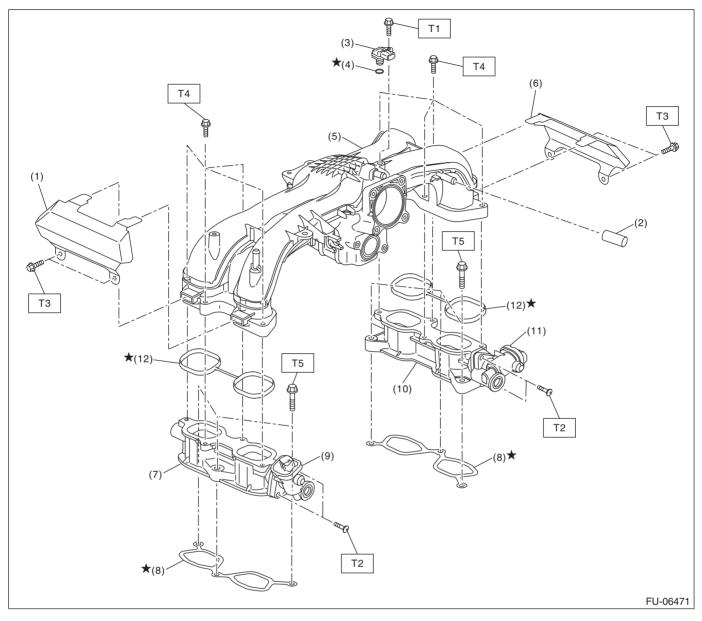
1. General Description

A: SPECIFICATION

Fuel tank	Consoitu	Except for XV model	55 L (14.5 US gal, 12.1 Imp gal)		
	Capacity	XV model	60 L (15.9 US gal, 13.2 lmp gal)		
	Location		Under rear seat		
Fuel pump	Туре		Impeller		
	Shutoff discharge pressure		677 kPa (6.9 kgf/cm ² , 98.2 psi) or less		
	Discharge rate		85 L (22.5 US gal, 18.7 lmp 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



(2) Cap

(3) Manifold absolute pressure sensor

(4) O-ring

(5) Intake manifold

(6) Intake manifold protector RH

(7) Tumble generator valve LH

(8) Gasket

(9) Tumble generator valve actuator

LH

(10) Tumble generator valve RH

(11) Tumble generator valve actuator RH

(12) Gasket

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 3.4 (0.3, 2.5)

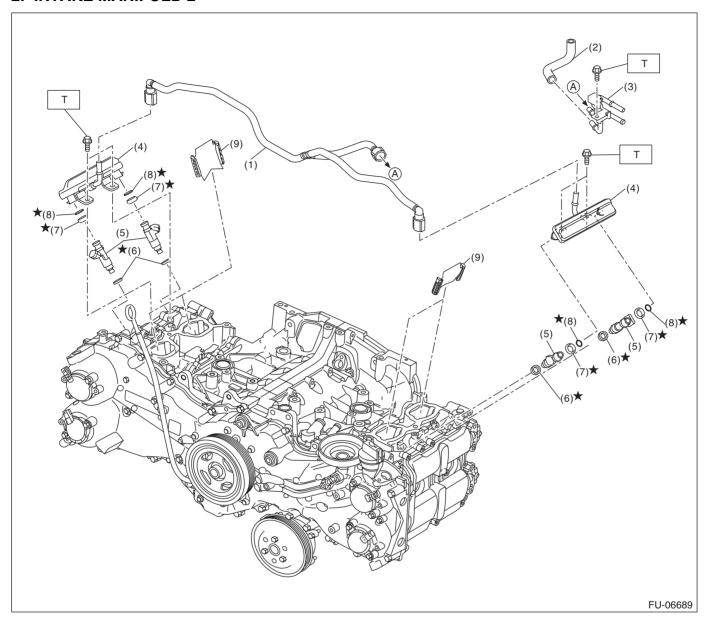
T2: 6 (0.6, 4.4)

T3: 6.4 (0.7, 4.7)

T4: 8.3 (0.8, 6.1)

T5: 25 (2.5, 18.4)

