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PRECAUTION

PRECAUTIONS

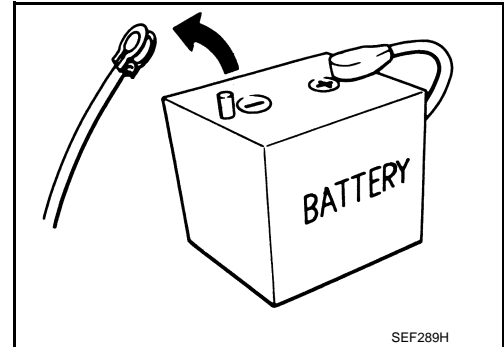
Precautions for Removing Battery Terminal

INFOID:000000013600640

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	V9X engine	: 4 minutes
D4D engine	: 20 minutes	YD25DDTi	: 2 minutes
HR09DET	: 12 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		



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**NOTE:**

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

**NOTE:**

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

**NOTE:**

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

**NOTE:**

The removal of 12V battery may cause a DTC detection error.

General Precautions

INFOID:000000013582041

**WARNING:**

When replacing fuel line parts, be sure to observe the following.

- Put a "CAUTION: FLAMMABLE" sign in the workshop.
- Be sure to work in a well ventilated area and furnish workshop with a CO2 fire extinguisher.
- Never smoke while servicing fuel system. Keep open flames and sparks away from the work area.

**CAUTION:**

- Use gasoline required by the regulations for octane number. Refer to [GI-29, "Fuel"](#).
- Before removing fuel line parts, perform out the following procedures:
  - Put drained fuel in an explosion-proof container and put the lid on securely. Keep the container in safe area.
  - Release fuel pressure from the fuel lines. Refer to [EC6-279, "Work Procedure"](#) (FOR USA AND CANADA) or [EC6-1212, "Work Procedure"](#) (FOR MEXICO).
  - Disconnect the battery cable from the negative terminal.
- Always replace O-ring and clamps with new ones.
- Never kink or twist tubes when they are being installed.
- Never tighten hose clamps excessively to avoid damaging hoses.
- After installing tubes, check there is no fuel leakage at connections in the following steps.

## PRECAUTIONS

[VR30DDTT]

< PRECAUTION >

- Apply fuel pressure to fuel lines with turning ignition switch "ON" (with engine stopped). Then check for fuel leakage at connections.
- Start engine and rev it up and check for fuel leakage at connections.
- Use only a genuine NISSAN fuel filler cap as a replacement. If an incorrect fuel filler cap is used, the "MIL" may come on.
- For servicing "On Board Refueling Vapor Recovery (ORVR)" parts, refer to [EC6-56, "On Board Refueling Vapor Recovery \(ORVR\)"](#) (FOR USA AND CANADA).

# PREPARATION

< PREPARATION >

[VR30DDTT]

## PREPARATION

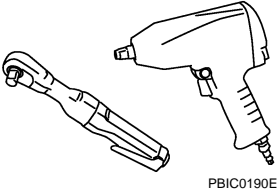
### PREPARATION

#### Commercial Service Tools

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Tool name	Description
<p data-bbox="162 411 272 436">Power tool</p>  <p data-bbox="828 630 901 646">PBIC0190E</p>	<p data-bbox="1015 411 1266 436">Loosening nuts and bolts</p>

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# SYSTEM DESCRIPTION

## SYSTEM

### WARNING/INDICATOR/CHIME LIST

#### WARNING/INDICATOR/CHIME LIST : Warning lamps/Indicator lamps

INFOID:000000013582043

Name	Design	Arrangement/Function
Low fuel warning lamp		Regarding the arrangement. Refer to <a href="#">MWI-9, "METER SYSTEM : Design"</a> . Regarding the function. Refer to <a href="#">MWI-32, "WARNING LAMPS/INDICATOR LAMPS : Low fuel warning lamp"</a> .

PERIODIC MAINTENANCE

FUEL SYSTEM

Hydraulic Layout

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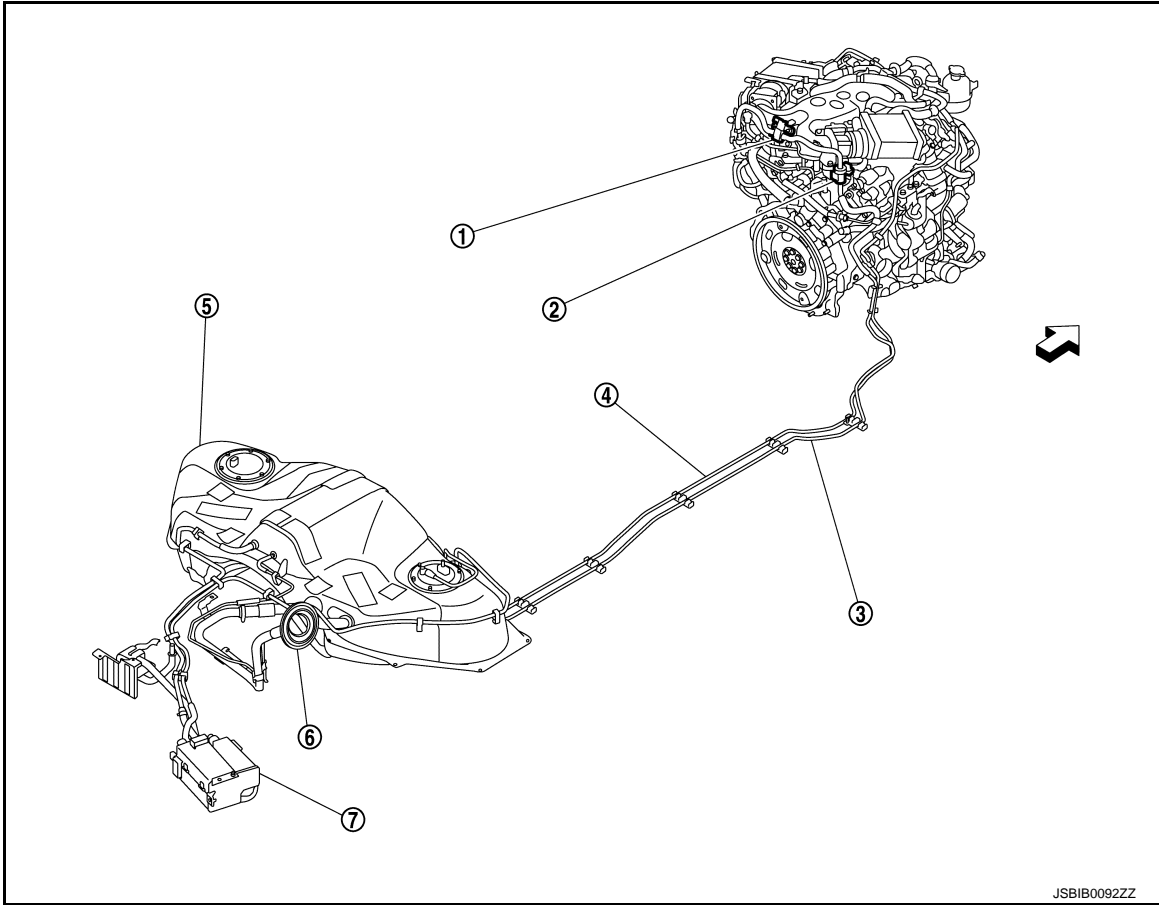
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JSBIB0092ZZ

- ① EVAP canister purge volume control solenoid valve
  - ② EVAP service port
  - ③ EVAP line
  - ④ Fuel line
  - ⑤ Fuel tank
  - ⑥ Fuel filler neck
  - ⑦ EVAP canister
- ← : Vehicle front

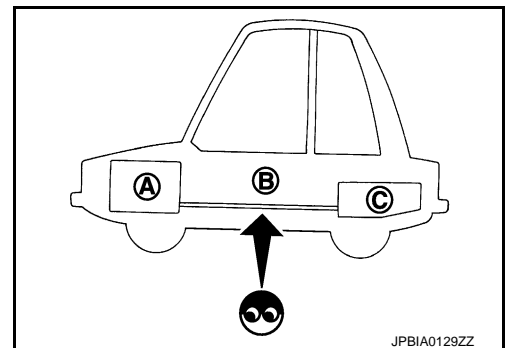
Inspection

INFOID:000000013582045

Inspect fuel lines, fuel filler cap and fuel tank for improper attachment, leakage, cracks, damage, loose connections, chafing or deterioration.

- (A) : Engine
- (B) : Fuel line
- (C) : Fuel tank

If necessary, repair or replace damaged parts.



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## Quick Connector

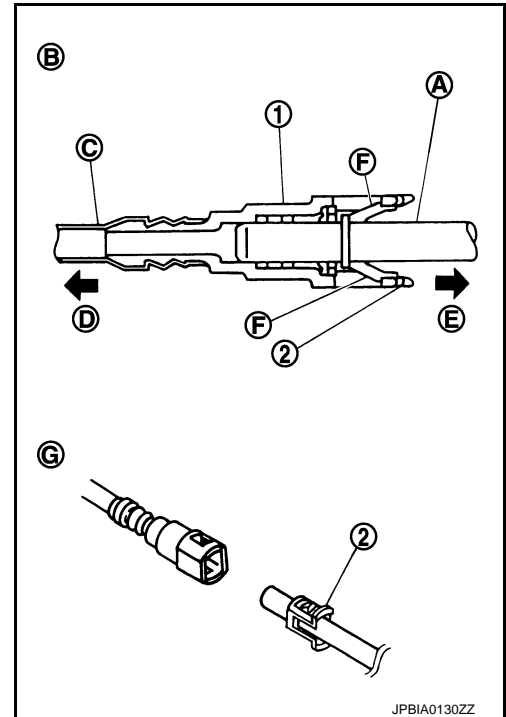
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**CAUTION:**

- After connecting fuel tube quick connectors, check quick connectors are secure.

- ① : Quick connector
- ② : Retainer
- Ⓐ : Hard tube (or the equivalent)
- Ⓑ : Connection (cross-section)
- Ⓒ : Resin tube
- Ⓓ : To under floor fuel line
- Ⓔ : To fuel tank
- Ⓕ : Tab
- Ⓖ : Disconnection

- Ensure that connector and resin tube never contact any adjacent parts.





# FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

[VR30DDTT]

