

# B7 FUEL SYSTEM

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## ■ 1KR

### 1 FUEL SYSTEM

#### 1-1 INSTRUCTIONS FOR SERVICE OPERATION

##### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 1-1-1 FUEL PRESSURE REMOVAL OPERATION

1. When you perform operations for the fuel system, remove the fuel pressure, following the procedure given below.

- (1) Turn OFF the IG switch.
- (2) Remove the fuel pump relay.
- (3) Start the engine. Keep on running the engine, until the engine stops naturally.
- (4) Turn OFF the IG switch. Install the fuel pump relay.

##### CAUTION

- Care must be exercised, for there is a residual pressure in the fuel line.

## 2 FUEL SUCTION TUBE

### 2-1 REMOVAL AND INSTALLATION

#### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 2-1-1 POINTS OF REMOVAL

##### CAUTION

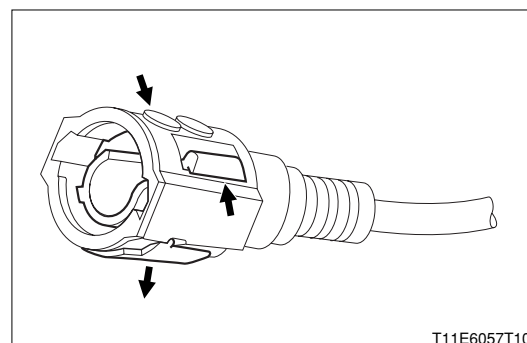
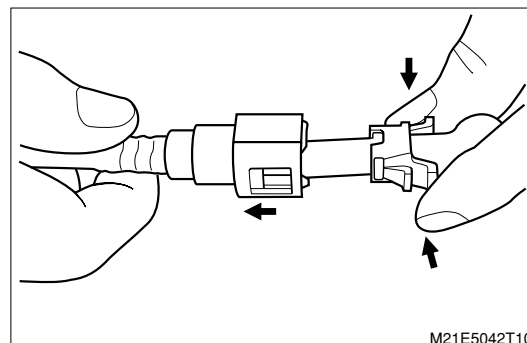
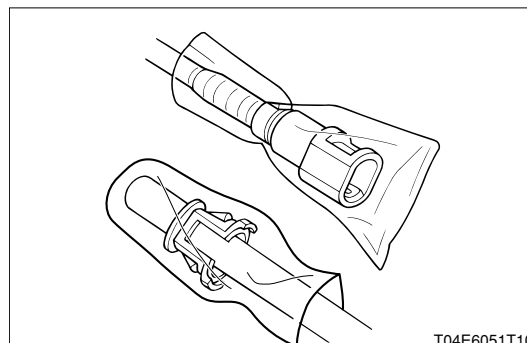
- When mud etc. gets to the tube, clean it prior to the removal.
- Make sure to perform the operation by hand without using any tools so that no scratch may be made to the tube etc.
- If there is a seizure between the connector and the tube, push and pull back with the retainer held by hand. Pull out the tube from the connector after they can move freely.
- Cover the disconnected tubes and connectors with a plastic bag etc. so that they may not be scratched or no foreign matter be admitted.

- 1.As for the fuel pump side, hold both ends of the retainer. Pull out the connector with the lock in an unlocked state.

##### CAUTION

- When the retainer is removed from the tube, be sure to replace it by a new retainer, for the retainer is a non-reusable part.

- 2.As for the body tube side, release the lock and pull out the connector by pressing down the retainer, while pushing the protruding section of the retainer.



#### 2-1-2 POINTS OF INSTALLATION

- 1.With the connector aligned with the axis of the mate fuel pipe, push in the retainer until a clicking sound occurs.  
If the connection is very stiff, apply a small quantity of new engine oil to the tip-end of the pipe.

##### CAUTION

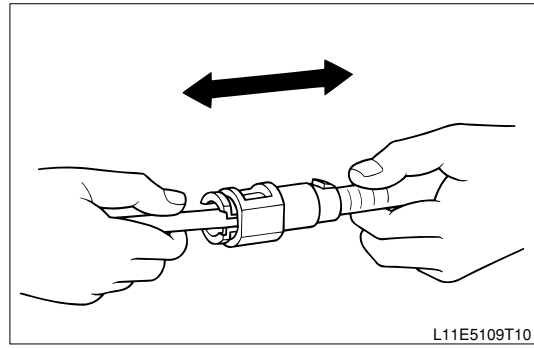
- Make sure that no scratch or foreign article gets to the pipe connecting section.

Retainer color

Fuel pump side	White
Body tube side	Orange

# B7-3

2. After completion of the assembly, pull the connector and the mate fuel pipe so as to ensure that they are connected securely.



## 2-1-3 OPERATION AFTER INSTALLATION

1. With the fuel pressure applied, check the fuel system for leakage.

## 2-2 REPLACEMENT

### 2-2-1 REPLACEMENT PROCEDURE

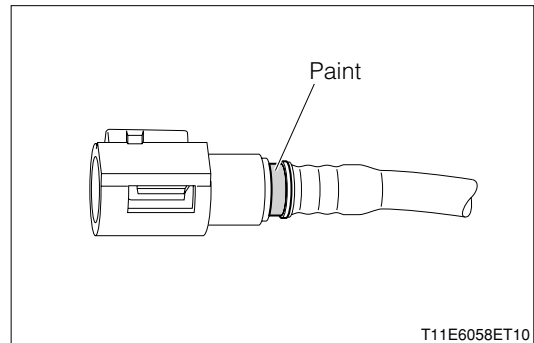
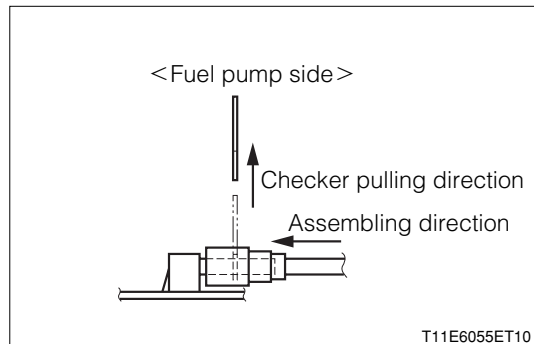
1. Remove the connector and the mate fuel pipe, following the aforesaid procedure. As for the fuel pump side, remove the retainer from the pump.
2. With the connector aligned with the axis of the corresponding fuel pipe, push in the connector securely, until you hear a sound of the retainer.
3. Pull out the checker in the vertical direction in relation to the assembled direction.

#### Checker color

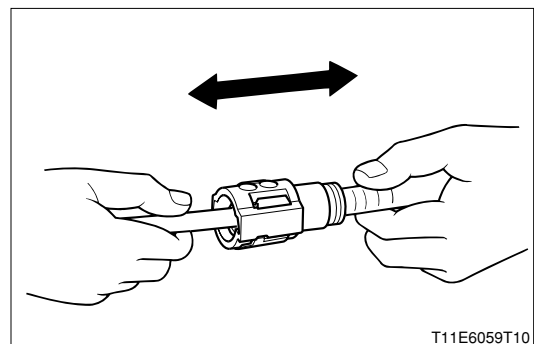
Fuel pump side	Red
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#### Tube identification paint

2WD vehicle	Not provided
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4. After completion of the assembly, pull the connector and the mate fuel pipe so as to ensure that they are connected securely.



### 2-2-2 OPERATION AFTER REPLACEMENT

1. With the fuel pressure applied, check the fuel system for leakage.

## 3 FUEL TANK

### 3-1 REMOVAL AND INSTALLATION

#### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 3-1-1 ARTICLES TO BE PREPARED

##### Instrument

Torque wrench
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#### 3-1-2 OPERATION BEFORE REMOVAL

1.Remove the fuel pressure.