2. INTAKE MANIFOLD 2



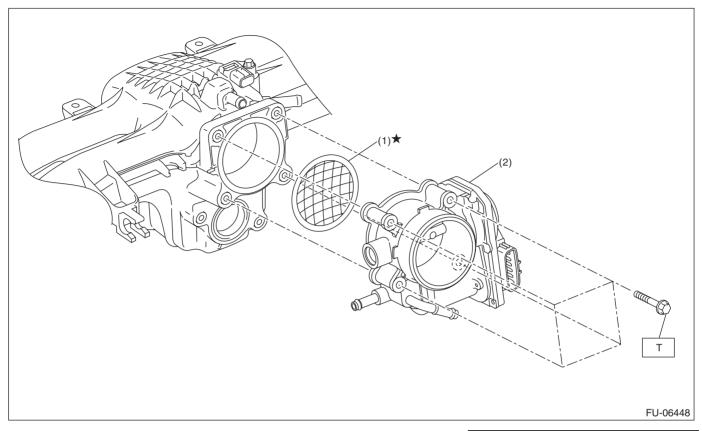
- (1) Fuel delivery pipe
- (2) Vacuum hose
- (3) Fuel pipe A
- (4) Fuel pipe B
- (5) Fuel injector

- (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)

3. THROTTLE BODY

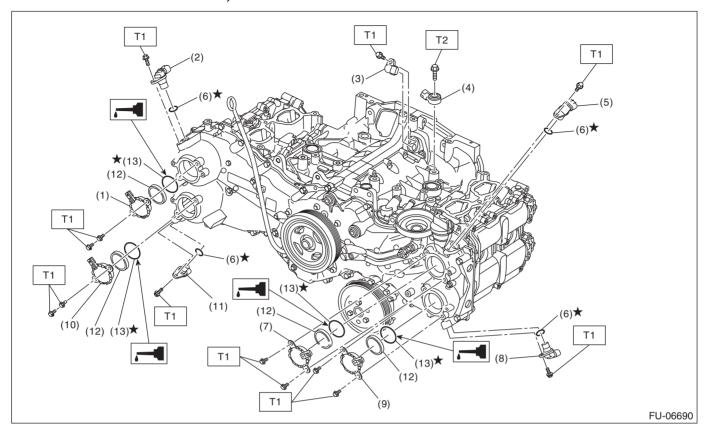


(1) Gasket

(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



- (1) Intake oil control solenoid RH
- (2) Intake camshaft position sensor RH
- (3) Crankshaft position sensor
- (4) Knock sensor
- (5) Intake camshaft position sensor LH
- (6) O-ring

- (7) Intake oil control solenoid LH
- (8) Exhaust camshaft position sensor LH
- (9) Exhaust oil control solenoid LH
- (10) Exhaust oil control solenoid RH
- (11) Exhaust camshaft position sensor RH
- (12) Back-up ring

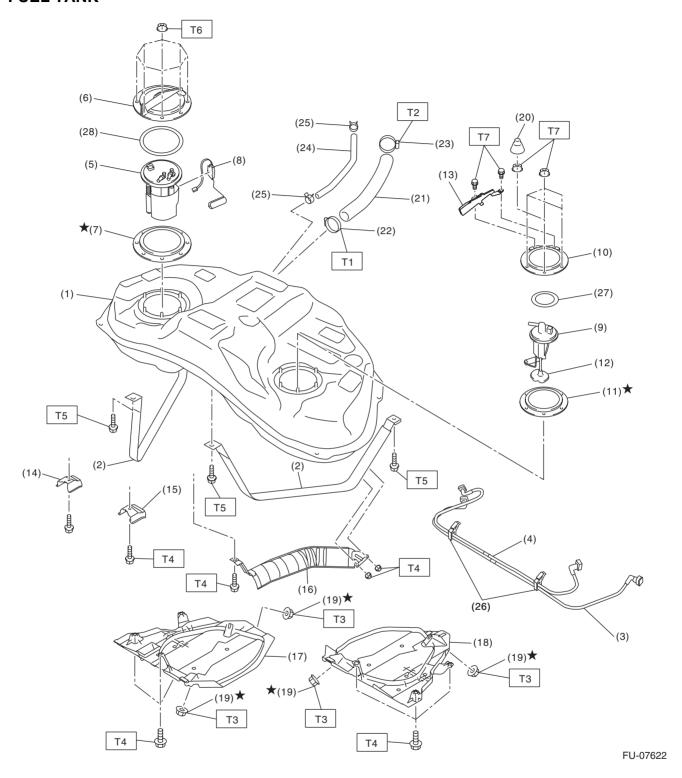
(13) O-ring

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 6.4 (0.7, 4.7)

