

General Description

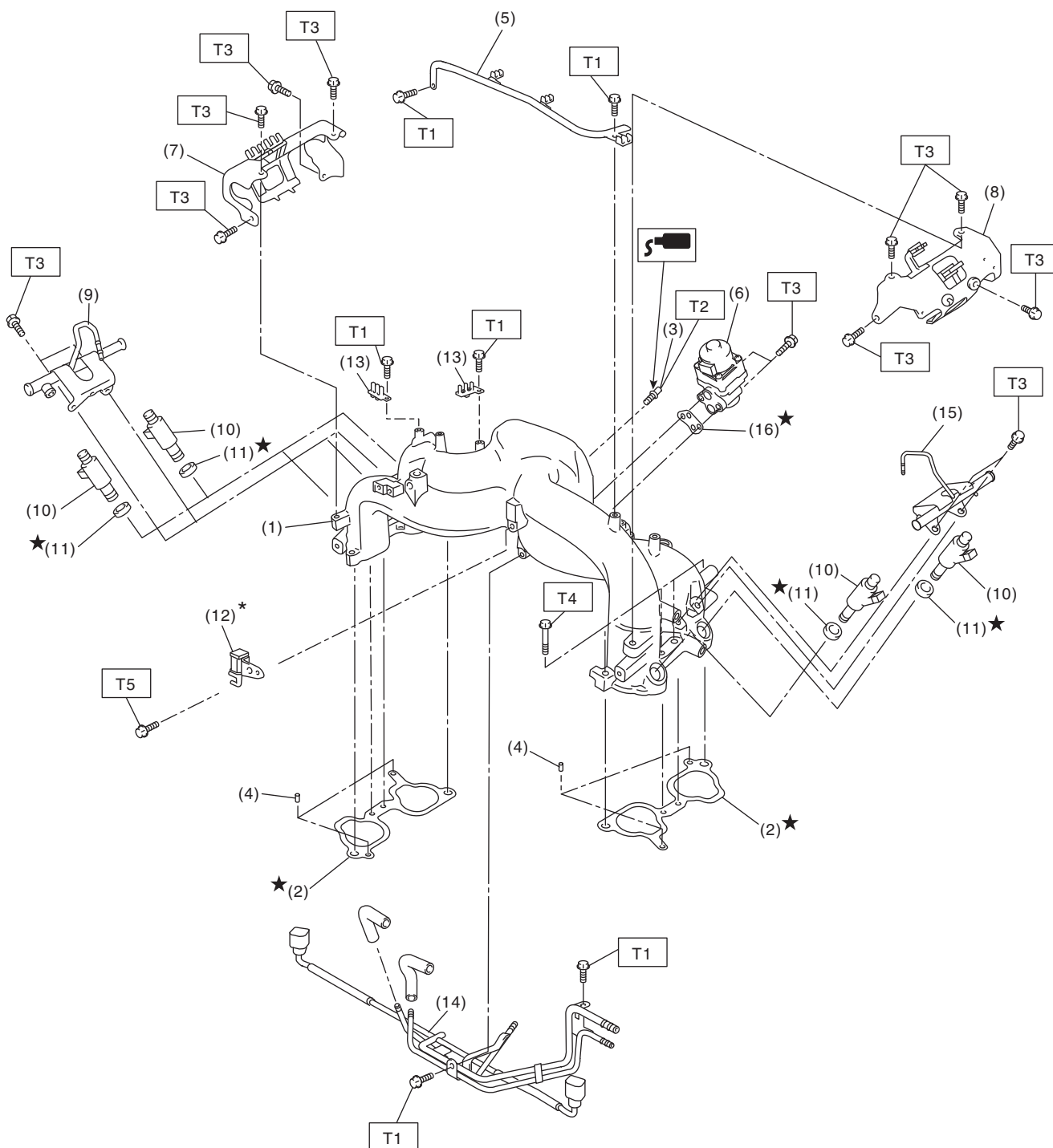
FUEL INJECTION (FUEL SYSTEMS)