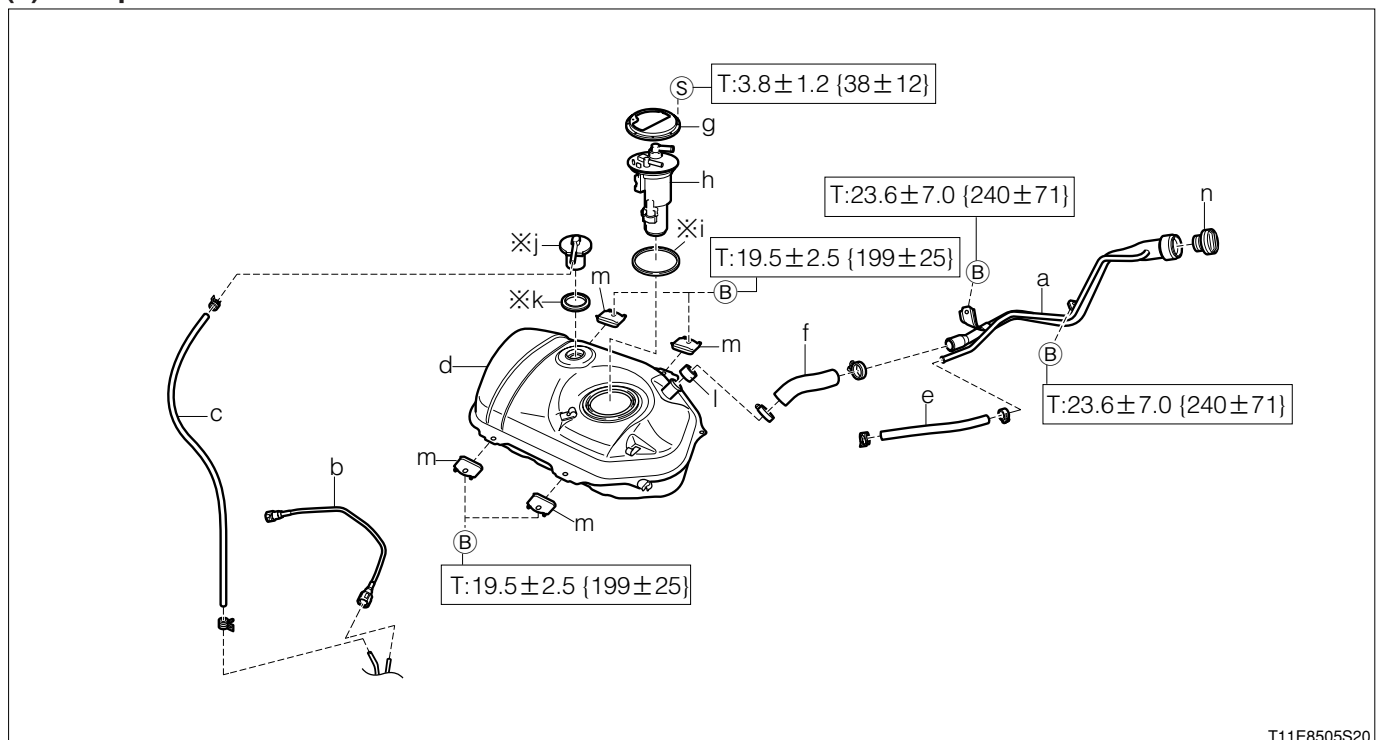
Refer to Page B7-1.

2.Disconnect the battery negative (-) terminal.

3.Remove the pressure inside the fuel tank by removing the fuel filler cap.

#### 3-1-3 REMOVAL AND INSTALLATION PROCEDURES

##### (1) Components



T11E8505S20

※:Non - reusable parts

Unit:N·m{kgf·cm}

##### (2) Removal and installation procedures

- |       |   |        |   |
|-------|---|--------|---|
| ▼ ▲ 1 | a Pipe S/A, fuel inlet, upper                   | ▲ 10   | c Hose, fuel (Valve Ay side)            |
| ▼ ▲ 2 | b Tube S/A, fuel suction (Floor tube side)      | ▲ 11   | g Bracket, fuel pump No.1               |
| ▲ 3   | c Hose, fuel (Floor tube side)                  | ▲ 12   | h Pump Ay, fuel w/motor & bracket       |
| ▼ ▲ 4 | d Tank S/A, fuel                                | ▲ 13   | i Gasket, fuel pump                     |
| ▲ 5   | e Hose, fuel tank breather (In 1 et side)       | ▼ ▲ 14 | j Valve Ay, fuel cut off                |
| ▲ 6   | f Hose, fuel tank to filler pipe (Inret side)   | ▼ ▲ 15 | k Gasket, fuel tank breather tube       |
| ▲ 7   | f Hose, fuel tank to filler pipe (Tank Ay side) | ▲ 16   | l Valve S/A, fuel tank filler check     |
| ▲ 8   | e Hose, fuel tank breather (Pump Ay side)       | ▲ 17   | m Reinforcement, fuel tank flange, No.1 |
| ▼ ▲ 9 | b Tube S/A, fuel suction (Fuel pump side)       | ▲ 18   | n Cap Ay, fuel tank                     |

## 3-1-4 POINTS OF REMOVAL

### (1) Tube S/A, fuel suction (Floor tube side)

- 1.Remove the fuel suction tube S/A.  
Refer to Page B7-2.

### (2) Tank S/A, fuel

- 1.Remove the fuel tank S/A attaching bolts.
- 2.Make a gap between the fuel tank S/A and the body by lowering the fuel tank S/A slightly. Proceed to remove the fuel pump connector and harness clamp.
- 3.Remove the fuel tank S/A.

### (3) Tube S/A, fuel suction (Fuel pump side)

- 1.Remove the fuel suction tube S/A.  
Refer to Page B7-2.

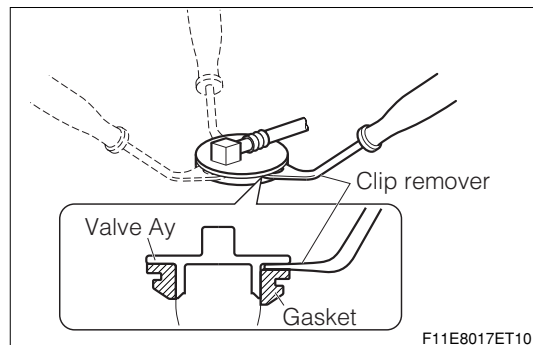
### (4) Gasket, fuel tank breather tube, Valve Ay, fuel cut off

- 1.Insert the clip remover into between the valve Ay and the gasket, and gradually push up the valve Ay to remove the valve Ay.

#### CAUTION

- Since the fuel cut-off valve Ay is made of resin, forcible removal and installation may often break the valve Ay. Therefore, perform the operation carefully to assure the sealing performance.

- 2.Remove the gasket.



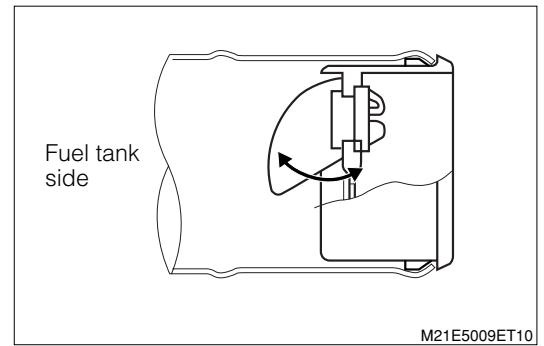
**3-1-5 POINTS OF INSTALLATION**

**(1) Valve S/A, fuel tank check**

1. Install the fuel tank filler check valve S/A in the direction shown in the right figure.

**CAUTION**

- The insertion should be made securely until the pawl rides over the spool.
- After completion of the assembly, ensure that the valve opens or closed smoothly.



**(2) Gasket, fuel tank breather tube, Valve Ay, fuel cut off**

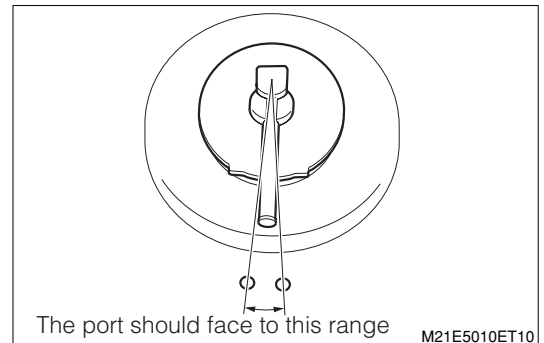
1. Assemble the new gasket to the fuel tank Ay.
2. Insert the new valve Ay in such a way that the port faces to the direction indicated in the right figure.

**CAUTION**

- Do not deform the fuel tank by applying an undue force during the press-fitting.
- Be sure to use the new valve Ay and gasket.

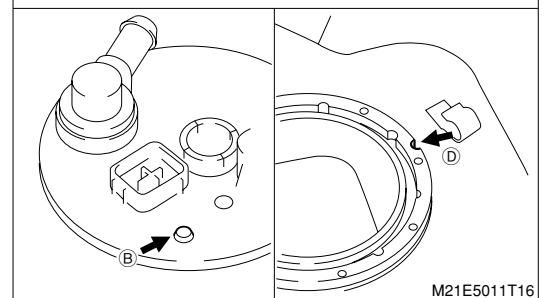
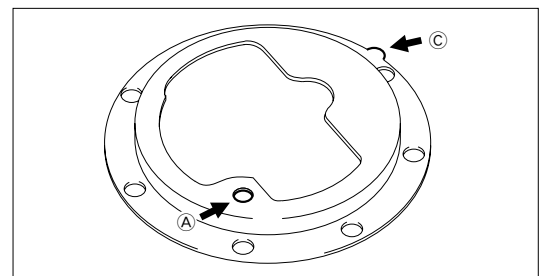
**NOTE**

- It is permissible to use white kerosene as a lubricant. However, do not submerge the valve main body in it.
3. Ensure that the insertion has been made to such an extent that the flange section of the valve Ay firmly contacts the gasket without any gap.



**(3) Gasket, fuel pump, pump Ay, fuel W/ motor&bracket, bracket, fuel pump, No.1**

1. Install the fuel pump Ay.
  - (1) Install the fuel pump to the fuel tank with a new fuel pump gasket interposed.
  - (2) Install the fuel pump bracket with the fuel pump bracket hole (A) aligned with the fuel pump's projected point (B) and the fuel pump bracket and fuel tank mate marks (C) and (D) aligned with each other.
  - (3) Tighten the fuel pump bracket to the specified torque.

