

GENERAL DESCRIPTION

FUEL INJECTION (FUEL SYSTEMS)

1. General Description

A: SPECIFICATIONS

Item		Specification
Fuel tank	Capacity	60 ℥ (15.9 US gal, 13.2 Imp gal)
	Location	Under rear seat
Fuel pump	Type	Impeller
	Shutoff discharge pressure	370 — 677 kPa (3.77 — 6.9 kg/cm ² , 53.6 — 98 psi)
	Discharge flow	More than 65 ℥ (17.2 US gal, 14.3 Imp gal)/h [12 V at 300 kPa (3.06 kg/cm ² , 43.5 psi)]
Fuel filter		Cartridge type

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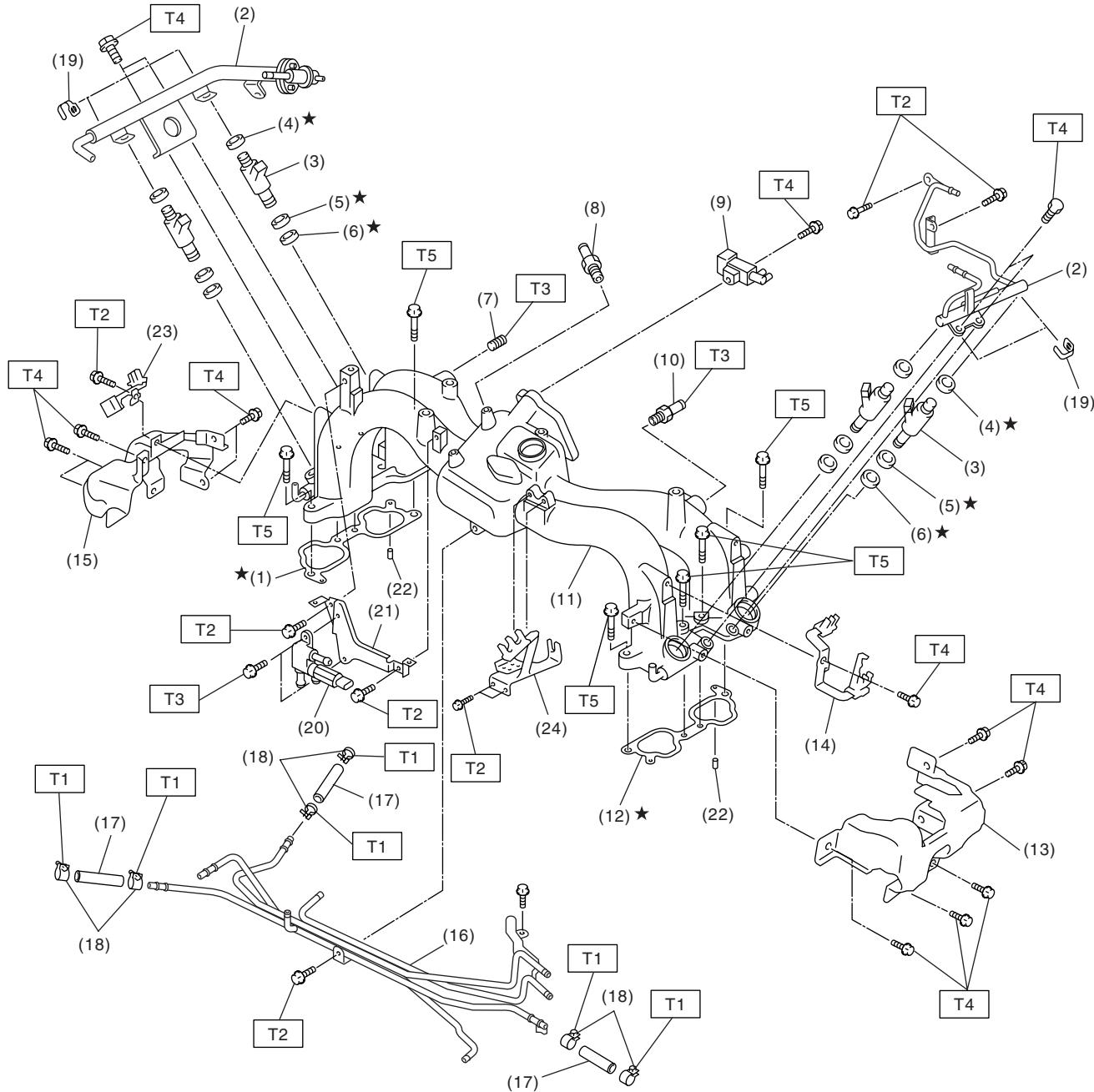
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B: COMPONENT