T2: 24 (2.4, 17.7)

5. FUEL TANK

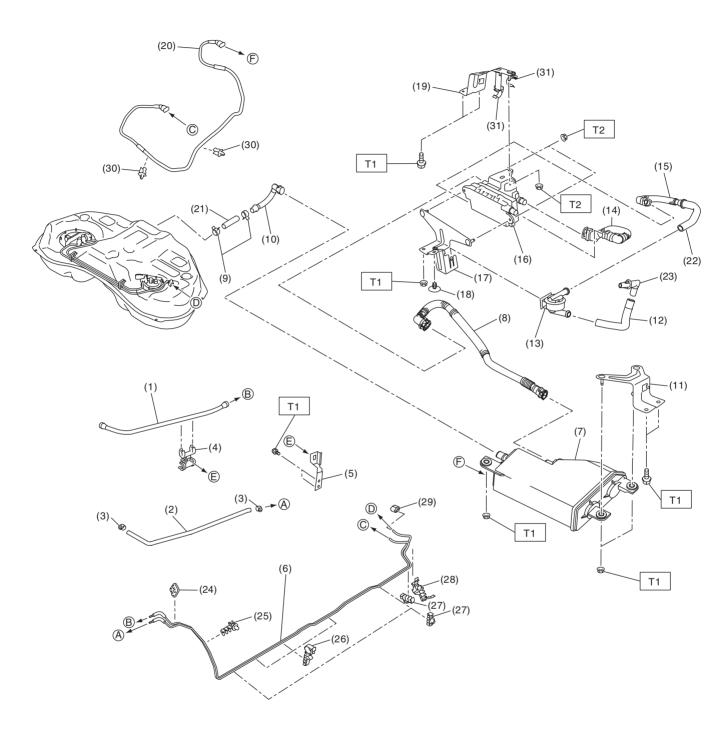


General Description

FUEL INJECTION (FUEL SYSTEMS)

(1)	Fuel tank	(14)	Stopper RH	(26)	Tube clamp
(2)	Fuel tank band	(15)	Stopper LH	(27)	Fuel sub level sensor upper plate cushion
(3)	Delivery tube	(16)	Heat shield cover	(28)	Fuel pump upper plate cushion
(4)	Jet pump tube	(17)	Fuel tank protector RH		
(5)	Fuel pump ASSY	(18)	Fuel tank protector LH	Tight	ening torque: N·m (kgf-m, ft-lb)
(6)	Fuel pump upper plate	(19)	Self-locking nut	T1:	2 (0.2, 1.5)
(7)	Fuel pump gasket	(20)	Rubber cap	T2:	2.5 (0.3, 1.8)
(8)	Fuel level sensor	(21)	Fuel filler hose	T3:	9 (0.9, 6.6)
(9)	Fuel sub level sensor	(22)	Clamp	T4:	18 (1.8, 13.3)
(10)	Fuel sub level sensor upper plate	(23)	Clamp	T5:	33 (3.4, 24.3)
(11)	Fuel sub level sensor gasket	(24)	Air vent hose	T6:	<ref. fu(h4do)-151,="" instal-<br="" to="">LATION, Fuel Pump.></ref.>
(12)	Fuel sub level sensor filter	(25)	Clip	T7:	<ref. fu(h4do)-159,="" instal-<br="" to="">LATION, Fuel Sub Level Sen- sor.></ref.>
(13)	Fuel sub level sensor protector				