1. General Description

A: SPECIFICATION

Fuel tank	Capacity	64 ℓ (16.9 US gal, 14.1 Imp gal)
	Install locations	Under rear seat
Fuel pump	Type	Impeller
	Shutoff discharge pressure	550 — 850 kPa (5.6 — 8.7 kg/cm ² , 79.7 — 123.2 psi)
	Discharge rate	125 ℓ (33 US gal, 27.5 Imp gal)/h or more. [12 V at 300 kPa (3.06 kg/cm ² , 43.5 psi)]
Fuel filter		Intank type

1. INTAKE MANIFOLD



FU-03974

General Description

FUEL INJECTION (FUEL SYSTEMS)

- | | |
|----------------------------|-----------------------------------|
| (1) Intake manifold | (9) Fuel injector pipe RH |
| (2) Gasket | (10) Fuel injector |
| (3) Nipple | (11) O-ring |
| (4) Guide pin | (12) Purge control solenoid valve |
| (5) Plug cord stay | (13) Plug cord holder |
| (6) EGR valve | (14) Fuel pipe ASSY |
| (7) Fuel pipe protector RH | (15) Fuel injector pipe LH |
| (8) Fuel pipe protector LH | (16) Gasket |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 6.4 (0.7, 4.7)

T2: 17 (1.7, 12.5)

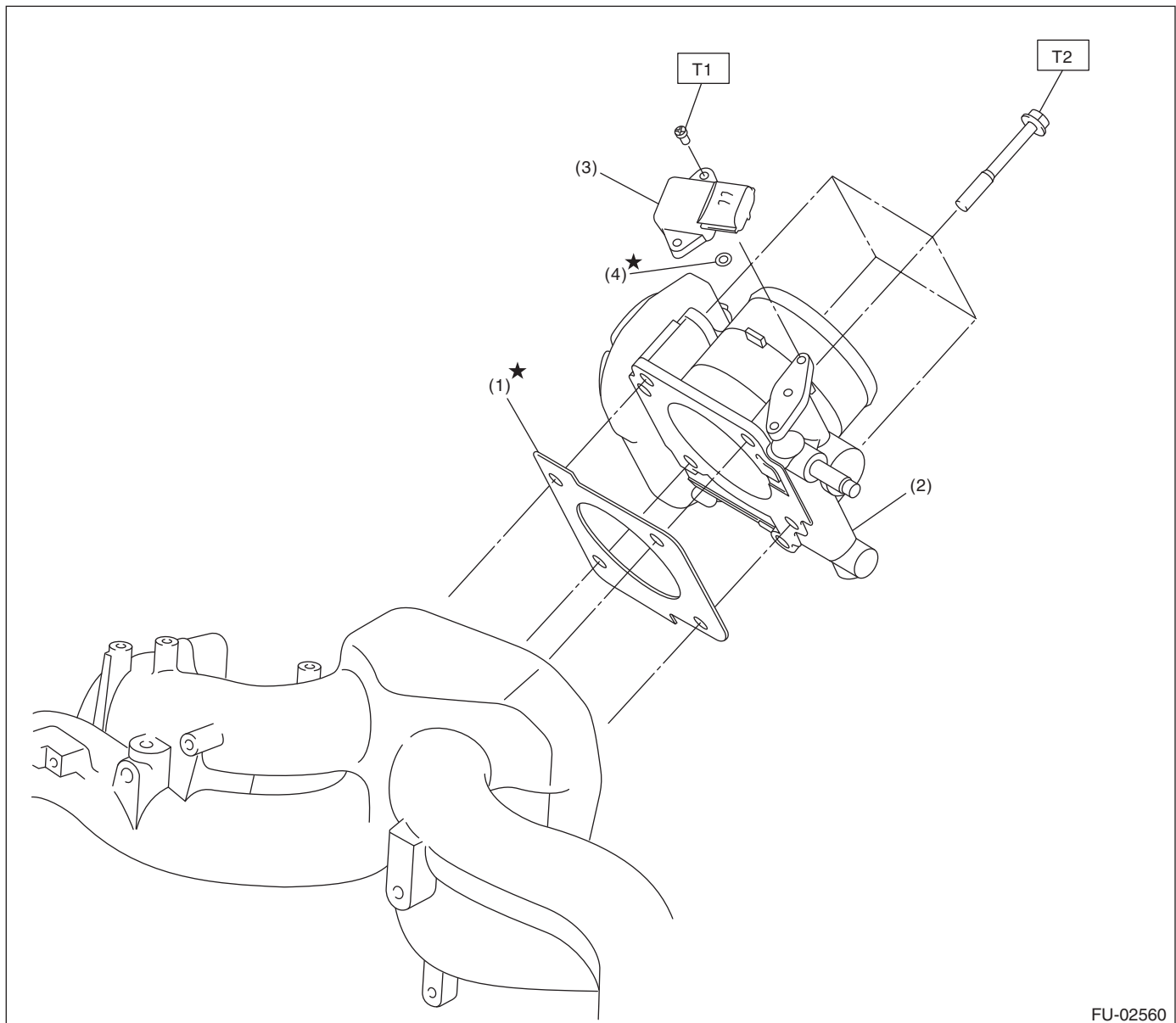
T3: 19 (1.9, 14.0)

