

## General Description

### FUEL INJECTION (FUEL SYSTEMS)

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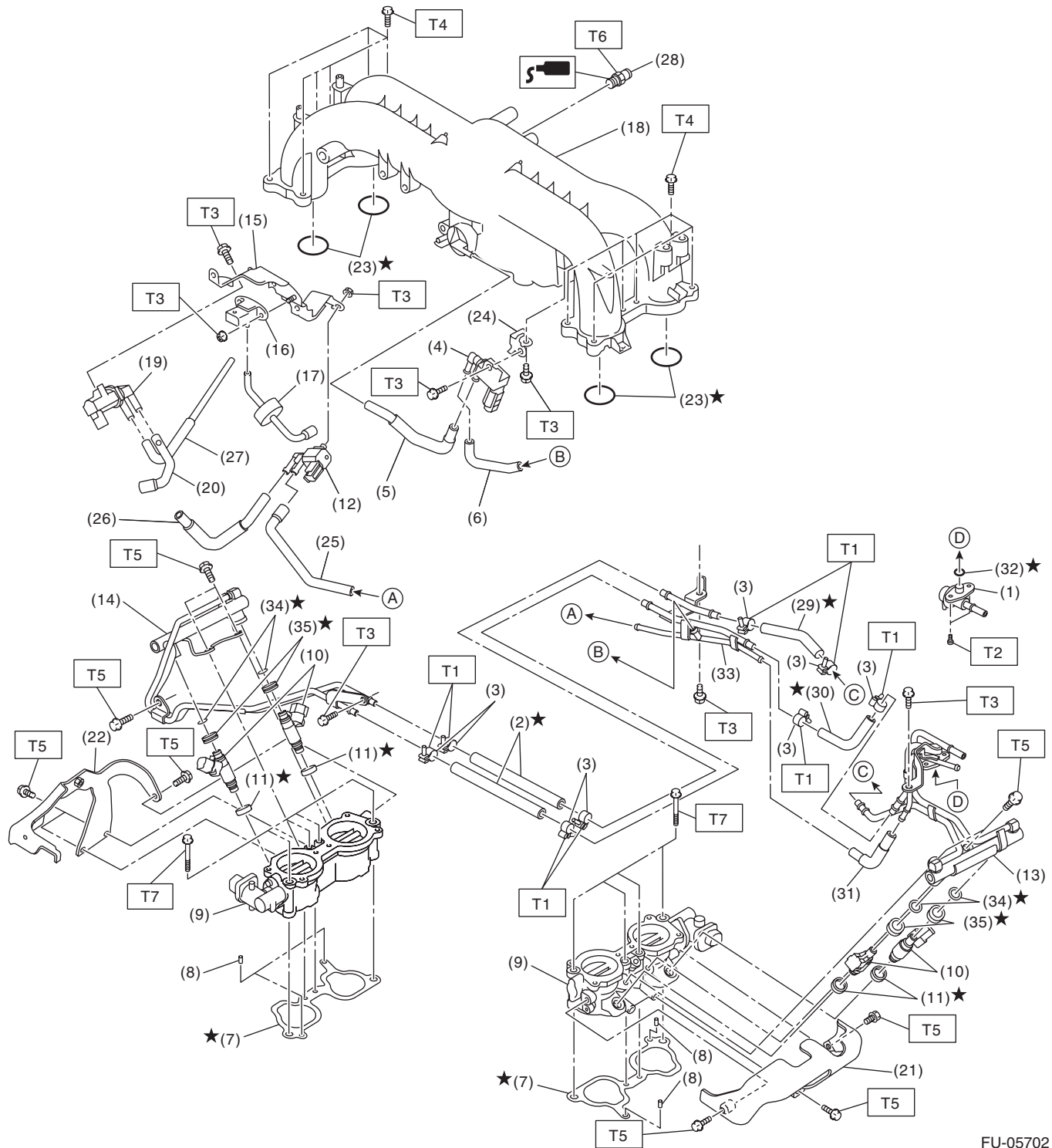
## 1. General Description

### 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 kgf/cm <sup>2</sup> , 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 kgf/cm <sup>2</sup> , 43.5 psi)]
Fuel filter		In-tank type

