 5. Door striker
- F. Door striker bolts
- . Rear door
- 6. Rear door upper hinge

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 procedures.

Unit: mm (in)

Portion	Section	Measurement	Standard	
Front fender - Front door	A – A	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	
Front lender - Front door	A-A	Surface height	± 1.0 (± 0.04)	
Front door - Rear door	B – B	Clearance	4.3 ± 1.0 (0.17 ± 0.04)	
	D - D	Surface height	± 1.0 (± 0.04)	
Rear door - Body side outer	C – C	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	
Real door - Body side Outer	0-0	Surface height	± 1.0 (± 0.04)	

1. Remove center pillar lower finisher. Refer to INT-21, "CENTER PILLAR LOWER FINISHER: Removal and Installation".

Revision: November 2015 DLK-259 2016 Pathfinder

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REAR DOOR

< REMOVAL AND INSTALLATION >

- Loosen rear door hinge nuts (door side).
- Adjust the surface height of rear door according to specifications provided.
- 4. Temporarily tighten rear door hinge nuts (door side).
- 5. Loosen rear door hinge nuts and bolts (body side).
- 6. Raise rear door at rear end to adjust clearance of rear door according to the specifications provided.
- 7. After adjustment tighten bolts and nuts to the specified torque. **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.
- 8. Install center pillar lower finisher. Refer to INT-21, "CENTER PILLAR LOWER FINISHER: Removal and Installation".

DOOR STRIKER

DOOR STRIKER: Removal and Installation

INFOID:0000000012549454

REMOVAL

Remove bolts and rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

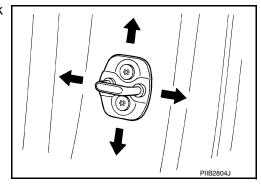
- Do not reuse rear door striker bolts.
- After installation, check rear door open/close operation. If necessary, adjust the door striker. Refer to <u>DLK-260, "DOOR STRIKER: Adjustment"</u>.

DOOR STRIKER: Adjustment

INFOID:0000000012549455

DOOR STRIKER ADJUSTMENT

- Loosen door striker bolts
- Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to <u>DLK-258</u>, "Exploded View".

DOOR HINGE

DOOR HINGE: Removal and Installation

INFOID:0000000012549456

REMOVAL

CAUTION:

- Use two people when removing and installing the front door due to its heavy weight.
- When removing and installing front door assembly, support door using a suitable tool.
- 1. Remove rear door assembly. Refer to <u>DLK-258</u>, "DOOR ASSEMBLY: Removal and Installation".
- Remove center pillar lower finisher. Refer to <u>INT-21, "CENTER PILLAR LOWER FINISHER: Removal and Installation".</u>
- 3. Remove rear door hinge bolts and nuts and rear door hinge.

INSTALLATION

REAR DOOR

< REMOVAL AND INSTALLATION >

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to <u>DLK-259</u>, "<u>DOOR ASSEMBLY</u>
 <u>: Adjustment"</u>.

DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

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REMOVAL

- Fully close the rear door window.
- 2. Remove rear door speaker. Refer to <u>AV-49</u>, "<u>Removal and Installation</u>" (BASE AUDIO), <u>AV-195</u>, "<u>Removal and Installation</u>" (PREMIUM AUDIO).
- 3. Remove rear door check link bolt (body side).
- 4. Remove rear door check link nuts (door side).
- Remove rear door check link through the hole in rear door panel.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check rear door open/close and lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multipurpose grease.

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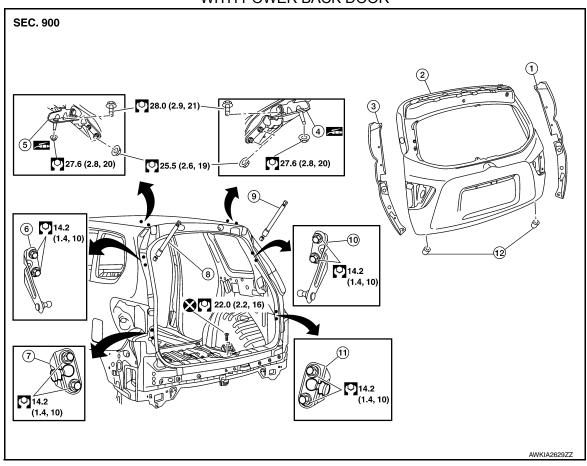
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Revision: November 2015 DLK-261 2016 Pathfinder

BACK DOOR

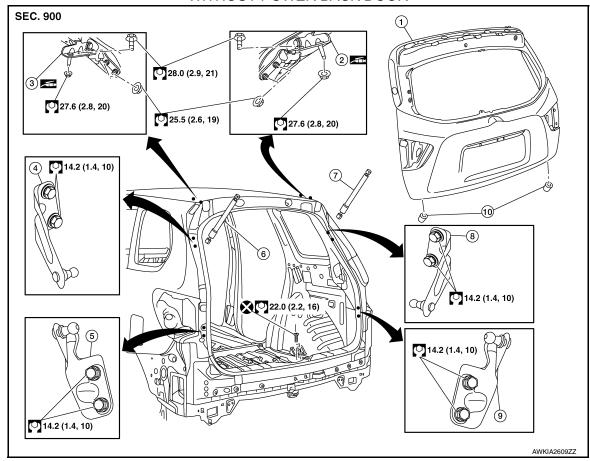
Exploded View

WITH POWER BACK DOOR



- 1. Back door touch sensor (RH)
- 4. Back door hinge (RH)
- 7. Spindle unit lower hinge (LH)
- 10. Spindle unit upper hinge (RH)
- 2. Back door panel
- 5. Back door hinge (LH)
- 8. Spindle unit (LH)
- 3. Back door touch sensor (LH)
- 6. Spindle unit upper hinge (LH)
- 9. Spindle unit (RH)
- 11. Spindle unit lower hinge (RH) 12. Bumper rubber