T4: 25 (2.5, 18.4)

T5: <Ref. to EC(H4SO)-9, INSTALLATION, Purge Control Solenoid Valve.>

*: Refer to "Purge Control Solenoid Valve, INSTALLATION" for the mounting hole of the purge control solenoid valve. <Ref. to EC(H4SO)-9, INSTALLATION, Purge Control Solenoid Valve.>

2. AIR INTAKE SYSTEM



FU-02560

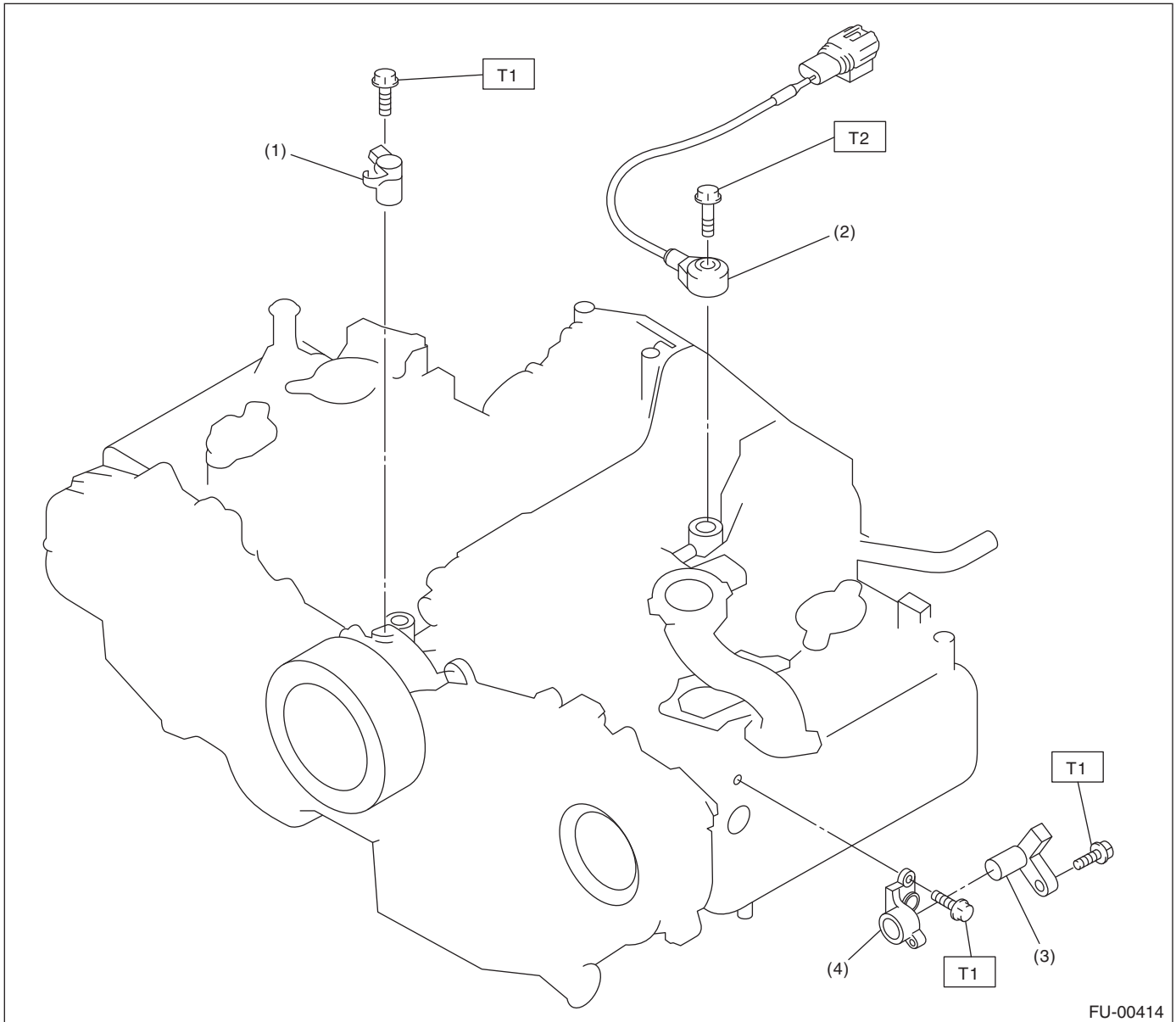
- | | |
|-------------------|---------------------------------------|
| (1) Gasket | (3) Manifold absolute pressure sensor |
| (2) Throttle body | (4) O-ring |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 2 (0.2, 1.5)

