

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 rate	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

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(1) Pressure regulator	(13) Fuel injector pipe LH	(24) Solenoid valve bracket
(2) Fuel hose	(14) Fuel injector pipe RH	(25) Vacuum hose B
(3) Clamp	(15) Solenoid valve bracket	(26) Vacuum hose A
(4) Purge control solenoid valve 1	(16) Manifold absolute pressure sensor	(27) Air control hose
(5) Vacuum hose D	(17) Filter	
(6) Vacuum hose C	(18) Intake manifold	
(7) Intake manifold gasket	(19) Wastegate control solenoid valve ASSY	
(8) Guide pin	(20) Vacuum hose	
(9) Tumble generator valve ASSY	(21) Fuel pipe protector LH	
(10) Fuel injector	(22) Fuel pipe protector RH	
(11) Seal ring	(23) O-ring	
(12) Purge control solenoid valve 2		

Tightening torque:N·m (kgf-m, ft-lb)

T1: 1.25 (0.1, 0.9)

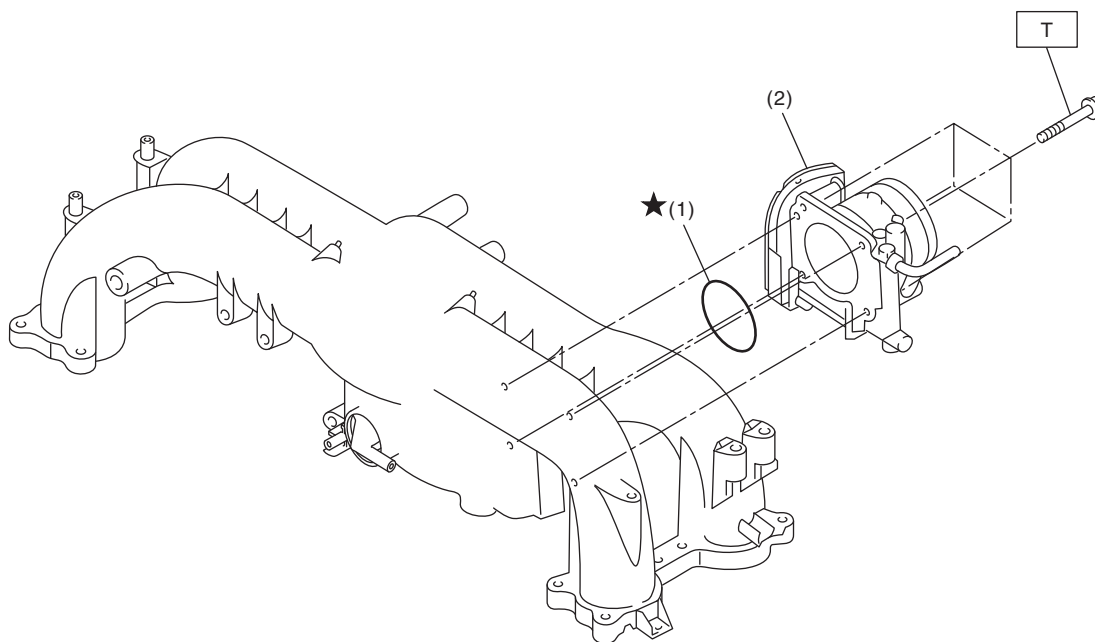
T2: 6.4 (0.7, 4.7)

T3: 8.3 (0.8, 6.1)

T4: 19 (1.9, 14.0)

T5: 25 (2.5, 18.4)