1. INTAKE MANIFOLD



FU-00246

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- | | |
|----------------------------------|---|
| (1) Intake manifold gasket RH | (12) Intake manifold gasket LH |
| (2) Fuel injector pipe | (13) Fuel pipe protector LH |
| (3) Fuel injector | (14) Plug cord holder LH |
| (4) O-ring | (15) Fuel pipe protector RH |
| (5) O-ring | (16) Fuel pipe assembly |
| (6) O-ring | (17) Fuel hose |
| (7) Plug | (18) Clip |
| (8) Nipple | (19) Clip |
| (9) Purge control solenoid valve | (20) Air assist injector solenoid valve |
| (10) Nipple | (21) Air assist injector solenoid valve bracket |
| (11) Intake manifold | |

- | |
|--------------------------------|
| (22) Guide pin |
| (23) Plug cord holder RH |
| (24) Accelerator cable bracket |

Tightening torque: N·m (kgf·m, ft-lb)

T1: 1.5 (0.15, 1.1)

T2: 5.0 (0.51, 3.7)

T3: 17 (1.7, 12.5)

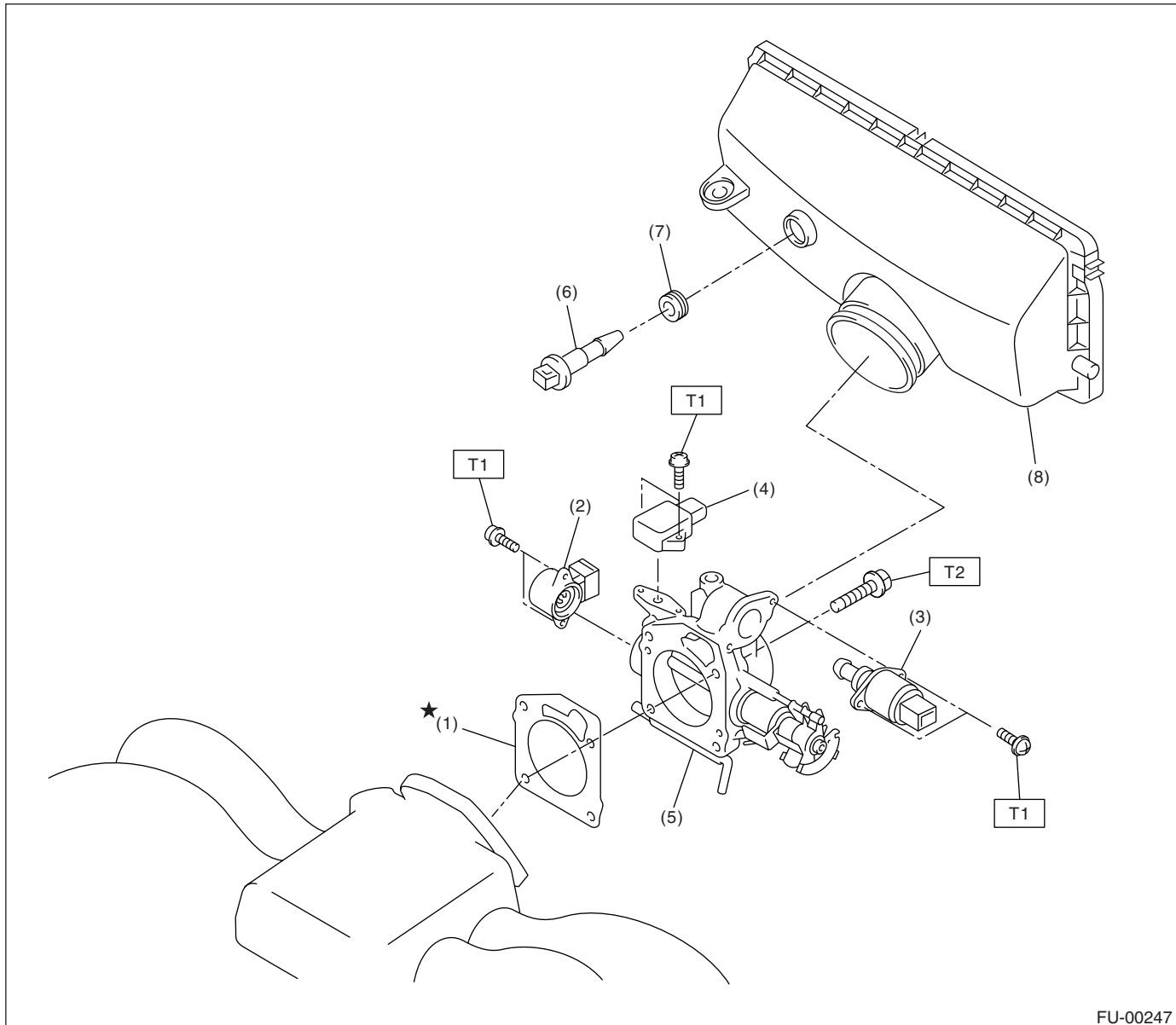
T4: 19 (1.9, 13.7)