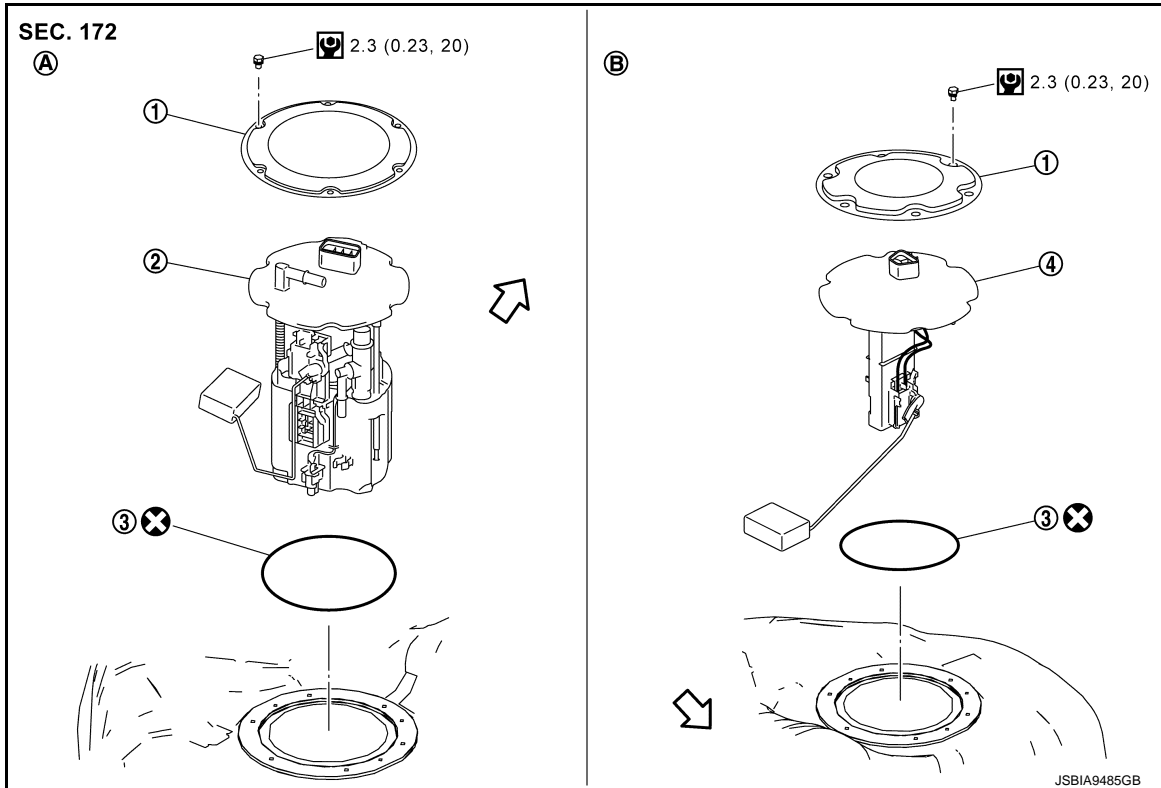
## REMOVAL AND INSTALLATION

### FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

Exploded View

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REMONVAL



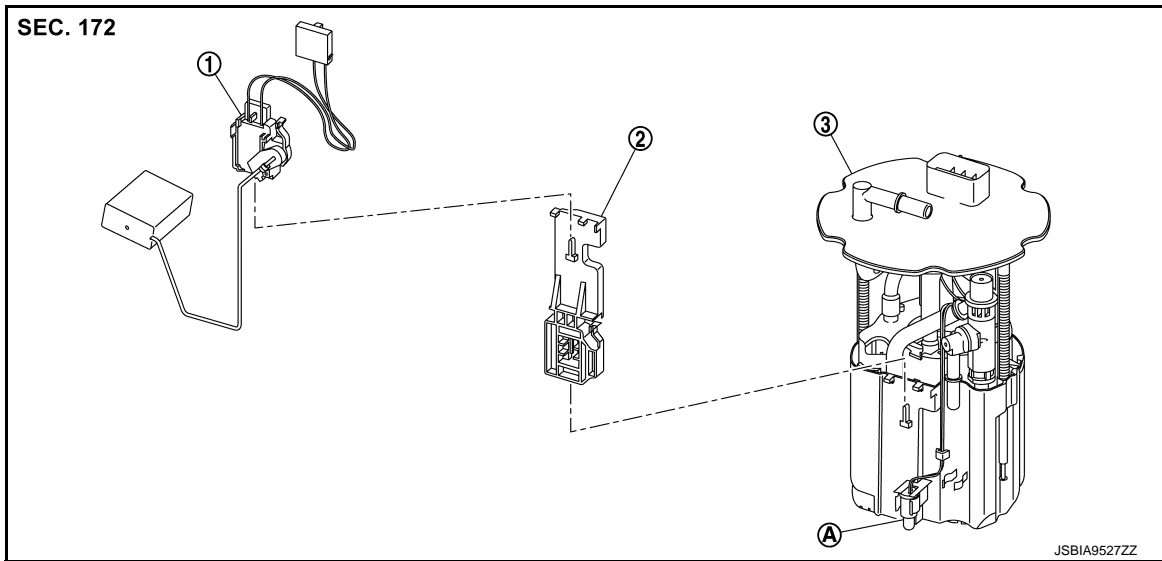
- ① Retainer
- ② Main fuel level sensor unit, fuel filter and fuel pump assembly
- ③ O-ring
- ④ Sub fuel level sensor unit
- Ⓐ Right side
- Ⓑ Left side
- ↔ : Vehicle front
- 🔧 : N·m (kg-m, in-lb)
- ⊗ : Always replace after every disassembly.

DISASSEMBLY

# FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

[VR30DDTT]



- ① Main fuel level sensor unit      ② Adapter      ③ Fuel filter and fuel pump assembly  
A Fuel tank temperature sensor

## NOTE:

Sub fuel level sensor unit cannot be disassembled and should be replaced as a unit.

## Removal and Installation

INFOID:000000013582048

## WARNING:

Read “General Precautions” when working on the fuel system. Refer to [FL-3, "General Precautions"](#).

## REMOVAL

1. Check fuel level on a level ground. If the fuel level is 7/8 of the fuel tank (full or nearly full), draw appropriate amount of fuel from the fuel tank.

**Guideline:** Draw approximately 15 liters (4 US gal, 3-2/8 Imp gal) from a full-tank condition.

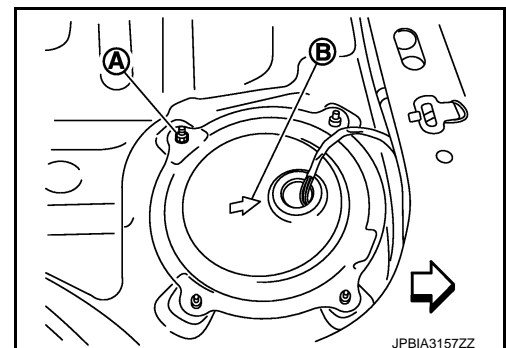
- In the event of malfunction in fuel pump, insert a hose measuring 20 mm (0.79 in) in diameter into the filler opening to draw approximately 15 liters (4 US gal, 3-2/8 Imp gal) fuel.
2. Release the fuel pressure from the fuel lines. Refer to [EC6-279, "Work Procedure"](#) (FOR USA AND CANADA) or [EC6-1212, "Work Procedure"](#) (FOR MEXICO).
  3. Open fuel filler lid.
  4. Open filler cap and release the pressure inside fuel tank.
  5. Remove rear seat cushion. Refer to [SE-101, "SEAT CUSHION : Removal and Installation"](#) (Bench seat models) or [SE-110, "SEAT CUSHION : Removal and Installation"](#) (6:4 separate seat models).
  6. Peel off floor carpet.
  7. Remove mounting nuts (A), and then inspection hole cover.

(B) : Direction mark

← : Vehicle front

**Right side** : Main fuel level sensor unit, fuel filter, and fuel pump assembly

**Left side** : Sub fuel level sensor unit



# FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

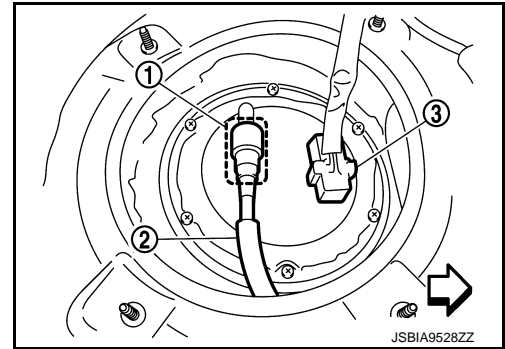
[VR30DDTT]

8. Disconnect harness connector ③ and fuel feed tube ②.

- ① : Quick connector
- ↔ : Vehicle front

**NOTE:**

- Fuel does not return to the fuel tank.
- The sub fuel level sensor unit includes a harness connector only.
- Figure shows main fuel level sensor unit, fuel filter and fuel pump assembly side of fuel tank.

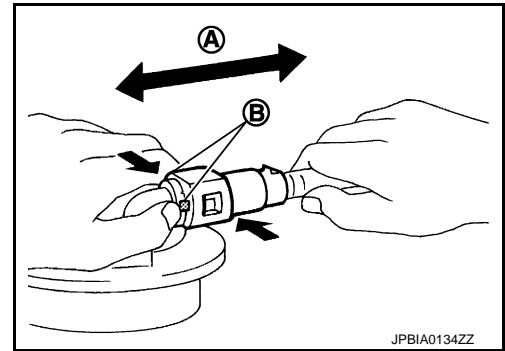


Disconnect quick connector as follows:

- Hold the sides of connector, push in tabs and pull out fuel feed tube.

- Ⓐ : Pull
- Ⓑ : Push in tabs

- If quick connector sticks to tube of main fuel level sensor unit, push and pull quick connector several times until they start to move. Then disconnect them by pulling.

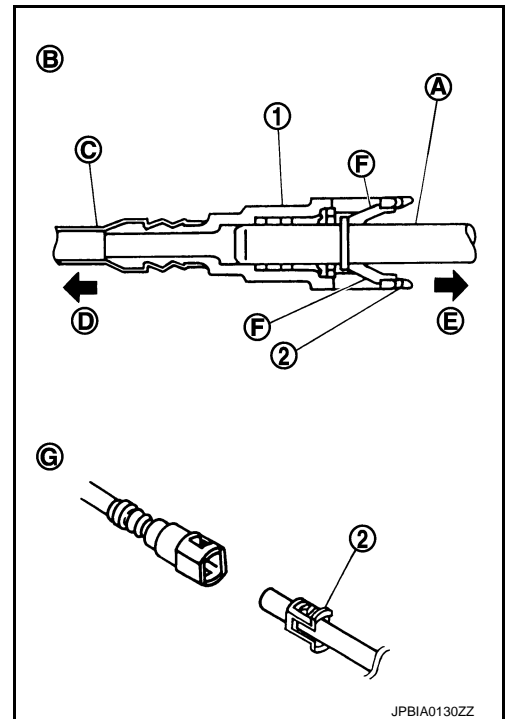


**CAUTION:**

- **Quick connector ① can be disconnected when the tabs ⑥ are completely depressed. Never twist it more than necessary.**

- Ⓑ : Connection (Cross-section)
- Ⓓ : To under floor fuel line
- Ⓔ : To fuel tank
- Ⓒ : Disconnection

- **Never use any tools to disconnected quick connector.**
- **Keep resin tube ③ away from heat. Be especially careful when welding near the resin tube.**
- **Prevent acid liquid such as battery electrolyte, etc. from getting on resin tube.**
- **Never bend or twist resin tube during installation and disconnection.**
- **Never remove the remaining retainer ② on hard tube (or the equivalent) ① except when resin tube or retainer is replaced.**
- **When resin tube or hard tube (or the equivalent) is replaced, also replace retainer with new one.**



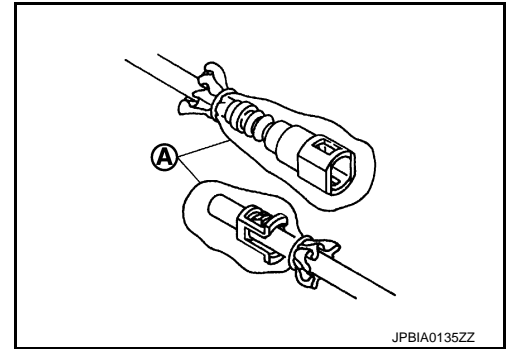
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# FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

[VR30DDTT]

- To keep the connecting portion clean and to avoid damage and foreign materials, cover them completely with plastic bags (A) or something similar.



9. Remove main fuel level sensor unit, fuel filter and fuel pump assembly, and sub fuel level sensor unit as follows:

**CAUTION:**

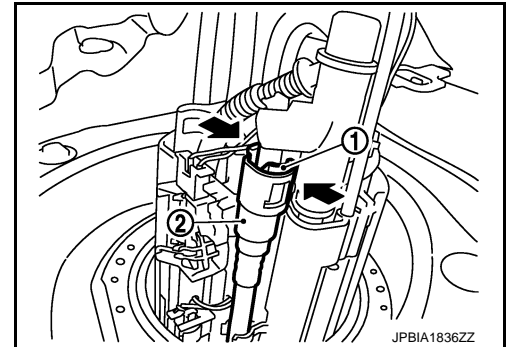
- Never bend float arm during removal.
- Avoid impacts such as falling when handling components.

- a. Removal of main fuel level sensor unit, fuel filter and fuel pump assembly:

- Remove retainer.
- Raise main fuel level sensor unit, fuel filter and fuel pump assembly, and disconnect quick connector as follows:
  - Push in tabs (1) and pull out fuel tube (2).

- b. Removal of sub fuel level sensor unit:

- Remove retainer.
- Raise and release sub fuel level sensor unit to remove.



## INSTALLATION

Note the following, and install in the reverse order of removal.

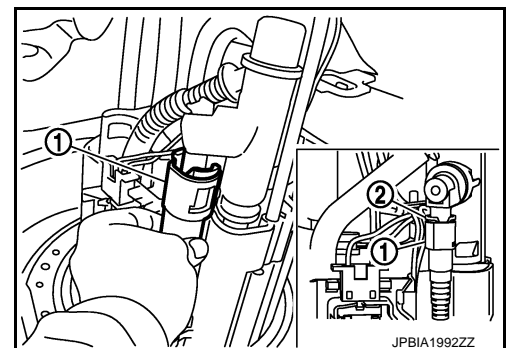
**CAUTION:**

**Do not reuse O-rings.**

Fuel hose

- When installing fuel hose connector (1), refer to "Quick Connector".

(2) : Retainer



Quick Connector

- Connect quick connector as follows:

1. Check the connection for damage or any foreign materials.
2. Align the connector with the tube, then insert the connector straight into the tube until a click sound is heard.
3. After connecting, check that the connection is secure by following method.

# FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

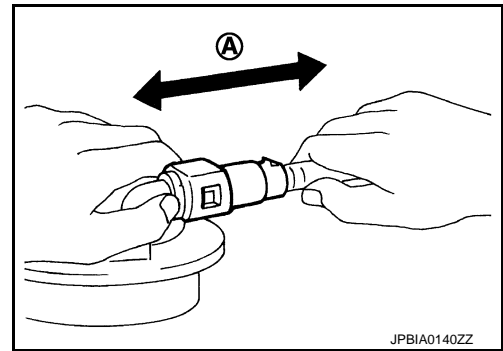
## < REMOVAL AND INSTALLATION >

[VR30DDTT]

- Pull the tube and the connector to check they are securely connected.

Ⓐ : Pull

- Visually confirm that the two retainer tabs are connected to the connector.



