

General Description

FUEL INJECTION (FUEL SYSTEMS)

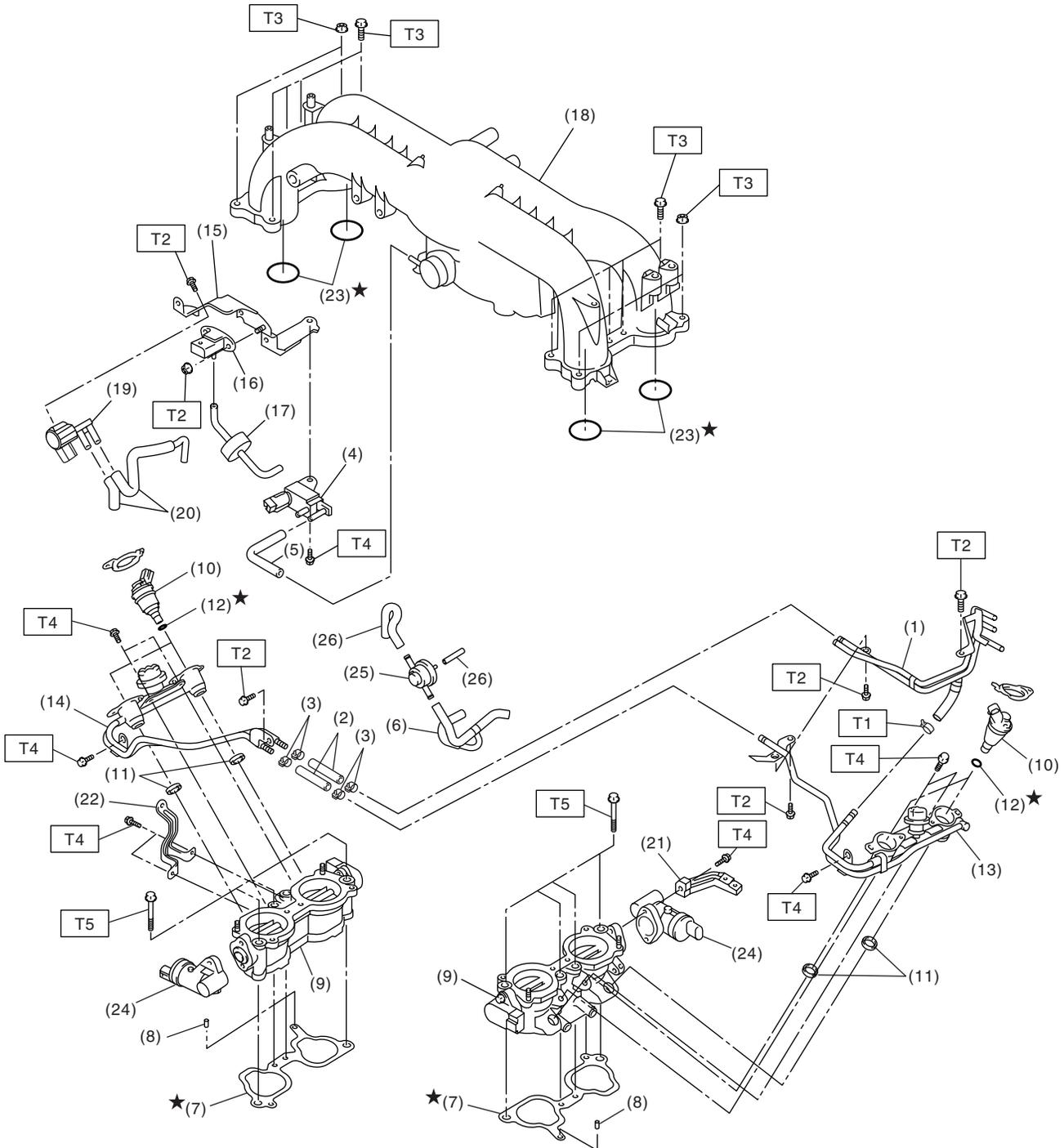
1. General Description

A: SPECIFICATION

Fuel tank	Capacity	64 ℓ (16.9 US gal, 14.1 Imp gal)
	Location	Under rear seat
Fuel pump	Type	Impeller
	Shutoff discharge pressure	550 — 850 kPa (5.61 — 8.67 kg/cm ² , 79.8 — 123.3 psi)
	Discharge	155 ℓ (40.9 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