6. FUEL LINE



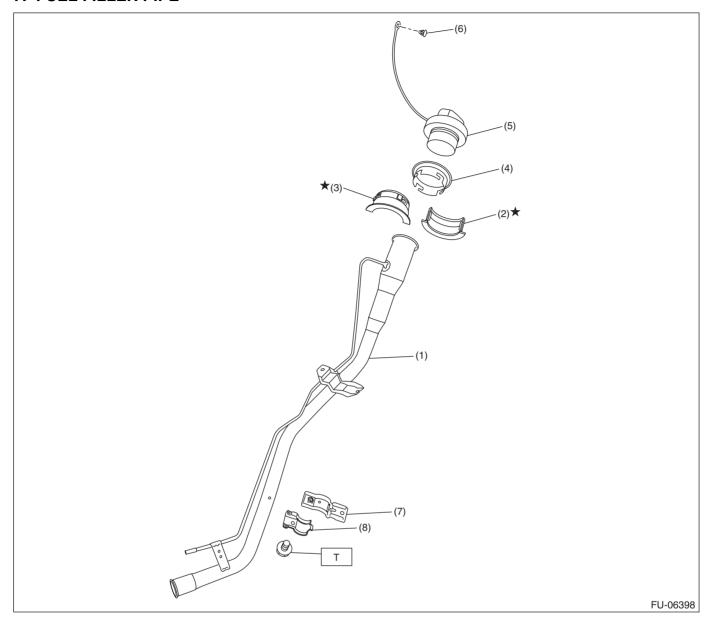
FU-07623

General Description

FUEL INJECTION (FUEL SYSTEMS)

(1)	Fuel delivery hose	(13)	Drain separator	(25)	Pipe clamp
(2)	Evaporation hose	(14)	Drain tube B	(26)	Pipe clamp
(3)	Clip	(15)	Drain tube C	(27)	Pipe clamp
(4)	Hose clamp	(16)	Leak check valve ASSY	(28)	Pipe clamp
(5)	Hose clamp bracket	(17)	Leak check valve bracket A	(29)	Fuel pipe rear grommet
(6)	Fuel pipe ASSY	(18)	Clip	(30)	Pipe clamp
(7)	Canister	(19)	Leak check valve bracket B	(31)	Tube clamp
(8)	Drain tube A	(20)	Purge pipe		
(9)	Clip	(21)	Vent hose	Tight	ening torque: N·m (kgf-m, ft-lb)
(10)	Vent tube	(22)	Drain hose	T1:	7.5 (0.8, 5.5)
(11)	Canister bracket	(23)	Connector	T2:	18 (1.8, 13.3)
(12)	Intake hose	(24)	Fuel pipe front grommet		

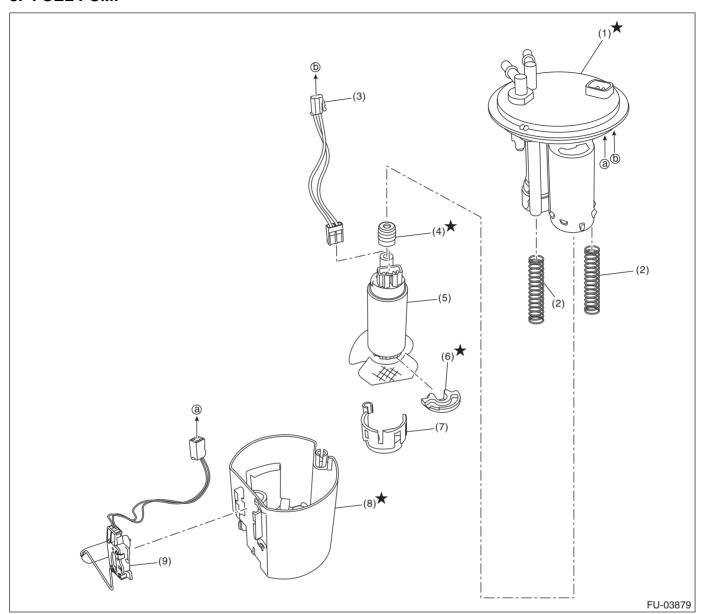
7. FUEL FILLER PIPE



- (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)