### B: COMPONENT

#### 1. INTAKE MANIFOLD



FU-05702

## General Description

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(1) Pressure regulator	(16) Manifold absolute pressure sensor	(31) Vacuum hose
(2) Fuel hose A	(17) Filter	(32) O-ring
(3) Clamp	(18) Intake manifold	(33) Fuel pipe
(4) Purge control solenoid valve 1	(19) Wastegate control solenoid valve ASSY	(34) O-ring
(5) Vacuum hose D	(20) Vacuum hose	(35) Rubber
(6) Vacuum hose C	(21) Fuel pipe protector LH	
(7) Intake manifold gasket	(22) Fuel pipe protector RH	
(8) Guide pin	(23) O-ring	
(9) Tumble generator valve ASSY	(24) Solenoid valve bracket	
(10) Fuel injector	(25) Vacuum hose B	
(11) Seal ring	(26) Vacuum hose A	
(12) Purge control solenoid valve 2	(27) Air control hose	
(13) Fuel injector pipe LH	(28) Nipple	
(14) Fuel injector pipe RH	(29) Fuel hose B	
(15) Solenoid valve bracket	(30) Fuel hose C	

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

***T1: 1.25 (0.1, 0.9)***

***T2: 3.5 (0.4, 2.6)***

***T3: 6.4 (0.7, 4.7)***

***T4: 8.3 (0.8, 6.1)***

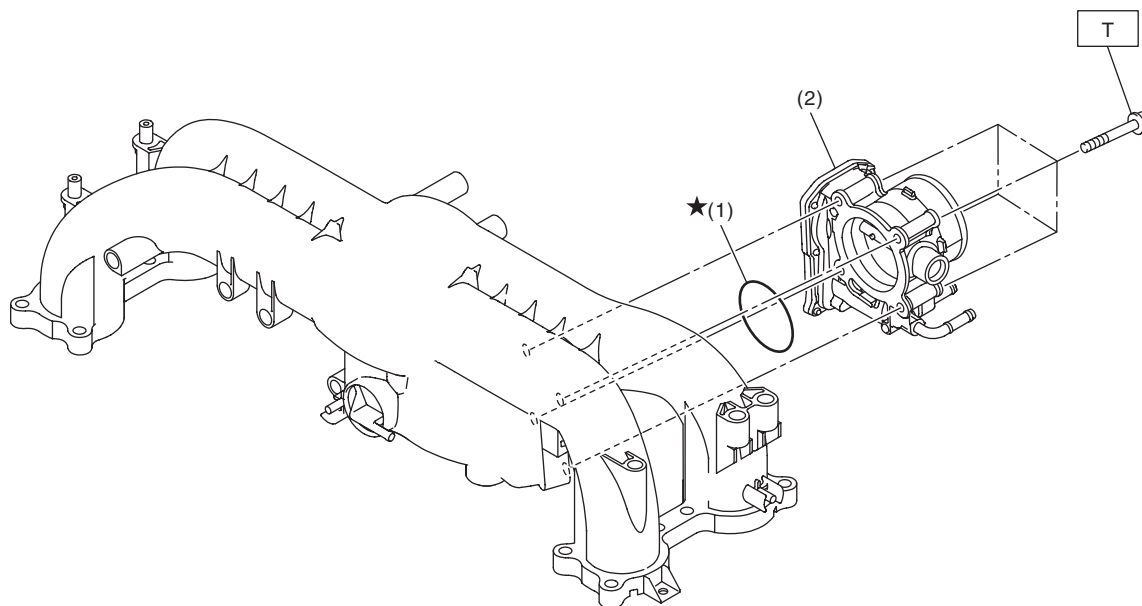
***T5: 19 (1.9, 14.0)***

***T6: 23 (2.3, 17.0)***

***T7: 25 (2.5, 18.4)***

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## 2. AIR INTAKE SYSTEM



FU-05844

(1) O-ring

(2) Throttle body

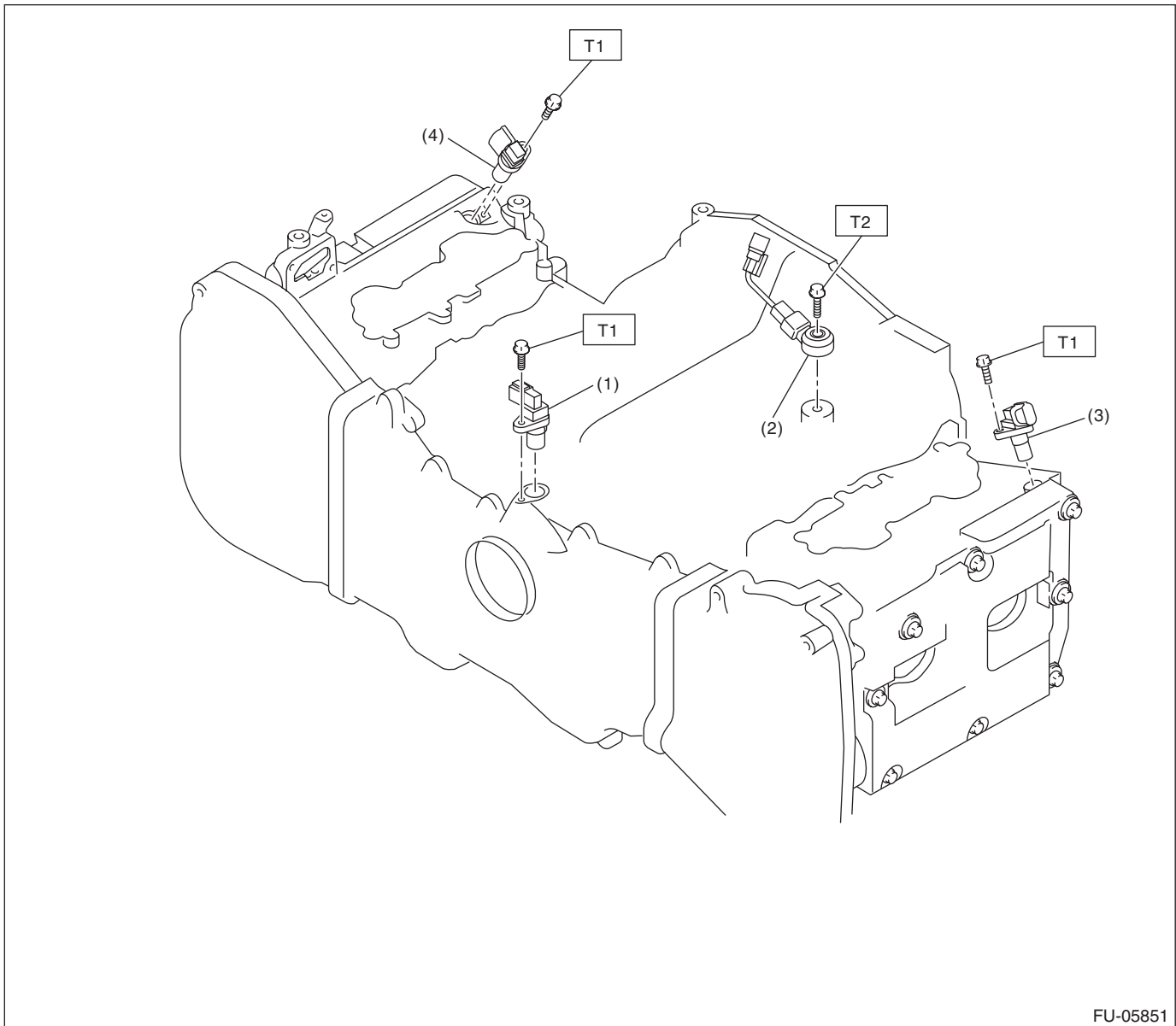
**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 8 (0.8, 5.9)**

