1. General Description

A: SPECIFICATION

Fuel tank	Capacity	70 L (18.5 US gal, 15.4 Imp gal)
	Location	Under rear seat
Fuel pump	Type	Impeller
	Shutoff discharge pressure	677 kPa (6.9 kgf/cm^2, 98.2 psi) or less
	Discharge rate	105 L (27.7 US gal, 23.1 Imp gal)/h or more [12 V at 300 kPa (3.06 kgf/cm^2, 43.5 psi)]
Fuel filter		In-tank type

B: COMPONENT

1. INTAKE MANIFOLD 1
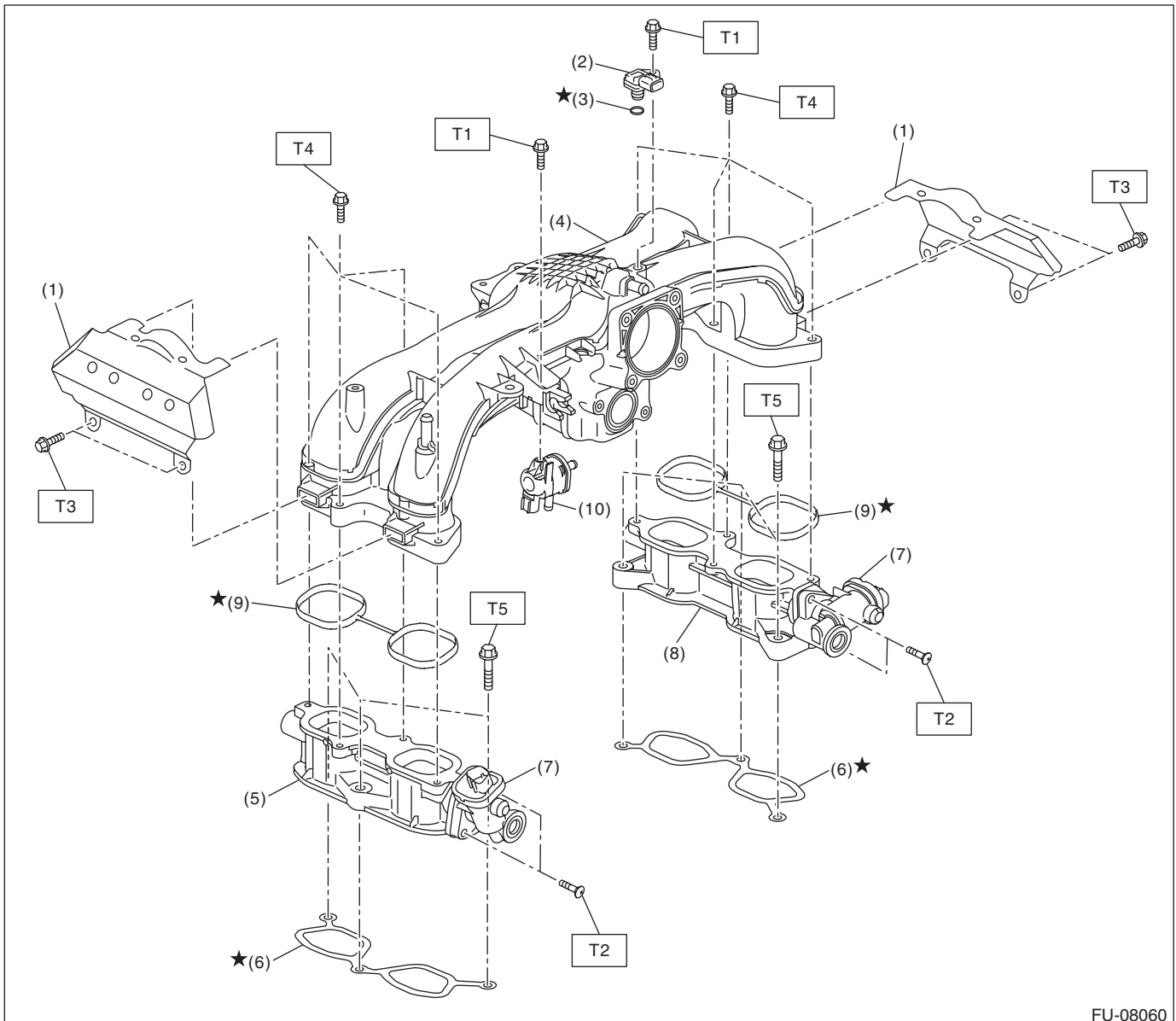
FU-08060

