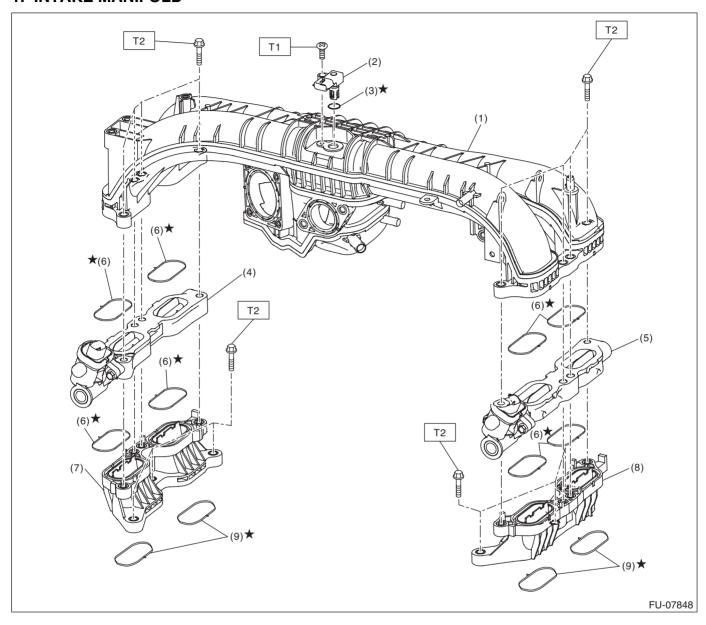
1. General Description

A: SPECIFICATION

Fuel tank	Capacity	60 L (15.9 US gal, 13.2 Imp gal)
	Location	Under rear seat
Fuel pump	Туре	Impeller
	Shutoff discharge pressure	940 kPa (9.6 kg/cm ² , 123.3 psi), or less
	Discharge rate	153 L (40.4 US gal, 33.7 lmp gal)/h or more [12 V at 343 kPa (3.5 kg/cm², 49.7 psi)]
Fuel filter		In-tank type

B: COMPONENT

1. INTAKE MANIFOLD



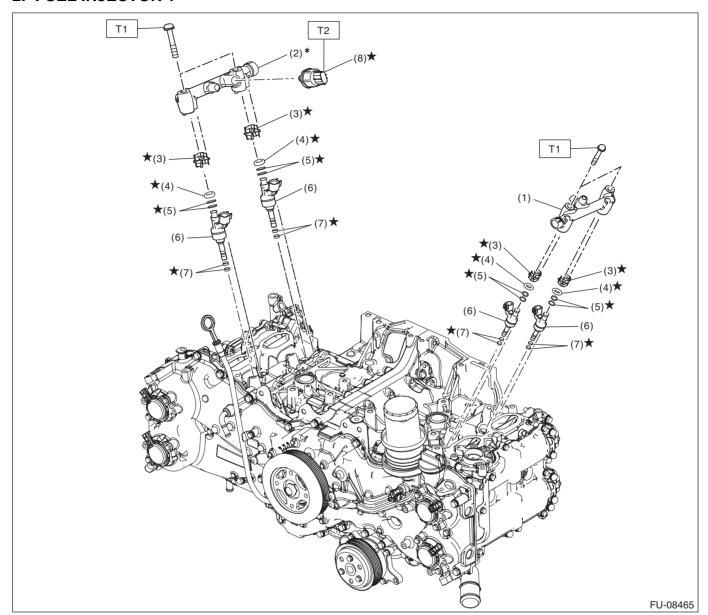
- (1) Intake manifold
- (2) Manifold absolute pressure and intake air temperature sensor
- (3) O-ring
- (4) Tumble generator valve ASSY LH
- (5) Tumble generator valve ASSY RH
- (6) Gasket
- (7) Air intake adapter LH
- (8) Air intake adapter RH
- (9) Gasket

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 3.5 (0.4, 2.6)

T2: 25 (2.5, 18.4)

2. FUEL INJECTOR 1



- (1) Fuel injector pipe LH
- (2) Fuel injector pipe RH
- (3) Holder
- (4) O-ring

- (5) Back-up ring
- (6) Fuel injector
- (7) Injector seal
- (8) Fuel pressure sensor