## General Description

### FUEL INJECTION (FUEL SYSTEMS)

### 3. CRANKSHAFT POSITION, CAMSHAFT POSITION AND KNOCK SENSORS



FU-05851

(1) Crankshaft position sensor

(3) Camshaft position sensor LH

(2) Knock sensor

(4) Camshaft position sensor RH

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

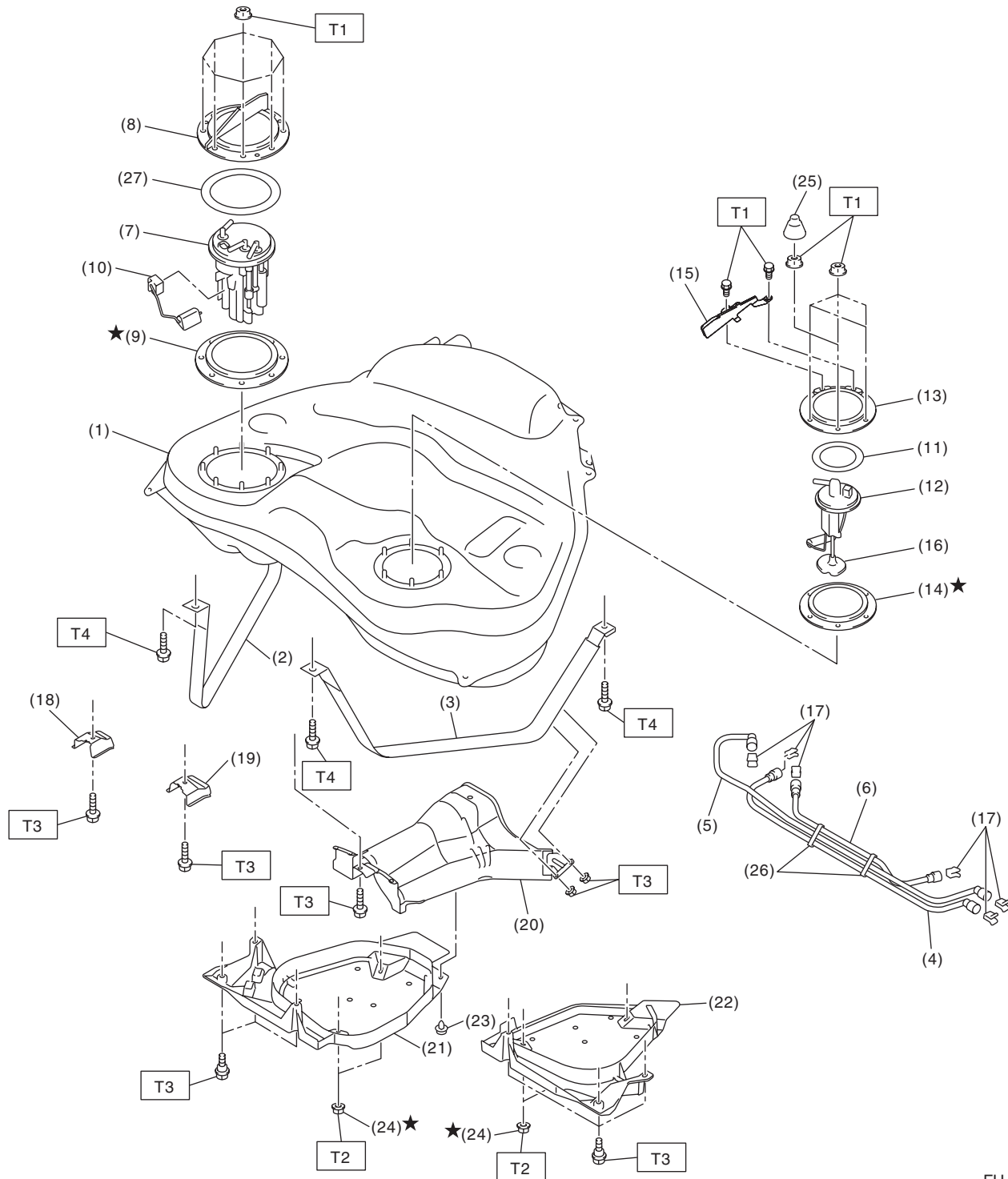
**T1: 6.4 (0.7, 4.7)**

**T2: 24 (2.4, 17.7)**

# General Description

FUEL INJECTION (FUEL SYSTEMS)

## 4. FUEL TANK



FU-07616

## General Description

### FUEL INJECTION (FUEL SYSTEMS)

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

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## FUEL INJECTION (FUEL SYSTEMS)

This diagram illustrates the assembly of the rear suspension and drivetrain components. Key parts shown include the rear differential housing (56), driveshafts (54, 53), rear axle assembly (51), and various suspension links and bushings. The diagram uses numbered callouts (1-58) to identify specific parts and torque specifications (T1, T2, T3, T4, T5, T6) to indicate the required tightening force for various bolts and nuts. Some components are marked with an asterisk (\*) or a star symbol (★) to denote specific assembly instructions or torque requirements. The diagram is divided into several sections, each showing a different view or assembly step of the rear end.