## Disassembly and Assembly

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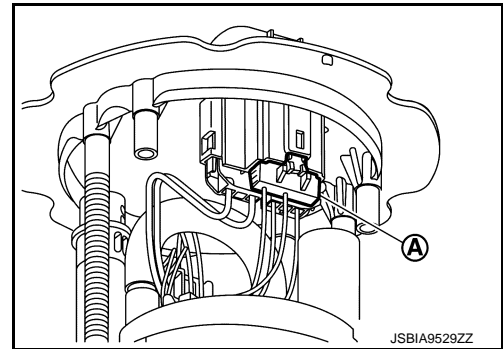
### DISASSEMBLY

#### CAUTION:

**Sub fuel level sensor unit cannot be disassembled and should be replaced as a unit.**

Remove main fuel level sensor unit as follows:

1. Disconnect harness connector Ⓐ.



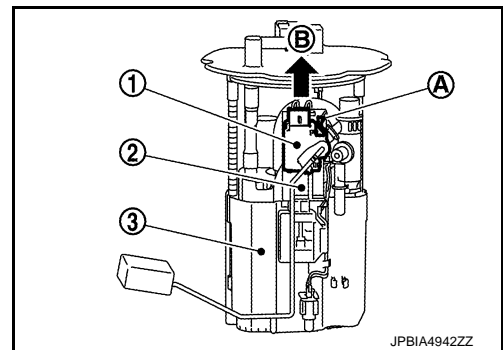
2. Remove main fuel level sensor unit ① from adapter ② as follows:

③ : Fuel filter and fuel pump assembly

- a. Push in tab Ⓐ to release the lock.
- b. After fixing tabs are disengaged, slide main fuel level sensor unit out in direction shown by the arrow Ⓑ.

#### CAUTION:

- **Be careful not to damage the main fuel level sensor unit.**
- **Never disassemble fuel filter and fuel pump assembly.**



3. Remove adapter from the fuel filter and fuel pump assembly, if necessary, in the same procedure used in removing main fuel level sensor unit.

### ASSEMBLY

#### CAUTION:

**Sub fuel level sensor unit cannot be disassembled and should be replaced as a unit.**

Note to the following, and install in the reverse order of removal.

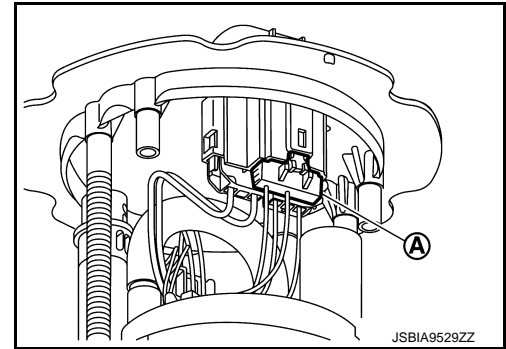
1. Install adapter, if removed.
2. Check for damage of main fuel level sensor unit installation gposition on the side of fuel filter and fuel pump assembly.
3. Slide main fuel level sensor unit until it aligns to installation groove, then insert it until it stops.
  - After inserting, apply force in reverse direction (removal direction) to ensure it cannot be pulled out.

# FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

[VR30DDTT]

4. Connect the harness connector (A).



## Inspection

INFOID:000000013582050

### INSPECTION AFTER INSTALLATION

Use the following procedure to check for fuel leakage.

1. Turn ignition switch "ON" (with engine stopped), then check connections for leakage by applying fuel pressure to fuel piping.
2. Start engine and let it idle and check there are no fuel leakage at the fuel system connections.

# FUEL TANK

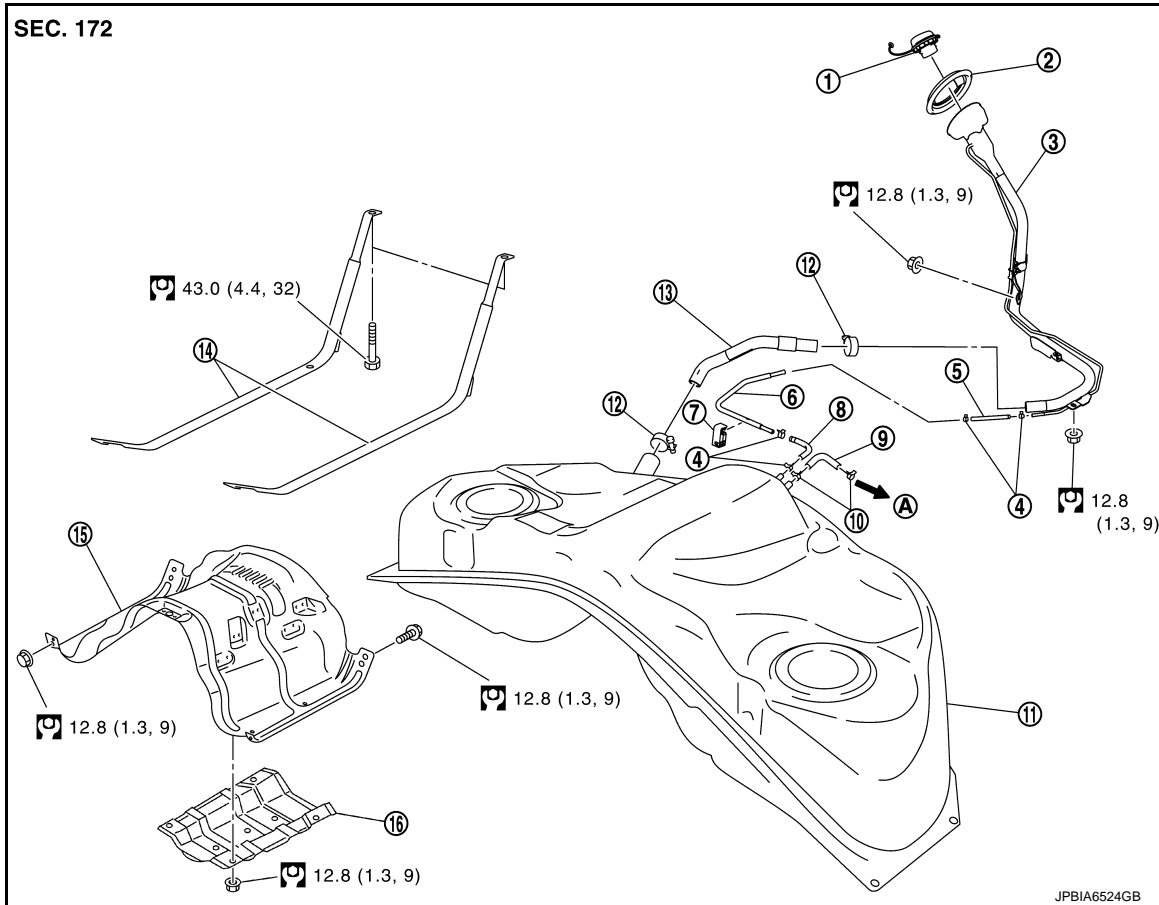
< REMOVAL AND INSTALLATION >

[VR30DDTT]

## FUEL TANK

### Exploded View

INFOID:000000013582051



- |                       |                           |                       |
|-----------------------|---------------------------|-----------------------|
| ① Fuel filler cap     | ② Grommet                 | ③ Fuel filler tube    |
| ④ Clamp               | ⑤ EVAP hose               | ⑥ EVAP tube           |
| ⑦ Clip                | ⑧ EVAP hose               | ⑨ Vent hose           |
| ⑩ Clamp               | ⑪ Fuel tank               | ⑫ Clamp               |
| ⑬ Fuel filler hose    | ⑭ Fuel tank mounting band | ⑮ Fuel tank protector |
| ⑯ Insulator           |                           |                       |
| Ⓐ To EVAP canister    |                           |                       |
| Ⓜ : N·m (kg·m, ft·lb) |                           |                       |

### Removal and Installation

INFOID:000000013582052

#### **WARNING:**

Be sure to read "General Precautions" when working on the fuel system. Refer to [FL-3, "General Precautions"](#).

#### REMOVAL

- Drain fuel from fuel tank if necessary. Refer to [FL-15, "Exploded View"](#).
  - Perform work on level place.
1. Perform steps 2 to 8 of "REMOVAL" in "FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY" on main and sub fuel level sensor units. Refer to [FL-9, "Exploded View"](#).
  2. Remove center muffler and main muffler. Refer to [EX-6, "Exploded View"](#).

# FUEL TANK

[VR30DDTT]

## < REMOVAL AND INSTALLATION >

3. Remove propeller shaft. Refer to [DLN-111. "2WD : Exploded View"](#) (2WD models) or [DLN-115. "AWD : Exploded View"](#) (AWD models).
4. Remove parking rear brake cables. Refer to [PB-9. "Exploded View"](#).
5. Remove rear suspension assembly. Refer to [RSU-24. "Exploded View"](#).

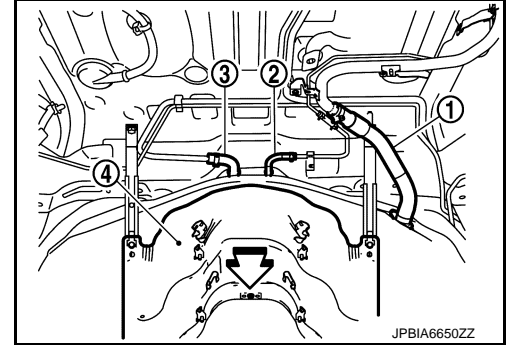
### NOTE:

For this service, drive shaft, final drive, and rear suspension member are required not to be separate one another during removal.

6. Disconnect fuel filler hose ①, EVAP hose ②, and vent hose ③ at fuel tank side.

④ : Fuel tank protector

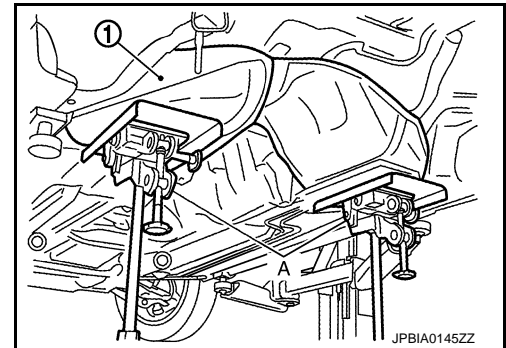
⇐ : Vehicle front



7. Remove fuel tank protector.
8. Support the lower part of fuel tank ① with transmission jack (A).

### CAUTION:

**Support the position that fuel tank mounting bands never engage.**



9. Remove fuel tank mounting bands.
10. Supporting with hands, descend transmission jack carefully, and remove fuel tank.

### CAUTION:

- Check that all connection points have been disconnected.
- Confirm there is no interference with vehicle.

11. Remove fuel filler tube if necessary.

## INSTALLATION

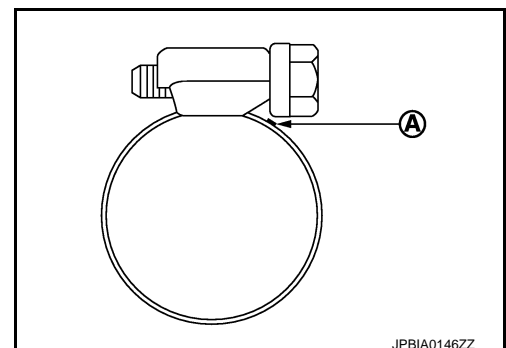
Note the following, and install in the reverse order of removal.

- Surely clamp fuel hoses and insert hose to the length below.

**Fuel filler hose : 35 mm (1.38 in)**

**The other hoses : 25 mm (0.98 in)**

- Be sure hose clamp is not placed on swelled area of fuel tube.
- Tighten the clamp hand with the top mark (A) until the mark is on the bolt head flange.





# FUEL TANK

< REMOVAL AND INSTALLATION >

[VR30DDTT]

- To connect quick connector, refer to [FL-8, "Quick Connector"](#).

## Inspection

INFOID:000000013582053

### INSPECTION AFTER INSTALLATION

Use the following procedure to check for fuel leakage.

1. Turn ignition switch "ON" (with engine stopped), and check connections for leakage by applying fuel pressure to fuel piping.
  2. Start engine and rev it up and check there are no fuel leakage at the fuel system tube and hose connections.
- After removing/installing rear suspension assembly, check to adjust wheel alignment and then, adjust neutral position of steering angle sensor. Refer to [RSU-6, "Inspection"](#) and [ST-18, "Inspection"](#).