T5: 25 (2.5, 18.1)

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2. AIR INTAKE SYSTEM



FU-00247

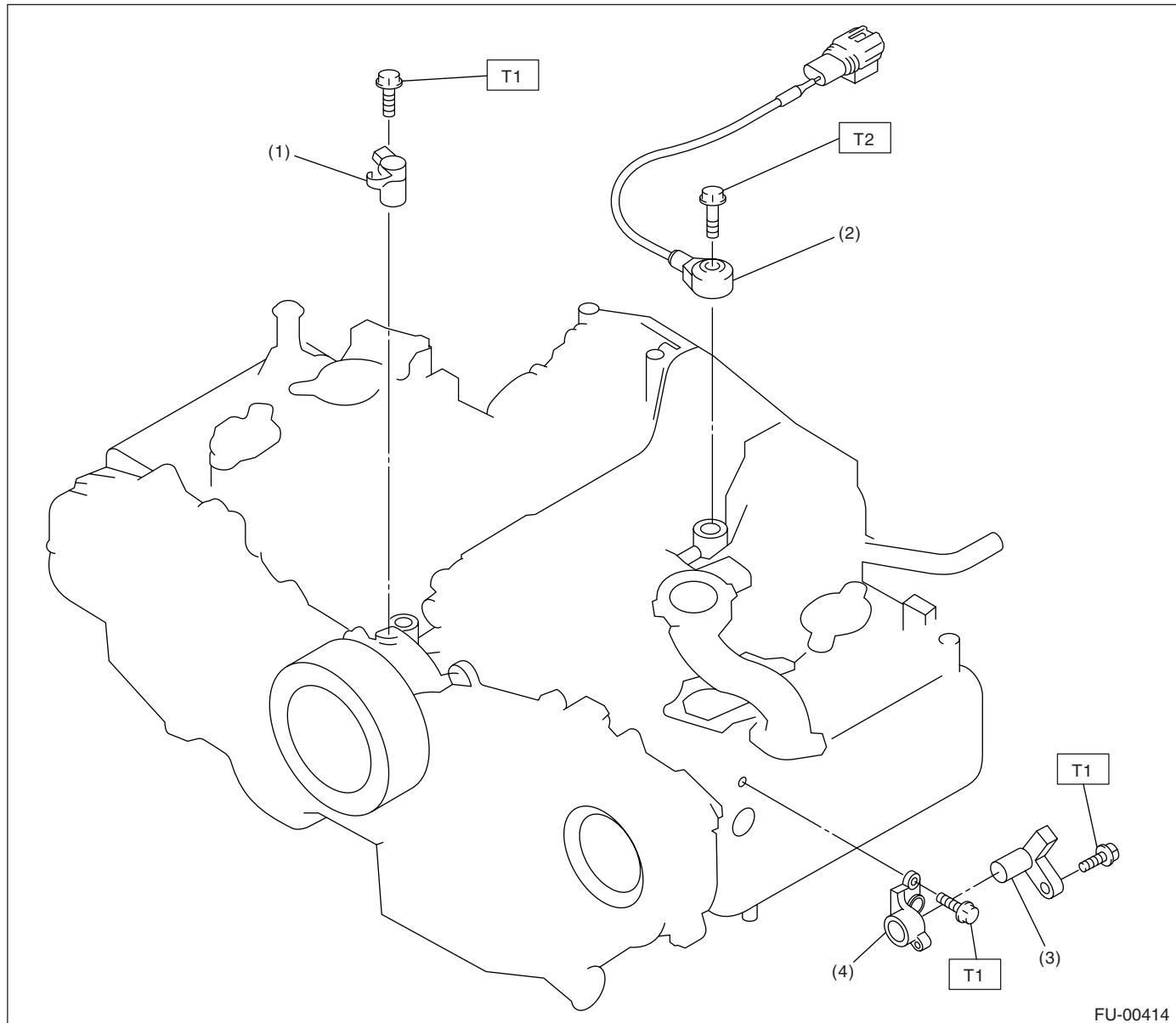
- | | |
|-------------------------------------|-----------------------------------|
| (1) Gasket | (5) Throttle body |
| (2) Throttle position sensor | (6) Intake air temperature sensor |
| (3) Idle air control solenoid valve | (7) Grommet |
| (4) Pressure sensor | (8) Air cleaner case |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 1.6 (0.16, 1.2)