T2: 8 (0.8, 5.9)

3. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



FU-00414

(1) Crankshaft position sensor

(2) Knock sensor

(3) Camshaft position sensor

(4) Camshaft position sensor support

Tightening torque: N·m (kgf-m, ft-lb)

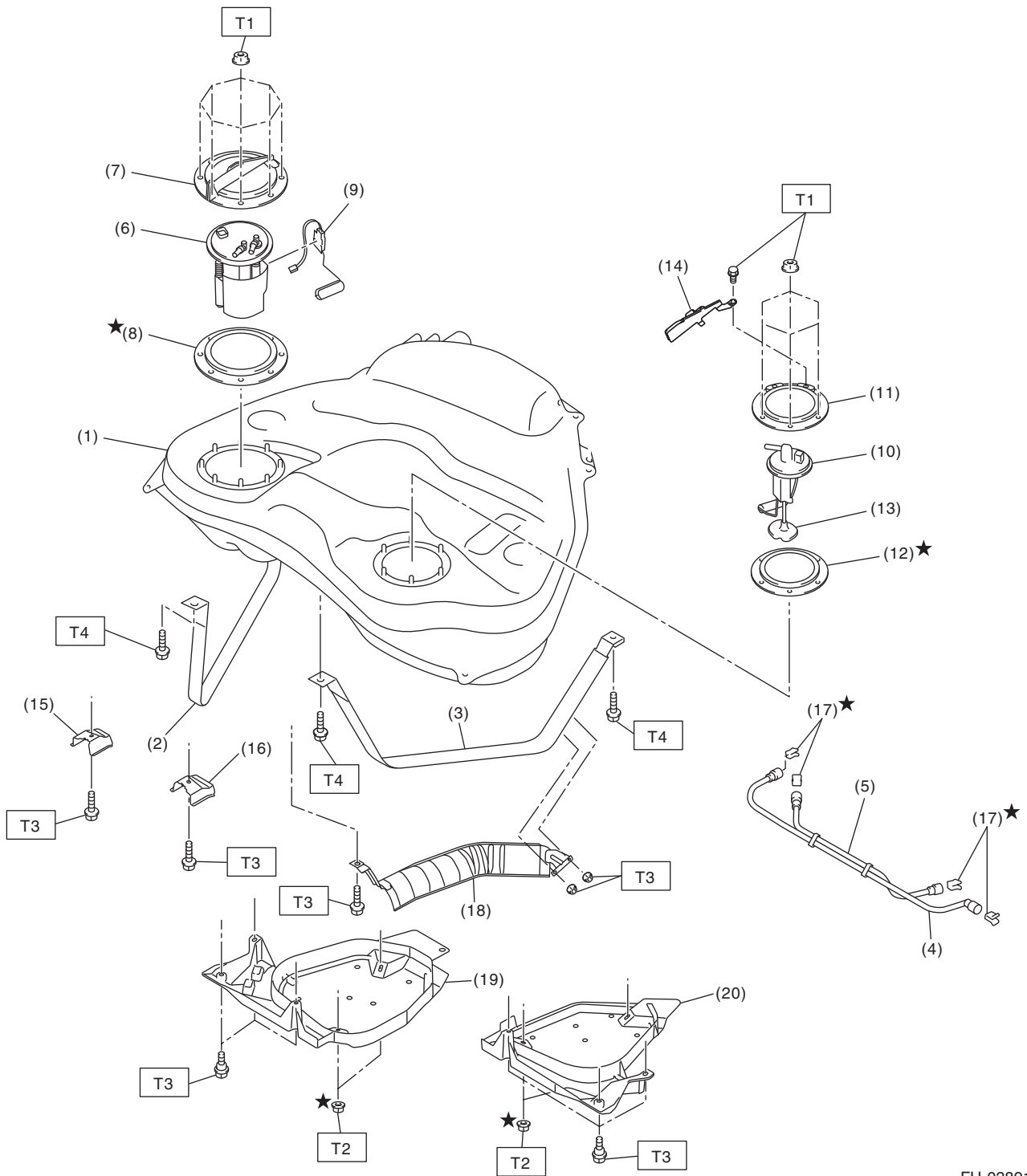
T1: 6.4 (0.7, 4.7)

T2: 24 (2.4, 17.7)

General Description

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4. FUEL TANK



FU-03891

General Description

FUEL INJECTION (FUEL SYSTEMS)

