

Relation between Illustrations and Descriptions

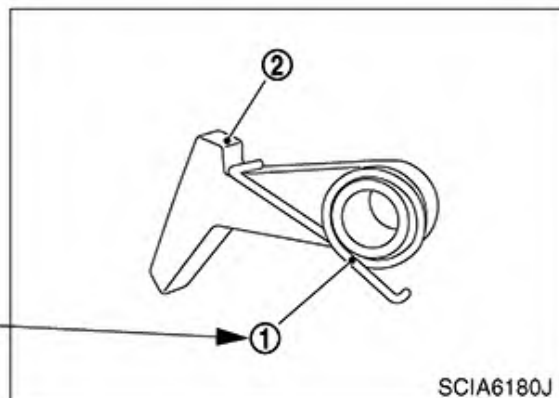
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The following sample explains the relationship between the part description in an illustration, the part name in the text and the service procedures.

< Example 1 >

1. Remove return spring (1) from parking pawl (2).

The identifier number of the part name in the text is consistent with the identifier part number in the illustration.

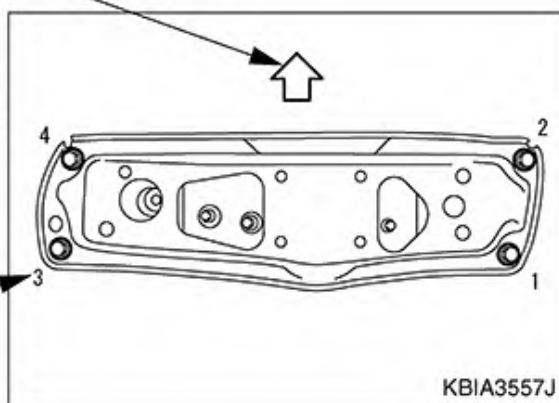


Direction mark

< Example 2 >

-  : Vehicle front
- Tighten rear member mounting bolts following the numerical order shown in the illustration.
- Note : View upward

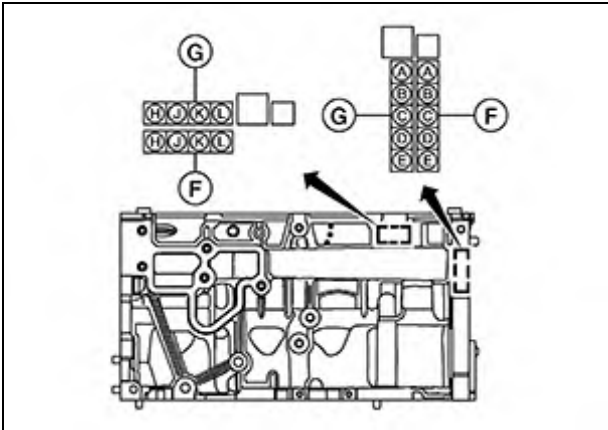
The numbers in the illustration are consistent with the service operation instructions.



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WHEN NEW CYLINDER BLOCK IS USED

- Check the cylinder bore grade on rear left side of cylinder block, and select piston of the same grade.



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(A)	: No. 5 main bearing housing grade
(B)	: No. 4 main bearing housing grade
(C)	: No. 3 main bearing housing grade
(D)	: No. 2 main bearing housing grade
(E)	: No. 1 main bearing housing grade
(F)	: Standard stamping position
(G)	: Corrected stamping position
(H)	: Cylinder No. 1 bore grade
(J)	: Cylinder No. 2 bore grade
(K)	: Cylinder No. 3 bore grade
(L)	: Cylinder No. 4 bore grade

- If there is a correction stamp mark on the cylinder block, use it as a correct reference.

WHEN CYLINDER BLOCK IS REUSED

- 1 Measure the cylinder bore inner diameter. Refer to [Cylinder Block](#).
- 2 Determine the bore grade by comparing the measurement with the values under the cylinder bore inner diameter of the "Piston Selection Table".
- 3 Select piston of the same grade.

