

GENERAL DESCRIPTION

FUEL INJECTION (FUEL SYSTEMS)

1. General Description

A: SPECIFICATIONS

Fuel tank	Capacity	60 ℥ (15.9 US gal, 13.2 Imp gal)
	Location	Under rear seat
Fuel pump	Type	Impeller
	Shutoff discharge pressure	450 — 677 kPa (4.59 — 6.9 kg/cm ² , 65.27 — 98.2 psi)
	Discharge flow	More than 130 ℥ (34.3 US gal, 28.6 Imp gal)/h [12 V at 300 kPa (3.06 kg/cm ² , 43.5 psi)]
Fuel filter		Cartridge type

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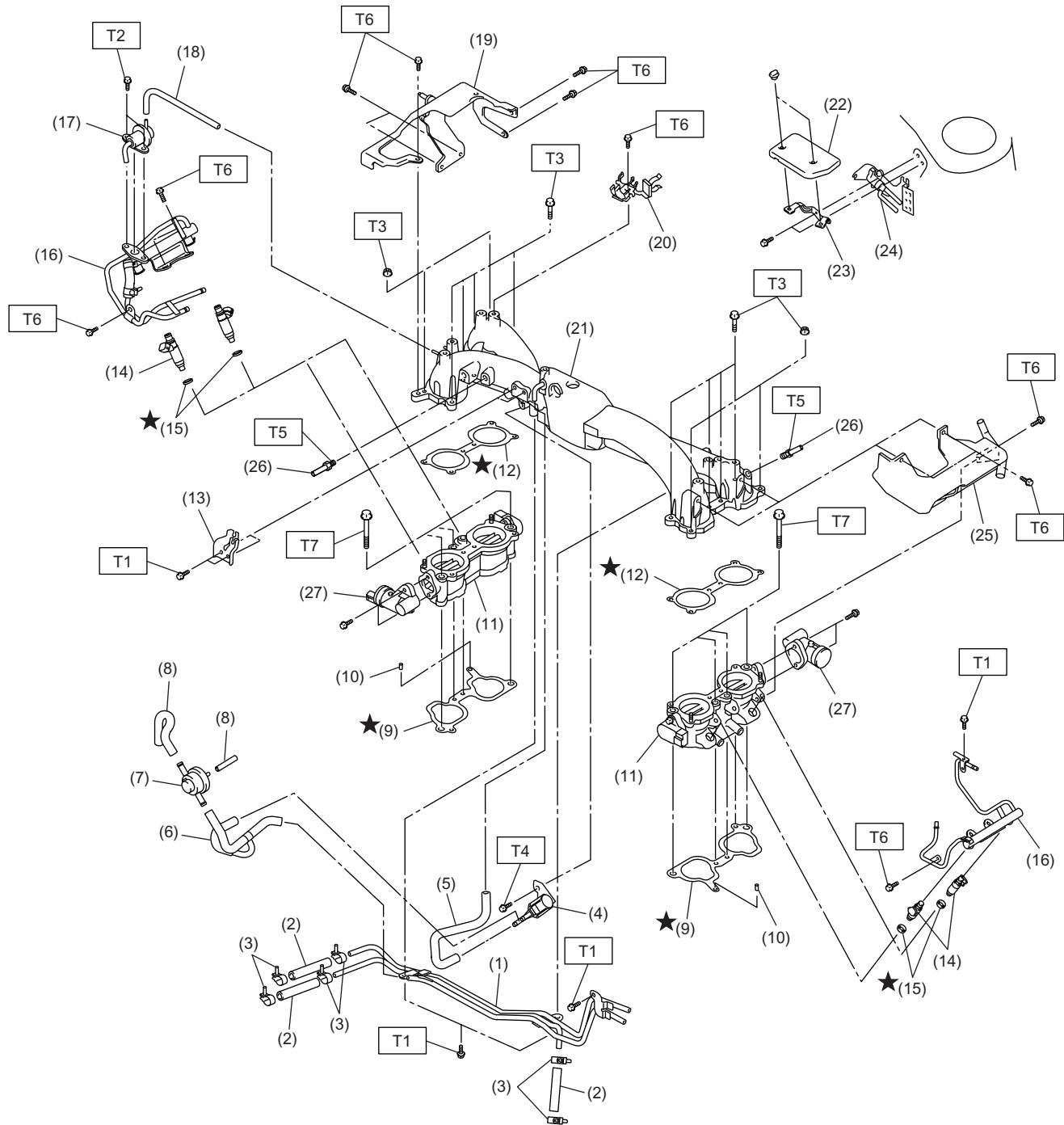
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B: COMPONENT