2. AIR INTAKE SYSTEM



FU-03455

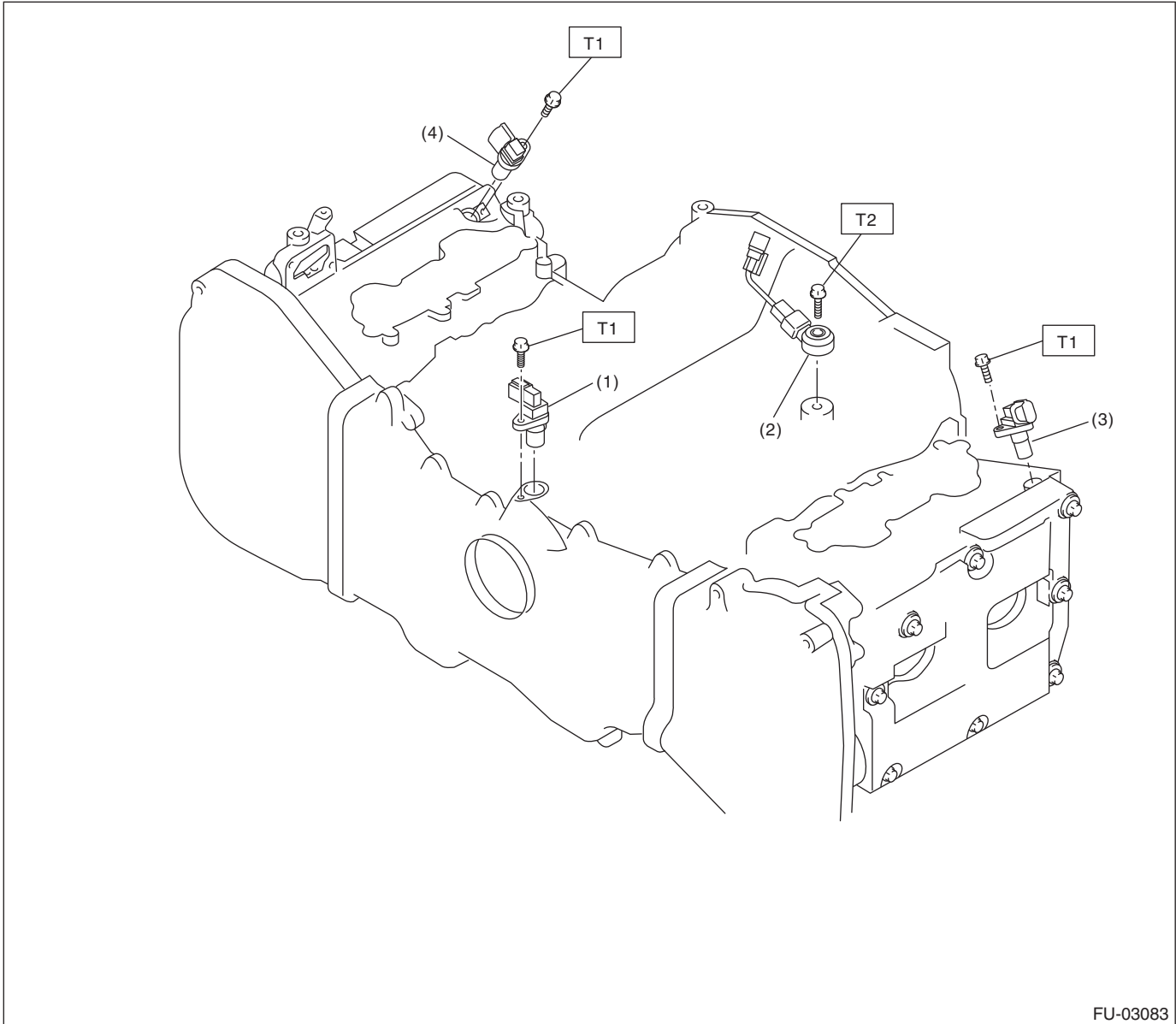
(1) O-ring

(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



FU-03083

(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)