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# EVAP CANISTER

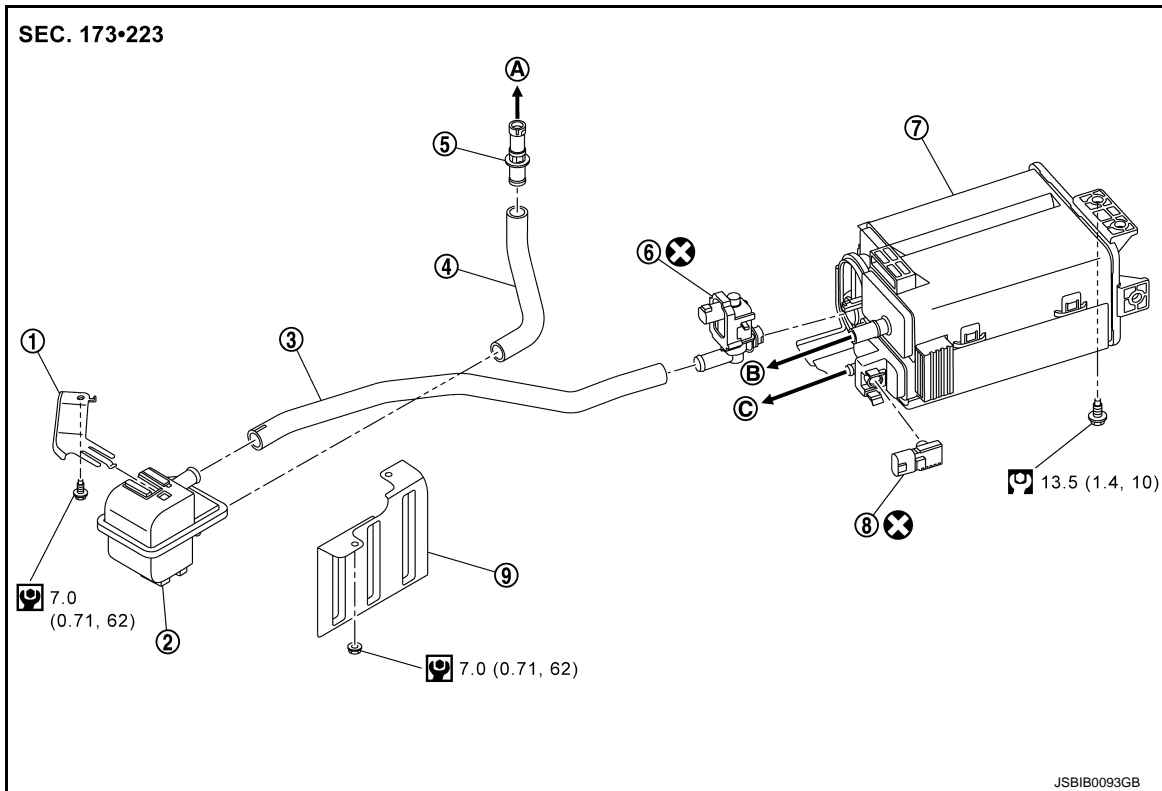
< REMOVAL AND INSTALLATION >

[VR30DDTT]

## EVAP CANISTER

### Exploded View

INFOID:000000013582054



- |                  |                                       |  |
|------------------|---------------------------------------|--|
| ① Bracket        | ② Canister filter                     | ③ Vent hose  |
| ④ Vent hose      | ⑤ Connector                           | ⑥ EVAP canister vent control valve                     |
| ⑦ EVAP canister  | ⑧ EVAP control system pressure sensor | ⑨ Insulator  |
| Ⓐ To floor panel | Ⓑ To fuel tank                        | Ⓒ To EVAP canister purge volume control solenoid valve |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Always replace after every disassembly.

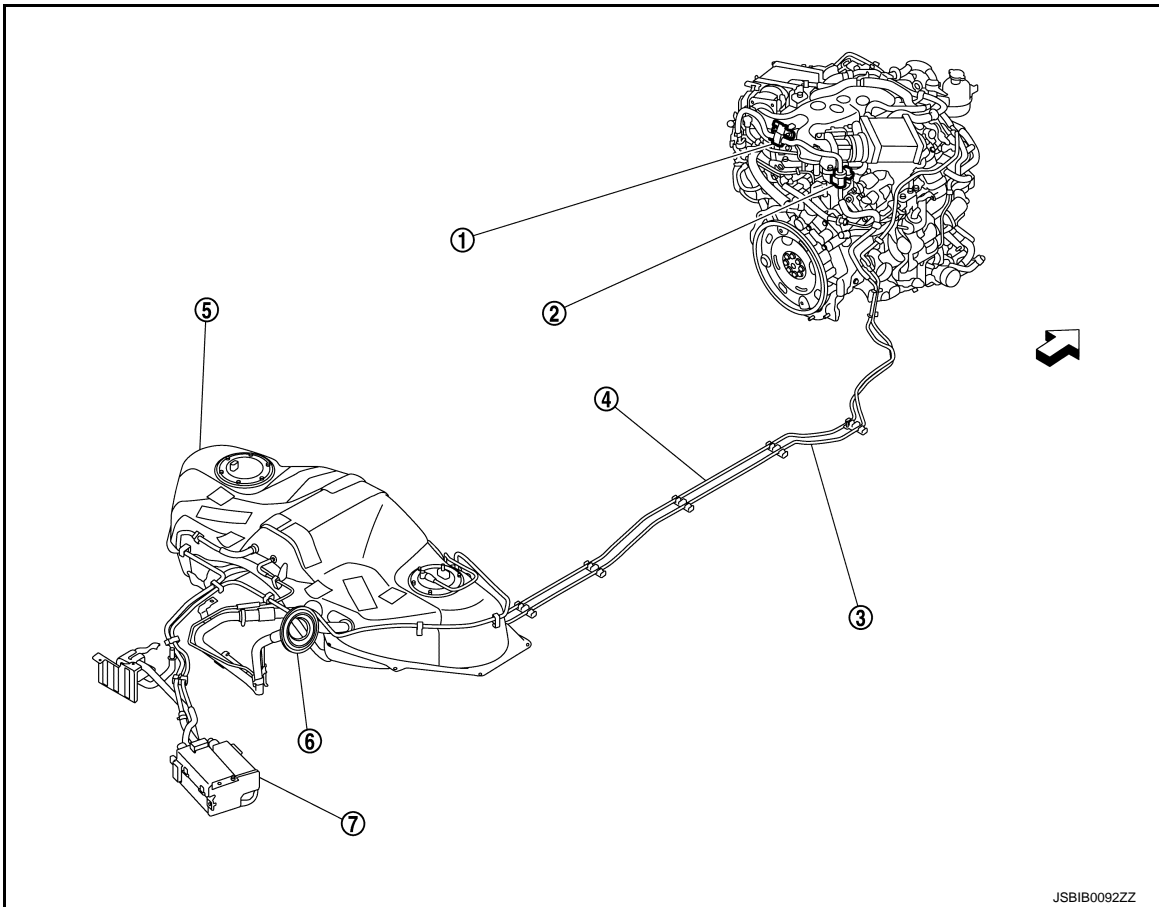
# EVAP CANISTER

< REMOVAL AND INSTALLATION >

[VR30DDTT]

## Hydraulic Layout

INFOID:000000013582055



- |   |                     |                    |
|---|---------------------|--------------------|
| ① EVAP canister purge volume control solenoid valve | ② EVAP service port | ③ EVAP line        |
| ④ Fuel line   | ⑤ Fuel tank         | ⑥ Fuel filler neck |
| ⑦ EVAP canister                                     |                     |                    |
- ← : Vehicle front

## Removal and Installation

INFOID:000000013582056

### REMOVAL

1. Disconnect each hoses and connectors.
2. Remove EVAP canister fixing bolt.
3. Remove EVAP canister.

### INSTALLATION

Install in the reverse order of removal.

## Disassembly and Assembly

INFOID:000000013582057

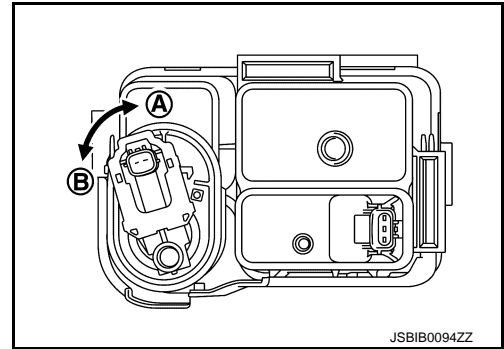
### DISASSEMBLY

# EVAP CANISTER

[VR30DDTT]

## < REMOVAL AND INSTALLATION >

1. Disengage the pawl and turn EVAP canister vent control valve counterclockwise.
  - Lock (A)
  - Unlock (B)
2. Remove the EVAP canister vent control valve.
3. Remove the EVAP control system pressure sensor.



JSBIB0094ZZ

## ASSEMBLY

Assemble in the reverse order of disassembly.

### CAUTION:

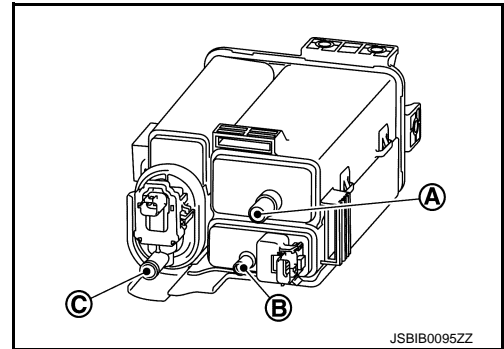
**Always replace O-ring with a new one.**

## Inspection

INFOID:000000013582058

Check EVAP canister as per the following:

1. Block port (B).
2. Blow air into port (A) and check that it flows freely out of port (C).
3. Release blocked port (B).
4. Apply vacuum pressure to port (B) and check that vacuum pressure exists at the ports (A) and (C).
5. Block port (A) and (B).
6. Apply pressure to port (C) and check that there is no leakage.



JSBIB0095ZZ

# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[VR30DDTT]

## SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Fuel Tank

INFOID:0000000013582059

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Standard and Limit

Fuel tank capacity	Approx. 75.6 ℓ (20 US gal, 16-5/8 Imp gal)
Fuel recommendation	Refer to <a href="#">GI-29, "Fuel"</a>

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< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

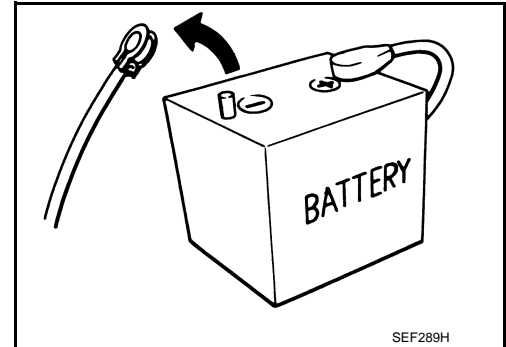
#### Precautions for Removing Battery Terminal

INFOID:000000013519227

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	V9X engine	: 4 minutes
D4D engine	: 20 minutes	YD25DDTi	: 2 minutes
HR09DET	: 12 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		



#### NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

#### NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

#### NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

#### NOTE:

The removal of 12V battery may cause a DTC detection error.

#### General Precautions

INFOID:000000013501737

#### WARNING:

When replacing fuel line parts, be sure to observe the following.

- Put a "CAUTION: FLAMMABLE" sign in the workshop.
- Be sure to work in a well ventilated area and furnish workshop with a CO<sub>2</sub> fire extinguisher.
- Never smoke while servicing fuel system. Keep open flames and sparks away from the work area.

#### CAUTION:

- Use gasoline required by the regulations for octane number. Refer to [GI-29, "Fuel"](#).
- Before removing fuel line parts, perform out the following procedures:
  - Put drained fuel in an explosion-proof container and put the lid on securely. Keep the container in safe area.
  - Release fuel pressure from the fuel lines. Refer to [EC4-220, "Work Procedure"](#).
  - Disconnect the battery cable from the negative terminal.
- Always replace O-ring and clamps with new ones.
- Never kink or twist tubes when they are being installed.
- Never tighten hose clamps excessively to avoid damaging hoses.
- After installing tubes, check there is no fuel leakage at connections in the following steps.
  - Apply fuel pressure to fuel lines with turning ignition switch "ON" (with engine stopped). Then check for fuel leakage at connections.

# PRECAUTIONS

[2.0L TURBO GASOLINE ENGINE]

< PRECAUTION >

- Start engine and rev it up and check for fuel leakage at connections.
- Use only a genuine NISSAN fuel filler cap as a replacement. If an incorrect fuel filler cap is used, the “MIL” may come on.
- For servicing “On Board Refueling Vapor Recovery (ORVR)” parts, refer to [EC4-43. "On Board Refueling Vapor Recovery \(ORVR\)"](#).