1. INTAKE MANIFOLD



FU-00775

GENERAL DESCRIPTION

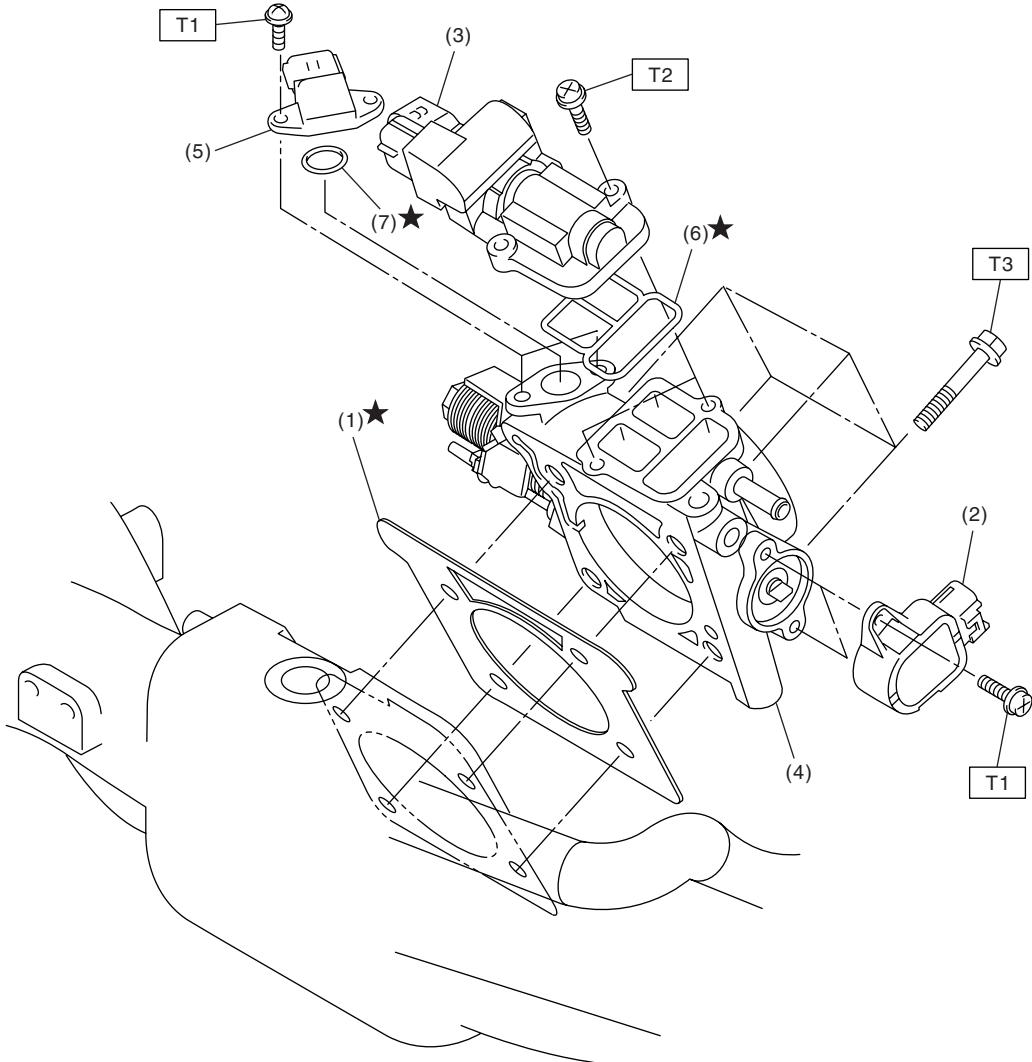
FUEL INJECTION (FUEL SYSTEMS)

(1) Fuel pipe ASSY	(13) Accelerator cable bracket	(25) Fuel pipe protector LH
(2) Fuel hose	(14) Fuel injector	(26) Nipple
(3) Clip	(15) Insulator	(27) Tumble generator valve actuator
(4) Purge control solenoid valve	(16) Fuel injector pipe	
(5) Vacuum hose	(17) Pressure regulator	Tightening torque: N·m (kgf·m, ft·lb)
(6) Vacuum control hose	(18) Pressure regulator hose	T1: 4.9 (0.5, 3.6)
(7) Purge valve	(19) Fuel pipe protector RH	T2: 6.4 (0.65, 4.7)
(8) Purge hose	(20) Blow-by hose stay	T3: 8.25 (0.84, 6.1)
(9) Intake manifold gasket	(21) Intake manifold	T4: 16 (1.6, 11.8)
(10) Guide pin	(22) Solenoid valve cover	T5: 17 (1.73, 12.5)
(11) Tumble generator valve ASSY	(23) Solenoid valve cover stay	T6: 19 (1.94, 13.7)
(12) Tumble generator valve gasket	(24) Wastegate control solenoid valve ASSY	T7: 25 (2.5, 18.1)