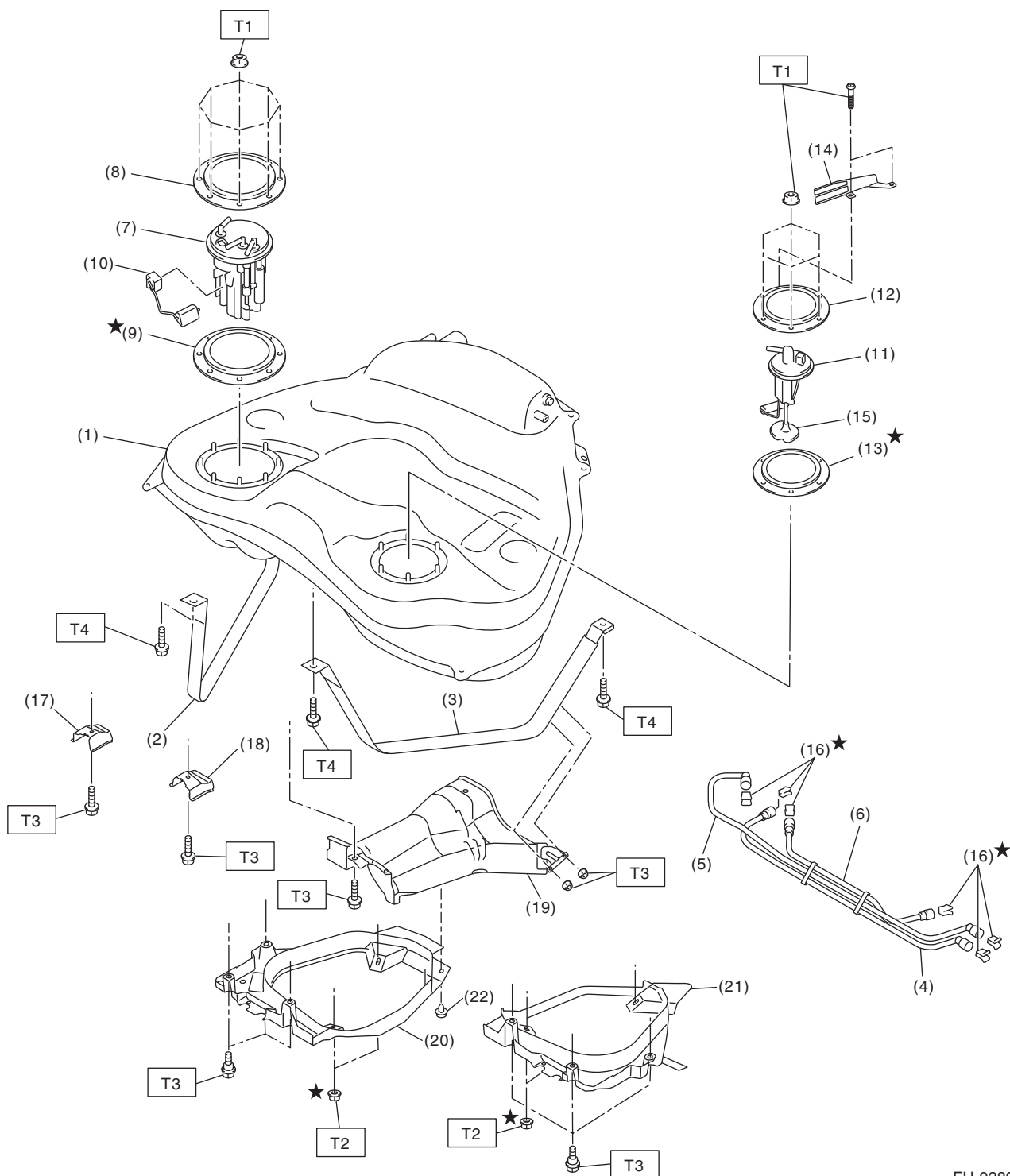
T1: 6.4 (0.7, 4.7)

T2: 24 (2.4, 17.7)