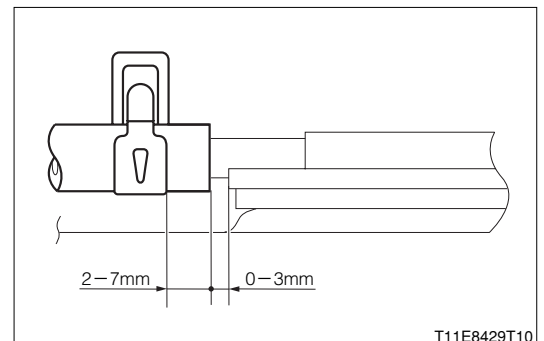


**(4) Hose, fuel (Valve Ay side)**

1. Install the hose in such a way that the side having no mark comes to the fuel cut off valve Ay side.

**CAUTION**

- Install the hose as indicated in the right figure.



# B7-7

## (5) Tube S/A, fuel suction (Fuel pump side)

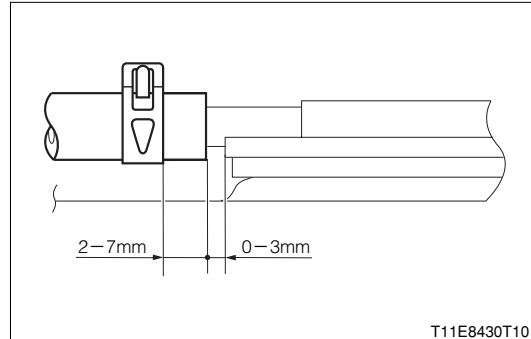
1. Install the tube S/A to the fuel pump Ay.  
Refer to Page B7-2.

## (6) Hose, fuel tank breather (Pump Ay side)

1. Install the hose to the fuel pump Ay.

### CAUTION

- Install the hose as indicated in the right figure.



## (7) Hose, fuel tank to filler pipe (Tank Ay side)

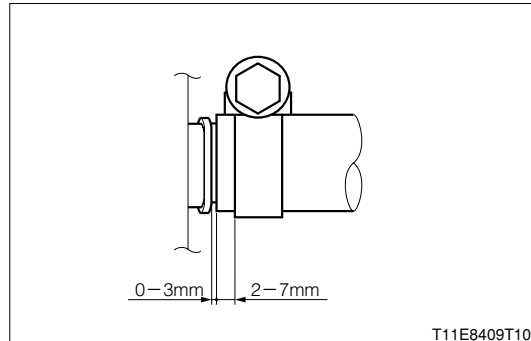
1. Connect the hose to the fuel tank Ay in such a way that the marking side of the hose faces upward.

### CAUTION

- Install the hose, as indicated in the right figure.

Identification mark

2WD vehicle	Yellow
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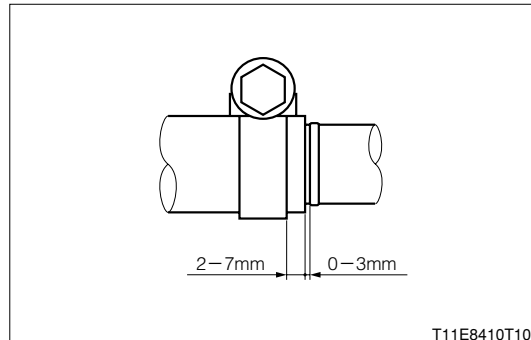


## (8) Hose, fuel tank to filler pipe (Inlet side)

1. Connect the hose at the inlet side to the fuel inlet upper pipe S/A.

### CAUTION

- Install the hose, as indicated in the right figure.

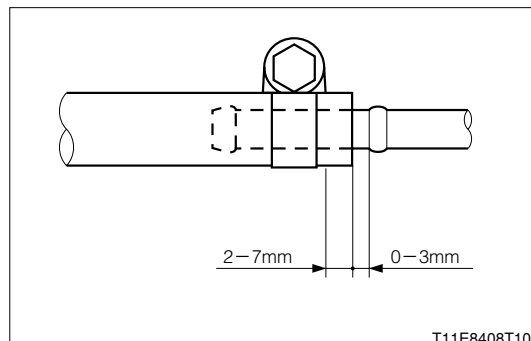


## (9) Hose, Fuel tank breather (Inlet side)

1. Connect the hose at the inlet side to the fuel inlet upper pipe S/A.

### CAUTION

- Install the hose, as indicated in the right figure.



## (10) Tank S/A, fuel

1. Install the fuel tank S/A.

- (1) With the fuel tank being brought toward the body side, install the fuel pump connector and harness clamps.
- (2) Install the fuel tank. Tighten the bolts to the specified torque.



**(11) Hose, fuel (Floor tube side)**

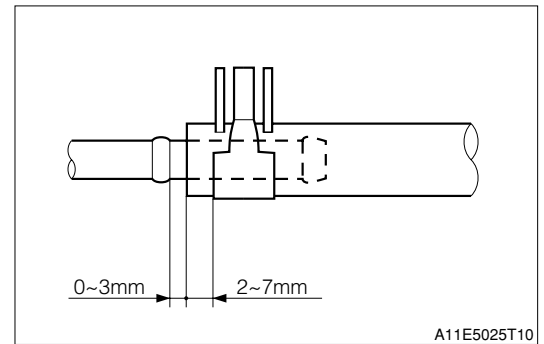
1. Install the hose in such a way that the side having a mark comes to the floor tube side.

**CAUTION**

- Install the hose, as indicated in the right figure.

Identification mark

2WD vehicle	Yellow
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**(12) Fuel suction tube S/A (Floor tube side)**

1. Install the tube S/A at the floor tube side.

Refer to Page B7-2.

**3-1-6 OPERATION AFTER INSTALLATION**

1. Remove the cap Ay, fuel tank.
2. Install the battery negative (-) terminal.
3. Turn the IG switch to the ON position.
4. Check the fuel system for leakage with the fuel pressure applied.

## 4 FUEL PUMP

### 4-1 REMOVAL AND INSTALLATION

#### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 4-1-1 ARTICLES TO BE PREPARED

Lubricant, adhesive, others

Butyl tape

#### 4-1-2 OPERATION BEFORE REMOVAL

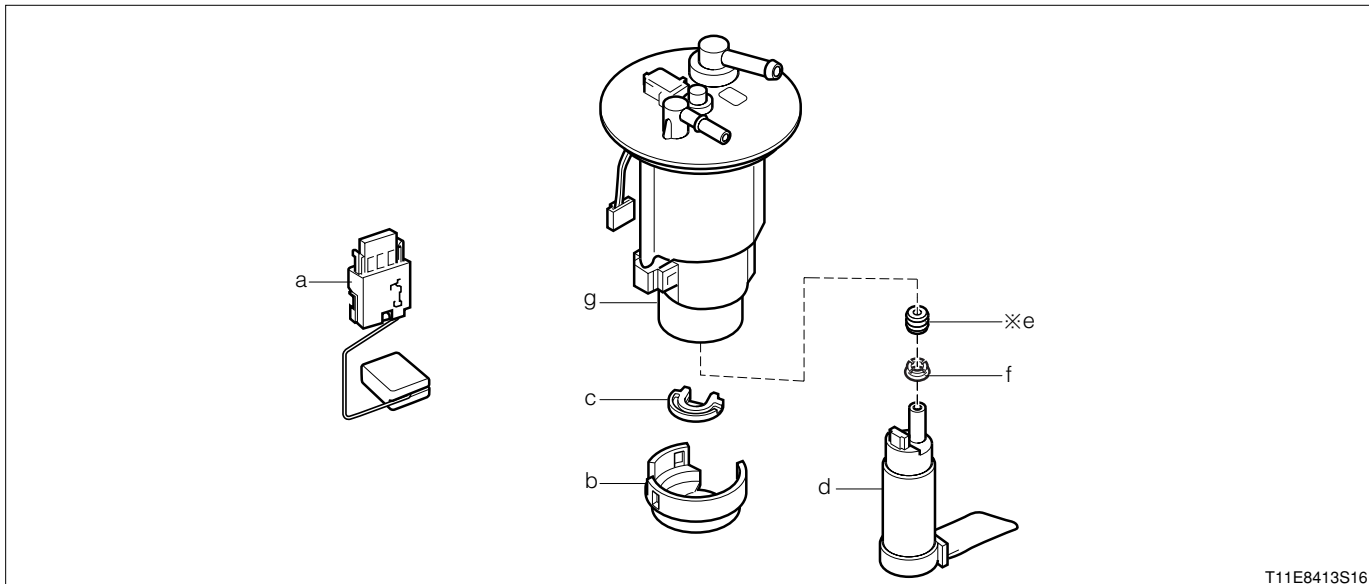
1. Remove the carpet Ay, floor front, board, rear floor, front Rh.

Refer to Page I2-57.