WITHOUT POWER BACK DOOR



- Back door panel 1.
- 4. Back door stay upper hinge (LH) 5.
- 7. Back door stay (RH)
- 10. Bumper rubber
- 2. Back door hinge (RH)
 - Back door stay lower hinge (LH) 6.
 - Back door stay upper hinge (RH) 9.
- Back door hinge (LH)
 - Back door stay (LH)
- Back door stay lower hinge (RH)

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY: Removal and Installation

CAUTION:

- Use two people when removing or installing the back door due to its heavy weight.
- · Use shop cloths to protect surrounding components from damage during removal and installation of back door.

REMOVAL

1. Support the back door assembly using a suitable tool.

Bodily injury may occur if back door assembly is not supported properly when removing the back door spindle unit.

- Remove spindle units (LH/RH) (WITH POWER BACK DOOR). Refer to <u>DLK-267</u>, "SPINDLE UNIT : Removal and Installation".
- Remove back door stays (LH/RH) (WITHOUT POWER BACK DOOR). Refer to <u>DLK-267, "BACK DOOR</u> STAY: Removal and Installation".
- 4. Remove roof side moldings (LH/RH). Refer to EXT-31, "Removal and Installation".

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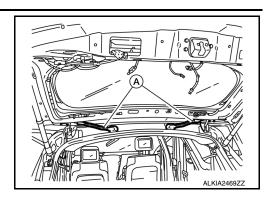
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BACK DOOR

< REMOVAL AND INSTALLATION >

5. Disconnect harness connectors (A) from back door.



- 6. Remove back door harness grommet, then pull harness from the back door.
- 7. Disconnect washer tube.
- 8. Remove washer tube grommet and washer tube from the back door.
- 9. Remove back door hinge nuts (door side) and back door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the surface between hinge and door side.
- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, perform the back door assembly adjustment procedure. Refer to <u>DLK-265</u>, "<u>BACK DOOR ASSEMBLY</u>: Adjustment".
- Perform camera image calibration (with around view monitor). Refer to <u>AV-308, "ADDITIONAL SER-VICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT: Description"</u>.

BACK DOOR ASSEMBLY: Adjustment

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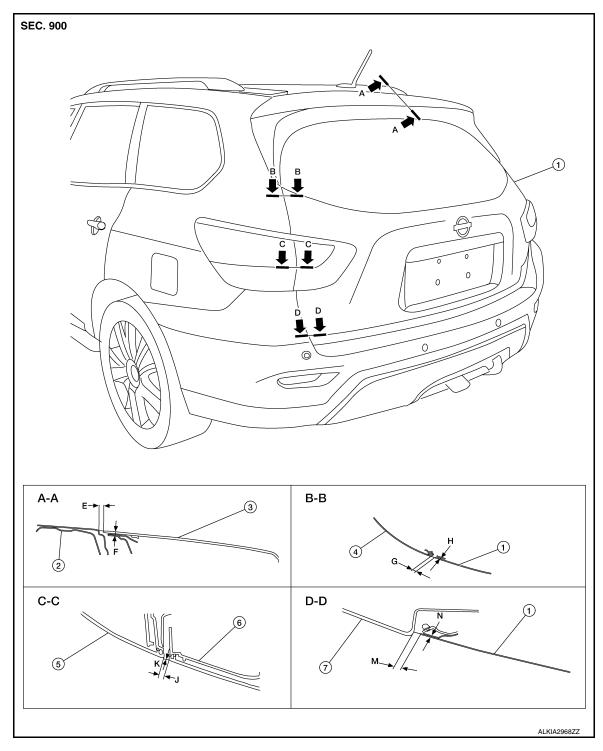
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- 1. Back door assembly
- Body side outer
- Rear bumper fascia
- 2. Roof panel
- 5. Rear combination lamp
- 3. Rear spoiler
- 6. Back-up lamp

Check the clearance and the surface height between back 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.