**FU(w/o STI)-9**



## General Description

### FUEL INJECTION (FUEL SYSTEMS)

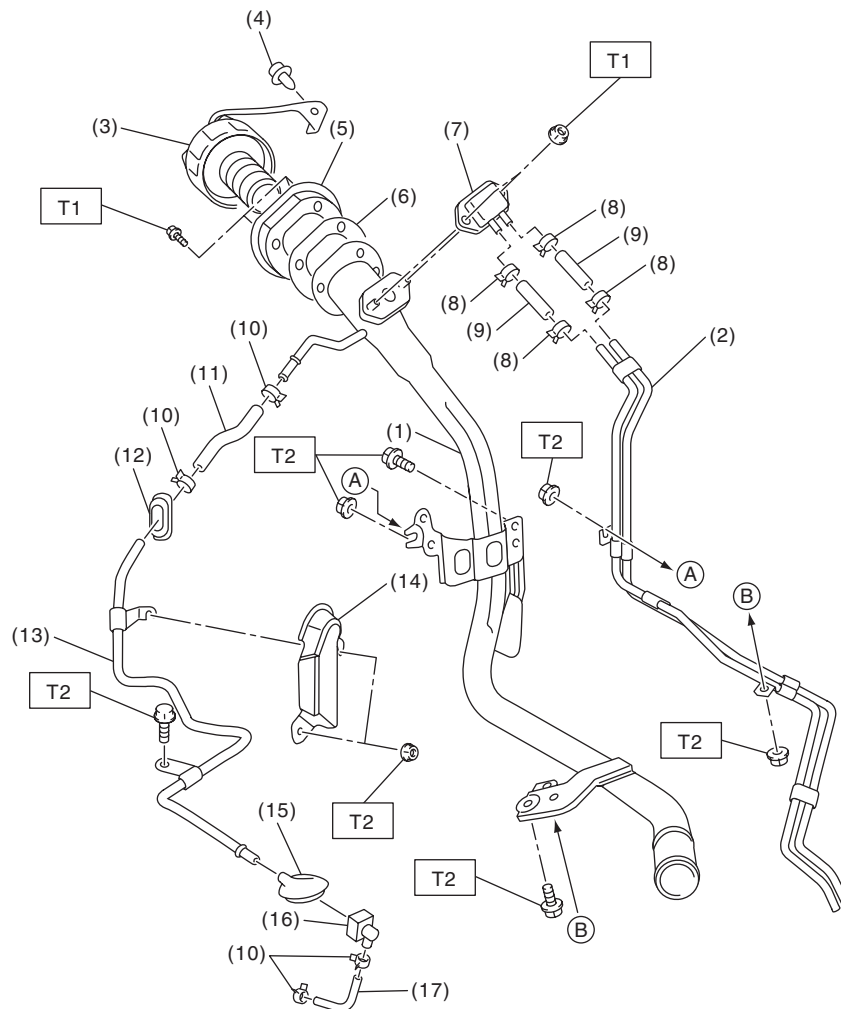
(1) Fuel delivery hose A	(24) Pipe clamp	(47) Hose connector
(2) Clamp	(25) Pipe clamp	(48) Hose connector
(3) Fuel damper A	(26) Fuel pipe rear grommet	(49) Grommet
(4) Fuel delivery hose B	(27) Bracket	(50) Drain tube A
(5) Hose clamp	(28) Clip	(51) Leak check valve ASSY bracket
(6) Clip	(29) Evaporation hose C	(52) Drain tube B
(7) Evaporation hose A	(30) Clamp	(53) Leak check valve ASSY
(8) Clip	(31) Fuel filler hose	(54) Canister tube ASSY
(9) Evaporation hose B	(32) Clamp	(55) Canister
(10) Clip	(33) PCV drain tube	(56) Canister cover LH
(11) Purge damper	(34) Grommet	(57) Center canister cover
(12) Collar	(35) Hose connector	(58) Canister cover RH
(13) Purge damper bracket	(36) Clip	
(14) Bushing	(37) Hose clamp	<b><i>Tightening torque: N·m (kgf-m, ft-lb)</i></b>
(15) Damper bracket	(38) Evaporation hose D	<b><i>T1: 1.25 (0.1, 0.9)</i></b>
(16) Fuel return hose A	(39) Evaporation hose E	<b><i>T2: 2 (0.2, 1.5)</i></b>
(17) Fuel damper B	(40) Pressure control solenoid valve ASSY	<b><i>T3: 2.5 (0.3, 1.8)</i></b>
(18) Fuel damper holder	(41) Clip	<b><i>T4: 7.5 (0.8, 5.5)</i></b>
(19) Fuel return hose B	(42) Evaporation hose F	<b><i>T5: 8 (0.8, 5.9)</i></b>
(20) Fuel pipe ASSY	(43) Evaporation hose G	<b><i>T6: 13 (1.3, 9.6)</i></b>
(21) Fuel pipe front grommet	(44) Drain hose	<b><i>T7: 18 (1.8, 13.3)</i></b>
(22) Pipe clamp	(45) Drain separator	
(23) Pipe clamp	(46) Drain separator bracket	