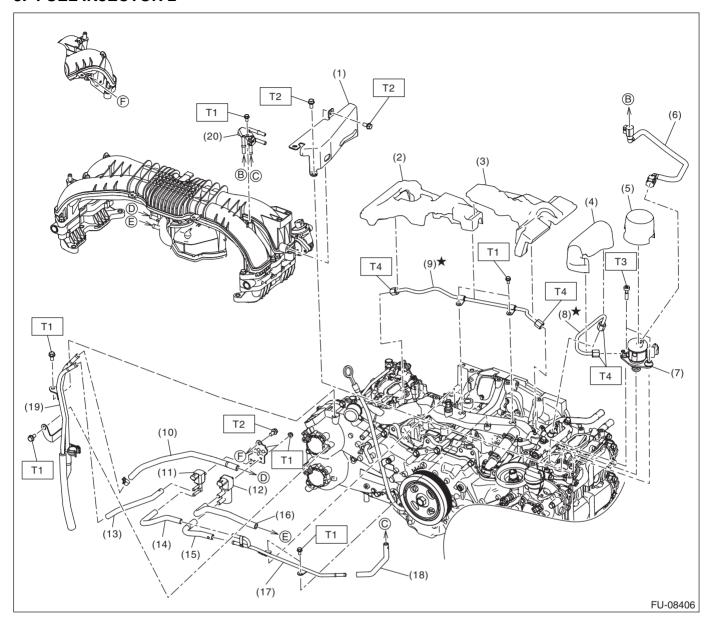
Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 19 (1.9, 14.0)

T2: 46 (4.7, 33.9)

* When removing the fuel pressure sensor from the fuel injector pipe RH, replace it with a new one.

3. FUEL INJECTOR 2



- (1) Fuel pipe protector
- (2) Fuel pipe insulator No. 3
- (3) Fuel pipe insulator No. 2
- (4) Fuel pipe insulator No. 1
- (5) Fuel pump insulator
- (6) Fuel delivery pipe
- (7) High-pressure fuel pump
- (8) High-pressure fuel delivery pipe
- (9) High-pressure fuel delivery pipe ASSY

- (10) Vacuum control hose
- (11) Purge control solenoid valve A
- (12) Purge control solenoid valve B
- (13) Vacuum hose A
- (14) Vacuum hose B
- (15) Vacuum hose C
- (16) Vacuum hose D
- (17) Canister pipe
- (18) Vacuum hose E

- (19) Vacuum pipe ASSY
- (20) Fuel pipe ASSY

Tightening torque: N⋅m (kgf-m, ft-lb)

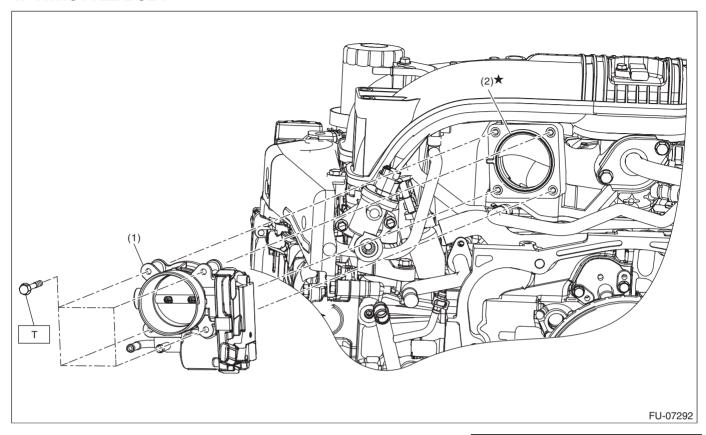
T1: 6.4 (0.7, 4.7)

T2: 19 (1.9, 14.0)

T3: 21 (2.1, 15.5)

T4: 25 (2.5, 4.7)

