

General Description

FUEL INJECTION (FUEL SYSTEMS)

1. General Description

A: SPECIFICATION

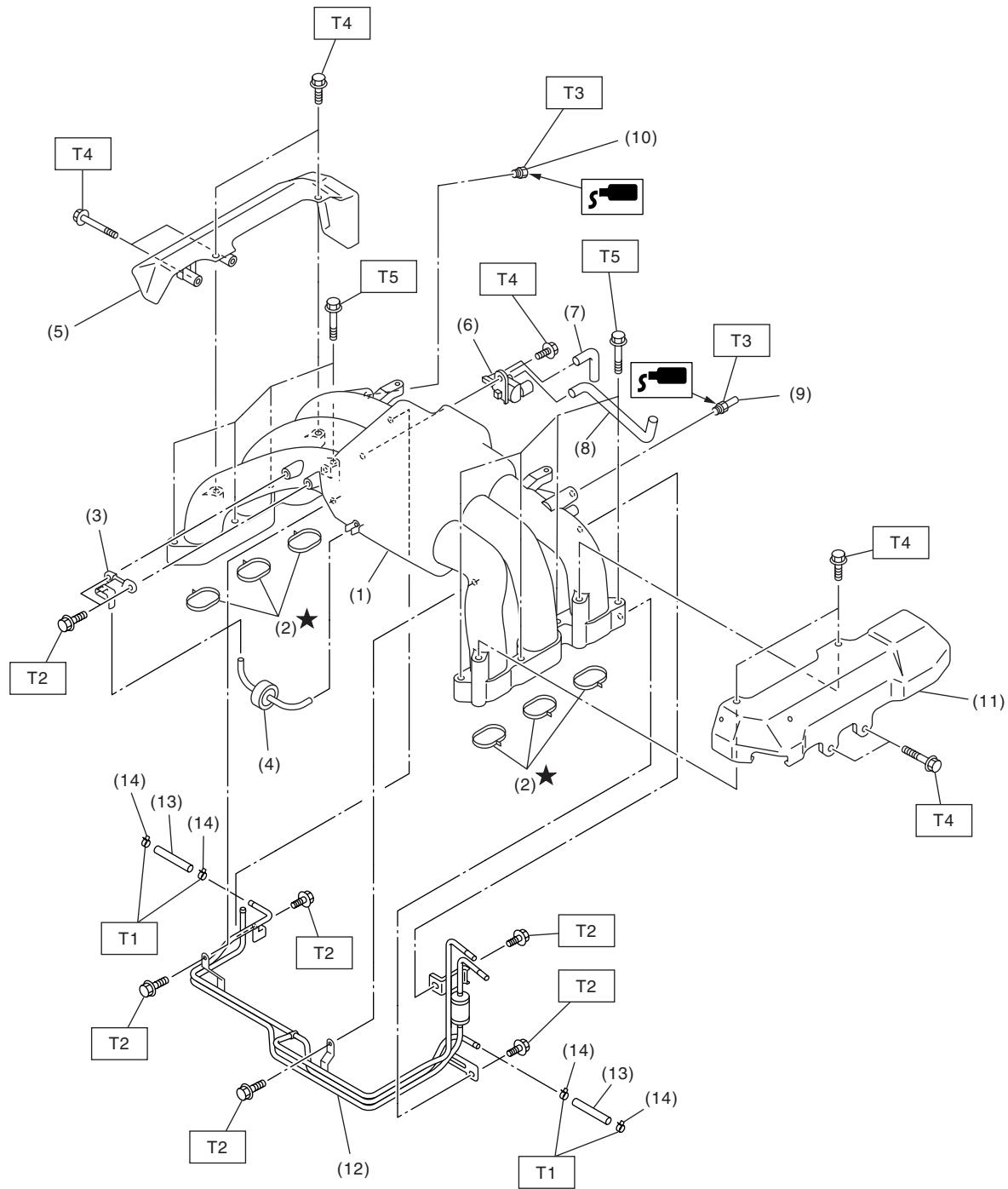
| | | |
|----------------|----------------------------|---|
| Fuel tank | Capacity | 64 ℥ (16.9 US gal, 14.1 Imp gal) |
| | Location | Rear floor bottom |
| Fuel pump | Type | Impeller |
| | Shutoff discharge pressure | 550 — 850 kPa (5.61 — 8.67 kg/cm ² , 79.8 — 123.3 psi) |
| Discharge rate | | 155 ℥ (41 US gal, 34.1 Imp gal)/h or more [12 V at 300 kPa (3.06 kg/cm ² , 43.5 psi)] |
| Fuel filter | | In-tank type |