DTC DETECTION LOGIC

DTC	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C053C	Wheel speed sensor (Wheel speed sensor generic range/performance)	Diagnosis condition	Engine running
		Signal (terminal)	Vehicle speed signal
		Threshold	Wheel sensor signal is invalid.
		Diagnosis delay time	5 seconds

POSSIBLE CAUSE

- Wheel sensor
- ABS actuator and control unit (control unit)

FAIL-SAFE

Not applicable

DTC DETECTION LOGIC

DTC	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
P044C	EGR SENSOR C (EGR sensor C circuit low)	Diagnosis condition	Ignition switch ON
		Signal (terminal)	EGR volume control valve position sensor
		Threshold	ECM detects the following status continuously for 5 seconds or more; A voltage signal transmitted from the EGR volume control valve position sensor shows too low.
		Diagnosis delay time	—

POSSIBLE CAUSE

- Harness or connectors
(EGR volume control valve position sensor circuit is open or shorted.)
- EGR volume control valve

FAIL-SAFE

Engine Control System

Engine operating condition in fail-safe mode		
Fail safe mode		Vehicle behavior
Traveling control mode	Accelerator angle variation control	ECM controls the accelerator pedal depression speed to make it slower than actual speed. This causes a drop in accelerating performance and encourages the driver to repair malfunction. Note:  ECM does not control the accelerator pedal releasing

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
P0711	00	FLUID TEMP SENSOR A (Transmission Fluid Temperature Sensor A Circuit Range/Performance)	1	Diagnosis condition	Diagnosis is permitted when all of the following conditions are satisfied: a) Shift position: D position b) Power supply voltage ≥ 10 V c) Engine speed ≥ 450 rpm d) Vehicle speed: 10 km/h (7 MPH) or more e) Accelerator pedal position ≥ 0.3 deg
				Signal	CVT fluid temperature sensor signal
				Threshold	CVT fluid temperature does not rise to 10°C (50°F) after driving for a certain period of time with the TCM-received fluid temperature sensor value between – 40°C (–40°F) and 9°C (48°F).
				Diagnosis delay time	—
			2	Diagnosis condition	Diagnosis is permitted when all of the

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

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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 collisions.

Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" sections of this Service Manual.

Warning:

Always observe the following items for preventing accidental activation:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, 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 "SRS AIR BAG".**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

Warning:

Always observe the following items for preventing accidental activation:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition/power switch ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition/power switch OFF, disconnect the 12V battery or batteries, and wait at least 3 minutes before performing any service.**

Inspection End.

2. ERASE SELF DIAGNOSTIC RESULT

1. CONSULT

Erase the DTC.

Can the DTC be erased?

YES>>

Inspection End.

NO>>

Refer to [DTC Diagnosis Procedure](#).

DTC CONFIRMATION PROCEDURE

1. CHECK SELF DIAGNOSTIC RESULT

1. CONSULT

1. Ignition switch ON.

2. Check the air bag warning lamp status. Refer to [On Board Diagnosis Function](#).



Note:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

Is the DTC detected?

YES >>

Refer to [DTC Diagnosis Procedure](#).

NO >>

Inspection End.

3. **WIRING HARNESS**

1. Check the wiring harness for visible damage.



The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Replace the harness.

4. **CONFIRM DTC**

1.  CONSULT

1. Reconnect all harness connectors.
2. Ignition switch ON.
3. Select "Self Diagnostic Result" mode of "AIR BAG".
4. Check for DTC.

Is DTC still current?

YES>>

[GO TO 5.](#)

NO>>

Refer to [Intermittent Incident](#).

5. **FRONT PASSENGER AIR BAG MODULE**

1.  CONSULT

1. Replace the front passenger air bag module. Refer to [Removal and Installation](#).
2. Ignition switch ON.
3. Select "Self Diagnostic Result" mode of "AIR BAG".
4. Check for DTC.

Is DTC still current?

YES>>

[GO TO 6.](#)