					Unit: mm (in)
Portion	Section	Item	Measurement	Standard	Difference (LH/RH, MAX)
Roof panel – Rear spoiler	A – A	E	Clearance	$7.0 \pm 1.5 \; (0.28 \pm 0.06)$	_
		F	Surface height	$1.5 \pm 1.5 \; (0.06 \pm 0.06)$	_
Body side outer – Back door assembly	B – B	G	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.08)$	≤2.0 (0.08)
		Н	Surface height	$0.8 \pm 2.0 \; (0.03 \pm 0.08)$	≤2.0 (0.08)
Rear combination lamp – Back-up lamp	C – C	J	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.08)$	≤2.3 (0.09)
		K	Surface height	$0.0 \pm 2.1 \; (0.0 \pm 0.08)$	≤2.5 (0.10)
Rear bumper fascia – Back door assembly	D – D	М	Clearance	$7.0 \pm 2.0 \; (0.28 \pm 0.08)$	_
		N	Surface height	$5.0 \pm 2.0 \; (0.20 \pm 0.08)$	≤2.0 (0.08)

- 1. Loosen back door hinge nuts (door side).
- 2. Lift up back door approximately 100 150 mm (3.94 5.91 in) height then close it lightly and check that it is engaged firmly with back door closed.
- Check the clearance and surface height according to the specifications provided.
- 4. Tighten back door hinge nuts to specified torque.

CAUTION:

- After installation, check back door open/close, lock/unlock operation.
- Check back door hinge rotating point for poor lubrication. If necessary, apply a suitable multipurpose grease.
- After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.
- 5. Install roof side molding (LH / RH). Refer to. EXT-31, "Removal and Installation".

BACK DOOR STRIKER

BACK DOOR STRIKER: Removal and Installation

INFOID:0000000012549461

REMOVAL

- 1. Remove back door kicking plate. Refer to INT-36, "BACK DOOR KICKING PLATE: Removal and Installation".
- 2. Remove bolts and back door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

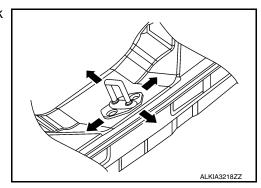
- Do not reuse back door striker bolts.
- After installation, check back door open/close operation. If necessary, adjust the door striker. Refer to <u>DLK-266</u>, "<u>BACK DOOR STRIKER</u>: <u>Adjustment</u>".

BACK DOOR STRIKER: Adjustment

INFOID:0000000012549462

DOOR STRIKER ADJUSTMENT

- 1. Loosen door striker bolts
- Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to <u>DLK-262</u>, "Exploded View".

BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR HINGE

BACK DOOR HINGE: Removal and Installation

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REMOVAL

CAUTION:

- Use two people when removing and installing the front door due to its heavy weight.
- When removing and installing front door assembly, support door using a suitable tool.
- 1. Remove back door assembly. Refer to <u>DLK-263</u>, "BACK DOOR ASSEMBLY: Removal and Installation".
- 2. Remove back door hinge bolts (body side) and back door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the surface between hinge and body side.
- After installation, perform the back door assembly adjustment procedure. Refer to <u>DLK-265</u>, "<u>BACK DOOR ASSEMBLY</u>: Adjustment".

SPINDLE UNIT

SPINDLE UNIT: Removal and Installation

INFOID:0000000012549464

REMOVAL

Support back door using a suitable tool.

WARNING:

Bodily injury may occur if the back door is not supported properly when removing the back door spindle unit.

- 2. Partially remove headlining (rear edge).
- 3. Disconnect the harness connector from the spindle unit.
- 4. Release spindle unit from stud balls and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, check back door open/close, lock/unlock operation.

BACK DOOR STAY

BACK DOOR STAY: Removal and Installation

INFOID:0000000012549465

REMOVAL

1. Support the back door using a suitable tool.

WARNING:

Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 2. Release the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) using a suitable tool (A).
- 3. Remove the back door stay (back door side).

In the same way, remove the back door stay from the body side.

Revision: November 2015 DLK-267 2016 Pathfinder

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BACK DOOR

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check the back door open/close operation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP: Removal and Installation

INFOID:0000000012549466

REMOVAL

Carefully remove back door weather-strip from opening door joint.

INSTALLATION

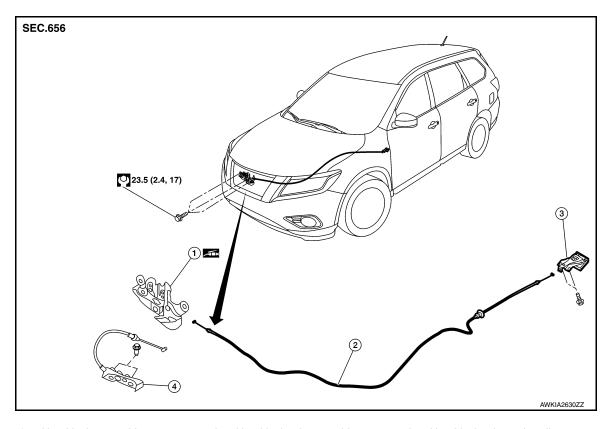
- 1. Beginning with upper section, align weather-strip mark with vehicle center position mark and install weather strip to the vehicle.
- 2. For the lower section, align weather-strip seam with center of back door striker.

NOTE:

Pull weather-strip gently to ensure that there are no loose sections.

HOOD LOCK

Exploded View INFOID:0000000012549467



- 1. Hood lock assembly
- 2. Hood lock release cable
- 3. Hood lock release handle

Secondary latch

HOOD LOCK

HOOD LOCK: Removal and Installation

INFOID:0000000012549468

INFOID:0000000012549469

REMOVAL

- 1. Remove front air duct. Refer to EM-24, "Exploded View".
- Remove front fender protector (LH). Refer to <u>EXT-28</u>, "FENDER PROTECTOR: Removal and Installation".
- 3. Disconnect the harness connector from the primary latch switch.
- Remove hood lock assembly bolts.