(1)	Intake manifold protector	(7)	Tumble generator valve actuator	
(2)	Manifold absolute pressure sensor	(8)	Tumble generator valve RH	
(3)	O-ring	(9)	Gasket	
(4)	Intake manifold	(10)	Purge control solenoid valve	
(5)	Tumble generator valve LH			
(6)	Gasket			

Tightening torque: N·m (kgf-m, ft-lb)

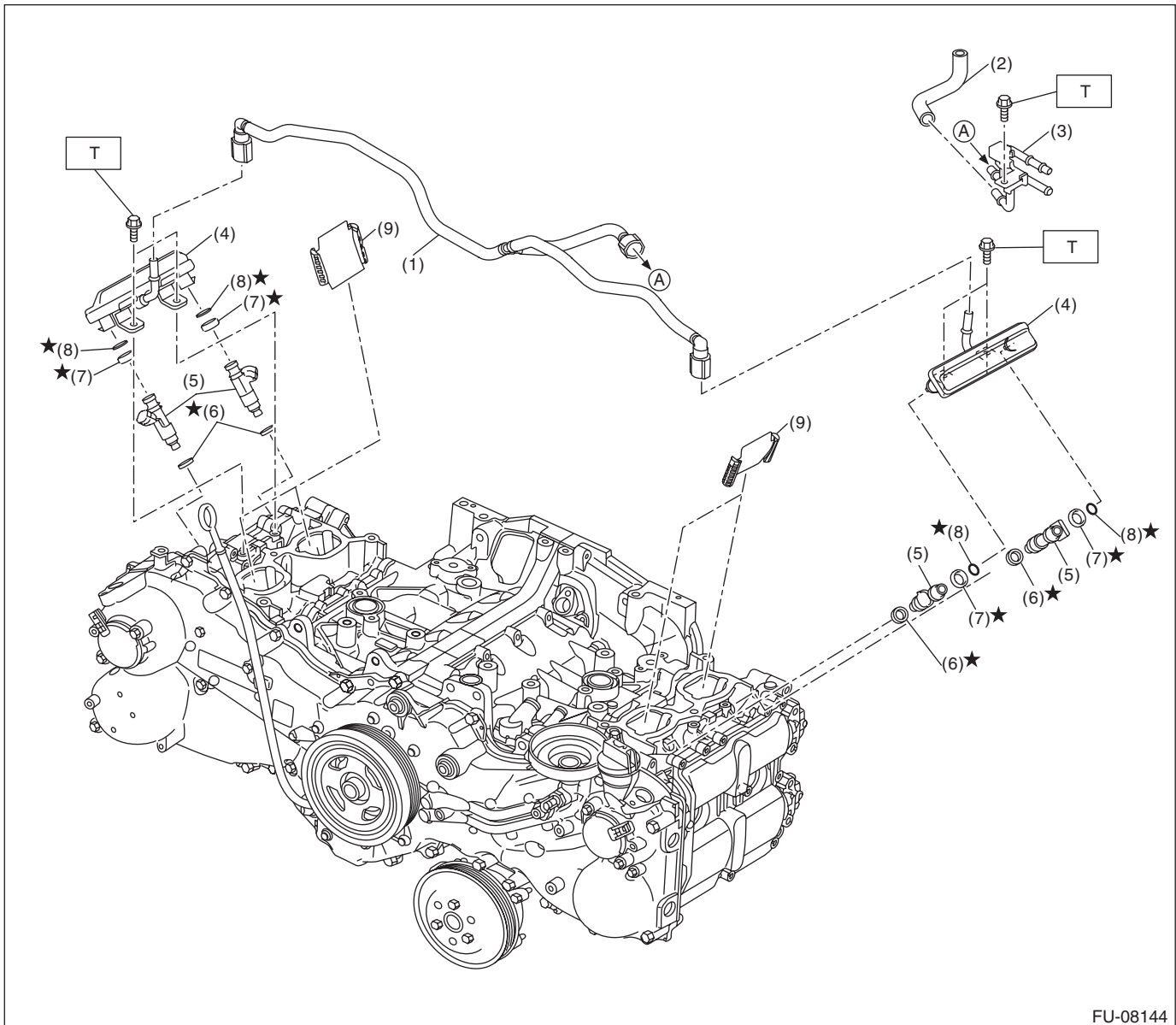*T1: 3.4 (0.3, 2.5)*
T2: 6 (0.6, 4.4)
T3: 6.4 (0.7, 4.7)
T4: 8.3 (0.8, 6.1)
T5: 25 (2.5, 18.4)