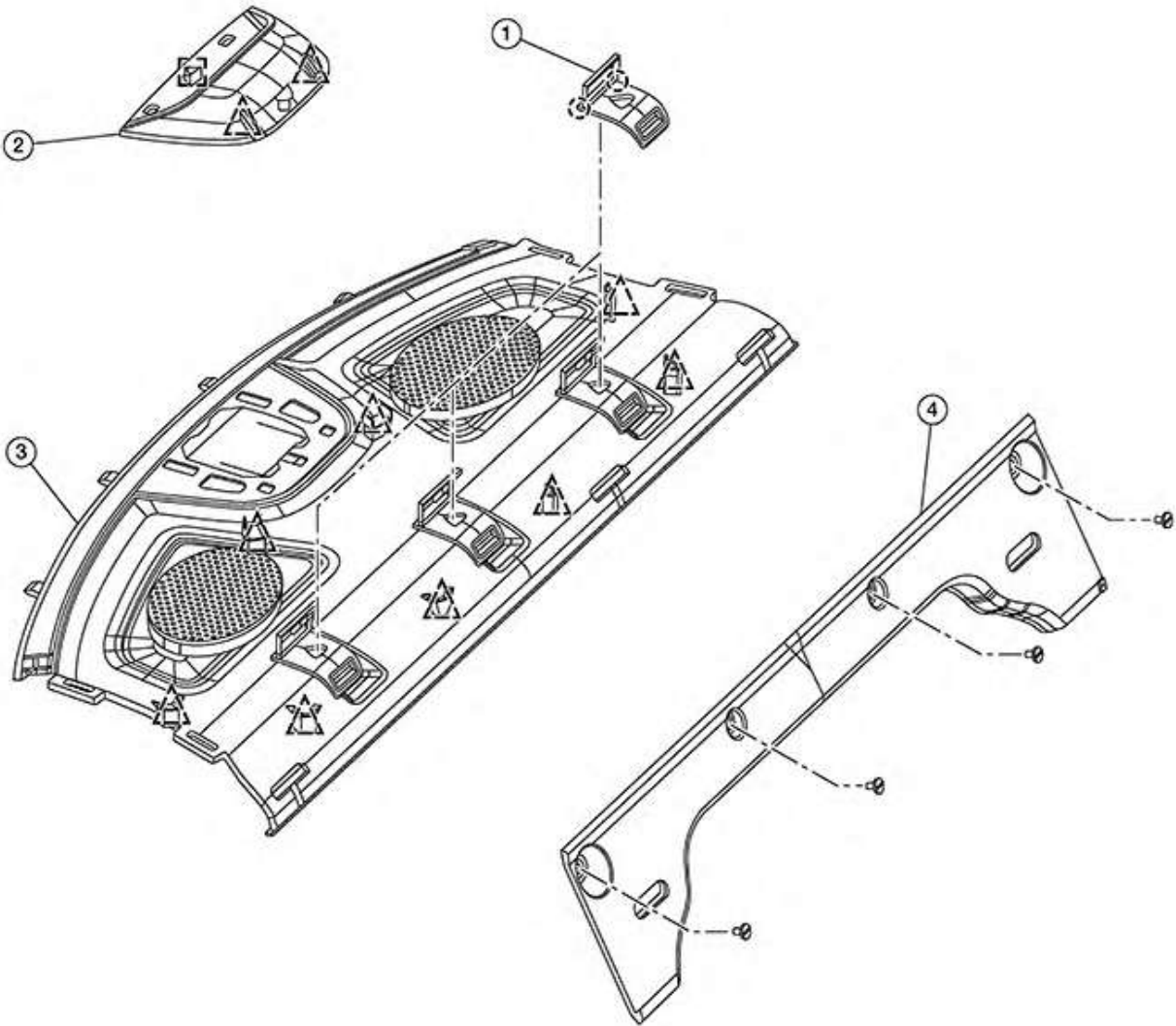
NO>>

Clear DTC. Inspection End.