HOOD LOCK: Inspection

Disconnect hood lock release cable and secondary latch cable from hood lock assembly and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to bend cable too much, keeping the radius 100 mm (3.94 in) or more.
- Check that hood lock release cable and secondary latch cable are properly engaged with hood lock assembly.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-247, "HOOD ASSEM-</u> **BLY**: Adjustment".
- After adjusting, perform hood lock inspection. Refer to <u>DLK-269, "HOOD LOCK: Inspection"</u>.

NOTE:

DLK-269 Revision: November 2015 2016 Pathfinder DLK

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HOOD LOCK

< REMOVAL AND INSTALLATION >

If the hood lock cable is bent or deformed, replace it.

- Check that secondary latch is properly engaged with secondary striker with hoods own weight.
- 2. While operating hood lock release handle, carefully check that the front end of hood assembly is raised by approximately 20.0 mm (0.79 in). Also check that hood lock release handle returns to the original position.
- 3. Check that hood lock release handle operates at 49 N (5.0 kg-m, 11.0 ft-lb) or below.
- 4. Install so that static closing force of hood is 315-490 N (32.1-50.0 kg-m, 70.8-110.2 ft-lb).

NOTE:

- Do not exert vertical force on right side and left side of hood lock.
- · Do not press simultaneously on both sides.
- 5. Check the hood lock lubrication condition. If necessary, apply a suitable multi-purpose grease to hood lock assembly.

SECONDARY LATCH

SECONDARY LATCH: Removal and Installation

INFOID:0000000012549470

REMOVAL

- Remove radiator core support upper cover. Refer to <u>EXT-16</u>, "Exploded View".
- 2. Disconnect secondary latch cable from hood lock assembly.
- 3. Remove bolts and secondary latch.

INSTALLATION

Installation is in the reverse order of removal.

HOOD LOCK RELEASE CABLE

HOOD LOCK RELEASE CABLE: Removal and Installation

INFOID:0000000012549471

REMOVAL

- Remove fender protector (LH). Refer to <u>EXT-28</u>, "<u>FENDER PROTECTOR</u>: <u>Removal and Installation</u>".
- 2. Remove front under cover. Refer to EXT-30, "Removal and Installation".
- 3. Remove front air duct. Refer to EM-24, "Exploded View".
- 4. Remove radiator core support upper cover. Refer to EXT-17, "Removal and Installation".
- 5. Disconnect hood lock release cable from hood lock release handle and hood lock assembly.
- Release all hood lock release cable clips.
- Remove grommet on the lower dash, and carefully pull the hood lock release cable into the passenger compartment.

CAUTION:

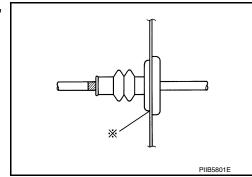
While pulling, be careful not to damage (peel) the outside of hood lock release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to bend cable too much, keep the radius 100 mm (3.94 in) or more.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.



Check that hood lock release cable is properly engaged with hood lock assembly.

Revision: November 2015 DLK-270 2016 Pathfinder

HOOD LOCK

< REMOVAL AND INSTALLATION >

- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-247</u>, "HOOD ASSEM-<u>BLY</u>: Adjustment".
- After adjusting, perform hood lock inspection. Refer to DLK-269, "HOOD LOCK: Inspection".

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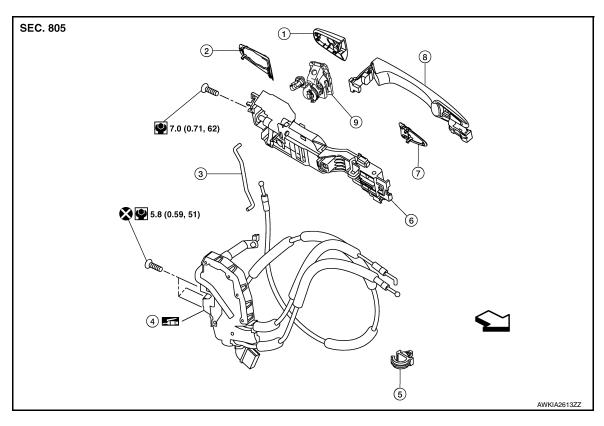
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Exploded View



- 1. Outside handle escutcheon
- 4. Front door lock
- 7. Front gasket
- ⟨□ Front

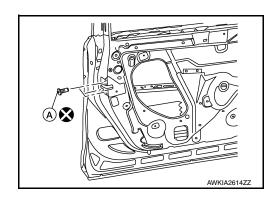
- 2. Rear gasket
- 5. Cable clip
- 8. Outside handle
- 3. Door key cylinder rod (LH only)
- 6. Outside handle bracket
- 9. Door key cylinder (LH only)

DOOR LOCK

REMOVAL

DOOR LOCK: Removal and Installation

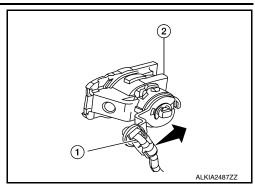
- 1. Remove front door finisher. Refer to INT-15. "Removal and Installation".
- 2. Remove vapor barrier.
- 3. Remove front door lock bolts (A).