2. INTAKE MANIFOLD 2

FU-08144

(1) Fuel delivery pipe
(2) Vacuum hose
(3) Fuel pipe A
(4) Fuel pipe B
(5) Fuel injector

(6) Seal ring
(7) Rubber
(8) O-ring
(9) Cylinder head plate

Tightening torque: N·m (kgf-m, ft-lb)
T: 6.4 (0.7, 4.7)

General Description

3. THROTTLE BODY

FU-06448
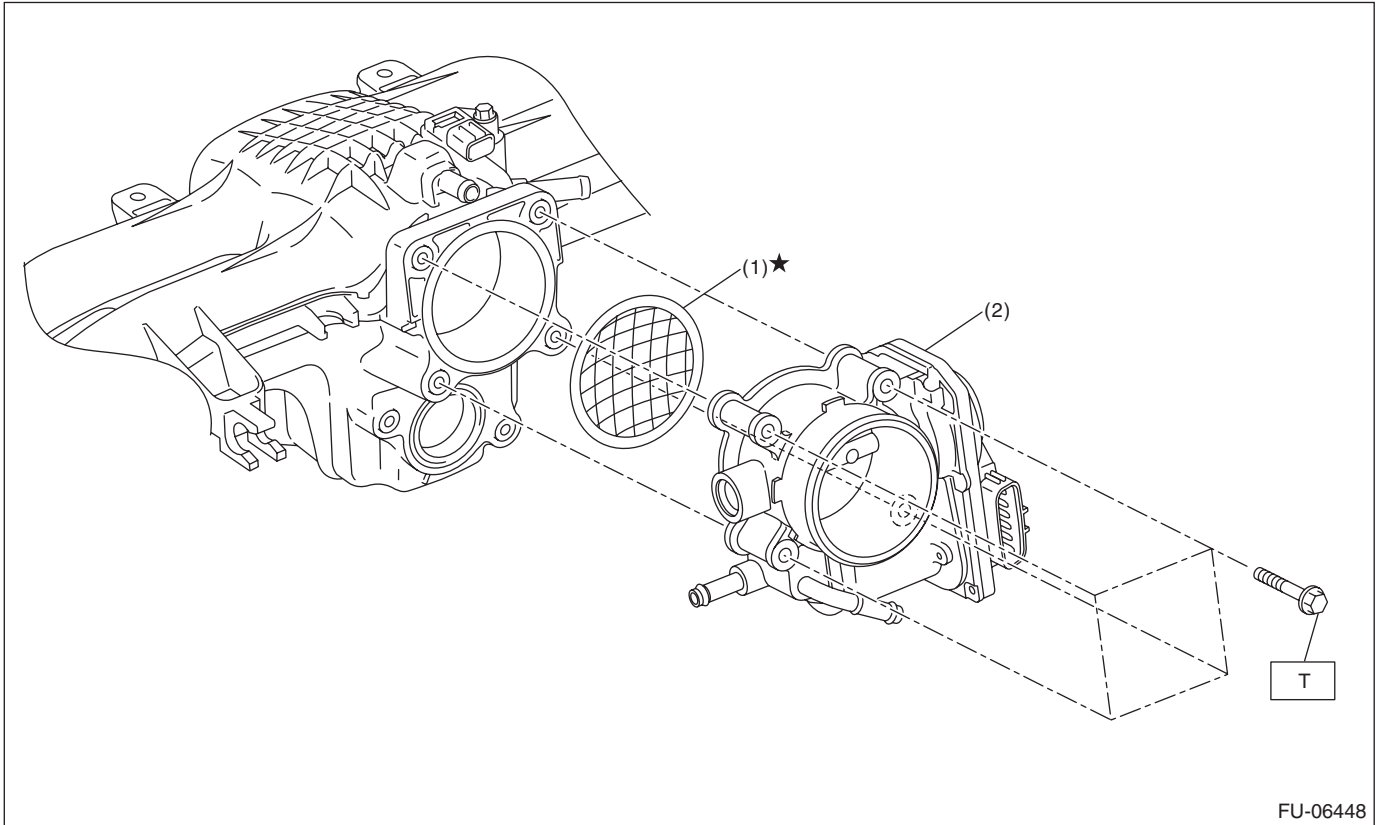
(1)	Gasket	(2)	Throttle body		

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

4. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS

FU-08145