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B: COMPONENT

1. INTAKE MANIFOLD



FU-02706

General Description

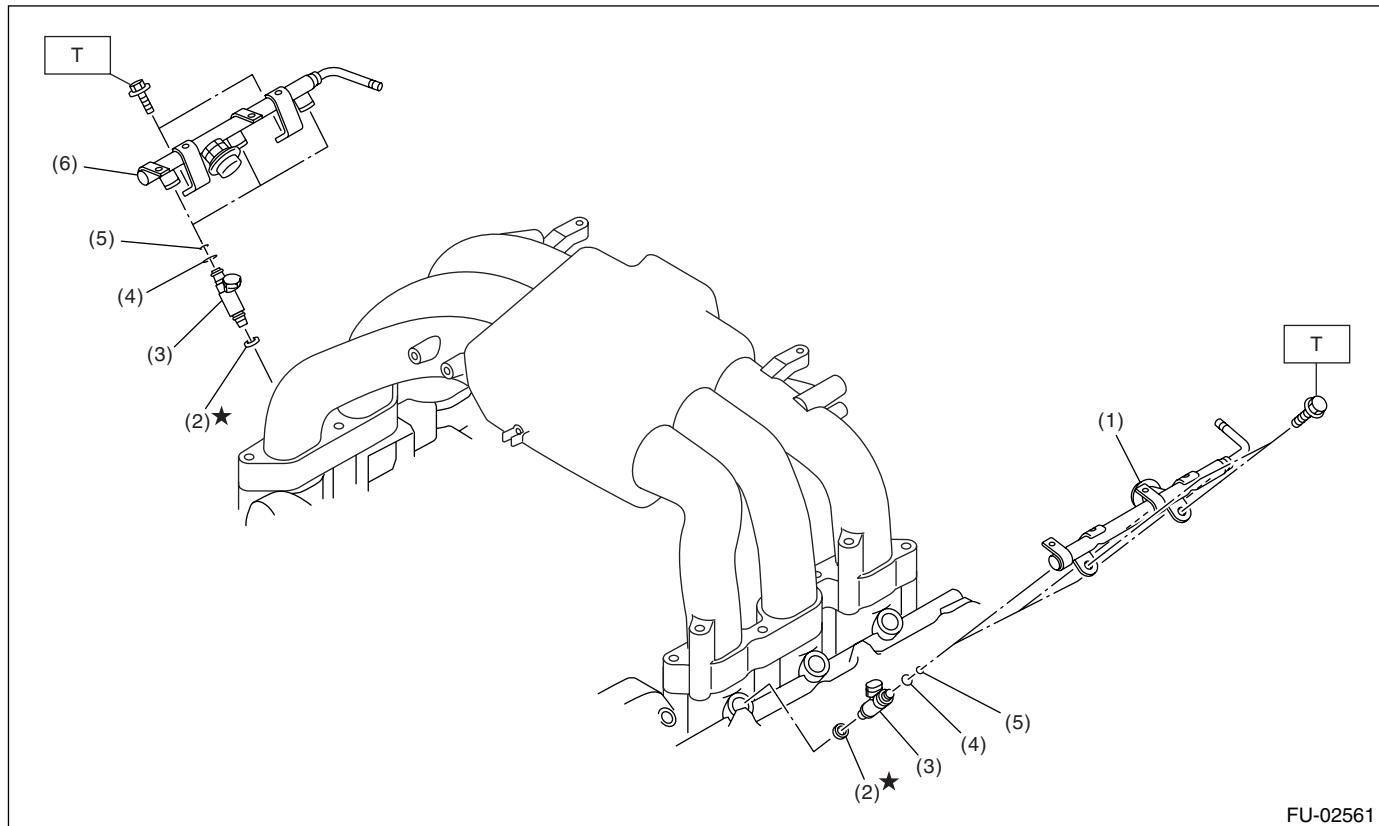
FUEL INJECTION (FUEL SYSTEMS)