2. Remove the cover, rear floor service hole. Then, disconnect the connector.

#### 4-1-3 REMOVAL AND INSTALLATION PROCEDURES

##### (1) Components



T11E8413S16

⊗: Non-reusable parts

##### (2) Removal and installation procedures

- |     |   |   |                        |   |   |                          |
|-----|---|---|------------------------|---|---|--------------------------|
| ▼   | 1 | a | Gage Ay, fuel sender   | 6 | f | Spacer                   |
|     | 2 | b | Bracket                | 7 | g | Filter Ay, fuel W/flange |
|     | 3 | c | Cushion                |   |   |                          |
| ▼ ▲ | 4 | d | Pump Ay, fuel W/filter |   |   |                          |
|     | 5 | e | Grommet, fuel          |   |   |                          |

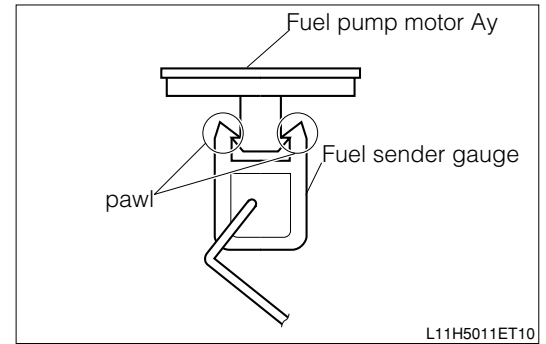
#### NOTE

- As for the five parts of b bracket, c cushion, e grommet, f spacer and g filter Ay, fuel, W/flange, they are available as the fuel filter kit.

## 4-1-4 POINTS OF REMOVAL

### (1) Fuel sender gage

1. Remove the fuel sender gauge Ay, while opening the two claw sections of the gauge with your finger and pushing them downward.



### (2) Pump Ay, fuel W/filter

1. Disconnect the connector of the pump section.
2. Remove the fuel pump Ay W/filter.

## 4-1-5 POINTS OF INSTALLATION

### (1) Pump Ay, fuel W/filter

1. Install the spacer and fuel grommet to the pump Ay.

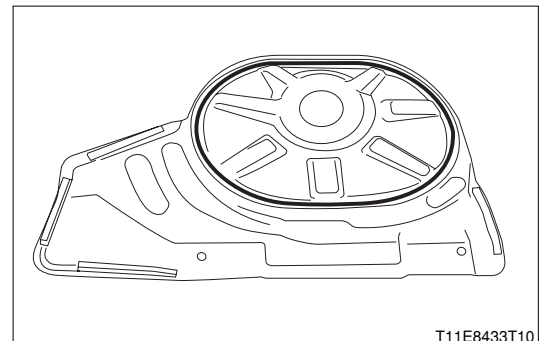
#### CAUTION

- Never reuse the grommet, fuel

2. Install the pump Ay to the fuel filter Ay with flange.
3. Install the connector of the pump section.
4. Install the fuel pump Ay with motor & bracket to the fuel tank Ay.  
Refer to Page B7-6.

## 4-1-6 OPERATION AFTER INSTALLATION

1. Start the engine. Visually check whether there is oil leaking from the fuel pump, hoses and pipes.
2. Affix a butyl tape to the position shown in the right figure.
3. Connect the connector and install the rear floor service hole cover.
4. Install the carpet Ay, floor front, board, rear floor, front Rh.  
Refer to Page I2-57.



## 5 INJECTOR

### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

### 5-1 REMOVAL AND INSTALLATION

#### 5-1-1 ARTICLES TO BE PREPARED

Instrument

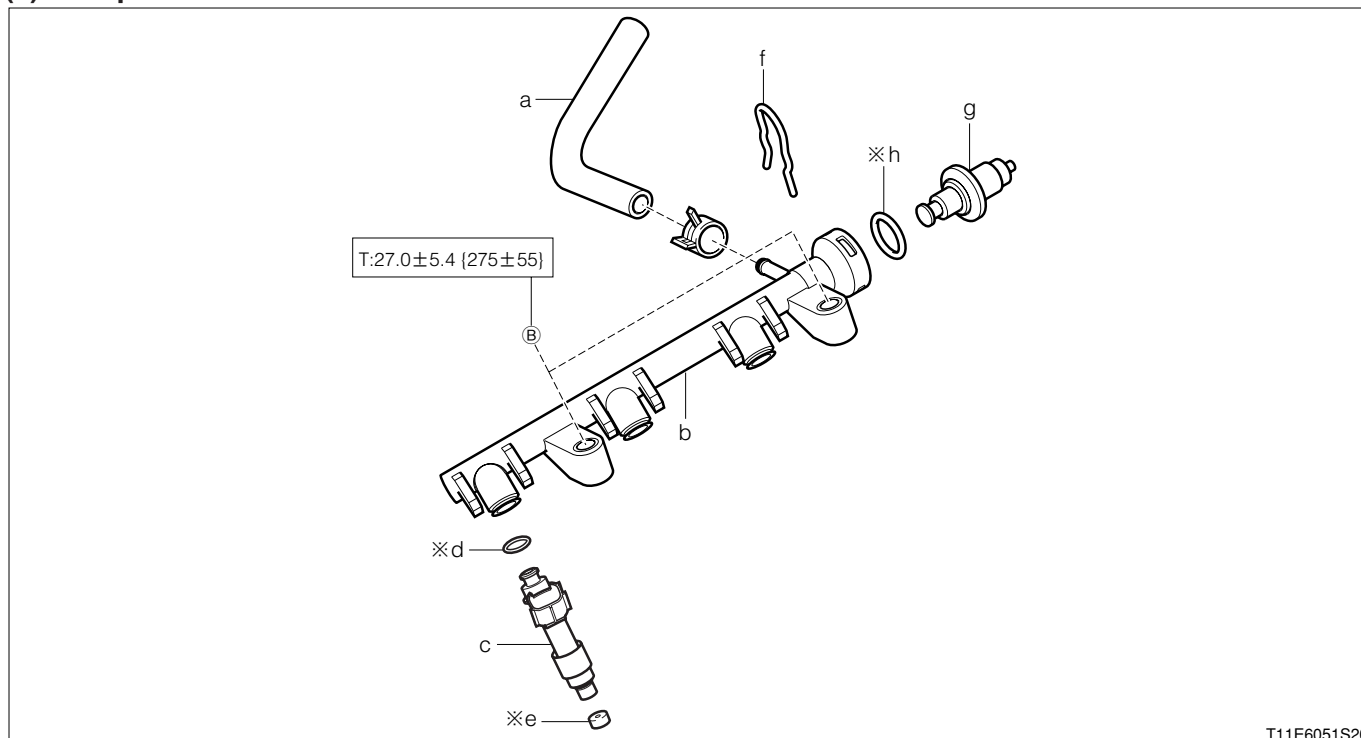
Torque wrench
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#### 5-1-2 OPERATION BEFORE REMOVAL

- 1.Remove the fuel pressure.  
Refer to Page B7-1.
- 2.Disconnect the battery negative (-) terminal.
- 3.Remove the case, air cleaner.  
Refer to Page B3-1.

#### 5-1-3 REMOVAL AND INSTALLATION PROCEDURES

##### (1) Components



※:Non-reusable parts  
Unit:N·m{kgf·cm}

##### (2) Removal and installation procedures

- |                                   |  |
|-----------------------------------|--|
| ▲ 1 a Hose, fuel                  | 6 f Holder, fuel pressure regulator    |
| ▲ 2 b Pipe, fuel delivery         | 7 g Damper Ay, fuel pressure pulsation |
| ▲ 3 c Injector Ay                 | 8 h Ring, O                            |
| 4 d Ring, O                       |  |
| 5 e Insulator, injector vibration |  |

### 5-1-4 INSPECTION

1. Perform the unit inspection of the injector.  
Refer to Page B8-223.

### 5-1-5 POINTS OF INSTALLATION

#### (1) Injector, Pipe Ay, fuel delivery

1. With the connector of the injector directed toward the external direction of the cylinder head, install the injector, fuel delivery pipe to the cylinder head.

#### CAUTION

- When installing the delivery pipe, care must be exercised to ensure that no damage is made to the O-rings and grommets.

2. After completion of the assembly, turn the injector by hand. Ensure that the injector turns smoothly.

#### CAUTION

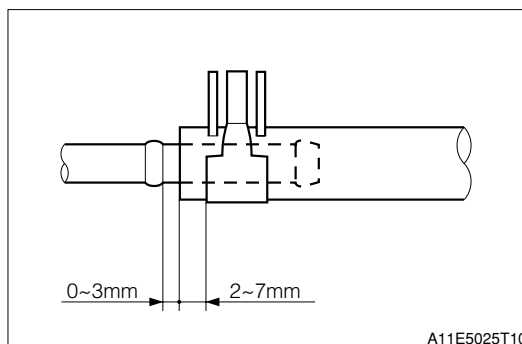
- After the confirmation, ensure that the connector of the injector has not been assembled in a turned state (Not inclined).

#### (2) Hose, fuel

1. Connect the hose to the fuel delivery pipe.

#### CAUTION

- Install the hose, as indicated in the right figure.