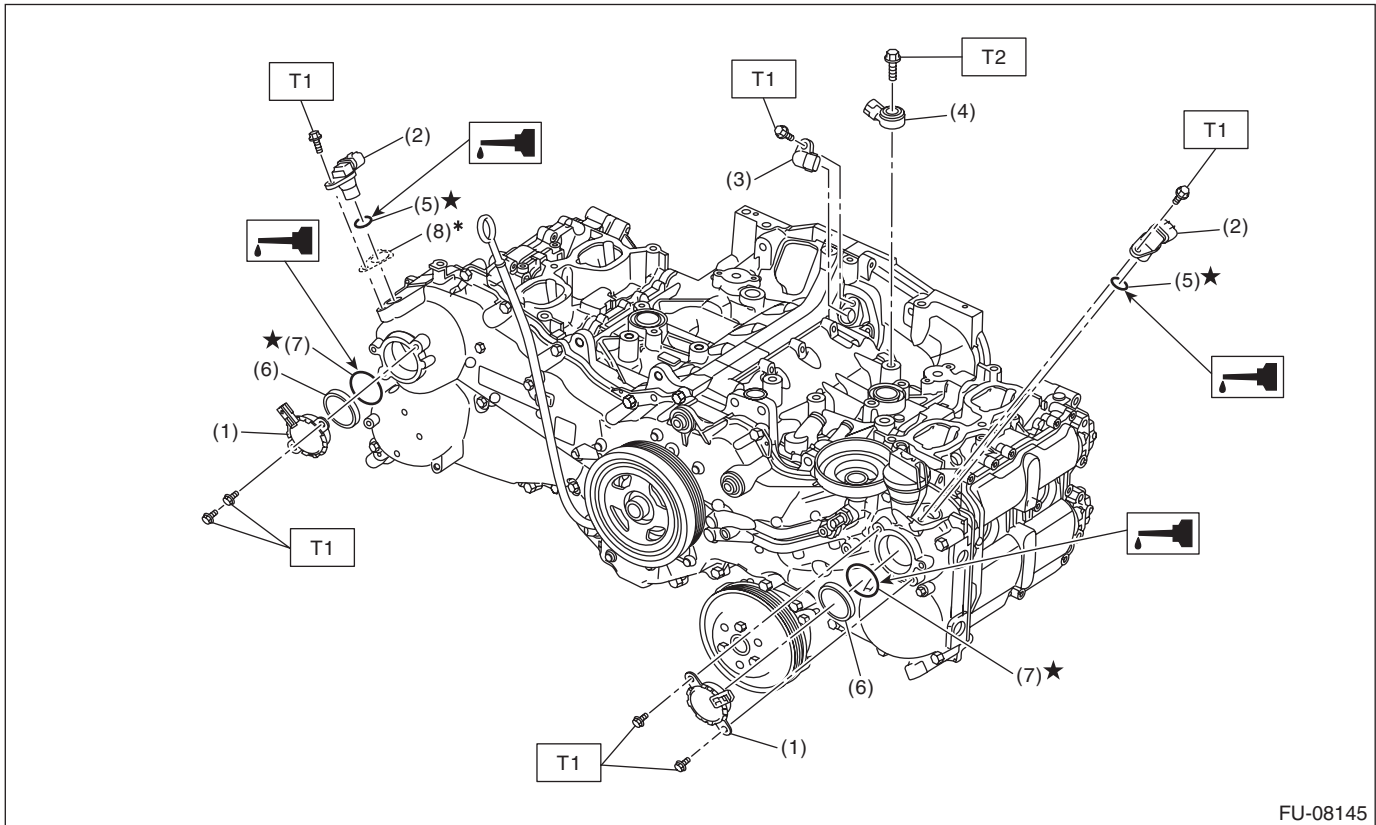
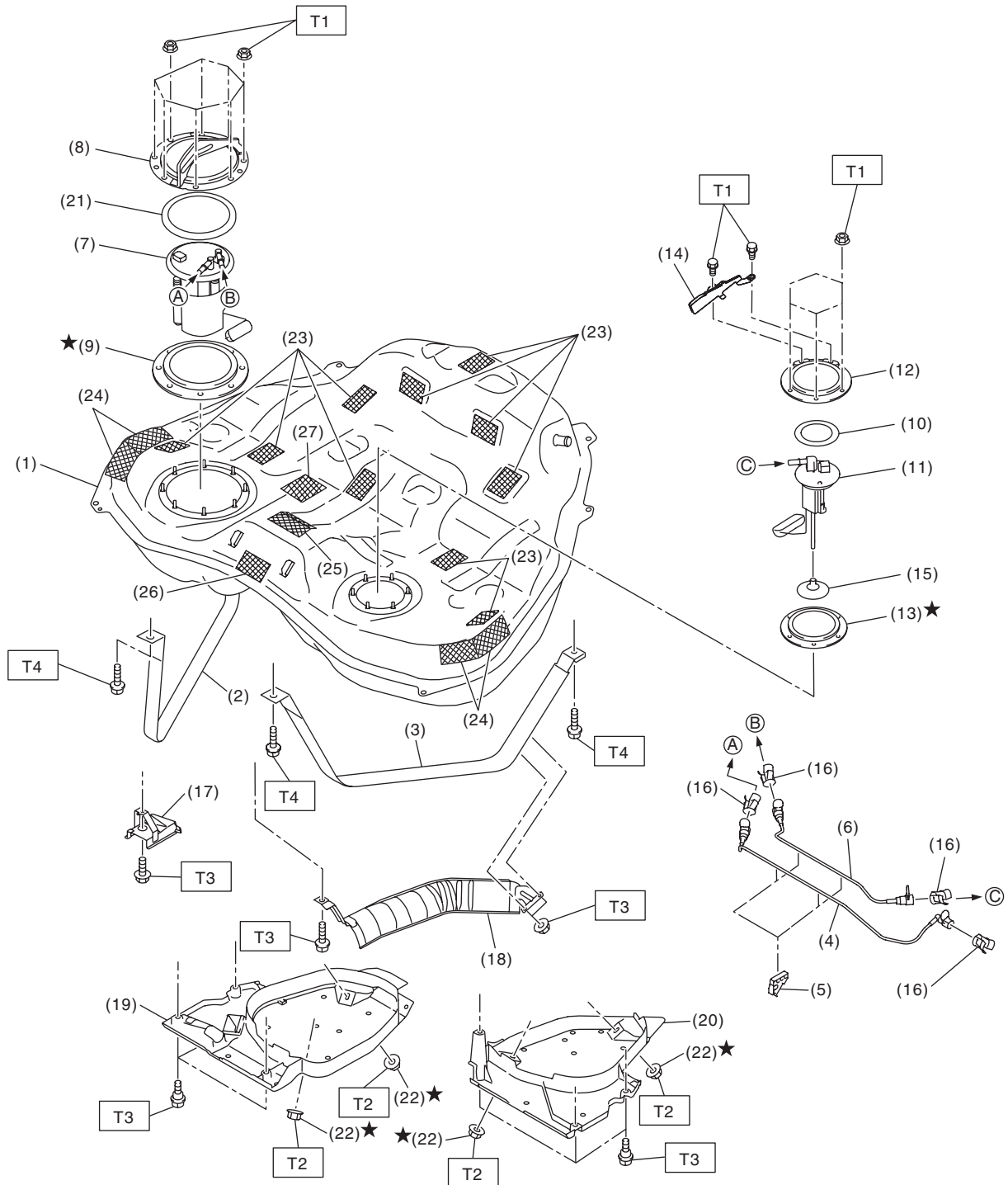|				
(1)	Oil control solenoid	(5)	O-ring	
(2)	Camshaft position sensor	(6)	Back-up ring	
(3)	Crankshaft position sensor	(7)	O-ring	
(4)	Knock sensor	(8)	Spacer	