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4. FUEL TANK



FU-03895

General Description

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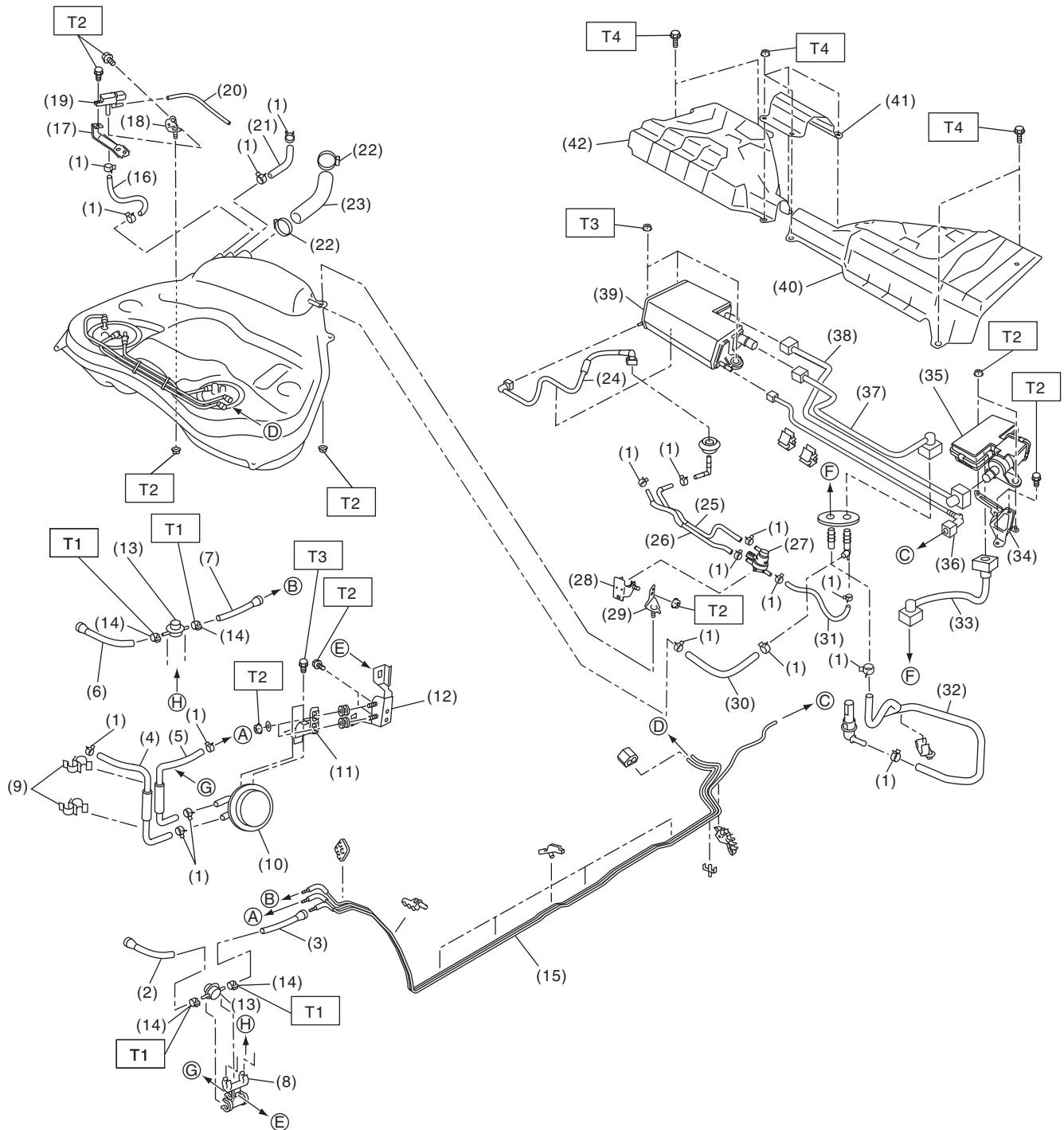
(1) Fuel tank	(11) Fuel sub level sensor	(20) Fuel tank protector RH
(2) Fuel tank band RH	(12) Fuel sub level sensor upper plate	(21) Fuel tank protector LH
(3) Fuel tank band LH	(13) Fuel sub level sensor gasket	(22) Clip
(4) Delivery tube	(14) Fuel sub level sensor protector	
(5) Return tube	(15) Fuel sub level sensor filter	
(6) Jet pump tube	(16) Retainer	
(7) Fuel pump ASSY	(17) Stopper RH	
(8) Fuel pump upper plate	(18) Stopper LH	
(9) Fuel pump gasket	(19) Heat shield cover	
(10) Fuel level sensor		