Exploded View

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SEC. 268 • 799 • 869

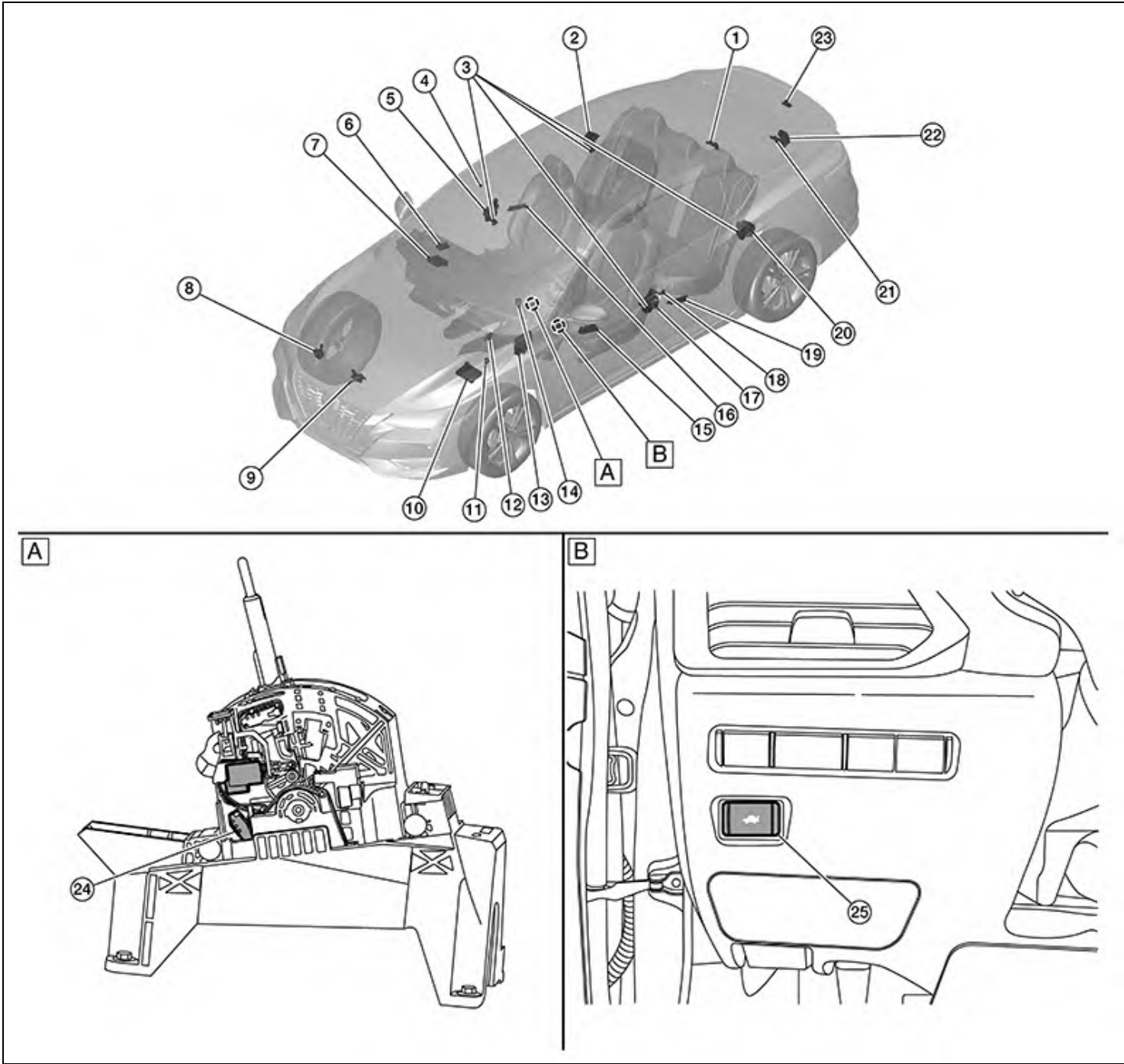


GUID-TGAWJIA0490ZZ

1.	Top tether strap anchor finisher	2.	High-mounted stop lamp	3.	Rear parcel shelf finisher
4.	Rear seatback finisher		Pawl		Clip
	Metal clip				

Component Parts Location

GUID-411AE875-ECAF-4731-A95C-89766D187ACB



GUID-TGAWKIA0908ZZ

A	View with CVT shift selector	B	Left side of instrument panel
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No.	Component	Function
1.	Inside key antenna (trunk room)	Inside key antenna (trunk room) detects whether Intelligent Key is inside the vehicle or not, and then transmits the signal to the Intelligent Key unit.

1. CHECK FUSE

1. Check that the following fuse is not blown (open):

Signal name	Fuse No.	Capacity
Ignition power supply	3	10 A

Is the fuse blown (open)?

YES >>

Replace the blown (open) fuse after replacing the cause of blown (open).

NO >>

[GO TO 2.](#)

2. CHECK BRAKE PEDAL POSITION SWITCH SIGNAL

1. Ignition switch OFF.
2. Disconnect BCM connector.
3. Check voltage between BCM harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
BCM				
Connector	Terminal			
M142	111	Ground	Brake pedal is not depressed	Battery voltage
			Brake pedal is depressed	0 V

Is the inspection normal?

YES >>

Replace BCM. Refer to [Removal and Installation](#).