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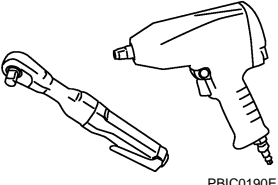
< PREPARATION >

# PREPARATION

## PREPARATION

### Commercial Service Tools

INFOID:000000012958233

Tool name	Description
<p data-bbox="162 415 272 441">Power tool</p>  <p data-bbox="828 630 901 646">PBIC0190E</p>	<p data-bbox="1015 415 1263 441">Loosening bolts and nuts</p>



SYSTEM DESCRIPTION

STRUCTURE AND OPERATION  
FUEL TRANSPORTATION IN FUEL TANK

FUEL TRANSPORTATION IN FUEL TANK : System Description

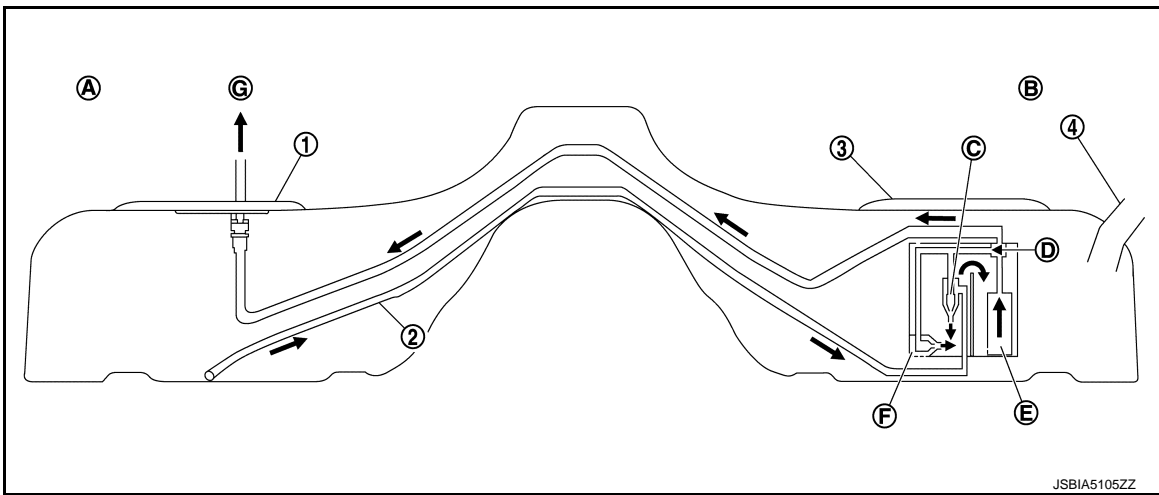
INFOID:0000000012958234

The electric fuel pump and the transfer jet pump are integrated with the fuel level sensor unit, fuel filter and fuel pump assembly. This is installed to the fuel tank.

The transfer jet pumps draw up fuel using a flow of discarded fuel. The transfer jet pump (sub side) transfers fuel from the sub side to inside of the fuel pump assembly. The transfer jet pump (main side) transfers fuel from the main side to inside of the fuel pump assembly. The fuel sent to fuel pump assembly is supplied to the engine by an electric fuel pump.

**NOTE:**

Fuel on the sub side is consumed first.



- ① Sub fuel level sensor unit
- ② Transfer tube
- ③ Main fuel level sensor unit, fuel filter and fuel pump assembly
- ④ Fuel filler hose
- ⑤ Pressure regulator
- ⑥ Electric fuel pump
- ⑦ Transfer jet pump (sub side)
- ⑧ Transfer jet pump (main side)
- Ⓐ Sub side
- Ⓑ Main side
- Ⓒ Feed line

# SYSTEM

< SYSTEM DESCRIPTION >


[2.0L TURBO GASOLINE ENGINE]

## SYSTEM

### WARNING/INDICATOR/CHIME LIST

#### WARNING/INDICATOR/CHIME LIST : Warning lamps/Indicator lamps

INFOID:0000000012958235

Name	Design	Arrangement/Function
Low fuel warning lamp		Regarding the arrangement. Refer to <a href="#">MWI-9, "METER SYSTEM : Design"</a> . Regarding the function. Refer to <a href="#">MWI-32, "WARNING LAMPS/INDICATOR LAMPS : Low fuel warning lamp"</a> .

## PERIODIC MAINTENANCE

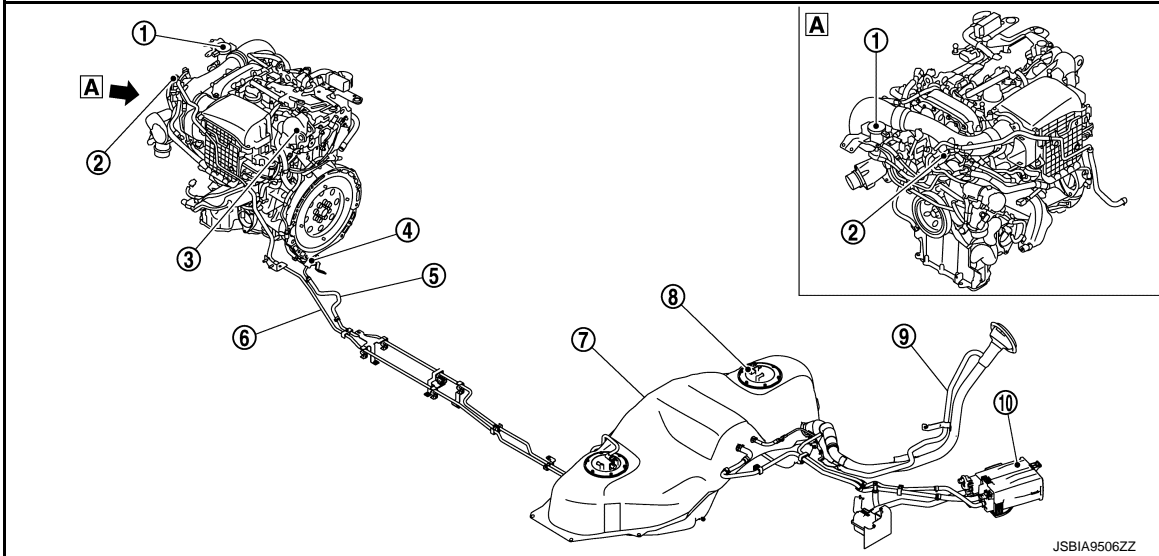
### FUEL SYSTEM

#### Hydraulic Layout

INFOID:000000012958236

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- |                            |  |                           |
|----------------------------|--|---------------------------|
| ① EVAP purge control valve | ② EVAP control system pressure sensor                        | ③ High pressure fuel pump |
| ④ Fuel pressure sensor     | ⑤ Fuel line  | ⑥ EVAP line               |
| ⑦ Fuel tank                | ⑧ Main fuel level sensor, fuel filter and fuel pump assembly | ⑨ Fuel filler neck        |
| ⑩ EVAP canister            |  |                           |

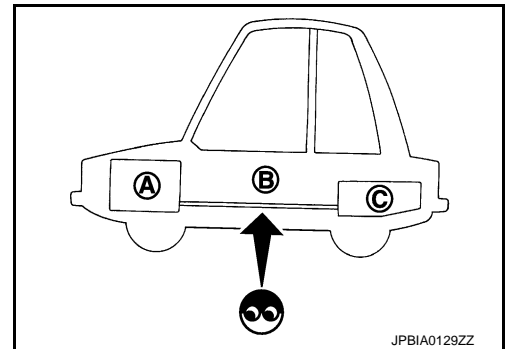
#### Inspection

INFOID:000000012958237

Inspect fuel lines, fuel filler cap, and fuel tank for improper attachment, leakage, cracks, damage, loose connections, chafing, or deterioration.

- Ⓐ : Engine
- Ⓑ : Fuel line
- Ⓒ : Fuel tank

If necessary, repair or replace damaged parts.



INFOID:000000012958238

#### Quick Connector

#### CAUTION:

- After connecting fuel tube quick connectors, check quick connectors are secure.

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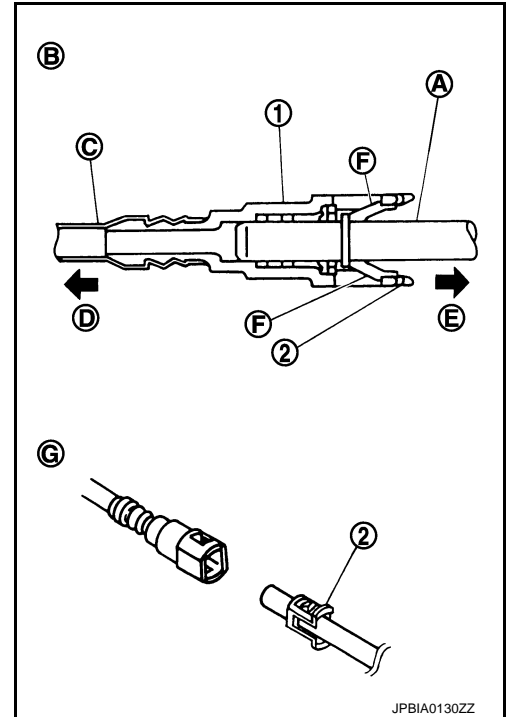
# FUEL SYSTEM

< PERIODIC MAINTENANCE >

[2.0L TURBO GASOLINE ENGINE]

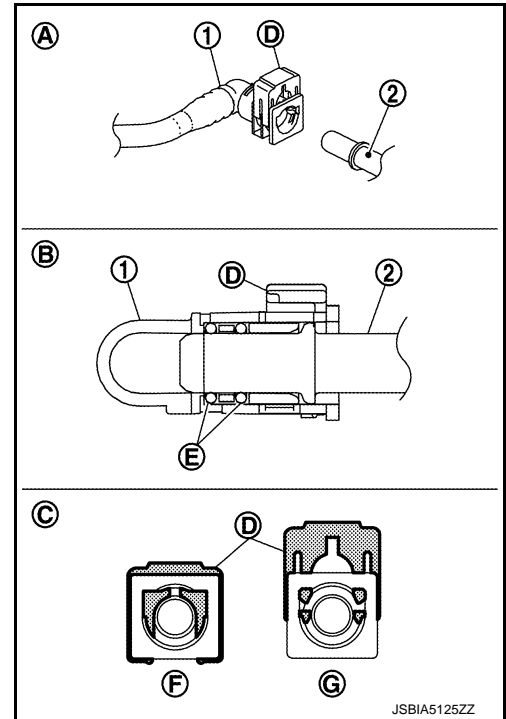
## - Type A

- ① : Quick connector
- ② : Retainer
- Ⓐ : Hard tube (or the equivalent)
- Ⓑ : Connection (cross-section)
- Ⓒ : Resin tube
- Ⓓ : To under floor fuel line
- Ⓔ : To fuel tank
- Ⓕ : Tab
- Ⓖ : Disconnection



## - Type B

- ① : Quick connector
- ② : Hard tube (or the equivalent)
- Ⓐ : Disconnection
- Ⓑ : Connection (cross-section)
- Ⓒ : Condition
- Ⓓ : Retainer
- Ⓔ : O-ring
- Ⓕ : Lock
- Ⓖ : Unlock



• Ensure that connector and resin tube never contact any adjacent parts.

# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

## REMOVAL AND INSTALLATION

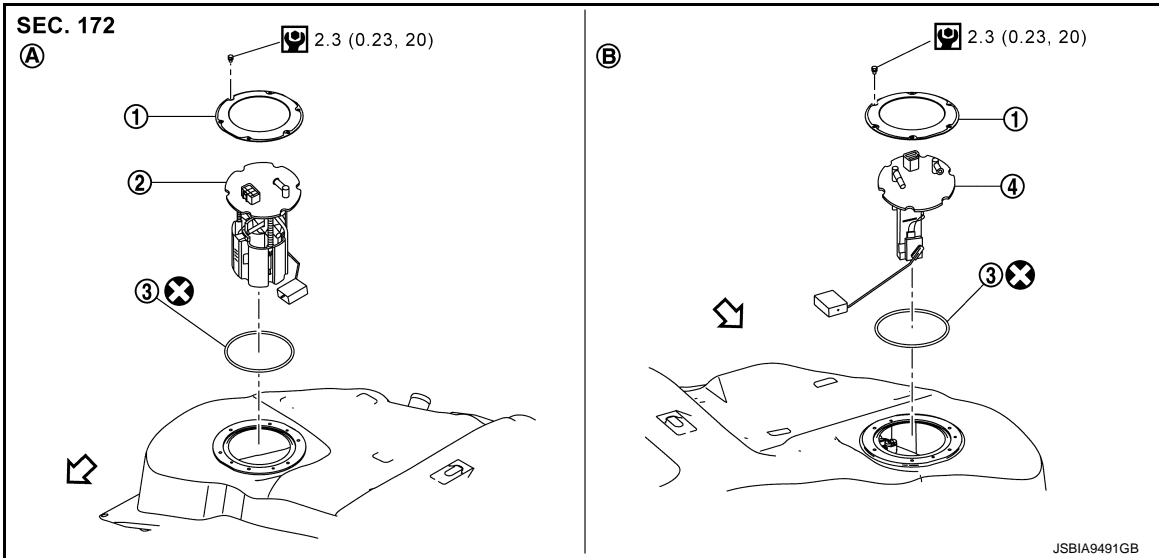
### FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

Exploded View

INFOID:0000000012958239

A  
FL

#### REMOVAL



- ① Retainer  
② Main fuel level sensor unit, fuel filter and fuel pump assembly  
③ O-ring