4. THROTTLE BODY

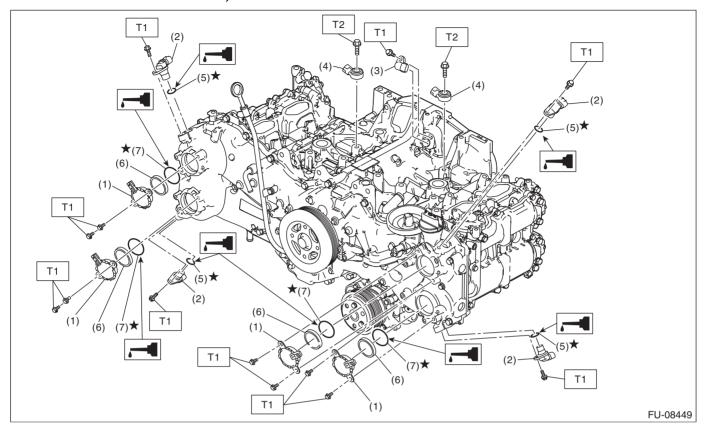


(1) Throttle body

(2) Gasket

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

5. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



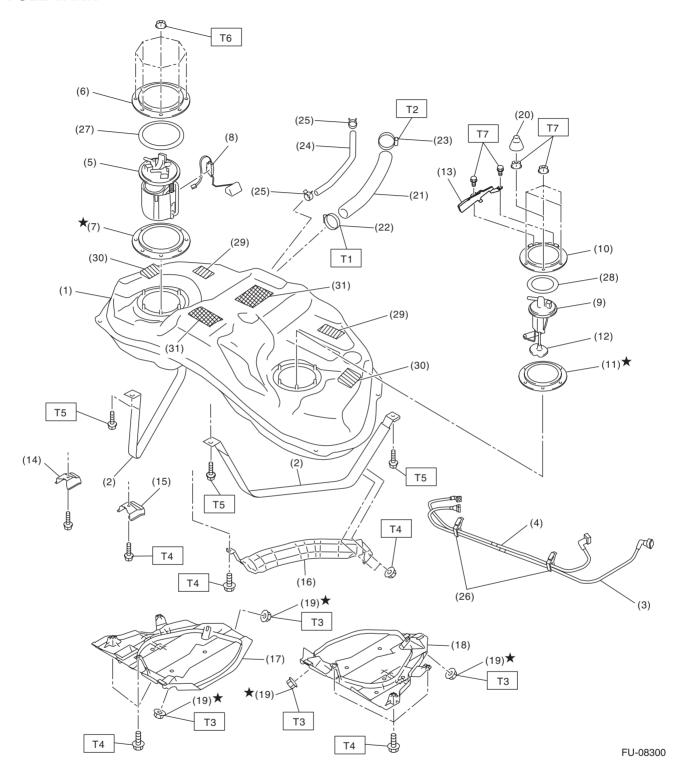
- (1) Oil control solenoid
- (2) Camshaft position sensor
- (3) Crankshaft position sensor
- (4) Knock sensor

- (5) O-ring
- (6) Back-up ring
- (7) O-ring

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 6.4 (0.7, 4.7) T2: 24 (2.4, 17.7)

6. FUEL TANK



- (1) Fuel tank
- (2) Fuel tank band
- (3) Fuel delivery tube
- (4) Jet pump tube
- (5) Fuel pump ASSY
- (6) Fuel pump upper plate
- (7) Fuel pump gasket
- (8) Fuel level sensor
- (9) Fuel sub level sensor
- (10) Fuel sub level sensor upper plate
- (11) Fuel sub level sensor gasket
- (12) Fuel sub level sensor filter
- (13) Fuel sub level sensor protector

- (15) Stopper LH
- (16) Heat shield cover
- (17) Fuel tank protector RH
- (18) Fuel tank protector LH
- (19) Self-locking nut
- (20) Rubber cap
- (21) Fuel filler hose
- (22) Clamp
- (23) Clamp
- (24) Evaporation hose
- (25) Clip
- (26) Tube clamp
- (27) Fuel pump upper plate cushion

- (28) Fuel sub level sensor upper plate cushion
- (29) Cushion
- (30) Cushion
- (31) Cushion

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 2 (0.2, 1.5)

T2: 2.5 (0.3, 1.8)

T3: 9 (0.9, 6.6)

T4: 18 (1.8, 13.3)