Tightening torque:N·m (kgf-m, ft-lb)***T1: 4.4 (0.45, 3.2)******T2: 9 (0.9, 6.6)******T3: 18 (1.8, 13.3)******T4: 33 (3.4, 24.3)***

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5. FUEL LINE



FU-03896

General Description

FUEL INJECTION (FUEL SYSTEMS)

(1) Clip	(18) Fuel tank pressure sensor bracket B	(33) Drain tube A
(2) Fuel return hose A	(19) Fuel tank pressure sensor	(34) Drain valve bracket
(3) Fuel return hose B	(20) Vacuum hose	(35) Drain valve
(4) Evaporation hose A	(21) Evaporation hose C	(36) Purge tube
(5) Evaporation hose B	(22) Clamp	(37) Vent tube
(6) Fuel delivery hose A	(23) Fuel filler hose	(38) Drain tube B
(7) Fuel delivery hose B	(24) PCV drain tube	(39) Canister
(8) Fuel damper holder	(25) Evaporation hose D	(40) Canister cover LH
(9) Clamp	(26) Evaporation hose E	(41) Center canister cover
(10) Purge damper	(27) Pressure control solenoid valve	(42) Canister cover RH
(11) Purge damper bracket	(28) Pressure control solenoid valve bracket A	
(12) Damper bracket	(29) Pressure control solenoid valve bracket B	
(13) Fuel damper	(30) Evaporation hose F	
(14) Clamp	(31) Evaporation hose G	
(15) Fuel pipe ASSY	(32) Canister drain hose	
(16) Pressure hose		
(17) Fuel tank pressure sensor bracket A		

Tightening torque:N·m (kgf-m, ft-lb)

T1: 1.25 (0.1, 0.9)

T2: 7.5 (0.8, 5.5)

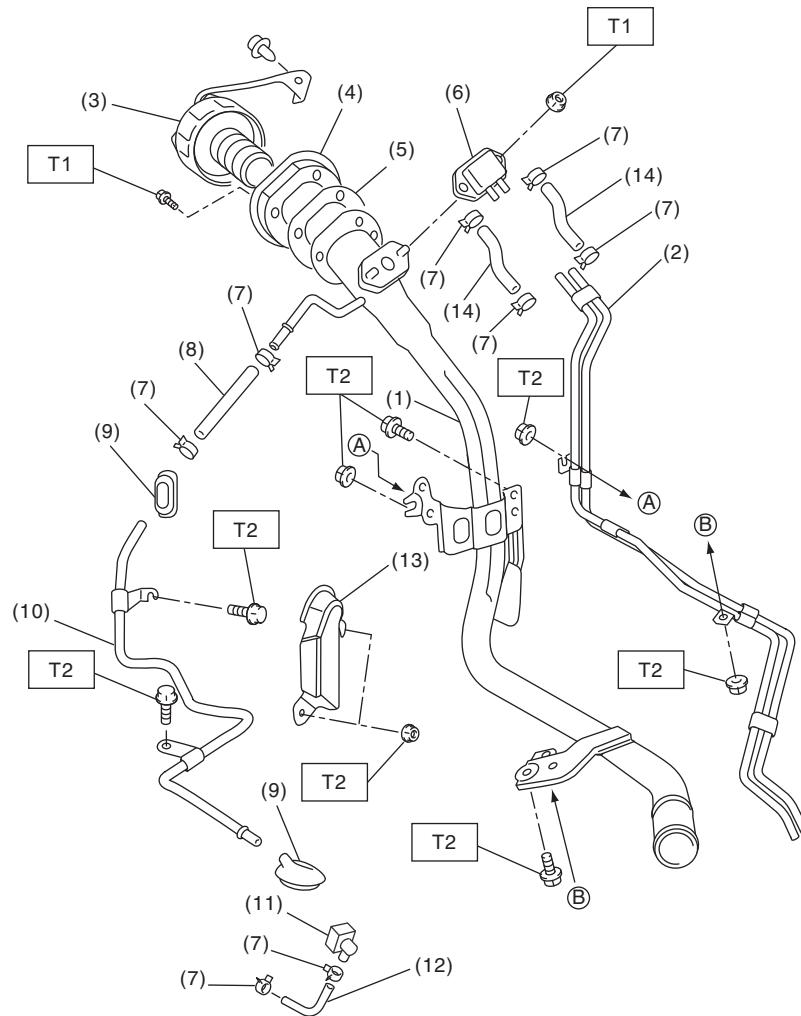
T3: 8 (0.8, 5.9)