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2. AIR INTAKE SYSTEM



FU-00002

(1) Gasket	(5) Pressure sensor
(2) Throttle position sensor	(6) Gasket
(3) Idle air control solenoid valve	(7) O-ring
(4) Throttle body	

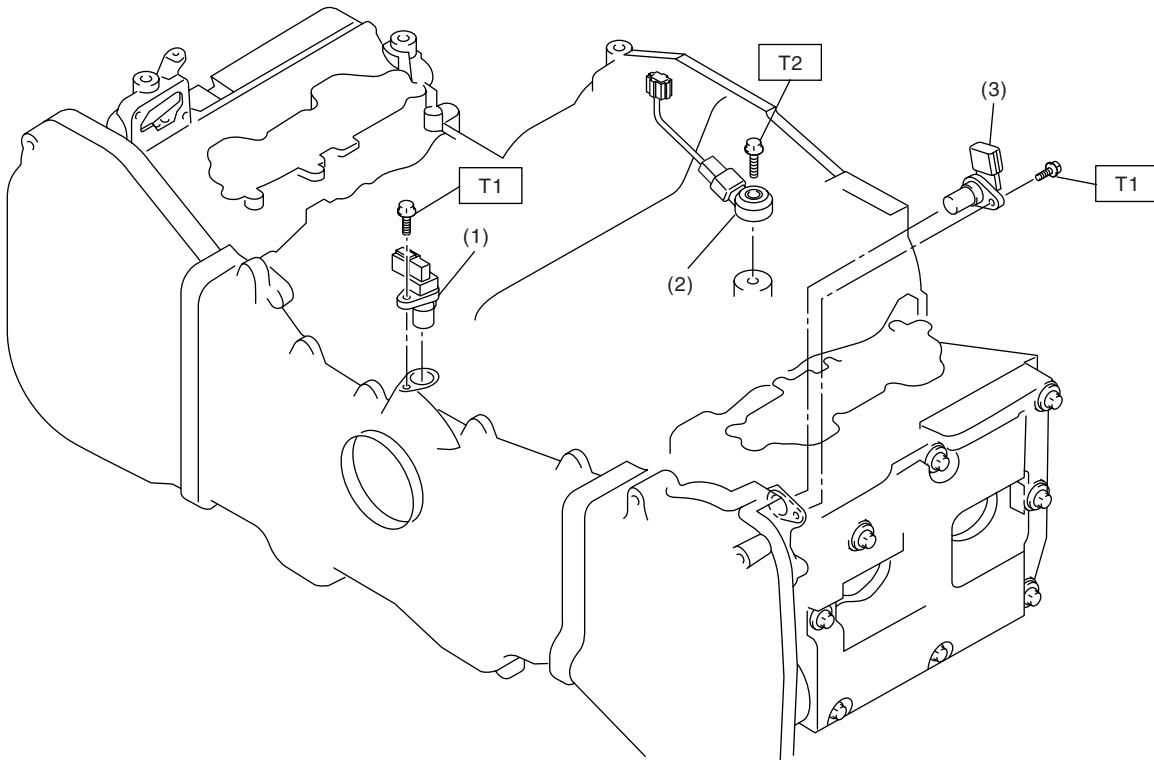
Tightening torque: N·m (kgf·m, ft·lb)

T1: 1.6 (0.16, 1.2)

T2: 2.8 (0.29, 2.1)

T3: 22 (2.2, 15.9)

3. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



FU-00363

(1) Crankshaft position sensor
(2) Knock sensor

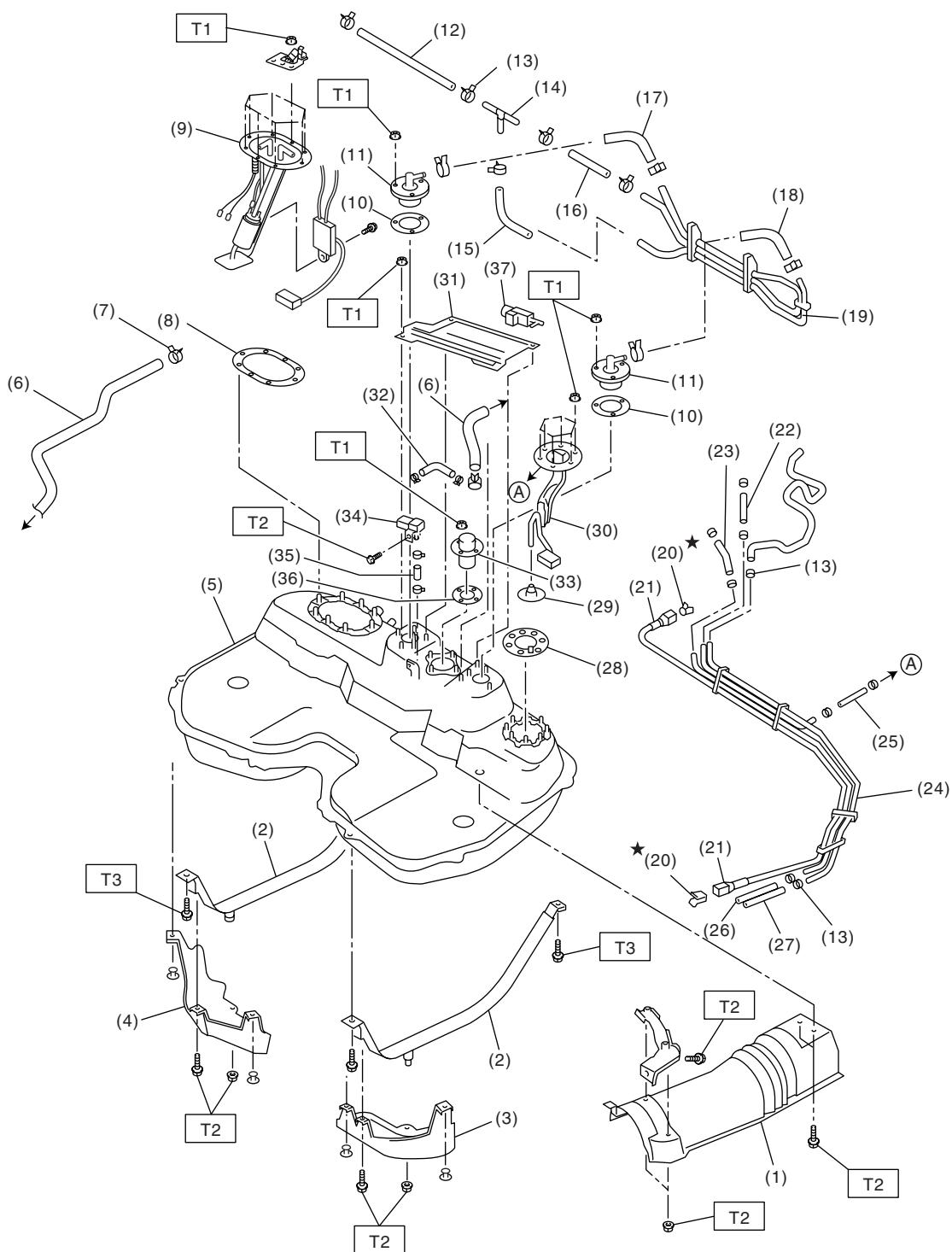
(3) Camshaft position sensor

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

Tightening torque: N·m (kgf·m, ft-lb)

T1: 4.4 (0.45, 3.3)