### 5-1-6 OPERATION AFTER INSTALLATION

1. Install the case, air cleaner.  
Refer to Page B3-1.
2. Install the battery negative (-) terminal.
3. Turn the IG switch to the ON position.
4. Check the fuel system for leakage with the fuel pressure applied.

## ■ K3

### 1 FUEL SYSTEM

#### 1-1 INSTRUCTIONS FOR SERVICE OPERATION

##### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 1-1-1 FUEL PRESSURE REMOVAL OPERATION

1. When you perform operations for the fuel system, remove the fuel pressure, following the procedure given below.

- (1) Turn OFF the IG switch.
- (2) Remove the fuel pump relay.
- (3) Start the engine. Keep on running the engine, until the engine stops naturally.
- (4) Turn OFF the IG switch. Install the fuel pump relay.

##### CAUTION

- Care must be exercised, for there is a residual pressure in the fuel line.

## 2 FUEL SUCTION TUBE

### 2-1 REMOVAL AND INSTALLATION

#### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 2-1-1 POINTS OF REMOVAL

##### CAUTION

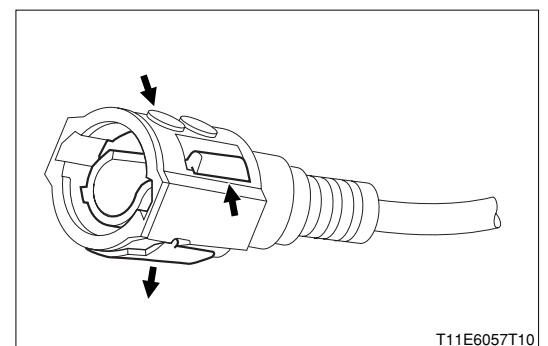
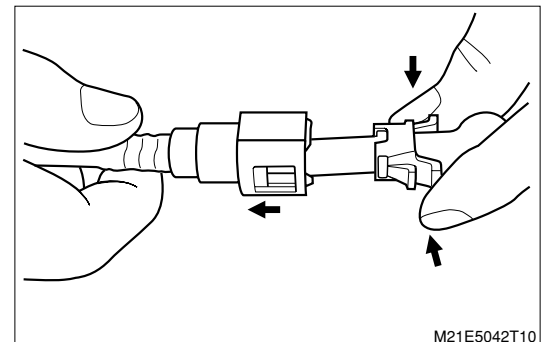
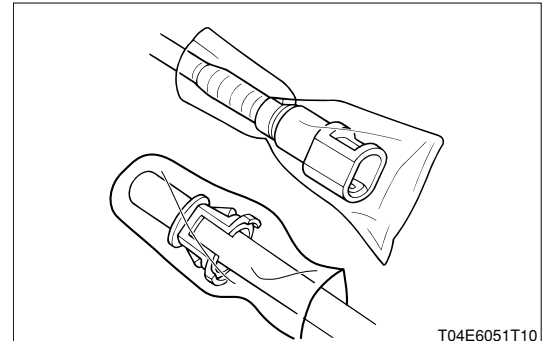
- When mud etc. gets to the tube, clean it prior to the removal.
- Make sure to perform the operation by hand without using any tools so that no scratch may be made to the tube etc.
- If there is a seizure between the connector and the tube, push and pull back with the retainer held by hand. Pull out the tube from the connector after they can move freely.
- Cover the disconnected tubes and connectors with a plastic bag etc. so that they may not be scratched or no foreign matter be admitted.

- 1.As for the fuel pump side, hold both ends of the retainer. Pull out the connector with the lock in an unlocked state.

##### CAUTION

- When the retainer is removed from the tube, be sure to replace it by a new retainer, for the retainer is a non-reusable part.

- 2.As for the body tube side, release the lock and pull out the connector by pressing down the retainer, while pushing the protruding section of the retainer.



#### 2-1-2 POINTS OF INSTALLATION

- 1.With the connector aligned with the axis of the mate fuel pipe, push in the retainer until a clicking sound occurs.

If the connection is very stiff, apply a small quantity of new engine oil to the tip-end of the pipe.

##### CAUTION

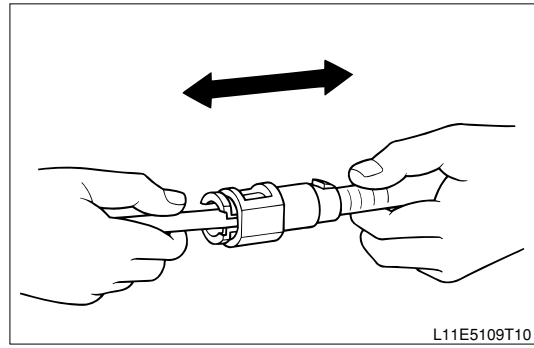
- Make sure that no scratch or foreign article gets to the pipe connecting section.

Retainer color

Fuel pump side	White
Body tube side	Orange

# B7-15

2. After completion of the assembly, pull the connector and the mate fuel pipe so as to ensure that they are connected securely.



## 2-1-3 OPERATION AFTER INSTALLATION

1. With the fuel pressure applied, check the fuel system for leakage.

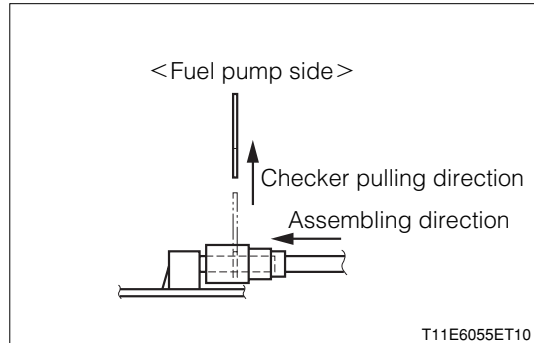
## 2-2 REPLACEMENT

### 2-2-1 REPLACEMENT PROCEDURE

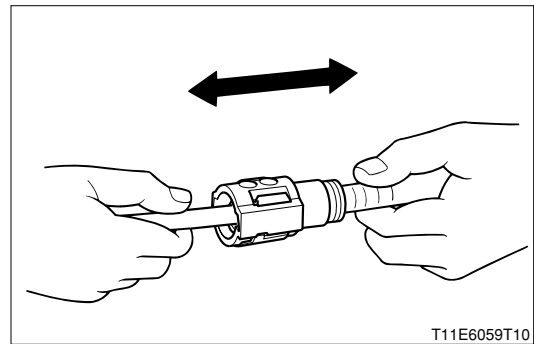
1. Remove the connector and the mate fuel pipe, following the aforesaid procedure. As for the fuel pump side, remove the retainer from the pump.
2. With the connector aligned with the axis of the corresponding fuel pipe, push in the connector securely, until you hear a sound of the retainer.
3. With the connector aligned with the axis of the mate fuel pipe, push in the retainer until a clicking sound ' occurs. Then, pull out the checker.

#### Checker color

Fuel pump side	Red
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4. After completion of the assembly, pull the connector and the mate fuel pipe so as to ensure that they are connected securely.



### 2-2-2 OPERATION AFTER REPLACEMENT

1. With the fuel pressure applied, check the fuel system for leakage.



## 3 FUEL TANK

### 3-1 REMOVAL AND INSTALLATION

#### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 3-1-1 ARTICLES TO BE PREPARED

##### Instrument

Torque wrench
---------------

#### 3-1-2 OPERATION BEFORE REMOVAL

1.Remove the fuel pressure.

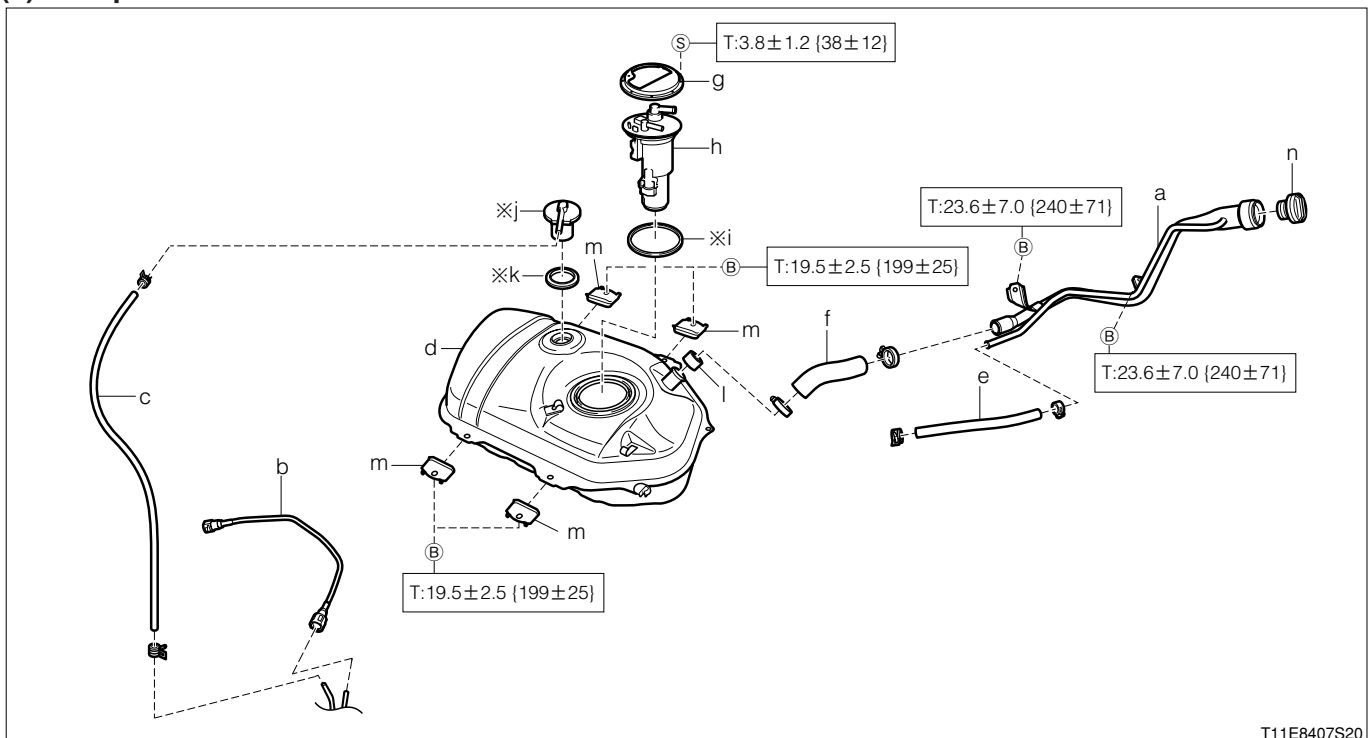
Refer to Page B7-13.