T5: <Ref. to FU(w/o STI)-157, INSTALLATION, Fuel Tank.>

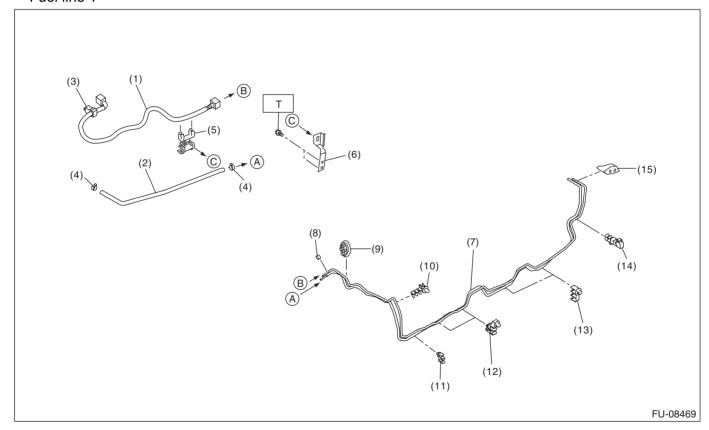
T6: <Ref. to FU(w/o STI)-171, INSTALLATION, Fuel Pump.>

T7: <Ref. to FU(w/o STI)-180, INSTALLATION, Fuel Sub Level Sensor.>

(14) Stopper RH

7. FUEL LINE

• Fuel line 1



- (1) Fuel delivery tube
- (2) Evaporation hose
- (3) Tube clamp
- (4) Clip
- (5) Hose clamp
- (6) Hose clamp bracket

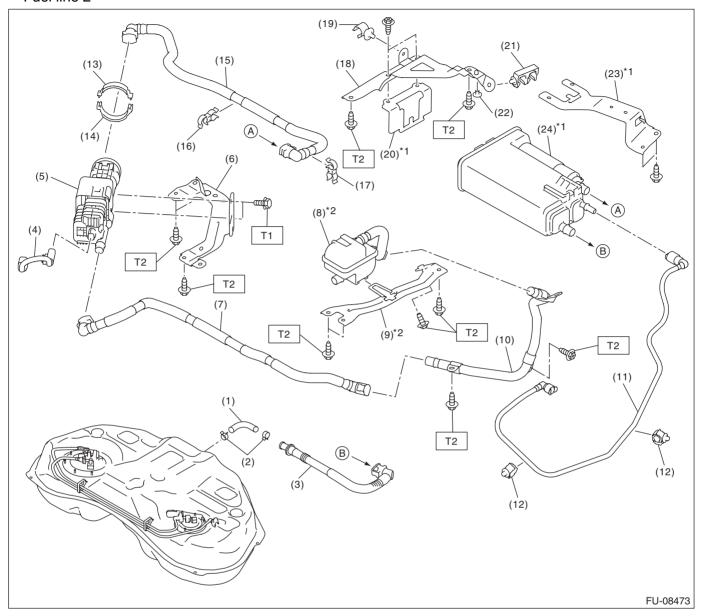
- (7) Fuel pipe ASSY
- (8) Bushing
- (9) Fuel pipe front grommet
- (10) Pipe clamp
- (11) Pipe clamp
- (12) Pipe clamp

- (13) Pipe clamp
- (14) Pipe clamp
- (15) Fuel pipe rear grommet

Tightening torque: N⋅m (kgf-m, ft-lb)

T: 7.5 (0.8, 5.5)

Fuel line 2



(1)	Vent	hose
-----	------	------

- (2) Clip
- (3) Vent tube
- (4) Harness
- (5) Leak check valve ASSY
- (6) Leak check valve bracket
- (7) Drain tube A
- (8) Drain filter
- (9) Drain bracket
- (10) Drain pipe

- (11) Purge tube
- (12) Tube clamp
- (13) Clamp B
- (14) Clamp A
- (15) Drain tube B
- (10) = 1
- (16) Tube clamp
- (17) Tube clamp
- (18) Canister bracket A(19) Tube clamp

- (20) Canister bracket B
- (21) Tube clamp
- (22) Clip
- (23) Canister bracket C
- (24) Canister

Tightening torque: N⋅m (kgf-m, ft-lb)