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< REMOVAL AND INSTALLATION >

4. Disconnect door key cylinder rod (LH only) (1) from front door lock (LH only) (2).



- Disconnect door lock cables.
- Disconnect the harness connector from the front door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

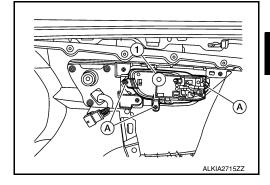
- Do not reuse front door lock bolts.
- After installation, check door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door open/close and lock/unlock operation.
- Check door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease. INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

INFOID:0000000012549474

REMOVAL

- 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:

- After installation, check door lock cables are properly engaged to inside handle.
- After installation, check door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Removal and Installation

INFOID:0000000012549475

REMOVAL

- Fully close front door glass.
- Remove front door finisher. Refer to <u>INT-15</u>, "Removal and Installation".
- 3. Remove vapor barrier.

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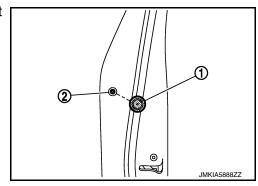
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Revision: November 2015 DLK-273 2016 Pathfinder

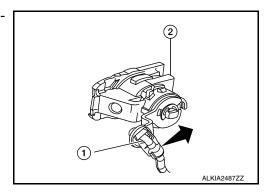
< REMOVAL AND INSTALLATION >

Cut the butyl tape so that some parts of the butyl tape remain on the vapor barrier, if the vapor barrier is reused.

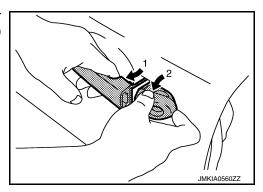
- 4. Disconnect the harness connectors from the Intelligent Key antenna and door request switch and then remove harness clamp on outside handle bracket.
- 5. Remove door side grommet (1), and remove bolt from grommet hole (2).



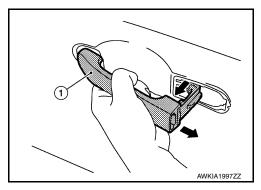
6. Separate door key cylinder rod (LH only) (1) from door key cylinder assembly (LH only) (2).



7. While pulling outside handle (1), remove door key cylinder assembly (LH side) (2) or outside handle escutcheon (RH side) (2).



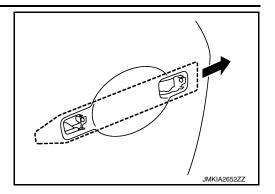
8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



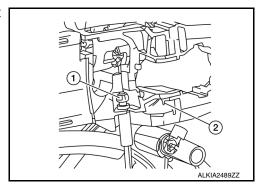
9. Remove front gasket and rear gasket.

< REMOVAL AND INSTALLATION >

10. Slide outside handle bracket toward rear of vehicle to remove.



11. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

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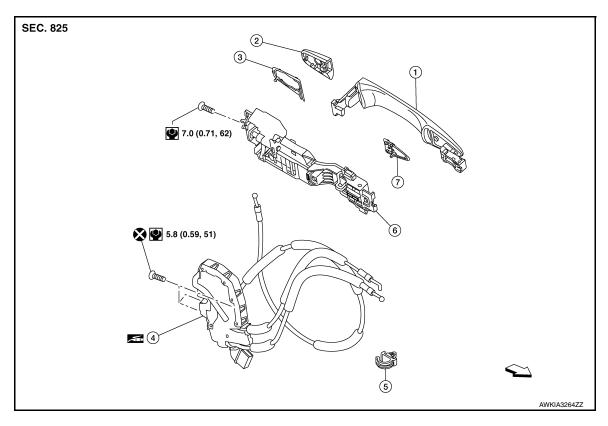
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REAR DOOR LOCK

Exploded View



- 1. Outside handle
- 4. Rear door lock
- 7. Front gasket

- 2. Outside handle escutcheon
- Cable clip
- <⇒ Front

- 3. Rear gasket
- 6. Outside handle bracket

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
- 2. Remove vapor barrier.
- 3. Remove rear door lock bolts.
- 4. Disconnect the door lock cables.
- 5. Disconnect the harness connector from the rear door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- · Do not reuse rear door lock bolts.
- After installation, check door lock cables are properly engaged to inside handle and outside handle.
- After installation, check door open/close and lock/unlock operation.

INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

INFOID:0000000012549478

INFOID:0000000012549477

REMOVAL

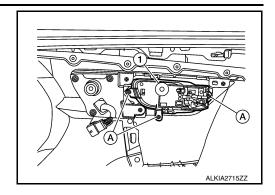
Remove rear door finisher. Refer to <u>INT-17</u>, "Removal and Installation".