| | |
|---------------------------------------|-----------------------------|
| (1) Intake manifold | (8) Hose |
| (2) O-ring | (9) Nipple |
| (3) Manifold absolute pressure sensor | (10) Plug |
| (4) Filter | (11) Fuel pipe protector LH |
| (5) Fuel pipe protector RH | (12) Fuel pipe ASSY |
| (6) Purge control solenoid valve | (13) Hose |
| (7) Hose | (14) Clamp |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 1.5 (0.15, 1.1)
T2: 6.4 (0.65, 4.7)
T3: 17 (1.7, 12.5)
T4: 19 (1.9, 14)
T5: 25 (2.5, 18)

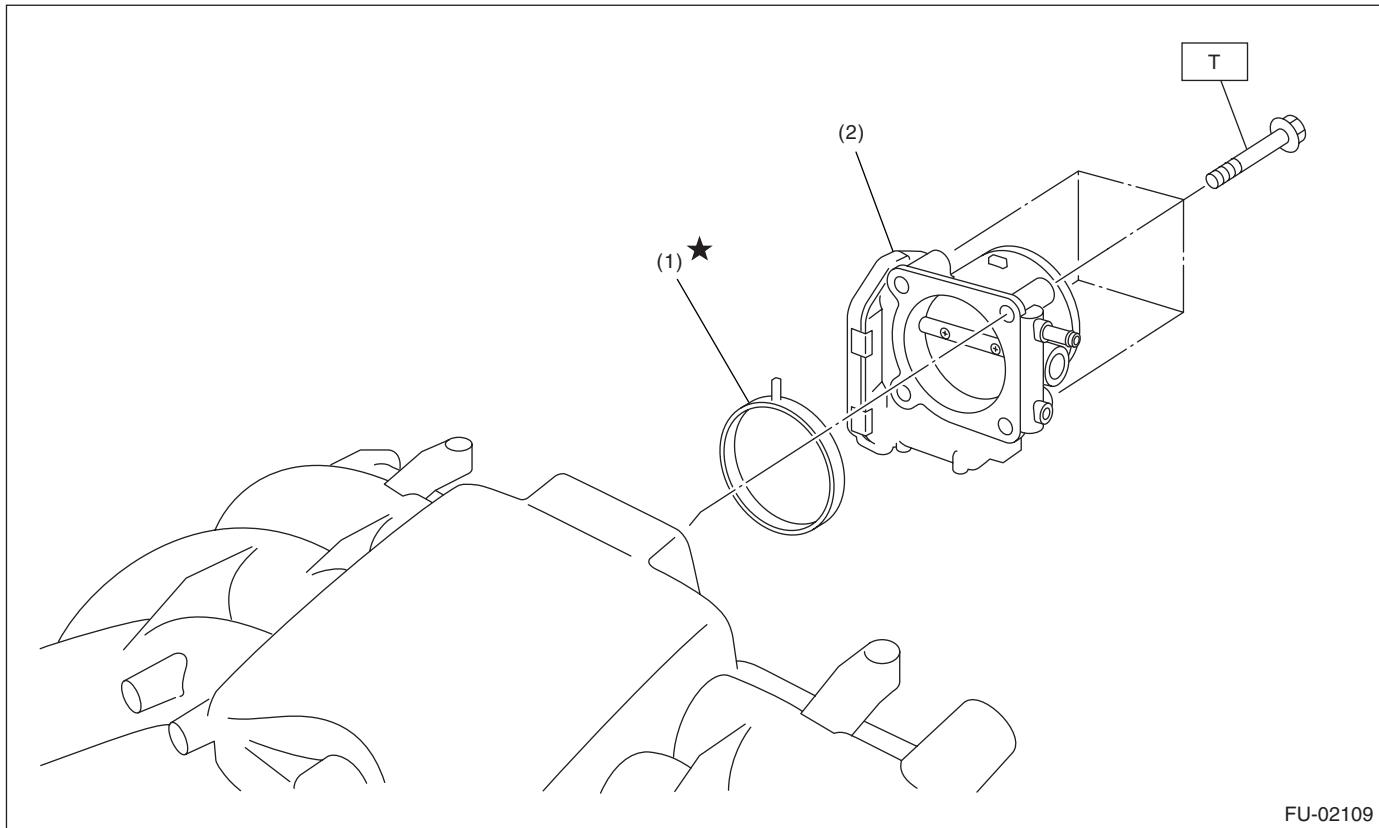
2. FUEL INJECTOR



| | |
|---------------------------|---------------------------|
| (1) Fuel injector pipe LH | (4) Injection rubber |
| (2) Insulator | (5) O-ring |
| (3) Fuel injector | (6) Fuel injector pipe RH |

Tightening torque: N·m (kgf·m, ft·lb)
T: 19 (1.9, 14)