T2: 22 (2.2, 15.9)

3. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



(1) Crankshaft position sensor

(2) Knock sensor

(3) Camshaft position sensor

(4) Camshaft position sensor support

Tightening torque: N·m (kgf·m, ft·lb)

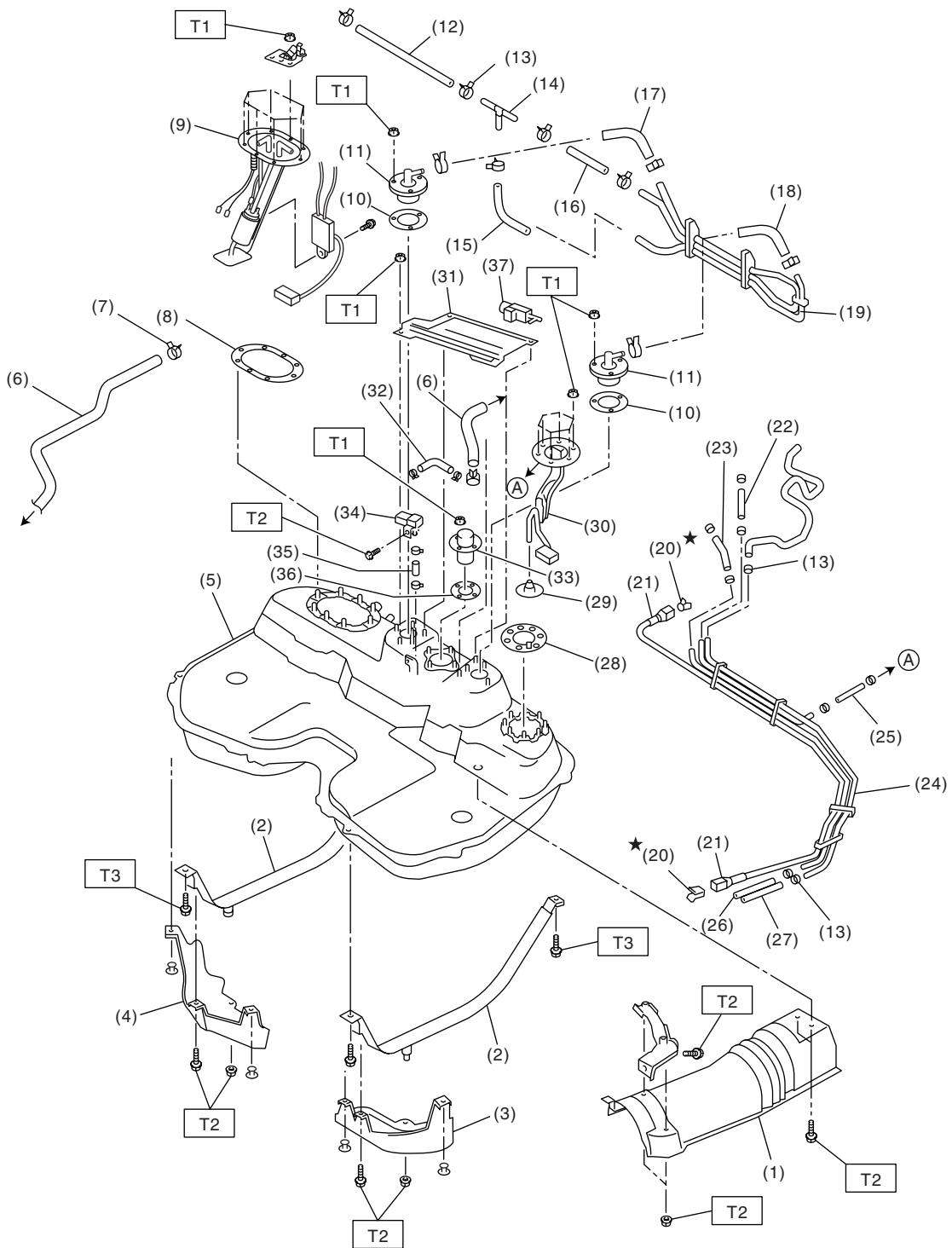
T1: 6.4 (0.65, 4.7)