\* It can be reused if the quick connector side is disconnected.

# General Description

FUEL INJECTION (FUEL SYSTEMS)

## 6. FUEL FILLER PIPE



FU-06742

- |                        |                                 |                         |
|------------------------|---------------------------------|-------------------------|
| (1) Fuel filler pipe   | (8) Clip                        | (15) Grommet            |
| (2) Evaporation pipe A | (9) Evaporation hose A          | (16) Quick connector    |
| (3) Fuel filler cap    | (10) Clip                       | (17) Evaporation hose C |
| (4) Clip               | (11) Evaporation hose B         |                         |
| (5) Filler ring        | (12) Grommet                    |                         |
| (6) Filler pipe gasket | (13) Evaporation pipe B         |                         |
| (7) Shut valve         | (14) Evaporation pipe protector |                         |

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

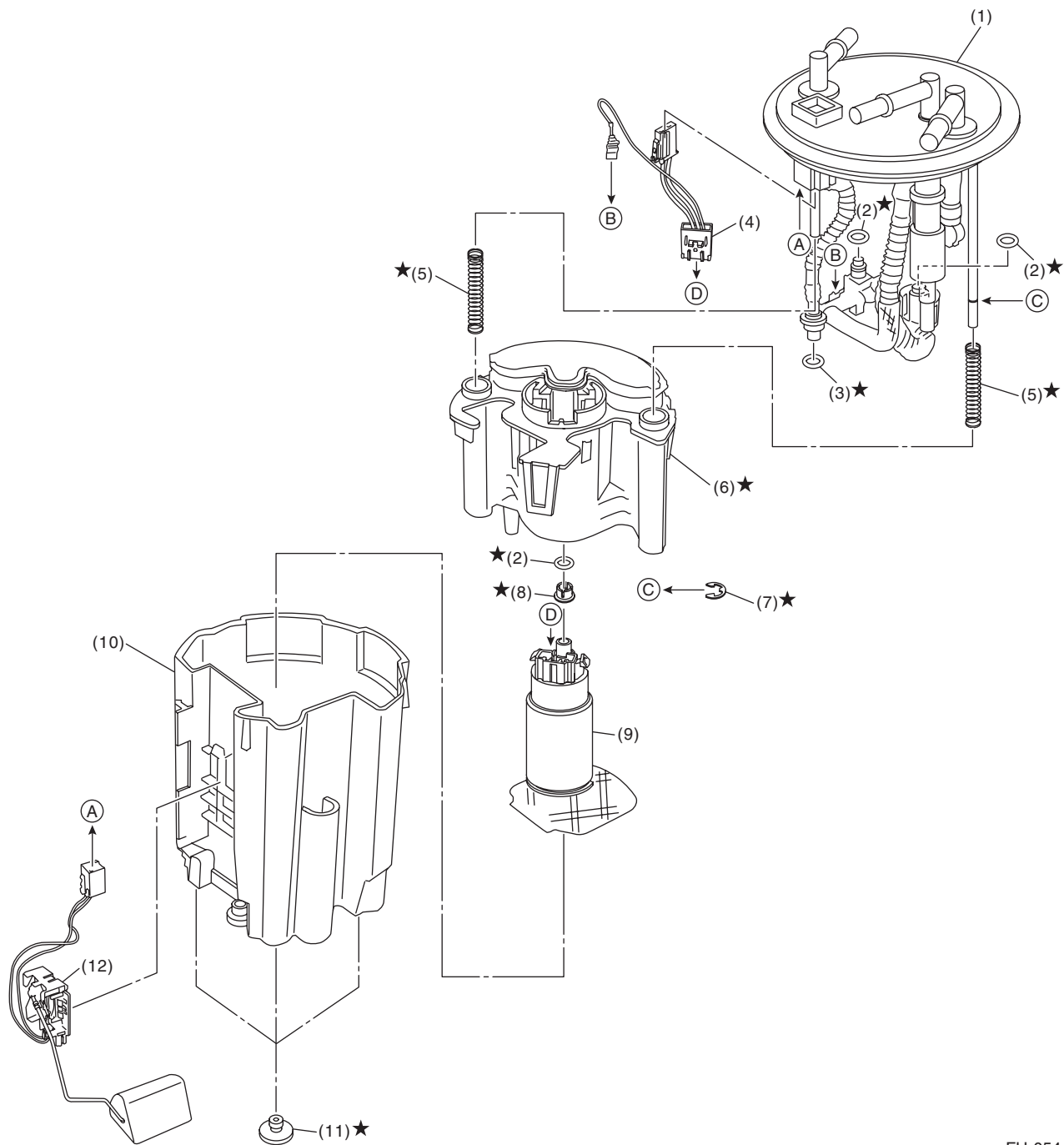
**T1: 4.4 (0.4, 3.2)**

**T2: 7.5 (0.8, 5.5)**

# General Description

## FUEL INJECTION (FUEL SYSTEMS)

### 7. FUEL PUMP



FU-05444

- |                           |                 |                        |
|---------------------------|-----------------|------------------------|
| (1) Sub tank bracket ASSY | (5) Spring      | (9) Pump ASSY          |
| (2) O-ring                | (6) Fuel filter | (10) Sub tank          |