B: COMPONENT

1. INTAKE MANIFOLD



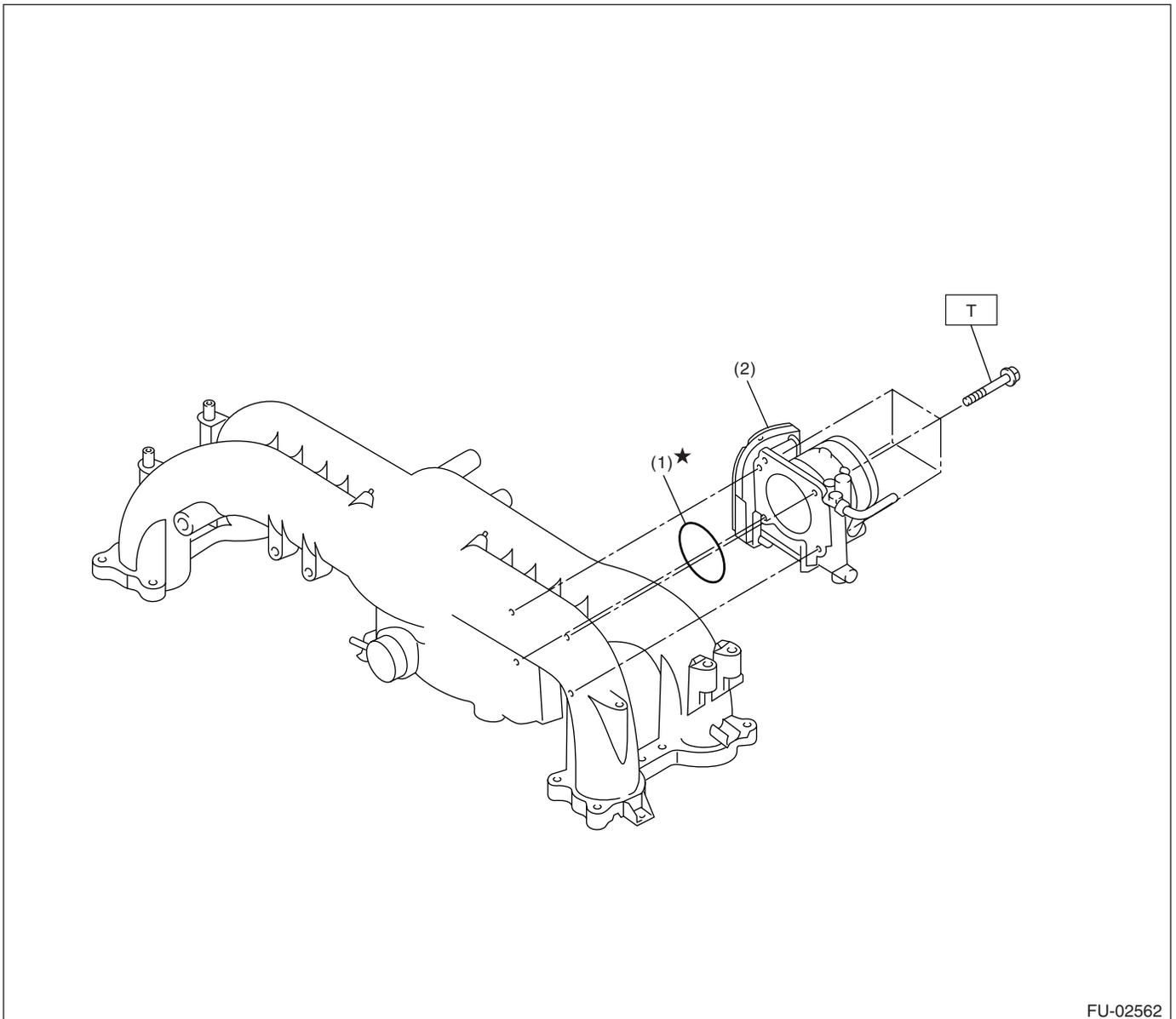
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(1) Fuel pipe ASSY	(13) Fuel injector pipe LH	(24) Tumble generator valve actuator
(2) Fuel hose	(14) Fuel injector pipe RH	(25) Purge valve
(3) Clip	(15) Solenoid valve bracket	(26) Purge hose
(4) Purge control solenoid valve	(16) Manifold absolute pressure sensor	
(5) Vacuum hose	(17) Filter	Tightening torque: N-m (kgf-m, ft-lb)
(6) Vacuum control hose	(18) Intake manifold	T1: 1.5 (0.15, 1.1)
(7) Intake manifold gasket	(19) Wastegate control solenoid valve ASSY	T2: 6.5 (0.66, 4.8)
(8) Guide pin	(20) Vacuum hose	T3: 8.3 (0.85, 6.1)
(9) Intake manifold (lower)	(21) Ground stay	T4: 19 (1.94, 14)
(10) Fuel injector	(22) Coolant filler tank stay	T5: 25 (2.5, 18)
(11) Seal ring	(23) O-ring	
(12) O-ring		