2.Disconnect the battery negative (-) terminal.

3.Remove the pressure inside the fuel tank by removing the fuel filler cap.

#### 3-1-3 REMOVAL AND INSTALLATION PROCEDURES

##### (1) Components



T11E8407S20

※:Non - reusable parts

Unit:N·m{kgf·cm}

##### (2) Removal and installation procedures

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>▼ ▲ 2 b Tube S/A, fuel suction (Floor tube side)</li> <li>▲ 3 c Hose, fuel (Floor tube side)</li> <li>▼ ▲ 4 d Tank S/A, fuel</li> <li>▲ 5 e Hose, fuel tank breather (In 1 et side)</li> <li>▲ 6 f Hose, fuel tank to filler pipe (Inlet side)</li> <li>▲ 7 f Hose, fuel tank to filler pipe (Tank Ay side)</li> <li>▲ 8 e Hose, fuel tank breather (Pump Ay side)</li> <li>▼ ▲ 9 b Tube S/A, fuel suction (Fuel pump side)</li> </ul> | <ul style="list-style-type: none"> <li>▲ 10 c Hose, fuel (Valve Ay side)</li> <li>▲ 11 g Bracket, fuel pump No.1</li> <li>▲ 12 h Pump Ay, fuel W/motor &amp; bracket</li> <li>▲ 13 i Gasket, fuel pump</li> <li>▼ ▲ 14 j Valve Ay, fuel cut off</li> <li>▼ ▲ 15 k Gasket, fuel tank breather tube</li> <li>▲ 16 l Valve S/A, fuel tank filler check</li> <li>17 m Reinforcement, fuel tank flange, No.1</li> <li>18 n Cap Ay, fuel tank</li> </ul> |
|---|--|

# B7-17

## 3-1-4 POINTS OF REMOVAL

### (1) Tube S/A, fuel suction (Floor tube side)

- 1.Remove the fuel suction tube S/A.  
Refer to Page B7-14.

### (2) Tank S/A, fuel

- 1.Remove the fuel tank S/A attaching bolts.
- 2.Make a gap between the fuel tank S/A and the body by lowering the fuel tank S/A slightly. Proceed to remove the fuel pump connector and harness clamp.
- 3.Remove the fuel tank S/A.

### (3) Tube S/A, fuel suction (Fuel pump side)

- 1.Remove the fuel suction tube S/A.  
Refer to Page B7-14.

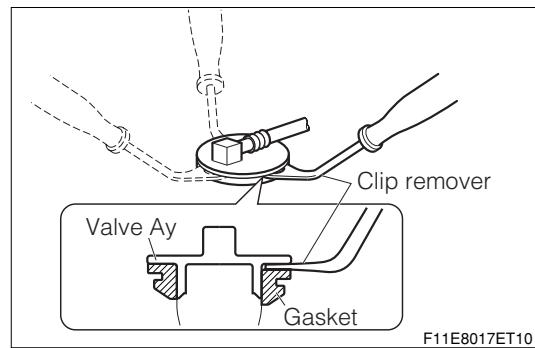
### (4) Gasket, fuel tank breather tube, Valve Ay, fuel cut off

- 1.Insert the clip remover into between the valve Ay and the gasket, and gradually push up the valve Ay to remove the valve Ay.

#### CAUTION

- Since the fuel cut-off valve Ay is made of resin, forcible removal and installation may often break the valve Ay. Therefore, perform the operation carefully to assure the sealing performance.

- 2.Remove the gasket.



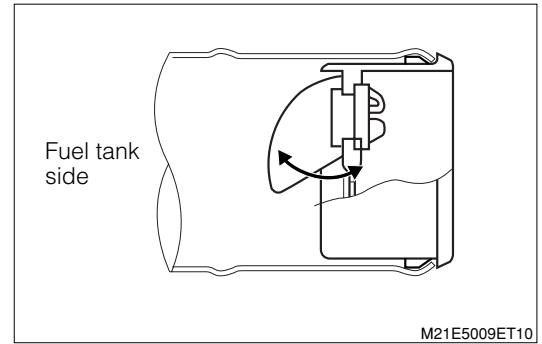
## 3-1-5 POINTS OF INSTALLATION

### (1) Valve S/A, fuel tank filler check

1. Install the fuel tank filler check valve S/A in the direction shown in the right figure.

#### CAUTION

- The insertion should be made securely until the pawl rides over the spool.
- After completion of the assembly, ensure that the valve opens or closed smoothly.



### (2) Gasket, fuel tank breather tube, valve Ay, fuel cut off

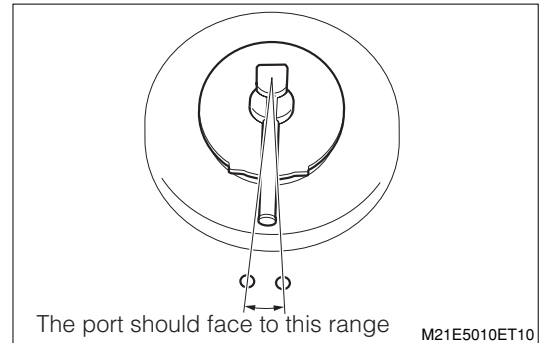
1. Assemble the new gasket to the fuel tank Ay.
2. Insert the new valve Ay in such a way that the port faces to the direction indicated in the right figure.

#### CAUTION

- Do not deform the fuel tank by applying an undue force during the press-fitting.
- Be sure to use the new valve Ay and gasket.

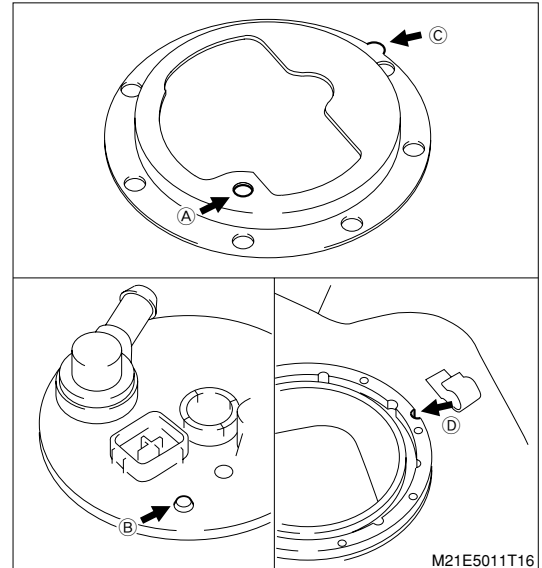
#### NOTE

- It is permissible to use white kerosene as a lubricant. However, do not submerge the valve main body in it.
3. Ensure that the insertion has been made to such an extent that the flange section of the valve Ay firmly contacts the gasket without any gap.



### (3) Gasket, fuel pump, pump Ay, fuel W/ motor&bracket, bracket, fuel pump, No.1

1. Install the fuel pump Ay.
  - (1) Install the fuel pump to the fuel tank with a new fuel pump gasket interposed.
  - (2) Install the fuel pump bracket with the fuel pump bracket hole (A) aligned with the fuel pump's projected point (B) and the fuel pump bracket and fuel tank mate marks (C) and (D) aligned with each other.
  - (3) Tighten the fuel pump bracket to the specified torque.