3. AIR INTAKE SYSTEM



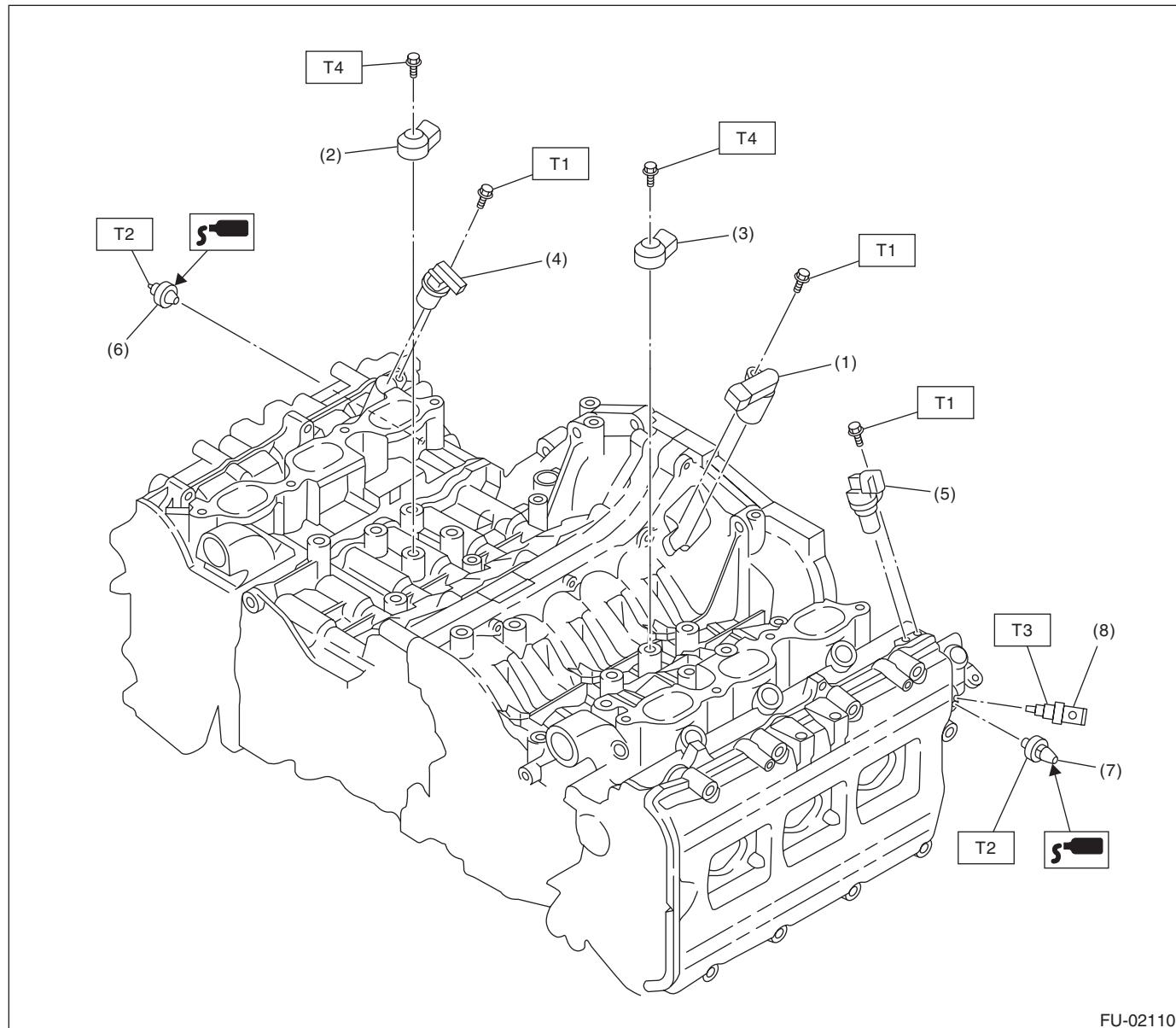
- (1) O-ring
- (2) Throttle body

Tightening torque: N·m (kgf·m, ft·lb)
T: 8 (0.8, 5.9)

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4. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



- (1) Crankshaft position sensor
- (2) Knock sensor RH
- (3) Knock sensor LH