T4: 18 (1.8, 13.3)

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6. FUEL PIPE



FU-03946

- (1) Fuel filler pipe ASSY
- (2) Evaporation pipe A
- (3) Fuel filler cap
- (4) Filler ring
- (5) Filler pipe gasket
- (6) Shut valve

- (7) Clip
- (8) Evaporation hose A
- (9) Grommet
- (10) Evaporation pipe B
- (11) Quick connector
- (12) Evaporation hose B

- (13) Evaporation pipe protector
- (14) Evaporation hose C

Tightening torque: N·m (kgf-m, ft-lb)

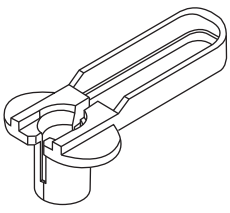
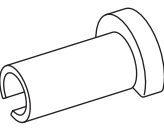
T1: 4.4 (0.4, 3.2)

T2: 7.5 (0.8, 5.5)

C: CAUTION

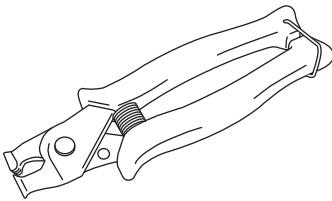
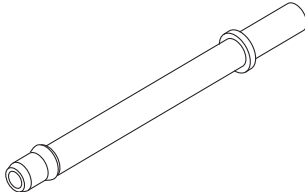
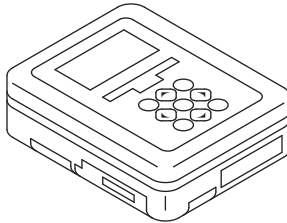
- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- 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 OPEN FLAMES” signs near the working area.
- Prepare a container and cloth to prevent scattering of fuels when performing work where fuels can be spilled. If the fuel spills, wipe it off immediately to prevent from penetrating into floor or flowing out for environmental protection.
- Follow all government and local regulations concerning disposal of refuse when disposing fuel.

D: PREPARATION TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST18371AA000	18371AA000	CONNECTOR REMOVER	Used for disconnecting the quick connector on the fuel return hose of the engine compartment.
 ST42099AE000	42099AE000	QUICK CONNECTOR RELEASE	Used for disconnecting quick connector on the fuel delivery hose side of the engine compartment.

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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST18353AA000	18353AA000	CLAMP PLIERS	- Used for removing and installing the PCV hose. - This is a general tool made by the French company CAILLAU. (code) 54.0.000.205 To make this easier to obtain in the same way as genuine Subaru parts, it has been provided with a tool number as an ST.
 ST18471AA000	18471AA000 (Newly adopted tool)	FUEL PIPE ADAPTER	Used for draining fuel.
 ST1B022XU0	1B022XU0 (Newly adopted tool)	SUBARU SELECT MONITOR III KIT	Used for draining fuel.