- ④ Sub fuel level sensor unit

- Ⓐ Right side

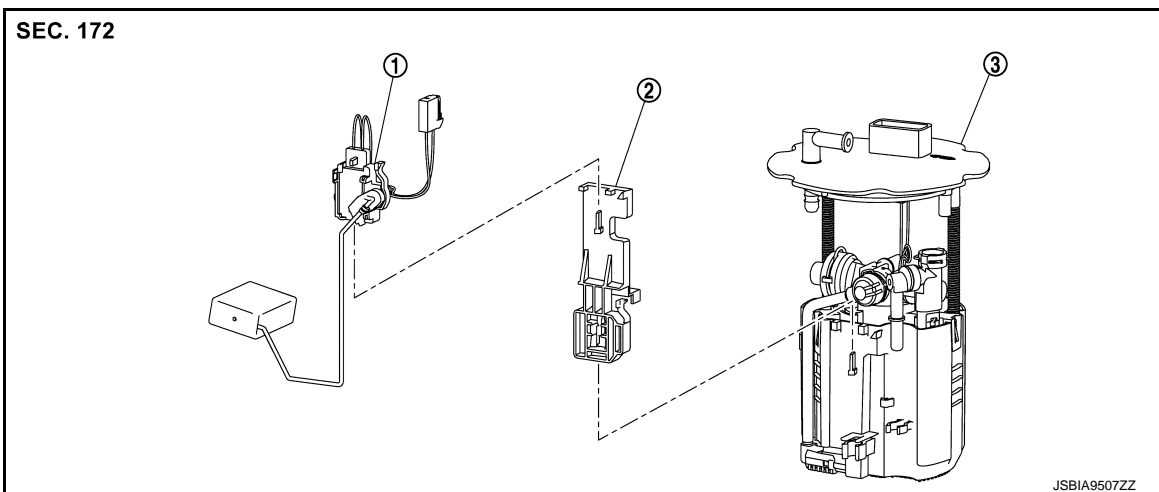
- Ⓑ Left side

← : Vehicle front

🔧 : N-m (kg-m, in-lb)

⊗ : Always replace after every disassembly.

#### DISASSEMBLY



- ① Main fuel level sensor unit

- ② Adapter

- ③ Fuel filter and fuel pump assembly

#### NOTE:

Sub fuel level sensor unit cannot be disassembled and should be replaced as a unit.

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# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

## Removal and Installation

INFOID:000000012958240

### WARNING:

Read "General Precautions" when working on the fuel system. Refer to [FL-22, "General Precautions"](#).

### REMOVAL

1. Check fuel level on a level ground. If the fuel level is 7/8 of the fuel tank (full or nearly full), draw appropriate amount of fuel from the fuel tank.

**Guideline:** Draw approximately 15 liters (3-2/8 Imp gal) from a full-tank condition.

- In the event of malfunction in fuel pump, insert a hose measuring 20 mm (0.79 in) in diameter into the filler opening to draw approximately 15 liters (3-2/8 Imp gal) fuel.

2. Check DTC using CONSULT.

#### NOTE:

Before starting the work procedure, check if there is already-detected DTC to distinguish it from DTC detected during fuel pressure release.

3. Release fuel pressure as follows:

- a. Remove fuel pump 15A fuse (No.101) located in fuse and fusible link holder-2. Refer to [PG-199, "Fuse and Fusible Link Arrangement"](#).
- b. Start the engine.
- c. After engine stalls, crank it two or three times to release all fuel pressure.
- d. Turn ignition switch OFF.

4. Open fuel filler lid.

5. Open filler cap and release the pressure inside fuel tank.

6. Remove rear seat cushion. Refer to [SE-98, "Exploded View"](#) (Bench seat models) or [SE-103, "Exploded View"](#) (6:4 separate seat models).

7. Peel off floor carpet.

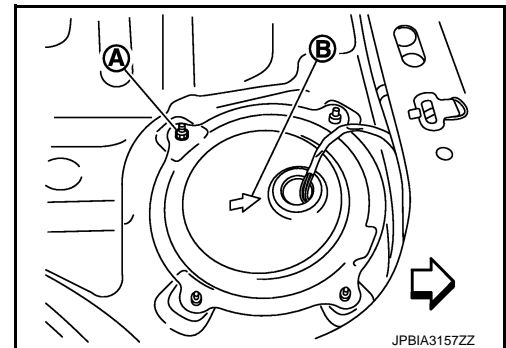
8. Remove mounting nuts (A), and then inspection hole cover.

(B) : Direction mark

← : Vehicle front

**Right side** : Main fuel level sensor unit, fuel filter, and fuel pump assembly

**Left side** : Sub fuel level sensor unit



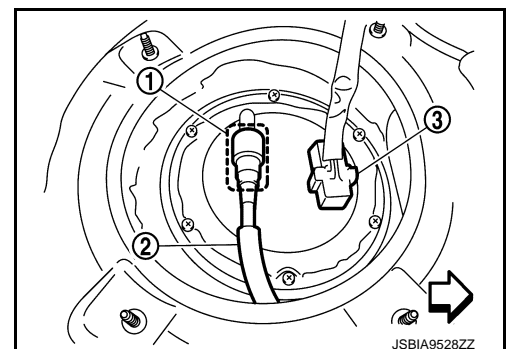
9. Disconnect harness connector (3) and fuel feed tube (2)

(1) : Quick connector

← : Vehicle front

#### NOTE:

- The sub fuel level sensor unit includes a harness connector and fuel tubes.
- Figure shows main fuel level sensor unit, fuel filter and fuel pump assembly side of fuel tank.



Disconnect quick connector as follows:

# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

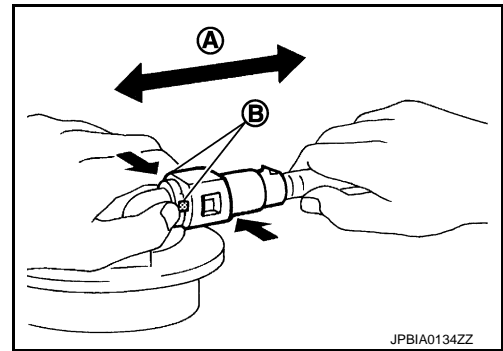
## < REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

- Hold the sides of connector, push in tabs and pull out fuel tube.

- Ⓐ : Pull
- Ⓑ : Push in tabs

- If quick connector sticks to tube of sub fuel level sensor unit, push and pull quick connector several times until they start to move. Then disconnect them by pulling.

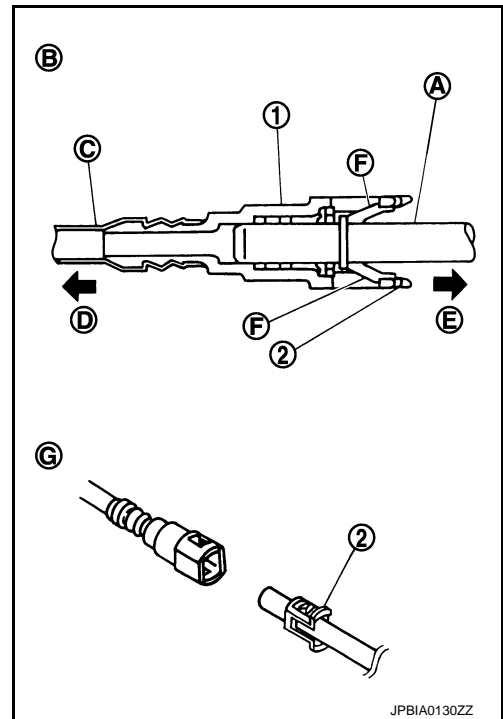


### CAUTION:

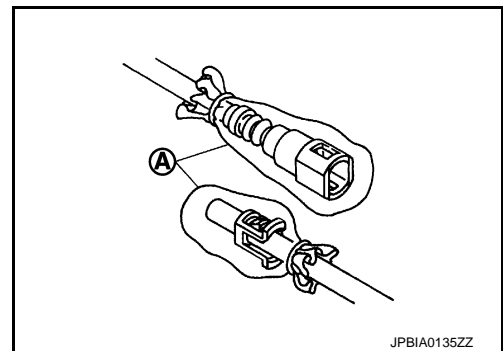
- Quick connector ① can be disconnected when the tabs ⑥ are completely depressed. Never twist it more than necessary.

- Ⓑ : Connection (Cross-section)
- Ⓓ : To under floor fuel line
- Ⓔ : To fuel tank
- Ⓒ : Disconnection

- Never use any tools to disconnected quick connector.
- Keep resin tube ③ away from heat. Be especially careful when welding near the resin tube.
- Prevent acid liquid such as battery electrolyte, etc. from getting on resin tube.
- Never bend or twist resin tube during installation and disconnection.
- Never remove the retainer ② on hard tube (or the equivalent) ① except when resin tube or retainer is replaced.
- When resin tube or hard tube (or the equivalent) is replaced, also replace retainer with new one.



- To keep the connecting portion clean and to avoid damage and foreign materials, cover them completely with plastic bags ① or something similar.



- Remove main fuel level sensor unit, fuel filter and fuel pump assembly, and sub fuel level sensor unit as follows:

### CAUTION:

- Never bend float arm during removal.
- Avoid impacts such as falling when handling components.

- a. Removal of main fuel level sensor unit, fuel filter and fuel pump assembly:
  - i. Remove retainer.

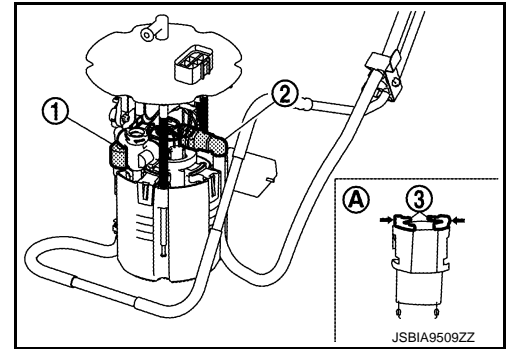
# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

[2.0L TURBO GASOLINE ENGINE]

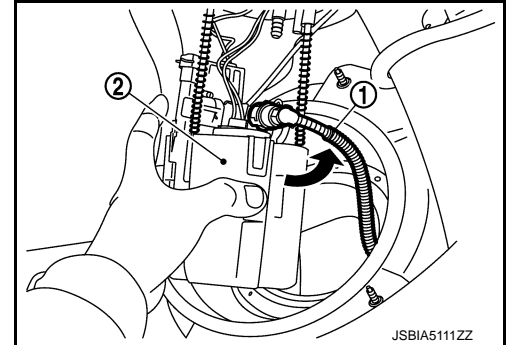
## < REMOVAL AND INSTALLATION >

ii. Raise main fuel level sensor unit, fuel filter and fuel pump assembly, and disconnect quick connector (A) as follows:

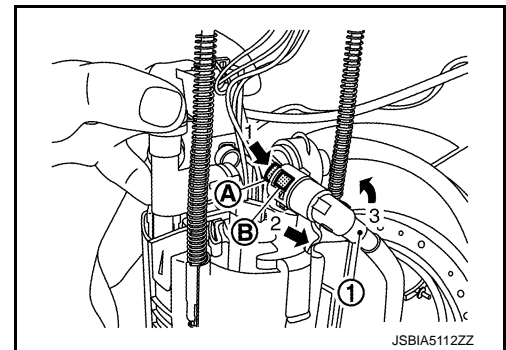
- ① : Transfer tube
- ② : Feed tube
- ③ : Tab



1. Remove feed tube (1) from the mounting groove of fuel pump (2). (Rotate feed tube counterclockwise.)



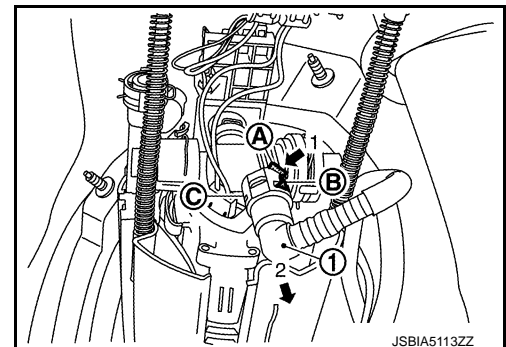
2. Push tab (A) and rotate feed tube (1) counterclockwise with pawl (B) of quick connector unlatched.



3. Push tab (A) and pull out quick connector (1) from fuel pump with pawl (B) of quick connector unlatched.

**NOTE:**

Before pulling out quick connector, check that pawl (C) is unlatched.



b. Removal of sub fuel level sensor unit:

i. Remove retainer.

ii. Raise sub fuel level sensor unit, and disconnect quick connector (A) as follows:

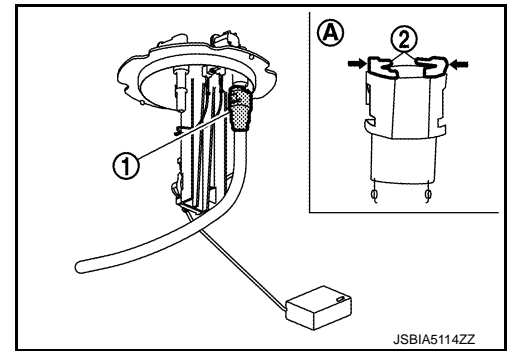


# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

## < REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

- Push in tabs ② and pull out feed tube ①.