Revision: November 2015 DLK-276 2016 Pathfinder

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

2. Remove inside handle screw (A) and inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check door lock cables are properly engaged to inside handle.
- After installation, check door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Removal and Installation

INFOID:0000000012549479

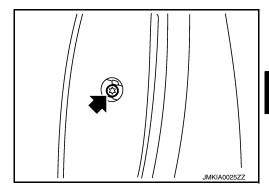
REMOVAL

- 1. Fully close rear door glass.
- 2. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
- 3. Remove rear door vapor barrier.

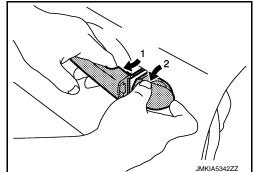
NOTE:

Cut the butyl tape so that some parts of the butyl tape remain on the vapor barrier, if the vapor barrier is reused.

4. Remove door side grommet and bolt from grommet hole.



5. While pulling outside handle (1), remove outside handle escutcheon (2).



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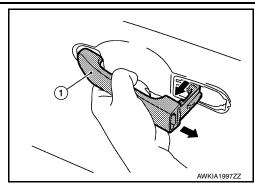
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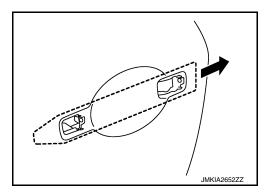
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

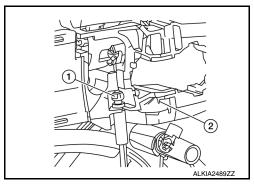
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 7. Remove front gasket and rear gasket.
- 8. Slide outside handle bracket toward rear of vehicle to remove.



9. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

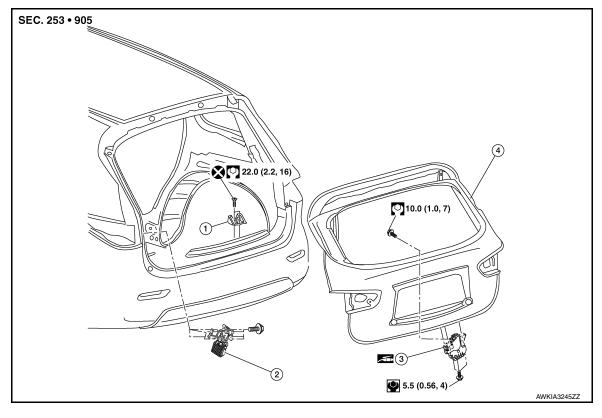
Installation is in the reverse order of removal.

CAUTION:

- After installation, check door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

BACK DOOR LOCK

Exploded View



- Door striker
- Automatic back door control module 3. Back door lock (if equipped)
- 4. Back door panel

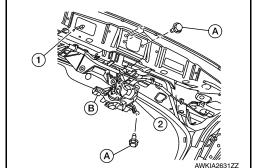
DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

1. Remove back door lower finisher. Refer to INT-35, "BACK DOOR LOWER FINISHER: Removal and <a href="Installation".

- 2. Disconnect harness connector (B) from the back door lock (2).
- 3. Remove back door lock bolts (A) and back door lock (2) from back door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check back door open/close and lock/unlock operation. TOUCH SENSOR

Revision: November 2015 DLK-279 2016 Pathfinder

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BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

TOUCH SENSOR: Removal and Installation

INFOID:0000000012549482

CAUTION:

Use care not to bend touch sensor.

REMOVAL

- 1. Remove back door side finishers. Refer to INT-35, "BACK DOOR SIDE FINISHER: Removal and Installation".
- 2. Disconnect the harness connectors from the touch sensor.
- 3. Release clips and remove screws that retain touch sensor.
- 4. Remove touch sensor harness from the back door assembly, then remove touch sensor.

INSTALLATION

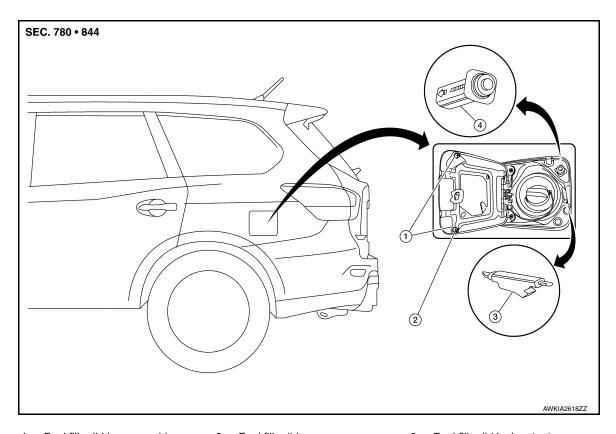
Installation is in the reverse order of removal.

CAUTION:

After installation, check back door open/close and lock/unlock operation.

FUEL FILLER LID OPENER

Exploded View



- 1. Fuel filler lid bumper rubber
- Fuel filler lid

3. Fuel filler lid lock actuator

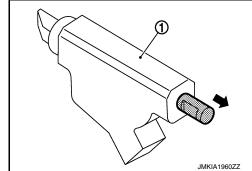
Removal and Installation

4. Fuel filler lid lock

REMOVAL

NOTE:

When fuel filler lid lock actuator (1) is not functioning correctly, pull the rod from inside the vehicle to open fuel filler lid.