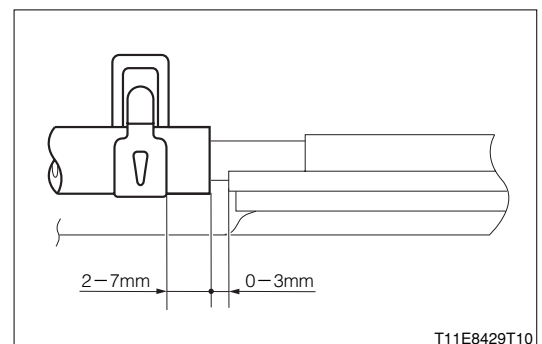


### (4) Hose, fuel (Valve Ay side)

1. Install the hose in such a way that the side having no mark comes to the fuel cut off valve Ay side.

#### CAUTION

- Install the hose as indicated in the right figure.



# B7-19

## (5) Tube S/A, fuel suction (Fuel pump side)

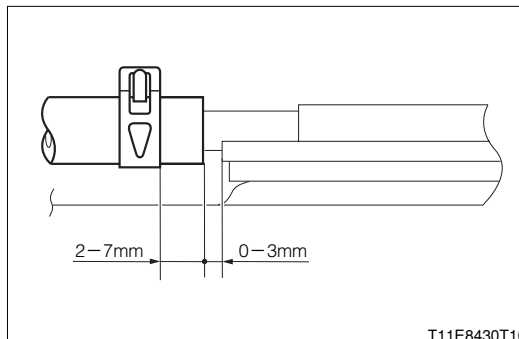
1. Install the tube S/A to the fuel pump Ay.  
Refer to Page B7-14.

## (6) Hose, fuel tank breather (Pump Ay side)

1. Connect the hose to fuel pump Ay.

### CAUTION

- Install the hose as indicated in the right figure.



## (7) Hose, fuel tank to filler pipe (Tank Ay side)

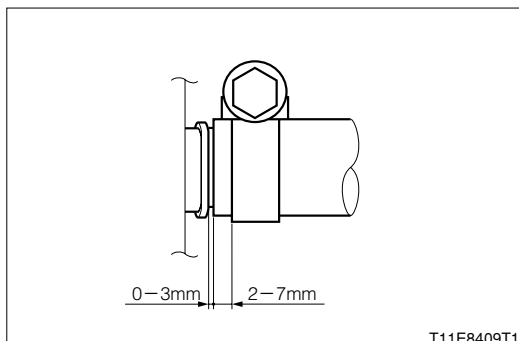
1. Connect the hose to the fuel tank Ay in such a way that the marking side of the hose faces upward.

### CAUTION

- Install the hose, as indicated in the right figure.

Identification mark

2WD vehicle	Yellow
-------------	--------

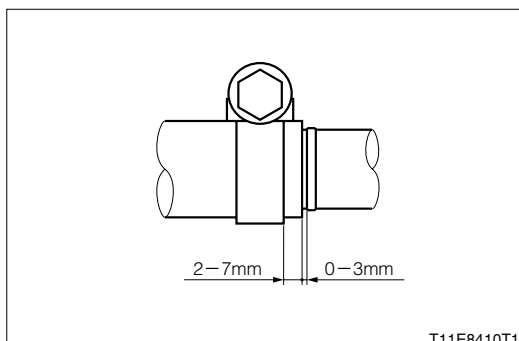


## (8) Hose, fuel tank to filler pipe (Inlet side)

1. Connect the hose at the inlet side to the fuel inlet upper pipe S/A.

### CAUTION

- Install the hose, as indicated in the right figure.

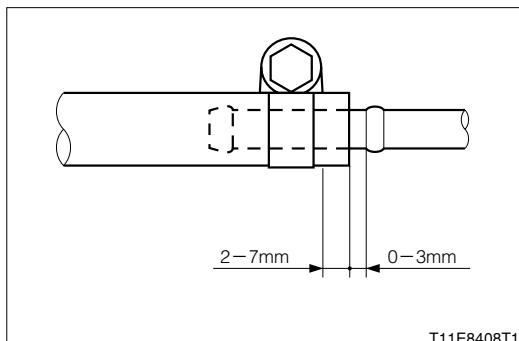


## (9) Hose, fuel tank breather (Inlet side)

1. Connect the hose at the inlet side to the fuel inlet upper pipe S/A.

### CAUTION

- Install the hose, as indicated in the right figure.



## (10) Tank S/A, fuel

1. Install the fuel tank S/A.

- (1) With the fuel tank being brought toward the body side, install the fuel pump connector and harness clamps.
- (2) Install the fuel tank. Tighten the bolts to the specified torque.

**(11) Hose, fuel (Floor tube side)**

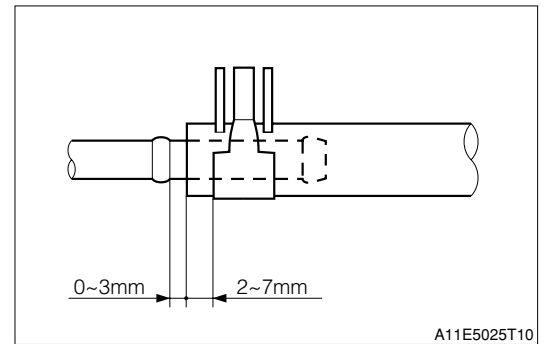
1. Install the hose in such a way that the side having a mark comes to the floor tube side.

**CAUTION**

- Install the hose, as indicated in the right figure.

Identification mark

2WD vehicle	Yellow
-------------	--------

**(12) Tube S/A, fuel section (Floor tube side)**

1. Install the tube S/A at the floor tube side.

Refer to Page B7-14.

**3-1-6 OPERATION AFTER INSTALLATION**

1. Remove the cap Ay, fuel tank.
2. Install the battery negative (-) terminal.
3. Turn the IG switch to the ON position.
4. Check the fuel system for leakage with the fuel pressure applied.

# B7-21

## 4 FUEL PUMP

### 4-1 REMOVAL AND INSTALLATION

#### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

#### 4-1-1 ARTICLES TO BE PREPARED

Lubricant, adhesive, others

Butyl tape

#### 4-1-2 OPERATION BEFORE REMOVAL

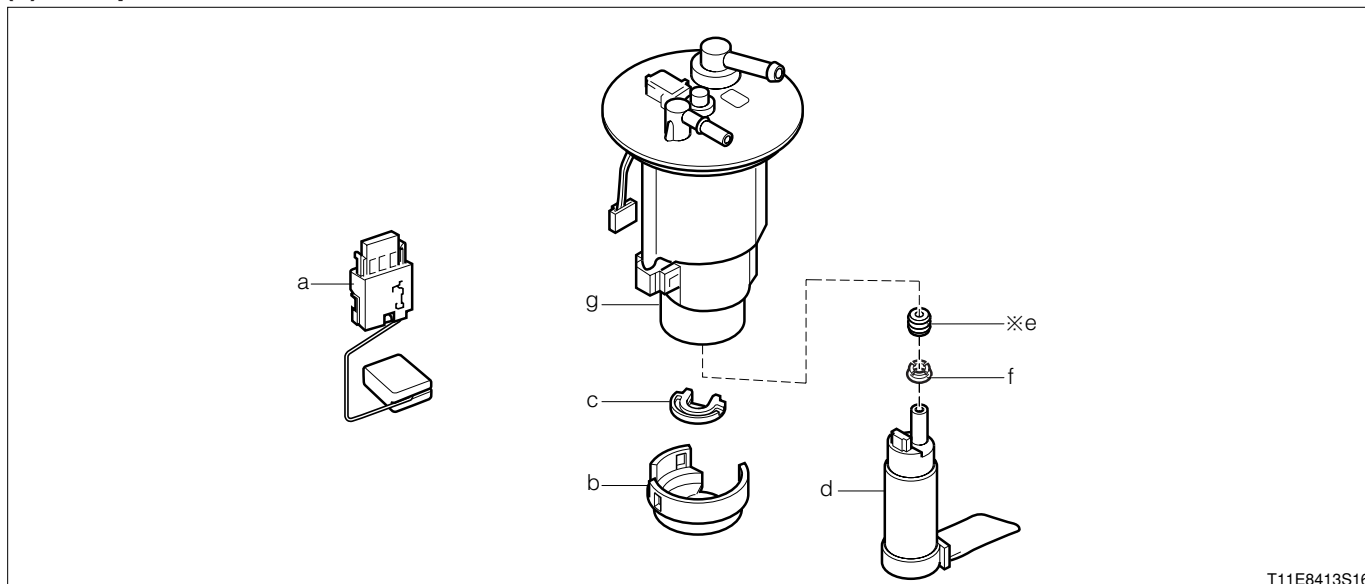
1. Remove the carpet Ay, floor front, board, rear floor, front Rh.

Refer to Page I2-57.