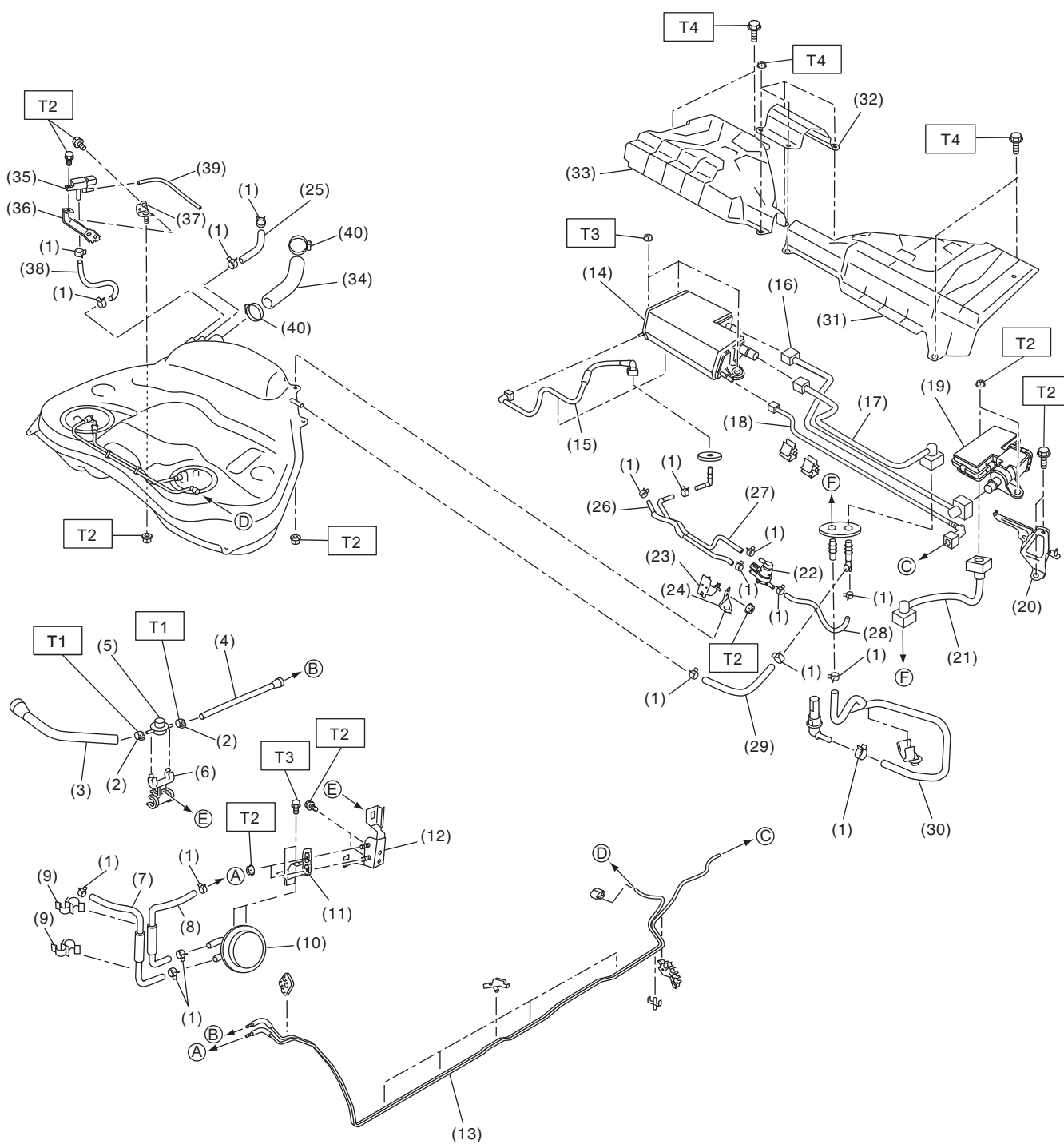
(1) Fuel tank	(10) Fuel sub level sensor	(19) Fuel tank protector RH
(2) Fuel tank band RH	(11) Fuel sub level sensor upper plate	(20) Fuel tank protector LH
(3) Fuel tank band LH	(12) Fuel sub level sensor gasket	
(4) Delivery tube	(13) Fuel sub level sensor filter	
(5) Jet pump tube	(14) Fuel sub level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

Tightening torque:N·m (kgf-m, ft-lb)**T1: 4.4 (0.4, 3.2)****T2: 9 (0.9, 6.6)****T3: 18 (1.8, 13.3)****T4: 33 (3.4, 24.3)**

General Description

FUEL INJECTION (FUEL SYSTEMS)

5. FUEL LINE



FU-03433

General Description

FUEL INJECTION (FUEL SYSTEMS)

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

Tightening torque:N·m (kgf-m, ft-lb)

T1: 1.25 (0.1, 0.9)

T2: 7.5 (0.8, 5.5)