### INSTALLATION

Note the following, and install in the reverse order of removal.

#### CAUTION:

- Install fuel pump 15A fuse before installing battery negative terminal.
- Check for fuel leakage before installing inspection hole cover. Refer to [FL-35, "Inspection"](#).
- Do not reuse O-rings.
- Check DTC and erase DTC.

#### NOTE:

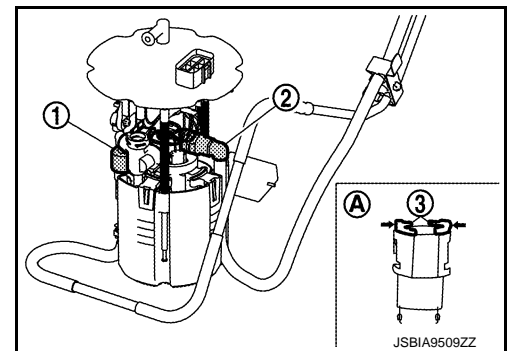
Erase DTC detected while releasing fuel pressure.

#### Fuel hose

When installing fuel hose connector, refer to "Quick Connector".

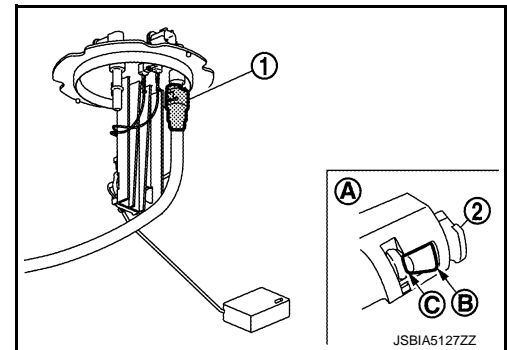
- Main fuel level sensor unit, fuel filter and fuel pump assembly

- ① : Transfer tube
- ② : Feed tube
- ③ : Tab



- Sub fuel level sensor unit

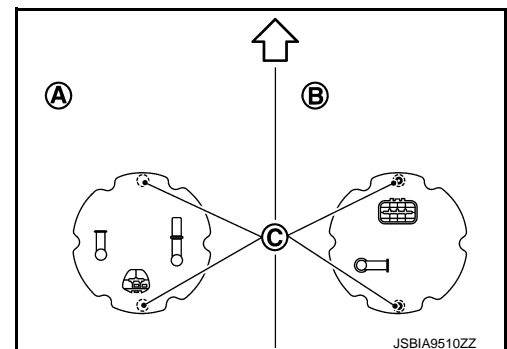
- ① : Feed tube
- ② : Retainer
- (A) : Connection
- (B) : Housing side
- (C) : Bulge



#### Main and Sub Fuel Level Sensor Unit

- Face main and sub fuel level sensor units as shown in the figure, and install them with the knock pin (C) on back aligned with pin hole on fuel tank.

- (A) : Left side
- (B) : Right side
- ← : Vehicle front



# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

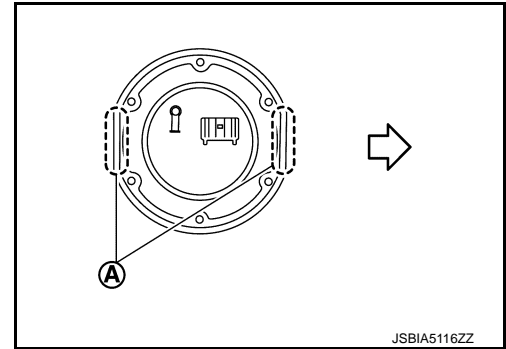
[2.0L TURBO GASOLINE ENGINE]

- Install retainer so that its notch becomes parallel with the notch on fuel tank.

Ⓐ : Align notches

← : Vehicle front

- Tighten retainer mounting bolts evenly.



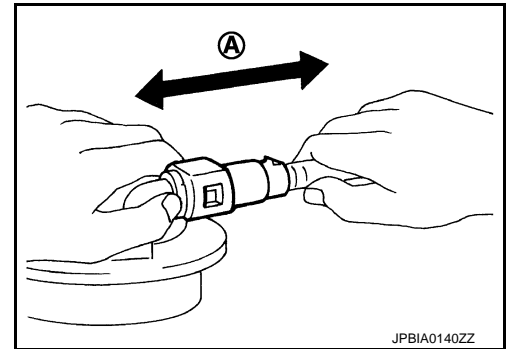
## Quick Connector

Connect quick connector as follows:

1. Check the connection for damage or any foreign materials.
2. Align the connector with the tube, then insert the connector straight into the tube until a click sound is heard.
3. After connecting, check that the connection is secure by following method.
  - Pull the tube and the connector to check they are securely connected.

Ⓐ : Pull

- Visually confirm that the two retainer tabs are connected to the connector.



## Disassembly and Assembly

INFOID:000000012958241

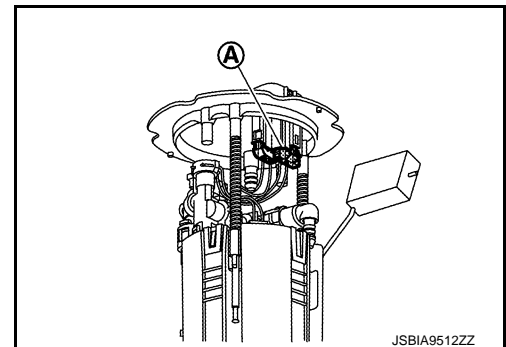
### DISASSEMBLY

#### CAUTION:

**Sub fuel level sensor unit cannot be disassembled and should be replaced as a unit.**

Remove main fuel level sensor unit as follows:

1. Disconnect harness connector Ⓐ.
  - a. Hold connector by fingers and push stopper release tab.
  - b. Pull it out connector.



# FUEL LEVEL SENSOR UNIT AND FUEL PUMP ASSEMBLY

## < REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

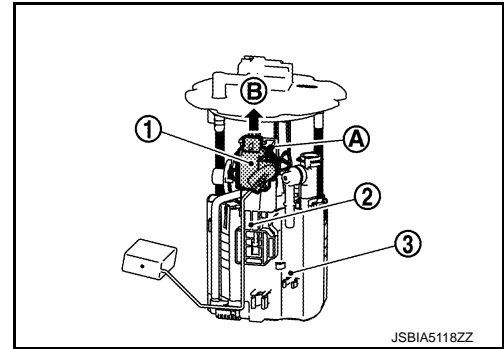
2. Remove main fuel level sensor unit ① from adapter ② as follows:

③ : Fuel filter and fuel pump assembly

- a. Push in tab ④ to release the lock.
- b. After fixing tabs are disengaged, slide main fuel level sensor unit out in direction shown by the arrow ⑤.

### CAUTION:

- Be careful not to damage the main fuel level sensor unit.
- Never disassemble fuel filter and fuel pump assembly.



3. Remove adapter from the fuel filter and fuel pump assembly in the same procedure used in removing main fuel level sensor unit if necessary.

## ASSEMBLY

### CAUTION:

**Sub fuel level sensor unit cannot be disassembled and should be replaced as a unit.**

Note to the following, and install in the reverse order of removal.

1. Check for damage of main fuel level sensor unit installation position on the side of adapter.
2. Slide main fuel level sensor unit aligns to installation groove, then insert it until it stops.
  - After inserting, apply force in reverse direction (removal direction) to ensure it cannot be pulled out.
3. Connect the harness connector.

## Inspection

INFOID:0000000012958242

## INSPECTION AFTER INSTALLATION

Use the following procedure to check for fuel leakage.

1. Turn ignition switch "ON" (with engine stopped), then check connections for leakage by applying fuel pressure to fuel piping.
2. Start engine and let it idle and check there are no fuel leakage at the fuel system connections.

# FUEL TANK

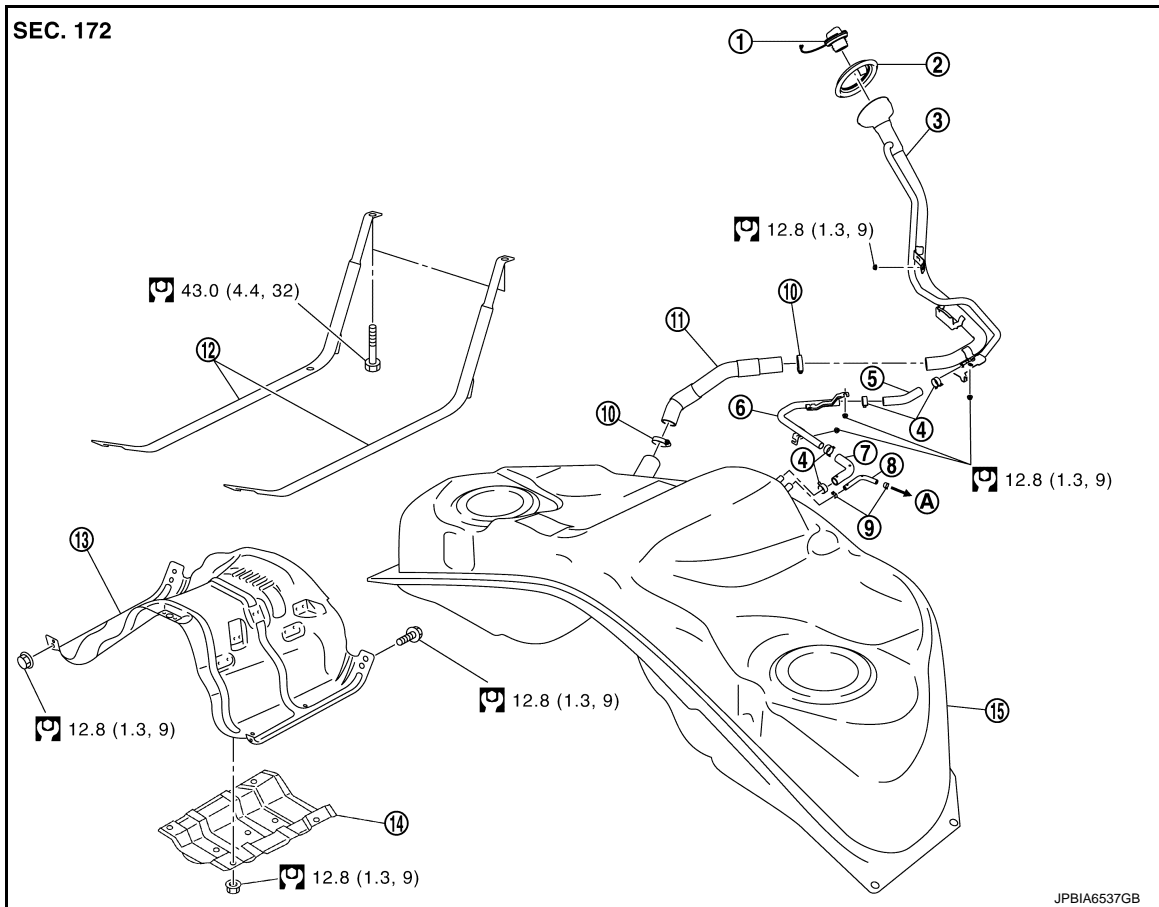
< REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

## FUEL TANK

### Exploded View

INFOID:000000012958243



- |                       |                    |                           |
|-----------------------|--------------------|---------------------------|
| ① Fuel filler cap     | ② Grommet          | ③ Fuel filler tube        |
| ④ Clamp               | ⑤ Vent hose        | ⑥ Vent tube               |
| ⑦ Vent hose           | ⑧ EVAP hose        | ⑨ Clamp                   |
| ⑩ Clamp               | ⑪ Fuel filler hose | ⑫ Fuel tank mounting band |
| ⑬ Fuel tank protector | ⑭ Insulator        | ⑮ Fuel tank               |
| Ⓐ To EVAP tube        |                    |                           |
| Ⓜ : N·m (kg·m, ft·lb) |                    |                           |

### Removal and Installation

INFOID:000000012958244

#### **WARNING:**

Be sure to read “General Precautions” when working on the fuel system. Refer to [FL-22, "General Precautions"](#).

#### REMOVAL

- Drain fuel from fuel tank if necessary. Refer to [FL-36, "Exploded View"](#).
  - Perform work on level place.
1. Perform steps 2 to 9 of “REMOVAL” in “FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY” on main and sub fuel level sensor units. Refer to [FL-30, "Removal and Installation"](#).
  2. Remove center muffler and main muffler. Refer to [EX-12, "Exploded View"](#).
  3. Remove propeller shaft. Refer to [DLN-111, "2WD : Exploded View"](#).
  4. Remove parking rear brake cables.

# FUEL TANK

## < REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

Refer to [PB-9, "Exploded View"](#).