2. AIR INTAKE SYSTEM

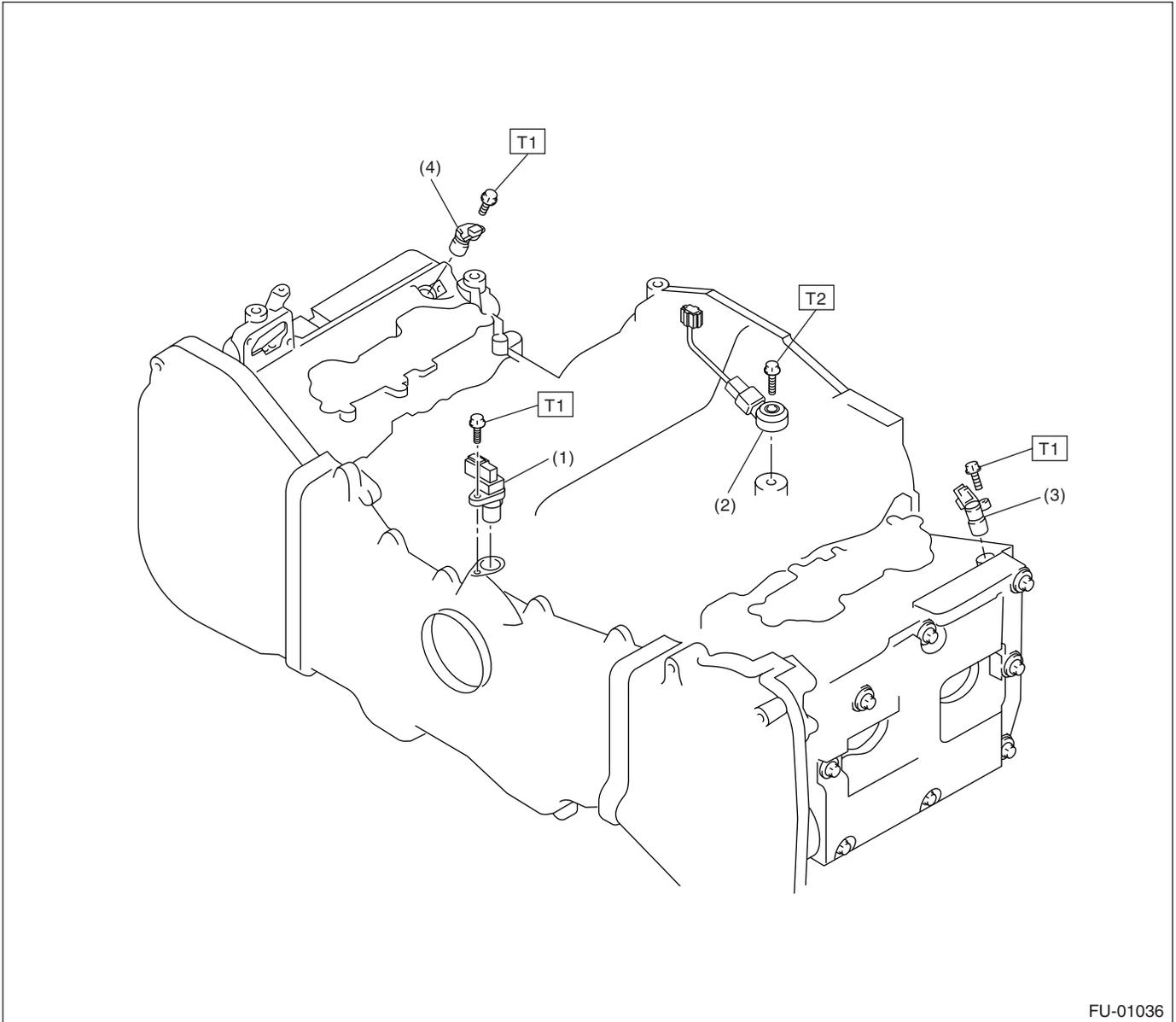


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- (1) O-ring
- (2) Throttle body

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

3. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



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

- (4) Camshaft position sensor RH

Tightening torque: N·m (kgf-m, ft-lb)

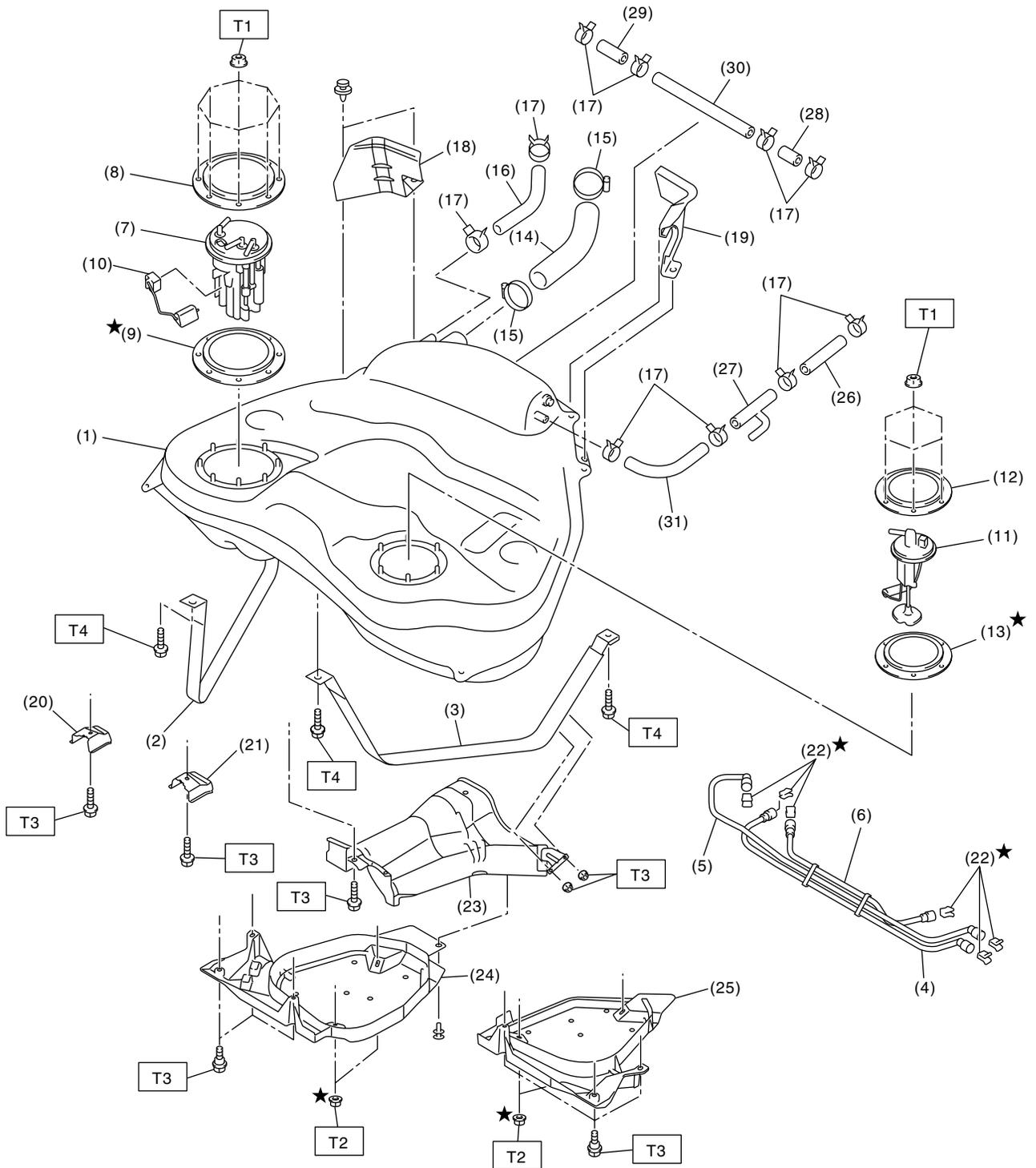
T1: 6.4 (0.65, 4.7)