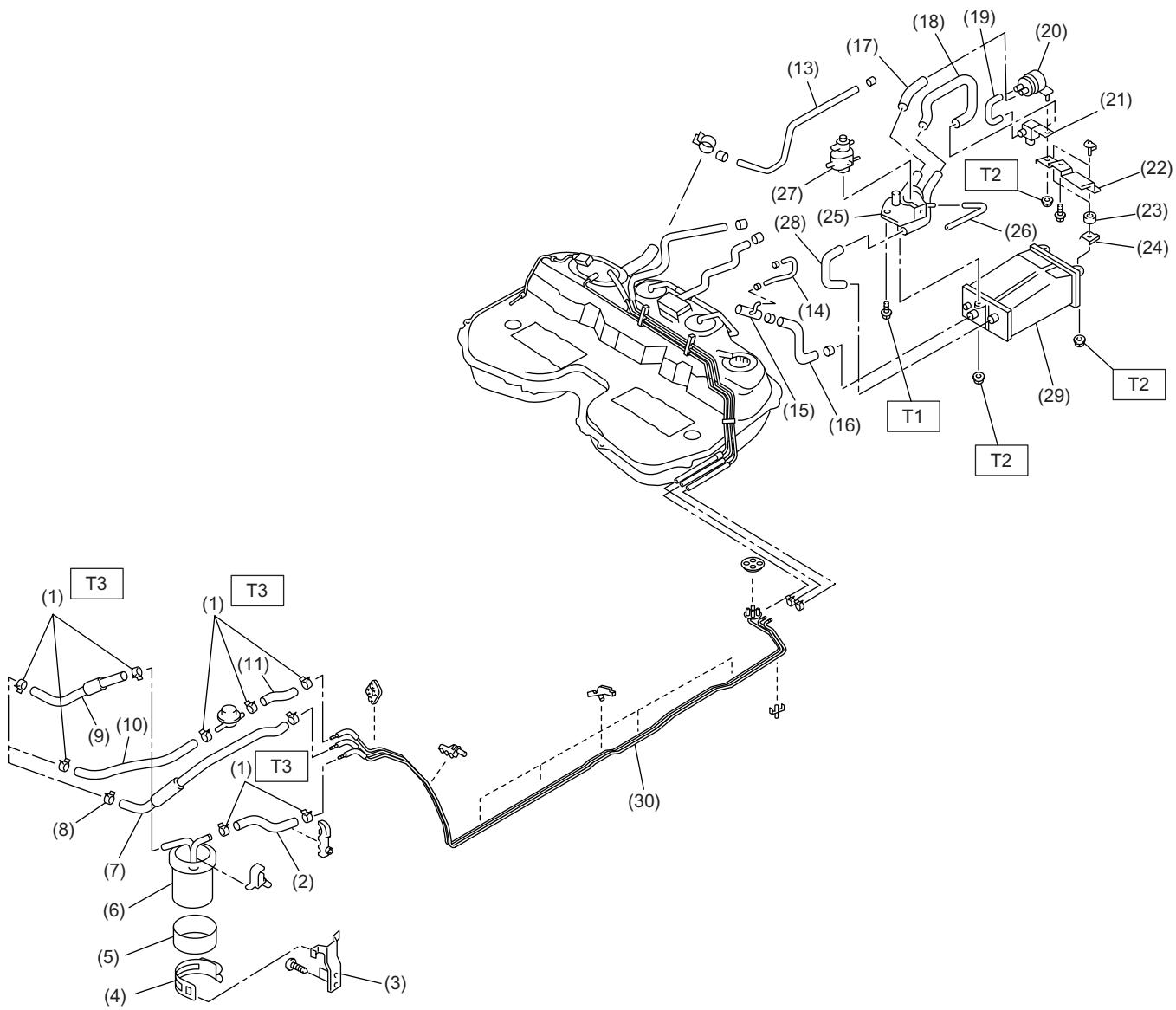
T2: 7.4 (0.75, 5.4)

T3: 33 (3.4, 25)