T2: 24 (2.4, 17.4)

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4. FUEL TANK



FU-00249

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(1) Heat shield cover	(16) Evaporation hose B	(31) Protector cover
(2) Fuel tank band	(17) Evaporation hose D	(32) Vent valve hose
(3) Protector LH	(18) Evaporation hose E	(33) Vent valve
(4) Protector RH	(19) Evaporation pipe assembly	(34) Fuel tank pressure sensor
(5) Fuel tank	(20) Retainer	(35) Fuel tank pressure sensor hose
(6) Canister hose A	(21) Quick connector	(36) Vent valve gasket
(7) Clamp	(22) Jet pump hose A	(37) Fuel tank sensor control valve
(8) Fuel pump gasket	(23) Fuel return hose A	
(9) Fuel pump assembly	(24) Fuel pipe assembly	
(10) Fuel cut valve gasket	(25) Jet pump hose B	
(11) Fuel cut valve	(26) Fuel return hose B	
(12) Evaporation hose A	(27) Evaporation hose F	
(13) Clip	(28) Fuel sub level sensor gasket	
(14) Joint pipe	(29) Jet pump filter	
(15) Evaporation hose C	(30) Fuel sub level sensor	

Tightening torque: N·m (kgf·m, ft·lb)

T1: 4.4 (0.45, 3.3)