2. Remove the cover, rear floor service hole. Then, disconnect the connector.

#### 4-1-3 REMOVAL AND INSTALLATION PROCEDURES

##### (1) Components



T11E8413S16

⊗: Non-reusable parts

##### (2) Removal and installation procedures

- |     |   |   |                        |   |   |                          |
|-----|---|---|------------------------|---|---|--------------------------|
| ▼   | 1 | a | Gage Ay, fuel sender   | 6 | f | Spacer                   |
|     | 2 | b | Bracket                | 7 | g | Filter Ay, fuel W/flange |
|     | 3 | c | Cushion                |   |   |                          |
| ▼ ▲ | 4 | d | Pump Ay, fuel W/filter |   |   |                          |
|     | 5 | e | Grommet, fuel          |   |   |                          |

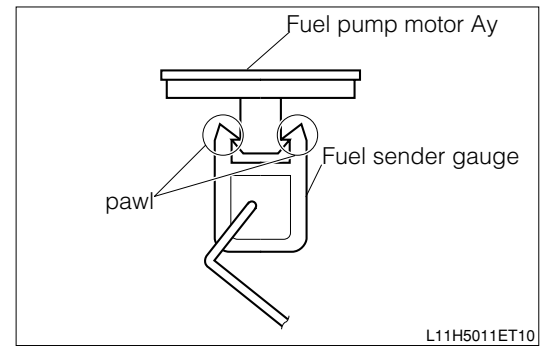
#### NOTE

- As for the five parts of b bracket, c cushion, e grommet, f spacer and g filter Ay, fuel, W/flange, they are available as the fuel filter kit.

## 4-1-4 POINTS OF REMOVAL

### (1) Gage Ay, fuel sender

1. Remove the fuel sender gauge Ay, while opening the two claw sections of the gauge with your finger and pushing them downward.



### (2) Pump Ay, fuel W/filter

1. Disconnect the connector of the pump section.
2. Remove the fuel pump Ay W/filter.

## 4-1-5 POINTS OF INSTALLATION

### (1) Pump Ay, fuel w/filter

1. Install the spacer and fuel grommet to the pump Ay.

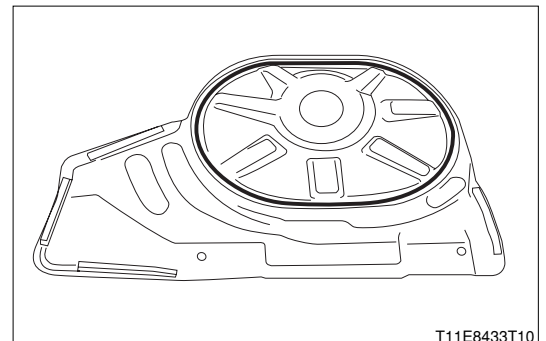
#### CAUTION

- Never reuse the grommet, fuel

2. Install the pump Ay to the fuel filter Ay with flange.
3. Install the connector of the pump section.
4. Install the fuel pump Ay with motor & bracket to the fuel tank Ay.  
Refer to Page B7-18.

## 4-1-6 OPERATION AFTER INSTALLATION

1. Start the engine. Visually check whether there is oil leaking from the fuel pump, hoses and pipes.
2. Affix a butyl tape to the position shown in the right figure.
3. Connect the connector and install the rear floor service hole cover.
4. Install the carpet Ay, floor front, board, rear floor, front RH.  
Refer to Page I2-57.



## 5 INJECTOR

### WARNING

- Never allow a fire to be brought near the jobsite during the operation.
- Be sure to take a precautionary measure to prevent fuel from being splashed.

### 5-1 REMOVAL AND INSTALLATION

#### 5-1-1 ARTICLES TO BE PREPARED

Instrument

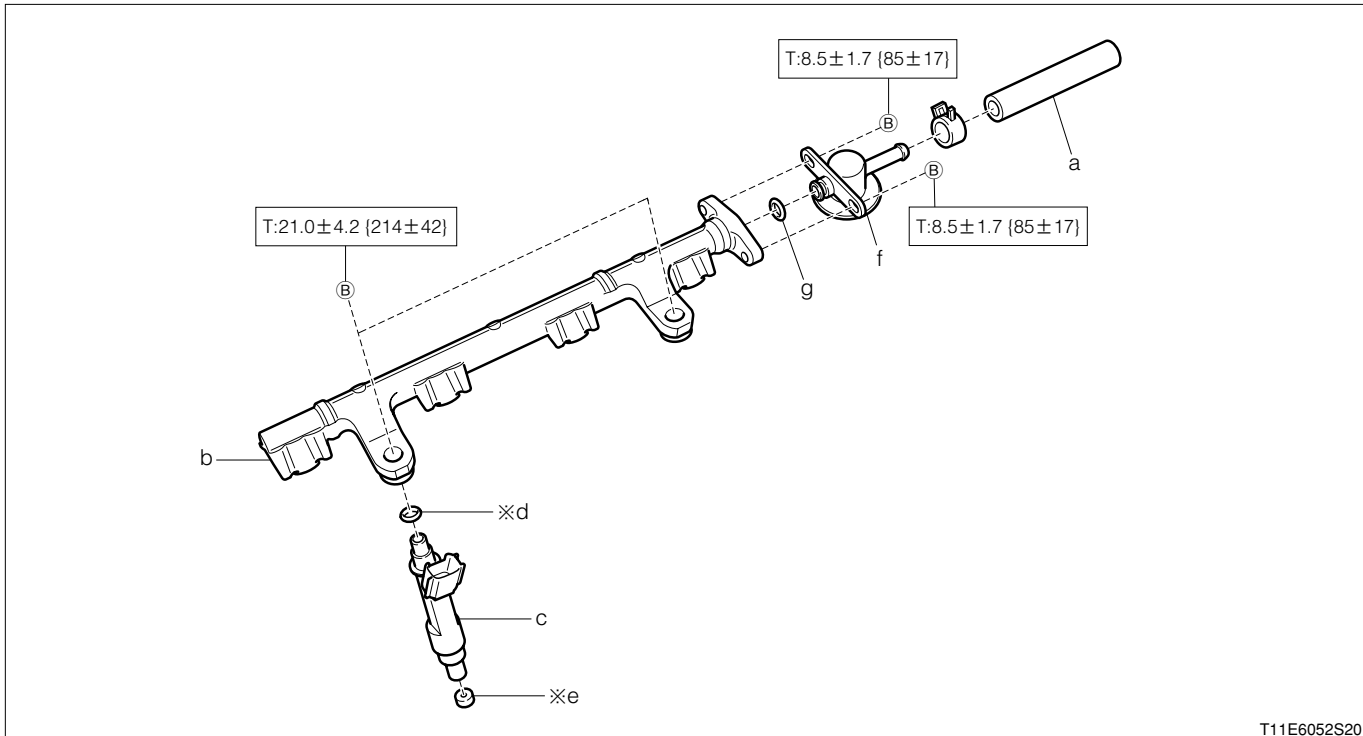
Torque wrench
---------------

#### 5-1-2 OPERATION BEFORE REMOVAL

- 1.Remove the fuel pressure.  
Refer to Page B7-13.
- 2.Disconnect the battery negative (-) terminal.
- 3.Remove the case, air cleaner.  
Refer to Page B3-9.

#### 5-1-3 REMOVAL AND INSTALLATION PROCEDURES

##### (1) Components



T11E6052S20

※:Non-reusable parts

Unit:N·m{kgf·cm}

##### (2) Removal and installation procedures

- |     |                                 |   |                                      |
|-----|---------------------------------|---|--------------------------------------|
| ▲ 1 | a Hose, fuel                    | 6 | f Pipe S/A, fuel                     |
| ▲ 2 | b Pipe, fuel delivery           | 7 | g Damper Ay, fuel pressure pulsation |
| ▲ 3 | c Injector Ay                   |   |                                      |
| 4   | d Ring, O                       |   |                                      |
| 5   | e Insulator, injector vibration |   |                                      |



### 5-1-4 INSPECTION

1. Perform the unit check of the injector.  
Refer to Page B8-471.

### 5-1-5 POINTS OF INSTALLATION

#### (1) Injector, pipe Ay, fuel delivery

1. With the connector of the injector directed toward the external direction of the cylinder head, install the injector, fuel delivery pipe to the cylinder head.

#### CAUTION

- When installing the delivery pipe, care must be exercised to ensure that no damage is made to the O-rings and grommets.

2. After completion of the assembly, turn the injector by hand. Ensure that the injector turns smoothly.

#### CAUTION

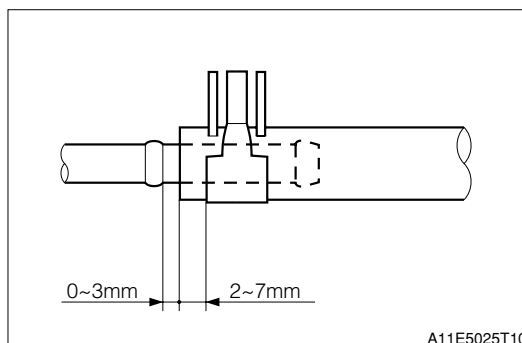
- After the confirmation, ensure that the connector of the injector has not been assembled in a turned state (Not inclined).

#### (2) Hose, fuel

1. Connect the hose to the fuel pressure pulsation damper Ay in such a way that the marking side of the hose faces upward.

#### CAUTION

- Install the hose, as indicated in the right figure.



### 5-1-6 OPERATION AFTER INSTALLATION

1. Install the case, air cleaner.  
Refer to Page B3-9.
2. Install the battery negative (-) terminal.
3. Turn the IG switch to the ON position.
4. Check the fuel system for leakage with the fuel pressure applied.