* Zero or one spacer for gap adjustment.

Tightening torque: N·m (kgf-m, ft-lb)

T1: 6.4 (0.7, 4.7)

T2: 24 (2.4, 17.7)

5. FUEL TANK

FU-08131

General Description

(1)	Fuel tank	(12)	Fuel sub level sensor upper plate	(23)	Cushion
(2)	Fuel tank band RH	(13)	Fuel sub level sensor gasket	(24)	Cushion
(3)	Fuel tank band LH	(14)	Fuel sub level sensor protector	(25)	Cushion
(4)	Fuel delivery tube	(15)	Fuel sub level sensor filter	(26)	Cushion
(5)	Tube clamp	(16)	Retainer	(27)	Cushion
(6)	Fuel sub delivery tube	(17)	Stopper		
(7)	Fuel pump ASSY	(18)	Heat shield cover		*Tightening torque: N·m (kgf-m, ft-lb)*
(8)	Fuel pump upper plate	(19)	Fuel tank protector RH	*T1:*	*4.4 (0.4, 3.2)*
(9)	Fuel pump gasket	(20)	Fuel tank protector LH	*T2:*	*9 (0.9, 6.6)*
(10)	Fuel sub level sensor upper plate cushion	(21)	Fuel pump upper plate cushion	*T3:*	*18 (1.8, 13.3)*
(11)	Fuel sub level sensor	(22)	Self-locking nut	*T4:*	*33 (3.4, 24.3)*

6. FUEL LINE

FU-08113

General Description

(1)   Clip
(2)   Fuel delivery hose
(3)   Evaporation hose
(4)   Connect check cover
(5)   Hose clamp
(6)   Hose clamp bracket
(7)   Fuel pipe ASSY
(8)   Purge hose
(9)   Purge pipe
(10) Air vent hose A
(11) Circulate tube
(12) Air vent tube
(13) Circulate hose
(14) Canister tube ASSY
(15) Connector ASSY