T2: 24 (2.4, 17.4)

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4. FUEL TANK



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(1) Fuel tank	(14) Fuel filler hose	(27) Connector
(2) Fuel tank band RH	(15) Clamp	(28) Evaporation hose C
(3) Fuel tank band LH	(16) Evaporation hose A	(29) Evaporation hose D
(4) Delivery tube	(17) Clip	(30) Evaporation pipe
(5) Return tube	(18) Fuel tank protector RH (Rear)	(31) Evaporation hose E
(6) Jet pump tube	(19) Fuel tank protector LH (Rear)	
(7) Fuel pump ASSY	(20) Stopper RH	
(8) Fuel pump upper plate	(21) Stopper LH	
(9) Fuel pump gasket	(22) Retainer	
(10) Fuel level sensor	(23) Heat shield cover	
(11) Fuel sub level sensor	(24) Fuel tank protector RH (Front)	
(12) Fuel sub level sensor upper plate	(25) Fuel tank protector LH (Front)	
(13) Fuel sub level sensor gasket	(26) Evaporation hose B	

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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(1) Clamp	(15) Grommet	(29) Fuel filler cap
(2) Fuel return hose A	(16) Fuel pipe ASSY	(30) Fuel tank pressure sensor
(3) Evaporation hose	(17) Canister	(31) Evaporation pipe protector
(4) Fuel delivery hose A	(18) Drain valve	(32) Connector A
(5) Fuel delivery hose B	(19) Drain filter	(33) Canister hose A
(6) Fuel bypass valve	(20) Canister protector	(34) Connector B
(7) Fuel bypass valve bracket	(21) Pressure control solenoid valve	(35) Canister hose B
(8) Fuel return hose B	(22) Evaporation pipe (A)	
(9) Fuel tank sensor control valve	(23) Evaporation pipe (B)	
(10) Fuel pipe ASSY	(24) Clip	
(11) Fuel delivery hose C	(25) Fuel filler pipe	
(12) Fuel return hose C	(26) Shut valve	
(13) Evaporation hose B	(27) Packing	
(14) Clamp	(28) Ring	

Tightening torque: N·m (kgf·m, ft·lb)

T1: 4.4 (0.45, 3.2)

T2: 7.5 (0.76, 5.5)

T3: 8 (0.8, 5.9)

T4: 17.6 (1.8, 13)

T5: 1.25 (0.13, 0.94)

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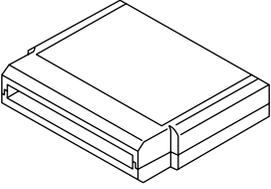
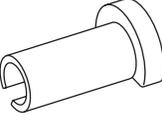
FUEL INJECTION (FUEL SYSTEMS)

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 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
 ST24082AA260	24082AA260	CARTRIDGE	Troubleshooting for electrical system.
 ST22771AA030	22771AA030	SUBARU SELECT MONITOR KIT	Troubleshooting for electrical system.
 ST42099AE000	42099AE000	CONNECTOR REMOVER	Used for disconnecting quick connector.