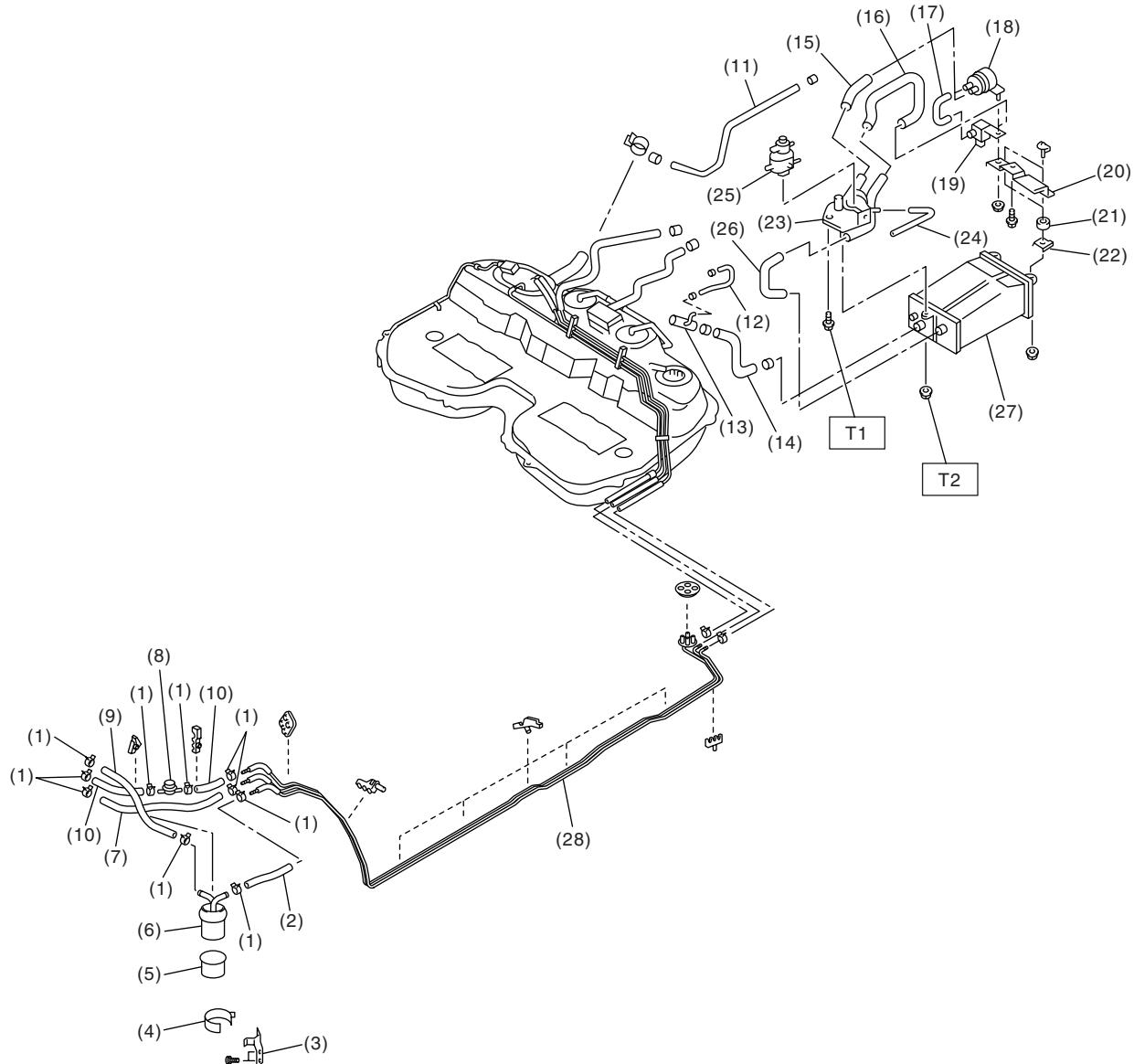
T2: 7.4 (0.75, 5.4)

T3: 33 (3.4, 25)

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5. FUEL LINE



FU-00250

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(1) Clip	(12) Evaporation hose B	(23) Canister holder
(2) Fuel delivery hose A	(13) Joint pipe	(24) Evaporation hose C
(3) Fuel filter bracket	(14) Canister hose A	(25) Pressure control solenoid valve
(4) Fuel filter holder	(15) Drain filter hose A	(26) Canister hose B
(5) Fuel filter cup	(16) Drain valve hose	(27) Canister
(6) Fuel filter	(17) Drain filter hose B	(28) Fuel pipe assembly
(7) Evaporation hose	(18) Drain filter	
(8) Fuel damper	(19) Drain valve	
(9) Fuel delivery hose B	(20) Canister upper bracket	
(10) Fuel return hose	(21) Cushion rubber	
(11) Evaporation hose A	(22) Canister lower bracket	

Tightening torque: N·m (kgf·m, ft-lb)