- (4) Camshaft position sensor RH
- (5) Camshaft position sensor LH

- (6) Variable valve lift diagnosis oil pressure switch RH
- (7) Variable valve lift diagnosis oil pressure switch LH
- (8) Oil temperature sensor

Tightening torque: N·m (kgf·m, ft-lb)

T1: 6.4 (0.65, 4.7)

T2: 17 (1.7, 12.5)

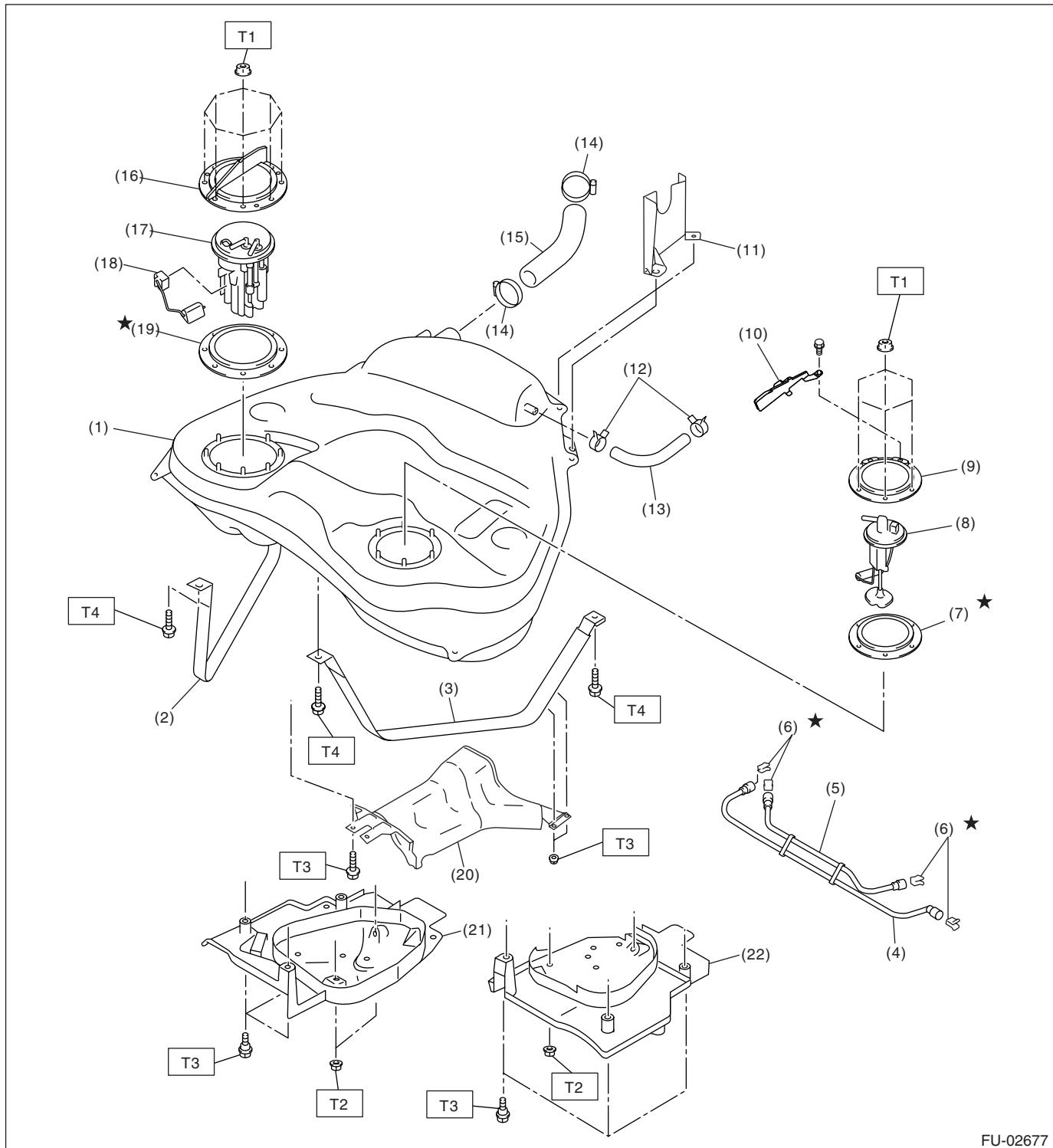
T3: 18 (1.8, 13.3)