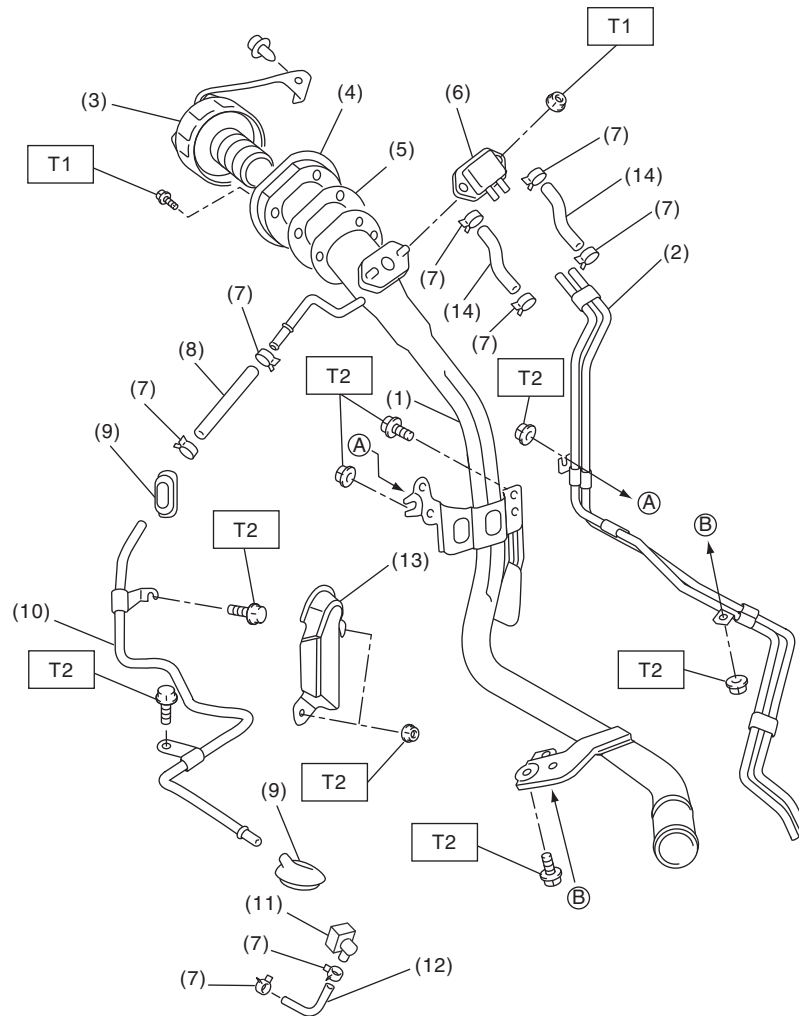
T3: 8 (0.8, 5.9)

T4: 18 (1.8, 13.3)

General Description

FUEL INJECTION (FUEL SYSTEMS)