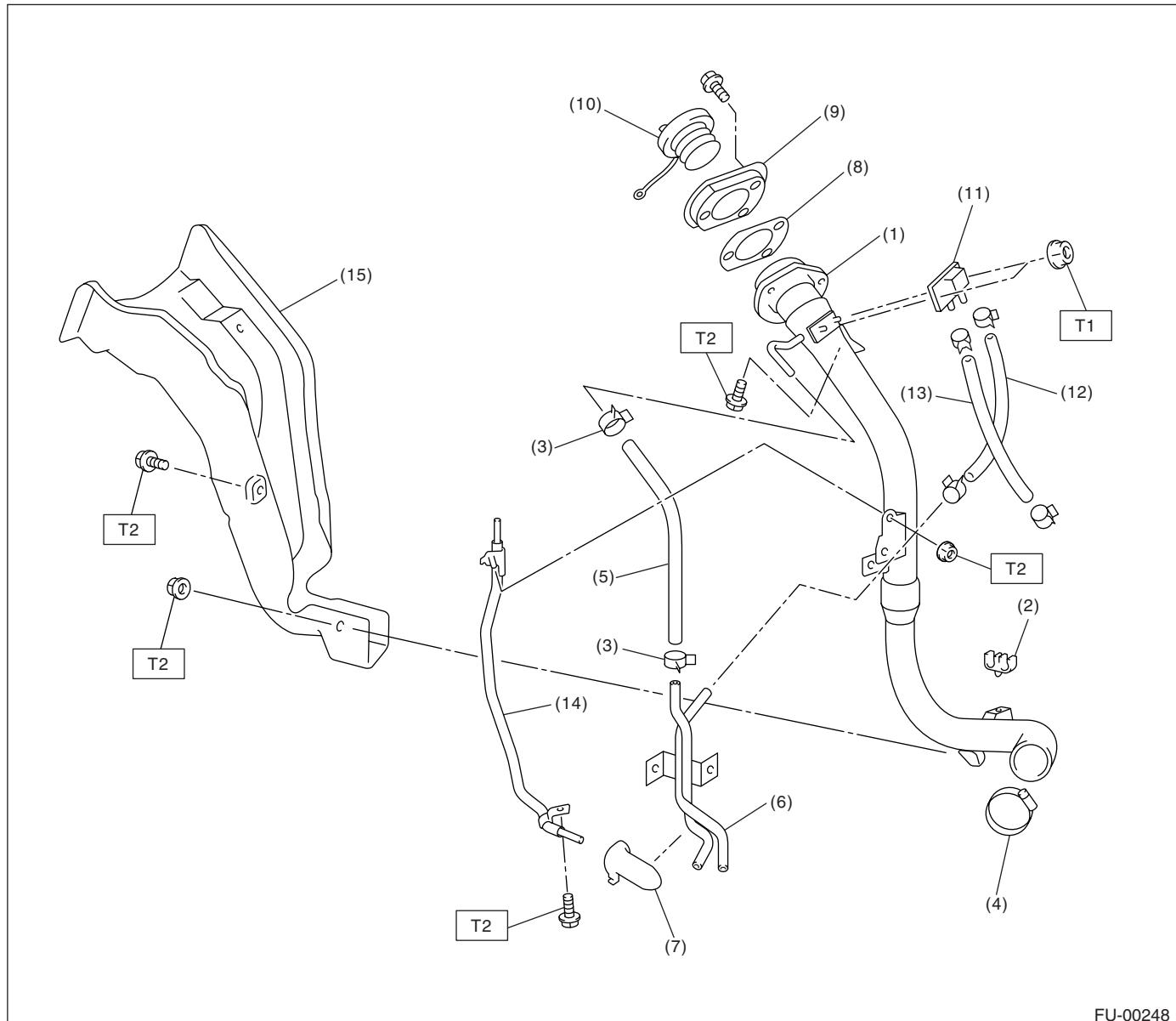
T1: 25 (2.5, 18.1)

T2: 23 (2.3, 16.6)

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6. FUEL FILLER PIPE



FU-00248

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|-------------------------------|-------------------------|---------------------------------|
| (1) Fuel filter pipe assembly | (8) Filler pipe packing | (15) Fuel filler pipe protector |
| (2) Evaporation hose holder | (9) Filler ring | |
| (3) Clamp | (10) Filler cap | |
| (4) Clamp | (11) Shut valve | |
| (5) Evaporation hose A | (12) Evaporation hose B | |
| (6) Evaporation pipe | (13) Evaporation hose C | |
| (7) Evaporation pipe holder | (14) Joint pipe | |

Tightening torque: N·m (kgf·m, ft-lb)

T1: 4.4 (0.45, 3.3)

T2: 7.5 (0.76, 5.53)

GENERAL DESCRIPTION

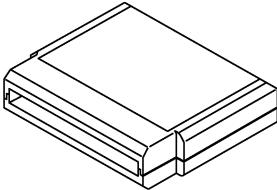
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C: CAUTION

- Wear working 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 or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.

- Be careful not to burn your hands, 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 safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the ground cable from 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
 ST24082AA210	24082AA210 (Newly adopted tool)	CARTRIDGE	Troubleshooting for electrical systems.
 ST22771AA030	22771AA030	SUBARU SELECT MONITOR KIT	Troubleshooting for electrical systems. <ul style="list-style-type: none">• English: 22771AA030 (Without printer)• German: 22771AA070 (Without printer)• French: 22771AA080 (Without printer)• Spanish: 22771AA090 (Without printer)