NO >>

[GO TO 3.](#)

3. CHECK BRAKE PEDAL POSITION SWITCH POWER SUPPLY CIRCUIT

1. Disconnect brake pedal position switch connector.
2. Ignition switch ON.
3. Check voltage between brake pedal position switch harness connector and ground.

5. **PERFORM DTC CONFIRMATION PROCEDURE**

1. CONSULT

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 DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

Note:

- **Freeze frame data is useful if the DTC is not detected.**
- **Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included 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 CONFIRMATION PROCEDURE.

Is DTC detected?

YES >>

[GO TO 7.](#)

NO >>

Refer to [Intermittent Incident](#).

6. **DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS**

1. CONSULT

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.

7. **DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE**

1. Inspect according to Diagnosis Procedure of the system.

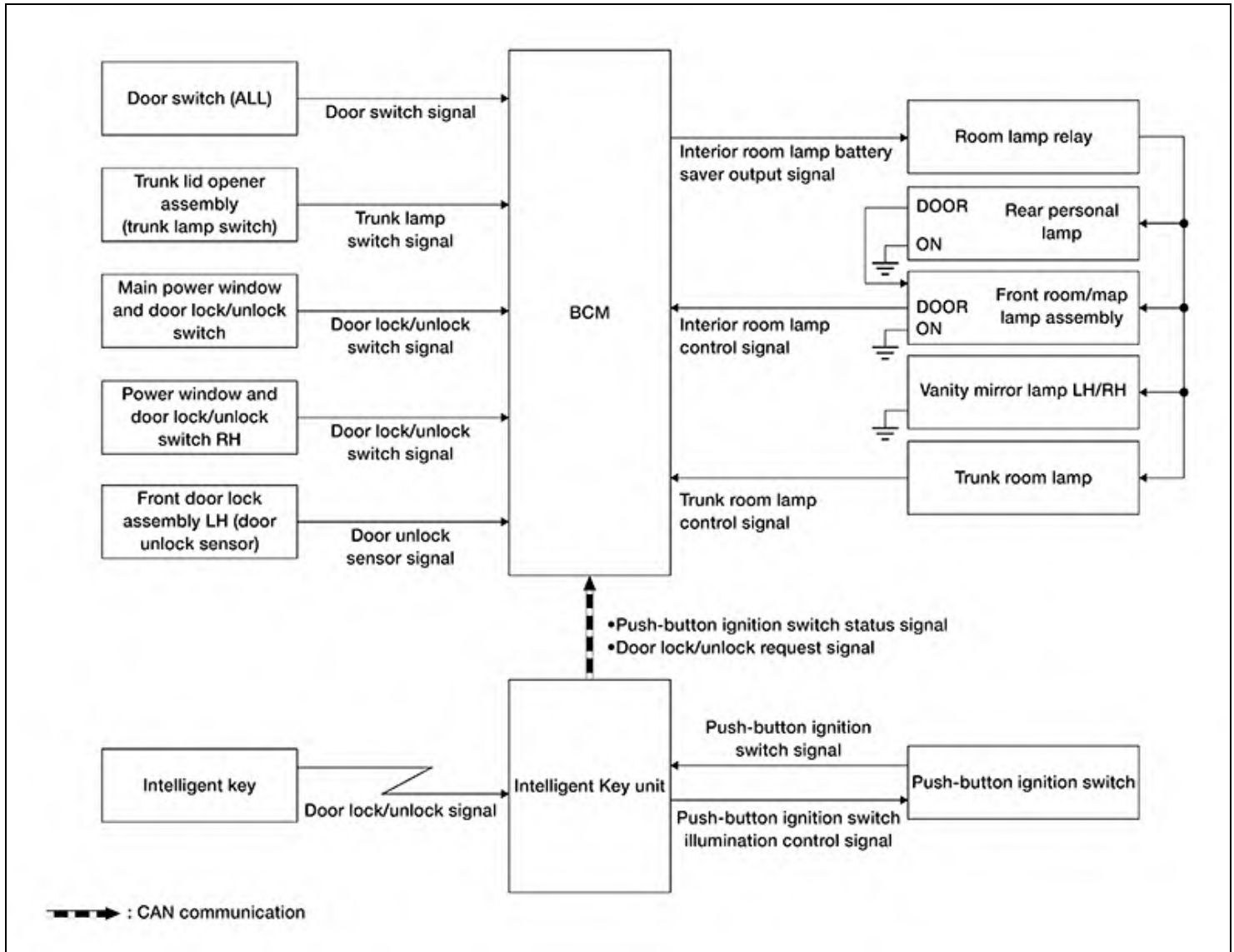
Is malfunctioning part detected?