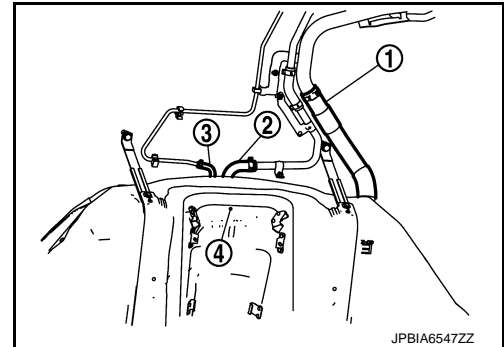
5. Remove rear suspension assembly. Refer to [RSU-8, "Exploded View"](#).

**NOTE:**

For this service, drive shaft, final drive, and rear suspension member are required not to be separate one another during removal.

6. Disconnect fuel filler hose ①, vent hose ②, and EVAP hose ③ at fuel tank side.

④ : Fuel tank protector

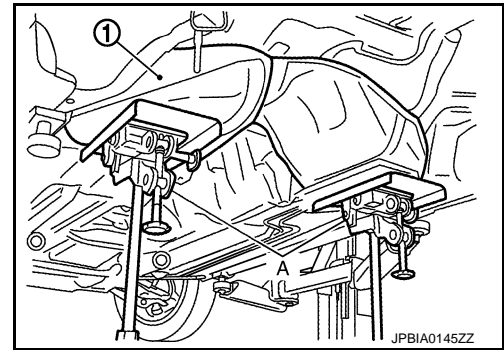


7. Remove fuel tank protector.

8. Support the lower part of fuel tank ① with transmission jack (A).

**CAUTION:**

**Support the position that fuel tank mounting bands never engage.**



9. Remove fuel tank mounting bands.

10. Supporting with hands, descend transmission jack carefully, and remove fuel tank.

**CAUTION:**

- Check that all connection points have been disconnected.
- Confirm there is no interference with vehicle.

11. Remove fuel filler tube if necessary.

## INSTALLATION

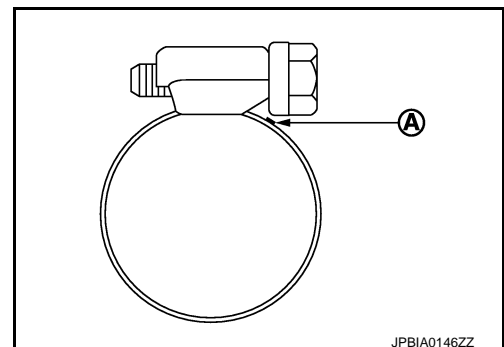
Note the following, and install in the reverse order of removal.

- Surely clamp fuel hoses and insert hose to the length below.

**Fuel filler hose : 35 mm (1.38 in)**

**The other hoses : 25 mm (0.98 in)**

- Be sure hose clamp is not placed on swelled area of fuel tube.
- Tighten the clamp hand with the top mark **A** until the mark is on the bolt head flange.



- To connect quick connector, refer to [FL-27, "Quick Connector"](#).

## Inspection

INFOID:000000012958245

### INSPECTION AFTER INSTALLATION

Use the following procedure to check for fuel leakage.

1. Turn ignition switch "ON" (with engine stopped), and check connections for leakage by applying fuel pressure to fuel piping.
  2. Start engine and rev it up and check there are no fuel leakage at the fuel system tube and hose connections.
- After removing/installing rear suspension assembly, check to adjust wheel alignment and then, adjust neutral position of steering angle sensor. Refer to [ST-18, "Inspection"](#) (without DIRECT ADAPTIVE STEERING) or [ST-114, "Inspection"](#) (with DIRECT ADAPTIVE STEERING).

# EVAP CANISTER

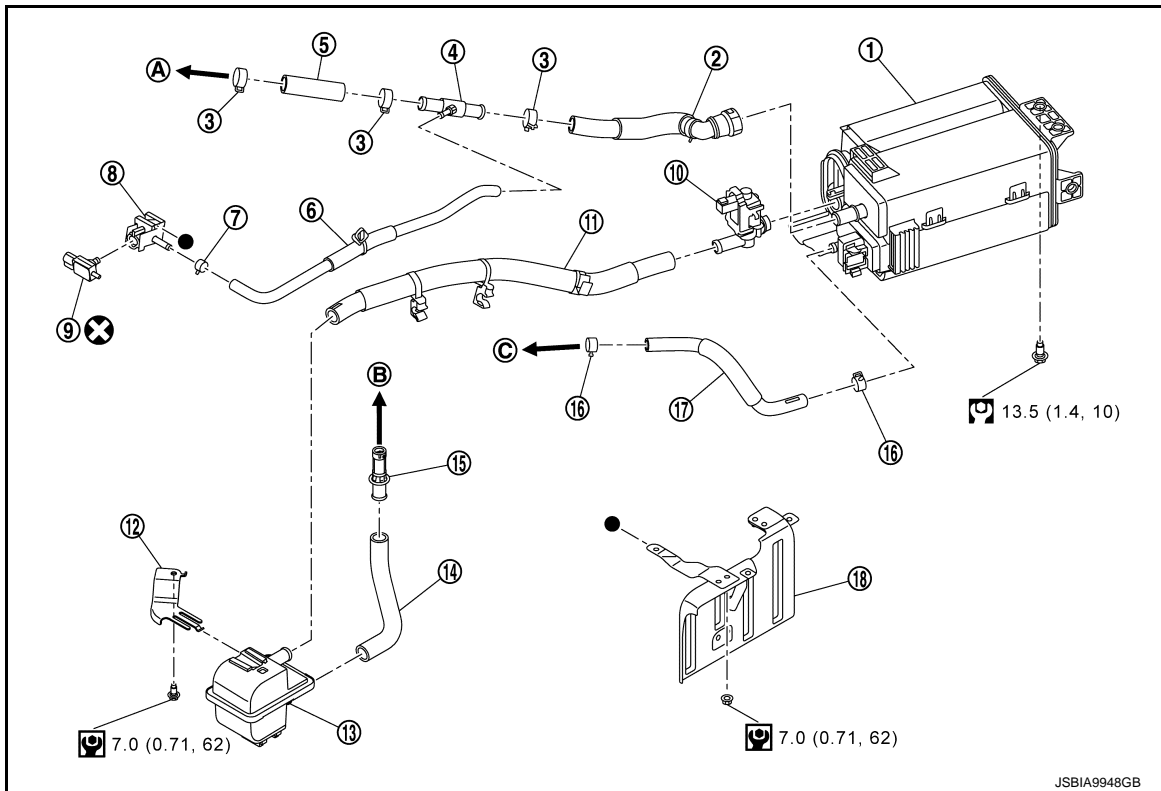
< REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

## EVAP CANISTER

### Exploded View

INFOID:000000013296776



- |                                    |                      |  |
|------------------------------------|----------------------|--|
| ① EVAP canister                    | ② Vent hose assembly | ③ Clip   |
| ④ 3 way connector                  | ⑤ Vent hose          | ⑥ EVAP hose  |
| ⑦ Clip                             | ⑧ Connector          | ⑨ Fuel tank pressure sensor                            |
| ⑩ EVAP canister vent control valve | ⑪ Vent hose          | ⑫ Bracket  |
| ⑬ Canister filter                  | ⑭ Vent hose          | ⑮ Connector  |
| ⑯ Clip                             | ⑰ Purge hose         | ⑱ Insulator  |
| Ⓐ To fuel tank                     | Ⓑ To floor panel     | Ⓒ To EVAP canister purge volume control solenoid valve |

: N-m (kg-m, ft-lb)

: N-m (kg-m, in-lb)

: Always replace after every disassembly.

JSBIA9948GB

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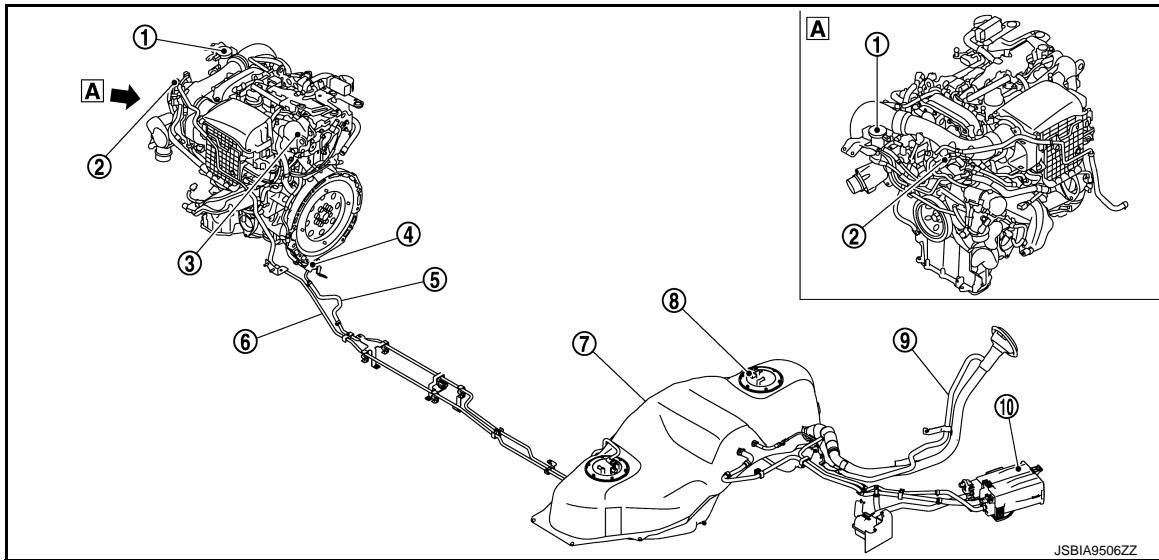
# EVAP CANISTER

< REMOVAL AND INSTALLATION >

[2.0L TURBO GASOLINE ENGINE]

## Hydraulic Layout

INFOID:000000013296777



- |                            |  |                         |
|----------------------------|--|-------------------------|
| ① EVAP purge control valve | ② EVAP control system pressure sensor                        | ③ Hi pressure fuel pump |
| ④ Fuel pressure sensor     | ⑤ Fuel line  | ⑥ EVAP line             |
| ⑦ Fuel tank                | ⑧ Main fuel level sensor, fuel filter and fuel pump assembly | ⑨ Fuel filler neck      |
| ⑩ EVAP canister            |  |                         |

## Removal and Installation

INFOID:000000013296778

### REMOVAL

1. Disconnect each hoses and connectors.
2. Remove EVAP canister fixing bolt.
3. Remove EVAP canister.

### INSTALLATION

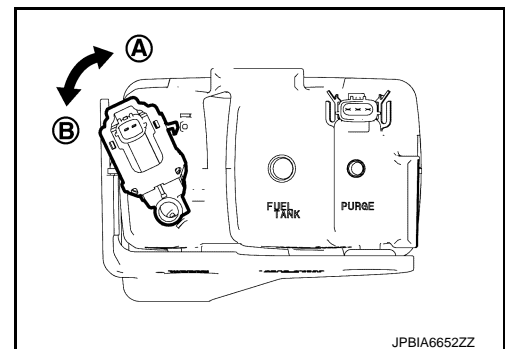
Install in the reverse order of removal.

## Disassembly and Assembly

INFOID:000000013296779

### DISASSEMBLY

1. Disengage the pawl and turn EVAP canister vent control valve counterclockwise.
  - Lock (A)
  - Unlock (B)
2. Remove the EVAP canister vent control valve.
3. Remove the EVAP control system pressure sensor.



### ASSEMBLY

Assemble in the reverse order of disassembly.

### CAUTION:

Always replace O-ring with a new one.



# EVAP CANISTER

< REMOVAL AND INSTALLATION >

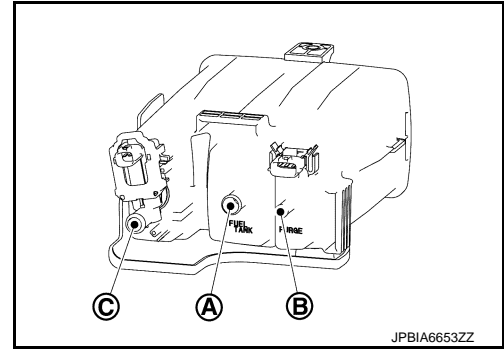
[2.0L TURBO GASOLINE ENGINE]

## Inspection

INFOID:000000013296780

Check EVAP canister as per the following:

1. Block port ②.
2. Blow air into port ① and check that it flows freely out of port ③.
3. Release blocked port ②.
4. Apply vacuum pressure to port ② and check that vacuum pressure exists at the ports ① and ③.
5. Block port ① and ②.
6. Apply pressure to port ③ and check that there is no leakage.



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# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[2.0L TURBO GASOLINE ENGINE]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Fuel Tank

INFOID:0000000012958252

#### Standard and Limit

Fuel tank capacity	Approx. 76.0 ℓ (20 US gal, 16-5/8 Imp gal)
Fuel recommendation	Refer to <a href="#">GI-29, "Fuel"</a>