(16) Canister
(17) Drain filter
(18) Canister protector
(19) Drain tube ASSY
(20) Clamp
(21) Fuel filler hose
(22) Clamp
(23) Clip
(24) Bushing
(25) Fuel pipe front grommet
(26) Pipe clamp
(27) Pipe clamp
(28) Clip
(29) Pipe clamp

(30) Pipe clamp
(31) Fuel pipe rear grommet
(32) Pipe clamp
(33) Tube clamp
(34) Tube clamp
(35) Clip
(36) Leak check valve ASSY

Tightening torque: N·m (kgf-m, ft-lb)
  T1: 2 (0.2, 1.5)
  T2: 2.5 (0.3, 1.8)
  T3: 7.5 (0.8, 5.5)
  T4: 8 (0.8, 5.9)
  T5: 7.5 (0.8, 5.5)

7. FUEL FILLER PIPE

FU-06685

(1)	Fuel filler cap	(8)	Fuel filler pipe bracket B	(15)	Grommet
(2)	Fuel filler pipe protector	(9)	Fuel filler pipe bracket C		
(3)	Clip	(10)	Clip		
(4)	Neck holder A	(11)	Evaporation hose		
(5)	Neck holder B	(12)	Grommet		
(6)	Fuel filler pipe	(13)	Evaporation pipe		
(7)	Fuel filler pipe bracket A	(14)	Evaporation pipe protector		