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5. FUEL LINE



FU-00777

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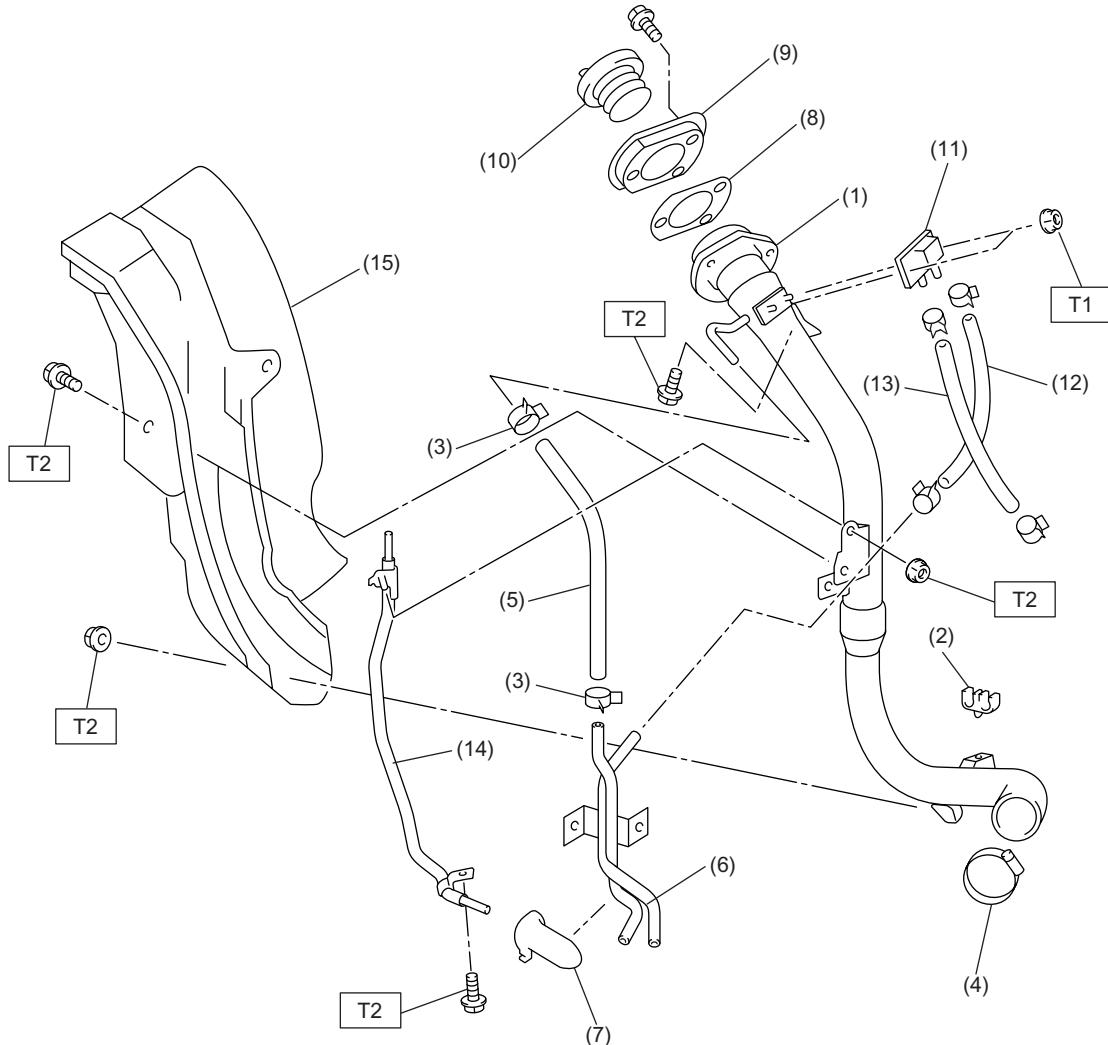
FUEL INJECTION (FUEL SYSTEMS)

(1) Clamp	(13) Evaporation hose J	(25) Canister holder
(2) Fuel delivery hose A	(14) Evaporation hose K	(26) Evaporation hose L
(3) Fuel filter bracket	(15) Joint pipe	(27) Pressure control solenoid valve
(4) Fuel filter holder	(16) Canister hose A	(28) Canister hose B
(5) Fuel filter cup	(17) Air filter hose A	(29) Canister
(6) Fuel filter	(18) Drain valve hose	(30) Fuel pipe ASSY
(7) Evaporation hose	(19) Air filter hose B	
(8) Clip	(20) Drain filter	<i>Tightening torque: N·m (kgf·m, ft-lb)</i>
(9) Fuel delivery hose B	(21) Drain valve	<i>T1: 25 (2.5, 18.1)</i>
(10) Fuel return hose A	(22) Canister upper bracket	<i>T2: 23 (2.3, 16.6)</i>
(11) Fuel return hose B	(23) Cushion rubber	<i>T3: 1.25 (0.13, 0.94)</i>
(12) Fuel damper	(24) Canister lower bracket	

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6. FUEL FILLER PIPE



FU-00778

(1) Fuel filler pipe ASSY	(8) Filler pipe packing	(15) Fuel filler pipe protector
(2) Evaporation hose holder	(9) Filler ring	
(3) Clip	(10) Filler cap	<i>Tightening torque: N·m (kgf·m)</i>
(4) Clamp	(11) Shut valve	<i>T1: 4.4 (0.45, 3.3)</i>
(5) Evaporation hose A	(12) Evaporation hose B	<i>T2: 7.5 (0.76, 5.5)</i>
(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, 5.5)

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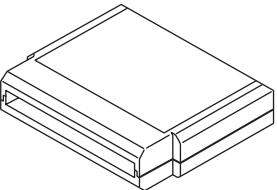
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C: CAUTION

- 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 negative terminal 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
	24082AA210 (Newly adopted tool) ST24082AA210	CARTRIDGE	Troubleshooting for electrical system.
	22771AA030 ST22771AA030	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)