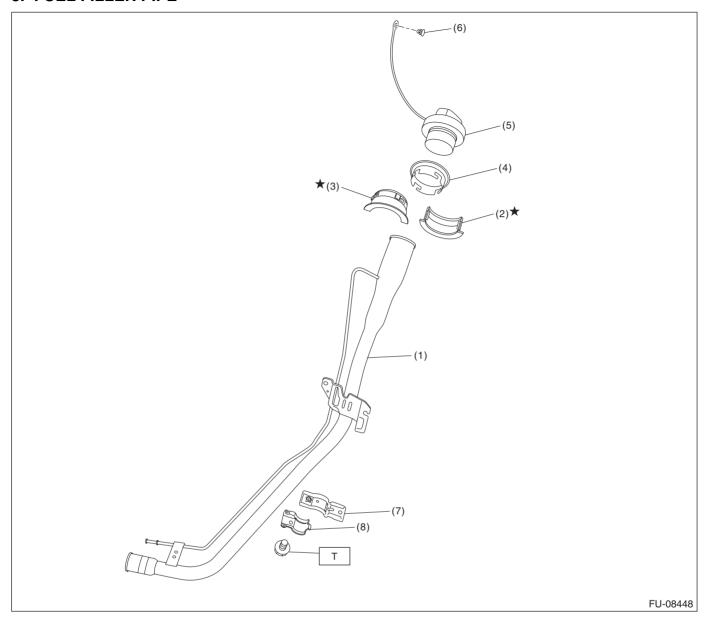
T1: 5.4 (0.6, 4.0)

T2: 7.5 (0.8, 5.5)

^{*1} The canister bracket cannot be separated from the canister. Therefore, be sure to replace both of them with new ones when replacing the canister or canister bracket.

^{*2} The drain filter cannot be separated from the drain bracket. Therefore, be sure to replace both of them with new ones when replacing the drain bracket or drain filter.

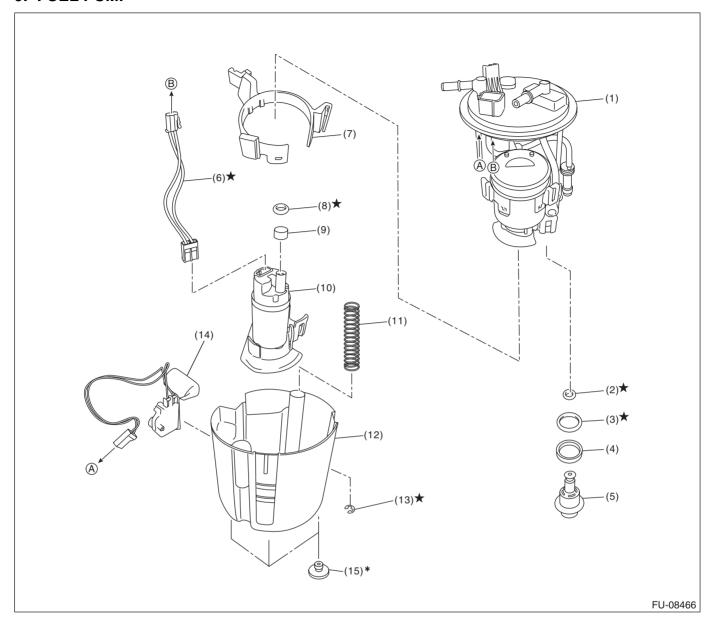
8. FUEL FILLER PIPE



- (1) Fuel filler pipe ASSY
- (2) Neck holder A
- (3) Neck holder B
- (4) Fuel filler pipe protector
- (5) Fuel filler cap
- (6) Clip
- (7) Upper bracket
- (8) Lower bracket

Tightening torque: N⋅m (kgf-m, ft-lb)
T: 7.35 (0.7, 5.4)

9. FUEL PUMP



(2) O-ring

(3) O-ring

(4) Back-up ring

(5) Pressure regulator

- (6) Connector cable
- (7) Fuel pump holder
- (8) O-ring
- (9) Spacer
- (10) Fuel pump

- (11) Spring
- (12) Fuel chamber ASSY
- (13) Clip
- (14) Fuel level sensor
- (15) Cushion

^{*} When removing the cushion from the fuel chamber assembly, replace it with a new part.

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.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for draining fuel and each inspection.
ST18356AA000	18356AA000	INJECTOR REMOVER	Used for removing the injector.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18460AA030	18460AA030	CHECK BOARD	Used for inspecting the fuel system.
3110400AA030	18471AA000	FUEL PIPE	Used for draining fuel.
		ADAPTER	
ST18471AA000	18683AA000	INJECTOR SEAL	Used for installing the injector seal.
	10003AA000	INSTALLER	Osed for installing the injector seal.
ST18683AA000			

2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.
Oscilloscope	Used for inspecting the waveform of each sensor.
TORX PLUS [®] bit 40IP	Used for removing and installing high-pressure fuel pump.
Mighty Vac	Used for inspecting the manifold absolute pressure and intake
	air temperature sensor.