T4: 25 (2.5, 18)

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5. FUEL TANK



FU-02677

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| | | |
|---------------------------------------|------------------------------------|-------------------------------------|
| (1) Fuel tank | (11) Fuel tank protector LH (Rear) | (20) Heat shield cover |
| (2) Fuel tank band RH | (12) Clip | (21) Fuel tank protector RH (Front) |
| (3) Fuel tank band LH | (13) Evaporation hose | (22) Fuel tank protector LH (Front) |
| (4) Delivery tube | (14) Clamp | |
| (5) Jet pump tube | (15) Fuel filler hose | |
| (6) Retainer | (16) Fuel pump upper plate | |
| (7) Fuel sub level sensor gasket | (17) Fuel pump ASSY | |
| (8) Fuel sub level sensor | (18) Fuel level sensor | |
| (9) Fuel sub level sensor upper plate | (19) Fuel pump gasket | |
| (10) Bracket | | |

Tightening torque: N·m (kgf·m, ft-lb)

T1: 4.4 (0.45, 3.2)

T2: 9 (0.9, 6.6)

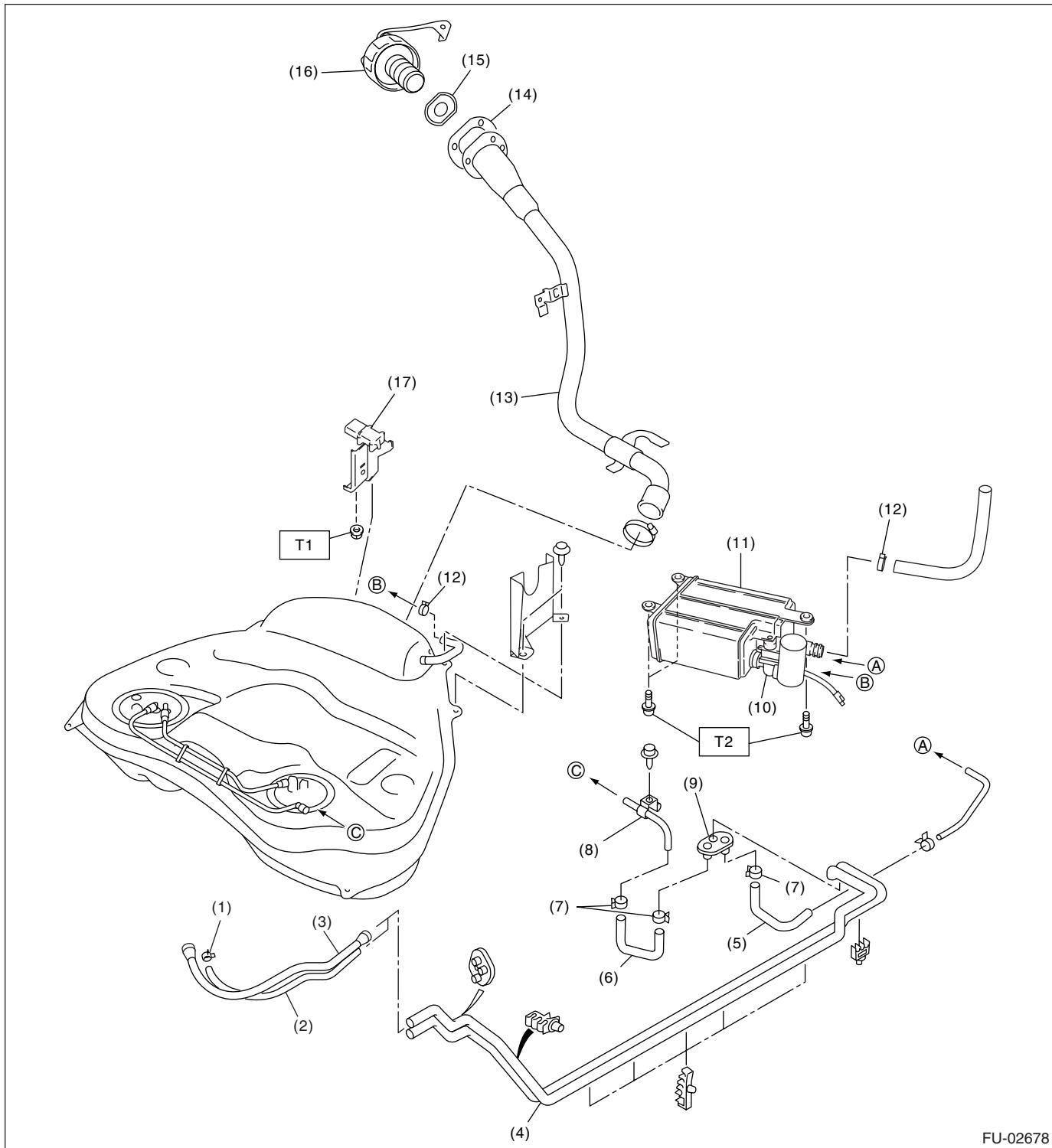
T3: 17.5 (1.78, 12.9)

T4: 33 (3.4, 25)

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6. FUEL LINE



- (1) Clamp
- (2) Evaporation hose A
- (3) Fuel delivery hose A
- (4) Fuel pipe ASSY
- (5) Evaporation hose B