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

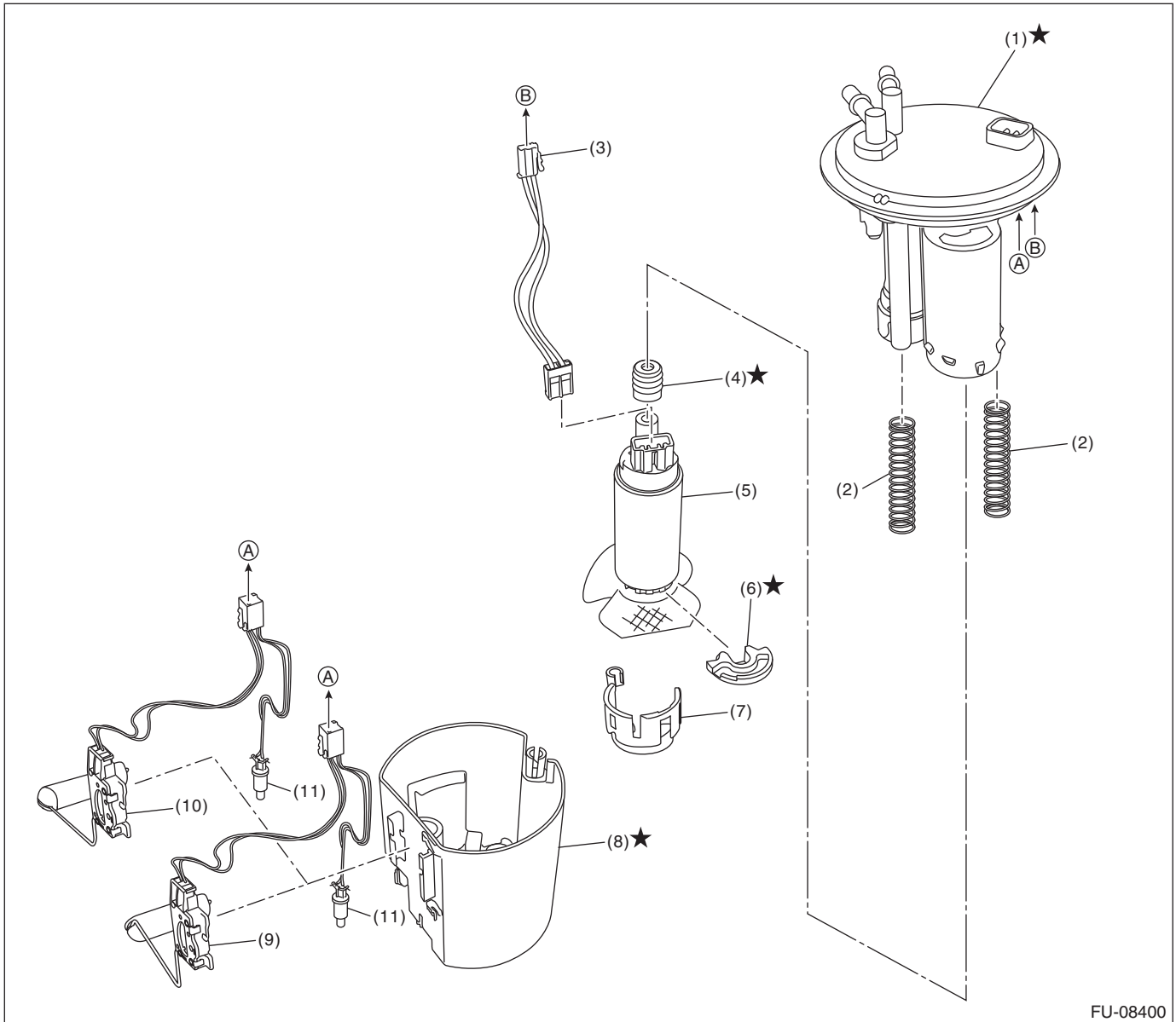
- (13) Evaporation pipe protector
- (14) Evaporation hose C

Tightening torque: N·m (kgf-m, ft-lb)

T1: 4.4 (0.4, 3.2)

T2: 7.5 (0.8, 5.5)

7. FUEL PUMP



FU-08400

- | | | |
|--------------------------|----------------------------|---|
| (1) Fuel filter assembly | (5) Fuel pump | (9) Fuel level sensor (model with fuel level sensor bent in 3 locations) |
| (2) Pump module spring | (6) Support rubber cushion | (10) Fuel level sensor (model with fuel level sensor bent in 2 locations) |
| (3) Fuel pump harness | (7) Fuel pump holder | (11) Fuel temperature sensor |
| (4) Gasket spacer | (8) Fuel chamber ASSY | |

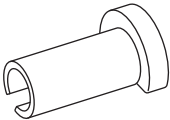
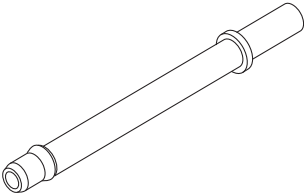
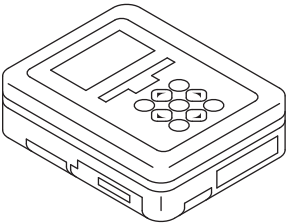
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C: CAUTION

- 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
 ST42099AE000	42099AE000	QUICK CONNECTOR RELEASE	Used for removing the quick connector.
 ST18471AA000	18471AA000 (Newly adopted tool)	FUEL PIPE ADAPTER	Used for draining fuel.
 ST1B022XU0	1B022XU0 (Newly adopted tool)	SUBARU SELECT MONITOR III KIT	Used for extracting fuel.