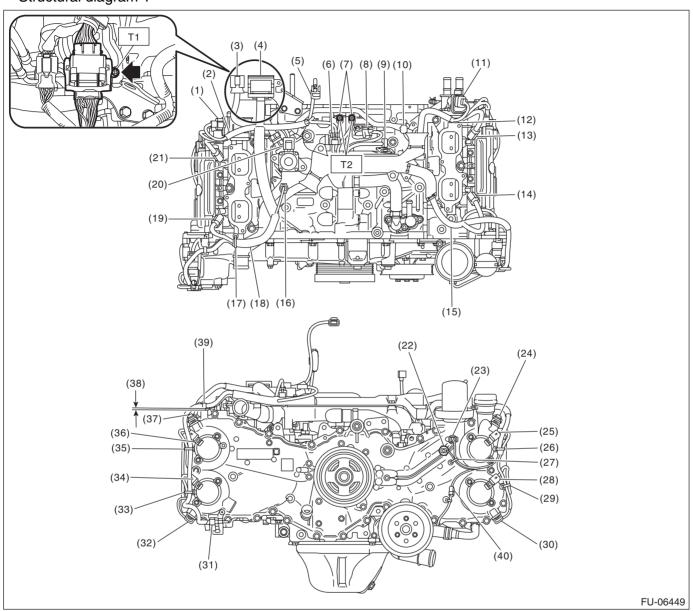
8. FUEL PUMP



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

9. ENGINE HARNESS

• Structural diagram 1



General Description

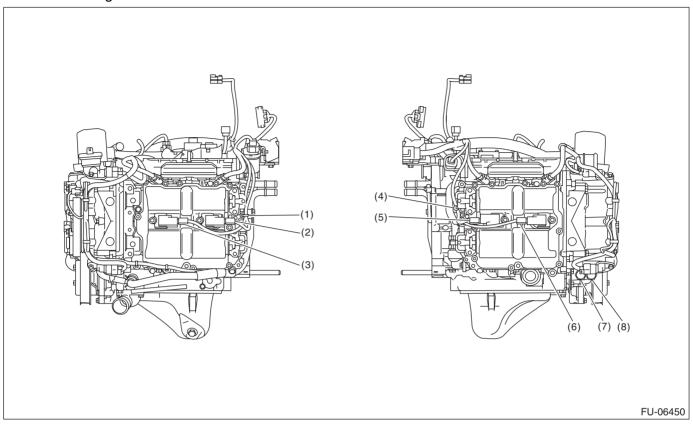
FUEL INJECTION (FUEL SYSTEMS)

- (1) Tumble generator valve actuator RH
- (2) Be careful of pinching when installing the intake manifold.
- (3) Engine harness connector (16P)
- (4) Engine harness connector (54P)
- (5) Throttle position sensor connector
- (6) Manifold absolute pressure sensor connector
- (7) Engine ground (2 locations)
- (8) Crankshaft position sensor
- (9) Knock sensor
- (10) Purge control solenoid valve connector
- (11) Tumble generator valve actuator LH
- (12) Be careful of pinching when installing the intake manifold.
- (13) Fuel injector (#4)
- (14) Fuel injector (#2)
- (15) Be careful of pinching when installing the intake manifold and A/C bracket.
- (16) Engine coolant temperature sensor
- (17) Secure the clip to the screw hole.
- (18) Be careful of pinching when installing the intake manifold.
- (19) Fuel injector (#1)
- (20) EGR valve
- (21) Fuel injector (#3)
- (22) Oil pressure switch
- (23) Engine oil temperature sensor
- (24) Intake camshaft position sensor LH
- (25) Intake oil control solenoid LH
- (26) Secure the clip to the screw hole.
- (27) Secure the clip to the screw hole.
- (28) Exhaust oil control solenoid LH
- (29) Secure the clip to the screw hole.
- (30) Exhaust camshaft position sensor LH
- (31) Secure the clip to the oval hole.
- (32) Exhaust camshaft position sensor RH
- (33) Secure the clip to the screw hole.
- (34) Exhaust oil control solenoid RH
- (35) Secure the clip to the screw hole.
- (36) Intake oil control solenoid RH
- (37) Intake camshaft position sensor RH
- (38) Maximum of 0 2 mm (0 0.079 in) gap is allowed.
- (39) Secure the clip to the screw hole.
- (40) Oil level switch connector

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 7.5 (0.8, 5.5) T2: 19 (1.9, 14.0)

Structural diagram 2



- (1) Secure the clip to the screw hole.
- (2) Ignition coil No. 4
- (3) Ignition coil No. 2
- (4) Secure the clip to the screw hole.
- (5) Ignition coil No. 3
- (6) Ignition coil No. 1
- (7) Front oxygen (A/F) sensor
- (8) Rear oxygen sensor

C: CAUTION

- Prior to starting work, pay special attention to the following:
 - 1. Always wear work clothes, a safety cap, 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
	18471AA000	FUEL PIPE ADAPTER	Used for draining fuel.
ST18471AA000		0.0000000000000000000000000000000000000	
	42099AE000	QUICK CONNEC- TOR RELEASE	Used for removing the quick connector.
ST42099AE000			
	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for draining fuel and each inspection.
ST1B022XU0			

2. GENERAL TOOL

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