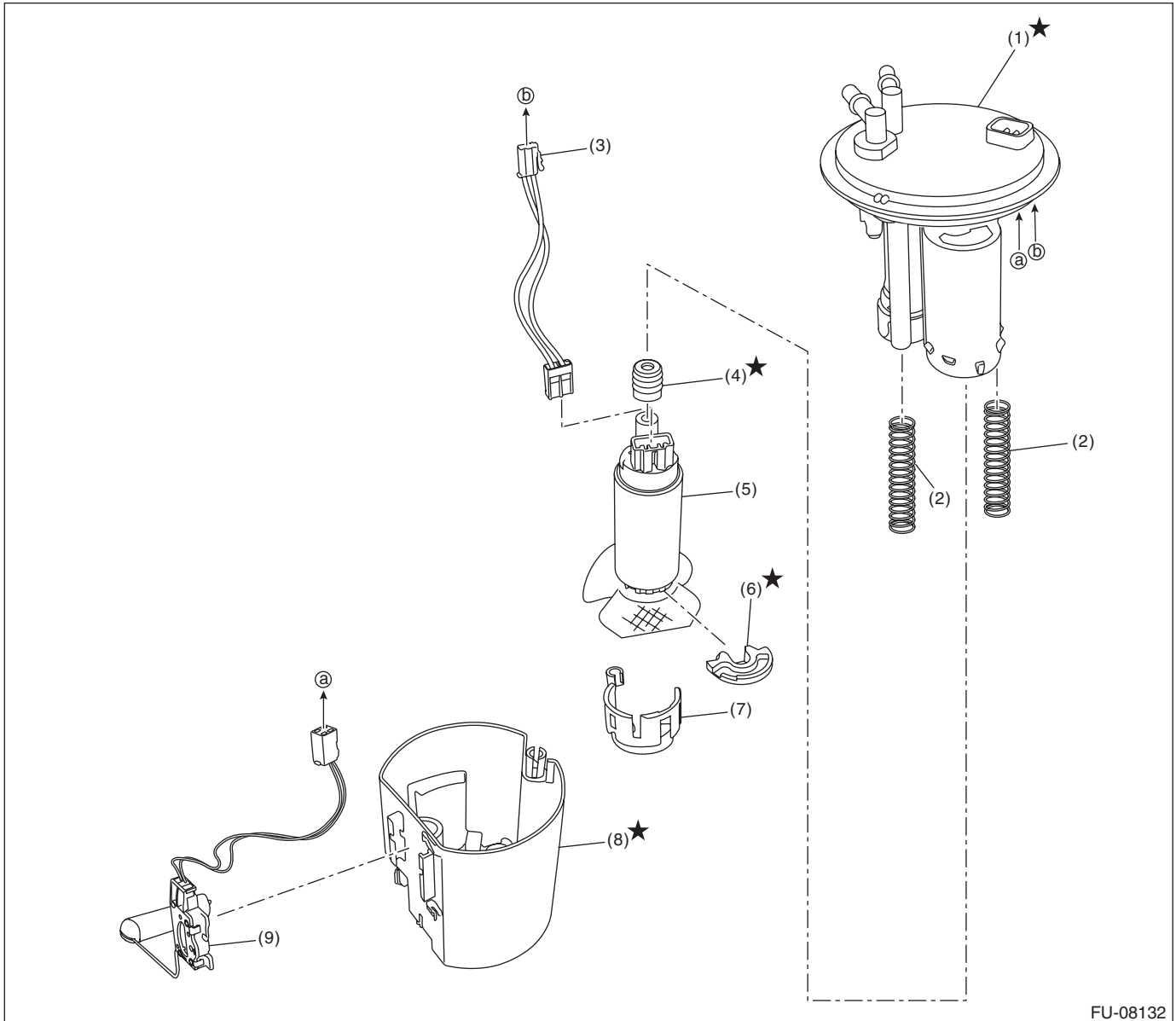*Tightening torque: N·m (kgf-m, ft-lb)*

T1: 1 (0.1, 0.7)
T2: 7.35 (0.7, 5.4)
T3: 7.5 (0.8, 5.5)

8. FUEL PUMP

FU-08132

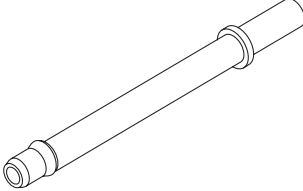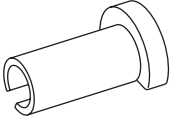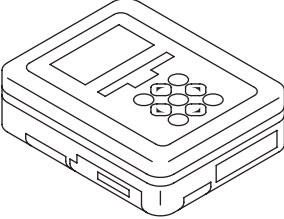| (1)	Fuel filter ASSY	(4)	Packing spacer	(7)	Fuel pump holder
(2)	Pump module spring	(5)	Fuel pump	(8)	Fuel chamber ASSY
(3)	Fuel pump harness	(6)	Support rubber cushion	(9)	Fuel level sensor

General Description

C: CAUTION

- Prior to starting work, pay special attention to the following:
  1. Always wear work clothes, a work cap, and protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
  2. Protect the vehicle using a seat cover, fender cover, etc.
  3. Prepare the service tools, clean cloth, containers to catch grease and oil, etc.
- 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 oil spills, wipe it off immediately to prevent from penetrating into floor or flowing out for environmental protection.
- Vehicle components are extremely hot immediately after driving. Be wary of receiving burns from heated parts.
- When performing a repair, identify the cause of trouble and avoid unnecessary removal, disassembly and replacement.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from battery.
- Always use the jack-up point when the shop jacks or rigid racks are used to support the vehicle.
- Remove contamination including dirt and corrosion before removal, installation, disassembly or assembly.
- Keep the removed parts in order and protect them from dust and dirt.
- All removed parts, if to be reused, should be reinstalled in the original positions with attention to the correct directions, etc.
- Bolts, nuts and washers should be replaced with new parts as required.
- Follow all government and local regulations concerning disposal of refuse when disposing fuel.

General Description

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18471AA000	18471AA000	FUEL PIPE ADAPTER	Used for draining fuel.
ST42099AE000	42099AE000	QUICK CONNEC-TOR RELEASE	Used for removing the quick connector.
ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for draining fuel and each inspection.

2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.
Oscilloscope	Used for inspecting the waveform of each sensor.