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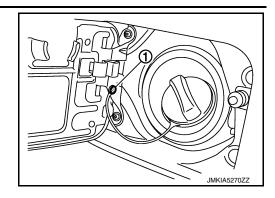
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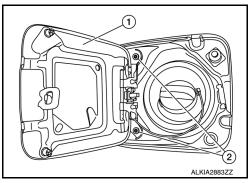
FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

1. Remove fuel cap pin (1).



2. Remove bolts (2) and fuel filler lid (1).



- Remove luggage side lower finisher (LH). Refer to <u>INT-31</u>, "<u>LUGGAGE SIDE LOWER FINISHER</u>: Removal and Installation".
- 4. Rotate lock nut counterclockwise and remove.
- 5. Remove fuel filler lid lock actuator by releasing the pawl.
- 6. Disconnect harness connector from fuel filler lid lock actuator.
- 7. Remove fuel filler lid lock by releasing the pawls.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check fuel filler lid open/close, lock/unlock operation.
- After installation, apply touch-up paint (body color) to the head of fuel filler lid bolts.

KEY CYLINDER

GLOVE BOX LID KEY CYLINDER

GLOVE BOX LID KEY CYLINDER: Removal and Installation

INFOID:0000000012549485

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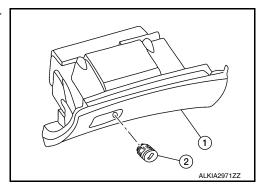
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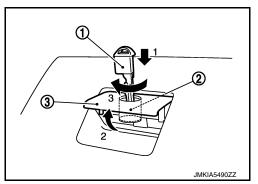
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REMOVAL

1. Remove glove box assembly (1) to access glove box lid key cylinder (2). Refer to IP-26, "Removal and Installation".

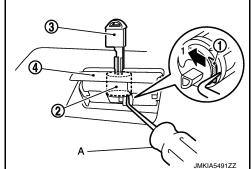


- 2. Insert key (1) into glove box lid lock cylinder (2).
- 3. Pull upward on glove box lid release handle (3).
- 4. Rotate key (1) and turn glove box lid key cylinder (2) to the lock position.



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).



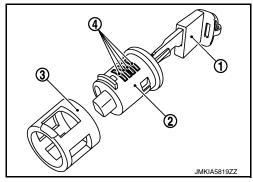
6. Remove sleeve (3) from glove box lid release handle and then install sleeve to glove box lid lock cylinder.

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.

Revision: November 2015 DLK-283 2016 Pathfinder

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DOOR SWITCH

< REMOVAL AND INSTALLATION >

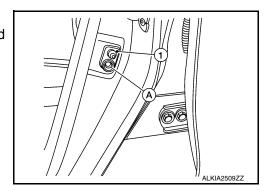
DOOR SWITCH

Removal and Installation

INFOID:0000000012549486

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.

DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION > DOOR REQUEST SWITCH Α **DRIVER SIDE** DRIVER SIDE: Removal and Installation INFOID:0000000012549487 В The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to DLK-273, "OUTSIDE HANDLE: Removal and Installation". PASSENGER SIDE PASSENGER SIDE: Removal and Installation INFOID:0000000012549488 D The passenger side door request switch and passenger side outside handle are serviced as an assembly. Е Refer to DLK-273, "OUTSIDE HANDLE: Removal and Installation". **BACK DOOR** F BACK DOOR: Removal and Installation INFOID:0000000012549489 **REMOVAL** 1. Remove the back door outer finisher. Refer to EXT-43, "Removal and Installation". 2. Disconnect the harness connector from the back door request switch. Remove the back door request switch. Н **INSTALLATION** Installation is in the reverse order of removal.

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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER: Removal and Installation

INFOID:0000000012549490

REMOVAL

- 1. Remove cluster lid C upper. Refer to IP-22, "CLUSTER LID C: Removal and Installation".
- 2. Remove the inside key antenna (instrument center) screw, and then remove inside key antenna (instrument center).

INSTALLATION

Installation is in the reverse order of removal.

CONSOLE

CONSOLE: Removal and Installation

INFOID:0000000012549491

REMOVAL

- 1. Remove rear center ventilator duct. Refer to VTL-12, "REAR CENTER VENTILATOR DUCT: Removal and Installation".
- 2. Remove the inside key antenna (console) screws and inside key antenna (console).

INSTALLATION

Installation is in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM: Removal and Installation

INFOID:0000000012549492

REMOVAL

- 1. Remove the second row seatback. Refer to SE-98, "Removal and Installation".
- Remove the inside key antenna (luggage room) clip, and then remove inside key antenna (luggage room).

INSTALLATION

Installation is in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION > **OUTSIDE KEY ANTENNA** Α **DRIVER SIDE** DRIVER SIDE: Removal and Installation INFOID:0000000012549493 В The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to DLK-273, "OUTSIDE HANDLE: Removal and Installation". PASSENGER SIDE PASSENGER SIDE: Removal and Installation INFOID:0000000012549494 D The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Е Refer to DLK-273, "OUTSIDE HANDLE: Removal and Installation". REAR BUMPER F REAR BUMPER: Removal and Installation INFOID:0000000012549495 **REMOVAL** 1. Remove rear bumper fascia. Refer to EXT-20, "Removal and Installation". 2. Disconnect the harness connector from the rear bumper outside key antenna and remove. **INSTALLATION** Н Installation is in the reverse order of removal. DLK

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INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:0000000012549496

REMOVAL

NOTE:

The Intelligent Key warning buzzer is located in the left front area of the engine compartment.