YES >>

[GO TO 8.](#)

NO >>

SYSTEM DIAGRAM



GUID-TGALLIA0183GB

OUTLINE

- The following lamps are controlled by the interior room lamp timer control function of the BCM:
 - Front room/map lamp assembly*
 - Rear personal lamp*
- The trunk room lamp is controlled by the trunk room lamp control function of the BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of the Intelligent Key unit.

*: Interior room lamp timer control operates when the switch position is DOOR.

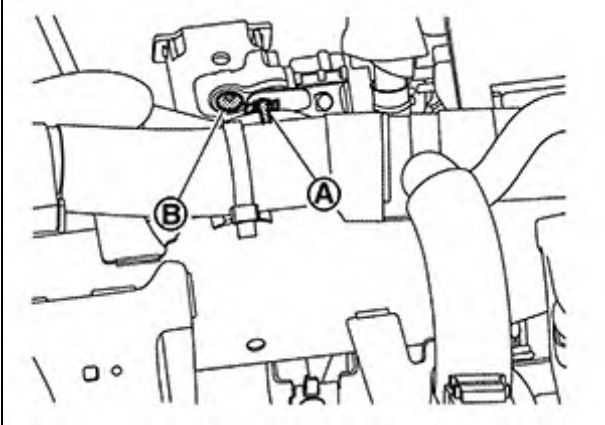
Signal transmission function list

CAUTION:

If replacing 8CH CAN gateway, Perform "ADDITIONAL SERVICE WHEN REPLACING 8CH CAN GATEWAY". Refer to [Work Procedure](#).

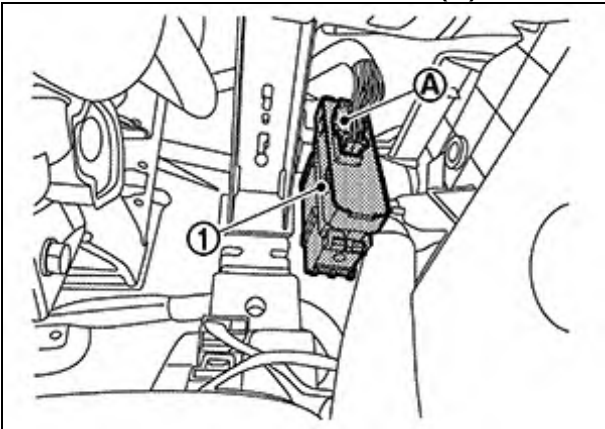
REMOVAL

- 1 Remove instrument panel assembly. Refer to [Removal and Installation](#).
- 2 Remove side ventilator duct LH. Refer to [Removal and Installation](#).
- 3 Release harness retainer (A) and remove screw (B).



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- 4 Disconnect harness connector (A) and remove 8CH CAN gateway (1).



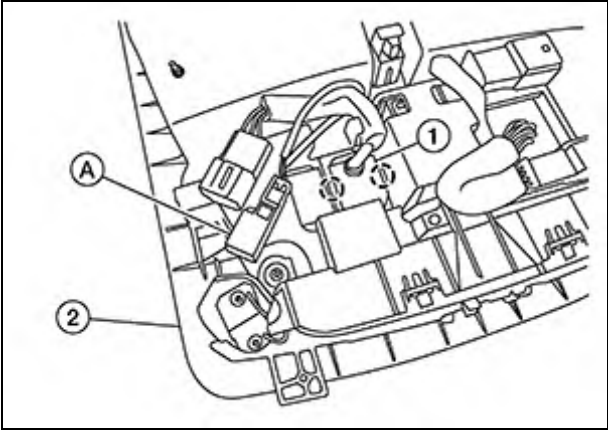
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INSTALLATION

Installation is in the reverse order of removal.

REMOVAL

- 1 Remove front room/map lamp assembly. Refer to [Removal and Installation](#).
- 2 Disconnect the harness connector (A) from front room\map lamp assembly (2).



GUID-NISALNIA1691ZZ

- 3 Release pawls and remove microphone (1).

	: Pawl
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INSTALLATION

Installation is in the reverse order of removal.