| (3) O-ring                | (7) Clip        | (11) Cushion           |
| (4) Fuel pump harness     | (8) Spacer      | (12) Fuel level sensor |

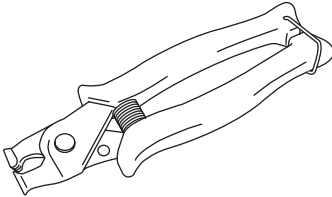
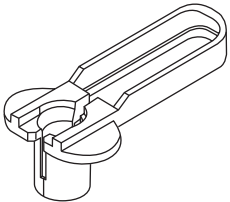
FU(w/o STI)-12

### 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.
- When the suspension-related components have been removed and installed, be sure to adjust the steering angle sensor. <Ref. to VDC-13, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDC-CM&H/U).>

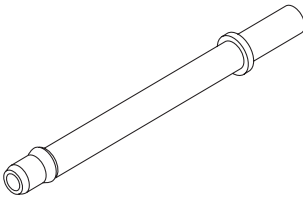
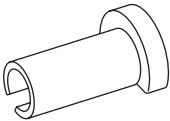
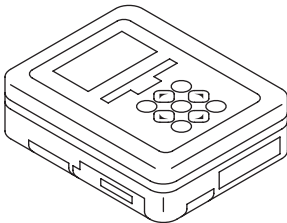
### D: PREPARATION TOOL

#### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST18353AA000	18353AA000	CLAMP PLIERS	<ul style="list-style-type: none"> <li>• Used for removing and installing the PCV hose.</li> <li>• This tool is made by the French company CAILLAU. (code) 54.0.000.205</li> </ul> To make it easier to obtain, it has been provided with a tool number.
 ST18371AA000	18371AA000	CONNECTOR REMOVER	Used for disconnecting the quick connector on the fuel return hose side of the engine compartment (intake manifold).

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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST18471AA000	18471AA000	FUEL PIPE ADAPTER	Used for draining fuel.
 ST42099AE000	42099AE000	QUICK CONNECTOR 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.