- 1. Remove Intelligent Key warning buzzer clips.
- 2. Disconnect the harness connector from the Intelligent Key warning buzzer and remove.

INSTALLATION

Installation is in the reverse order of removal.

BACK DOOR WARNING CHIME

< REMOVAL AND INSTALLATION >

BACK DOOR WARNING CHIME

Removal and Installation

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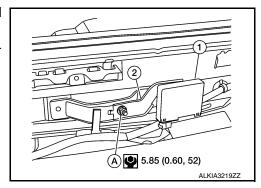
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REMOVAL

- 1. Remove the rear bumper fascia. Refer to EXT-20, "Removal and Installation".
- 2. Remove the back door warning chime bracket nut (A) and remove back door warning chime (1).
- 3. Remove back door warning chime (1) from bracket (2) (if necessary).



INSTALLATION

Installation is in the reverse order of removal.

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REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:0000000012549498

REMOVAL

- 1. Remove the glove box assembly. Refer to IP-26. "Removal and Installation".
- 2. Remove the remote keyless entry receiver bolt.
- 3. Disconnect the harness connector from remote keyless entry receiver and remove.

INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

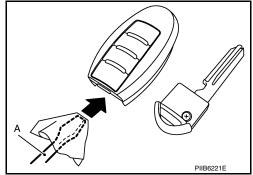
INTELLIGENT KEY BATTERY

Removal and Installation

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 insert a tool into the notches of the Intelligent Key to pry it open, as this may damage the circuit board.
- Do not use excessive force when opening the intelligent key, as this may result in damage to the internal components.
- 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.



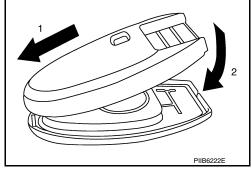
Replace the battery with a new one.

:Coin-type lithium battery **Battery replacement** (CR2025)

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.



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DLK-291 Revision: November 2015 2016 Pathfinder

AUTOMATIC BACK DOOR CONTROL MODULE

< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR CONTROL MODULE

Removal and Installation

INFOID:0000000012549500

REMOVAL

- 1. Remove the luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- 2. Remove the automatic back door control module bolts.
- 3. Disconnect the harness connector from the automatic back door control module and remove.

INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR MAIN SWITCH

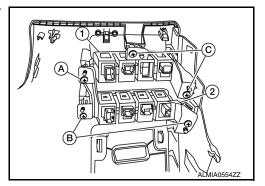
< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR MAIN SWITCH

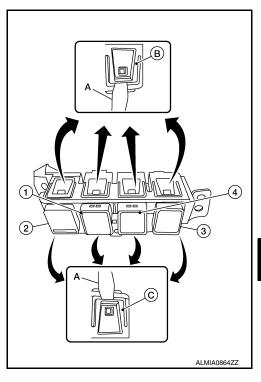
Removal and Installation

REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-25, "Removal and Installation".
- 2. Remove the screws (A,B,C) that retain the upper (1) and lower (2) switch carriers.



- 3. Release upper (B) and lower (C) tab using a suitable tool (A), then remove the automatic back door opener switch (4) from the upper switch carrier.
 - (1): Heated steering wheel switch (if equipped)
 - (2): VDC off switch
 - (3): Automatic back door main switch (if equipped)
 - (4): Automatic back door switch (if equipped)



INSTALLATION

Installation is in the reverse order of removal.

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AUTOMATIC BACK DOOR SWITCH

< REMOVAL AND INSTALLATION >

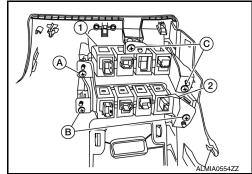
AUTOMATIC BACK DOOR SWITCH

Removal and Installation

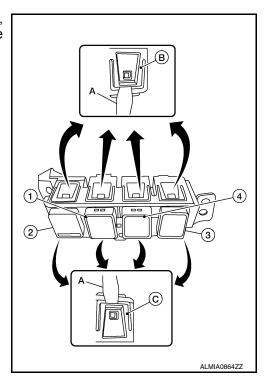
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REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-25, "Removal and Installation".
- 2. Remove the screws (A,B,C) that retain the upper (1) and lower (2) switch carriers.



- 3. Release upper (B) and lower (C) tab using a suitable tool (A), then remove the automatic back door opener switch (4) from the upper switch carrier.
 - (1): Heated steering wheel switch (if equipped)
 - (2): VDC off switch
 - (3): Automatic back door main switch (if equipped)
 - (4): Automatic back door switch (if equipped)



INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR CLOSE SWITCH

< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

INFOID:0000000012549503

REMOVAL

- 1. Open back door assembly.
- 2. Release the automatic back door close switch pawls using a suitable tool.
- 3. Remove the automatic back door close switch screws.
- 4. Disconnect the harness connector from the automatic back door close switch and remove.

INSTALLATION

Installation is in the reverse order of removal.

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