- (6) Fuel delivery hose B
- (7) Clamp

- (8) Fuel pipe ASSY
- (9) Grommet
- (10) Drain valve
- (11) Canister
- (12) Clamp
- (13) Fuel filler pipe
- (14) Packing

- (15) Ring
- (16) Fuel filler cap
- (17) Fuel tank pressure sensor

Tightening torque: N·m (kgf-m, ft-lb)

T1: 7.5 (0.76, 5.5)

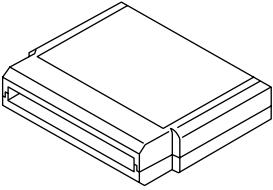
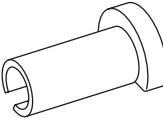
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C: CAUTION

- Wear work clothing, including a cap, protective goggles and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Be careful not to burn yourself, because each part on the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from the battery.
- Place "NO FIRE" signs near the working area.
- Be careful not to spill fuel on the floor.

D: PREPARATION TOOL

| ILLUSTRATION | TOOL NUMBER | DESCRIPTION | REMARKS |
|---|-------------|---------------------------|---|
|  ST18482AA010 | 18482AA010 | CARTRIDGE | Troubleshooting the electrical system. |
|  ST22771AA030 | 22771AA030 | SUBARU SELECT MONITOR KIT | Troubleshooting the electrical system. |
|  ST42099AE000 | 42099AE000 | CONNECTOR REMOVER | Used for disconnecting quick connector of the engine compartment. |