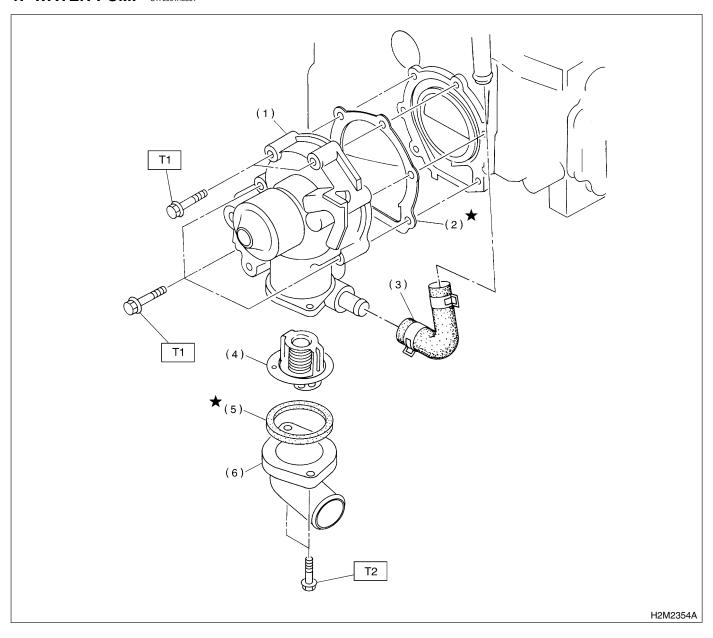
1. General Description S176001

A: SPECIFICATIONS \$176001E49

Cooling system		Electric fan + Forced engine coolant circula- tion system	
Total engine coolant capacity ℓ (US qt, Imp qt)			MT: Approx. 6.8 (7.2, 6.0) AT: Approx. 6.7 (7.1, 5.9)
	Туре		Centrifugal impeller type
	Discharge performance I	Discharge	20 ℓ (5.3 US gal, 4.4 Imp gal)/min.
		Pump speed—total engine coolant head	760 rpm — 0.3 mAq (1.0 ftAq)
		Engine coolant temperature	85°C (185°F)
	Discharge performance II	Discharge	100 ℓ (26.4 US gal, 22.0 lmp gal)/min.
		Pump speed—total engine coolant head	3,000 rpm — 5.0 mAq (16.4 ftAq)
		Engine coolant temperature	85°C (185°F)
Water pump	Discharge performance III	Discharge	200 ℓ (52.8 US gal, 44.0 lmp gal)/min.
		Pump speed—total engine coolant head	6,000 rpm — 23.0 mAq (75.5 ftAq)
		Engine coolant temperature	85°C (185°F)
	Impeller diameter		76 mm (2.99 in)
	Number of impeller vanes		8
	Pump pulley diameter		60 mm (2.36 in)
	Clearance between impeller	Standard	0.5 — 0.7 mm (0.020 — 0.028 in)
	and case	Limit	1.0 mm (0.039 in)
	"Thrust" runout of impeller end		0.5 mm (0.020 in)
Thermostat	Туре		Wax pellet type
	Starts to open		76 — 80°C (169 — 176°F)
	Fully opened		91°C (196°F)
	Valve lift		9.0 mm (0.354 in) or more
	Valve bore		35 mm (1.38 in)
Radiator fan	Motor		75 W (main fan) 75 W (sub fan)
	Fan diameter × Blade		300 mm (11.81 in) × 5 (main fan) 300 mm (11.81 in) × 4 (sub fan)
Radiator	Туре		Down flow, pressure type
	Core dimensions		691.5 × 340 × 16 mm (27.22 × 13.39 × 0.63 in)
	Pressure range in which cap valve is open		Above: 108±15 kPa (1.1±0.15 kg/cm², 16±2 psi) Below: -1.0 to -4.9 kPa (-0.01 to -0.05 kg/cm², -0.1 to -0.7 psi)
	Fins		Corrugated fin type
Reservoir tank	Capacity		0.5 ℓ (0.5 US qt, 0.4 Imp qt)

B: COMPONENT S176001A05

1. WATER PUMP S176001A0501



- (1) Water pump ASSY
- (2) Gasket
- (3) Heater by-pass hose
- (4) Thermostat

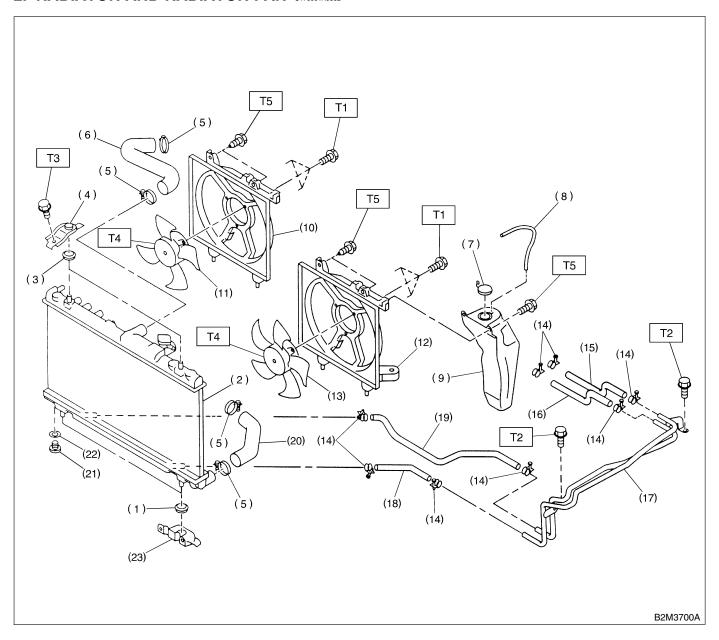
- (5) Gasket
- (6) Thermostat cover

Tightening torque: N·m (kgf-m, ft-lb)

T1: First 12 (1.2, 8.7) Second 12 (1.2, 8.7)

T2: 6.4 (0.65, 4.7)

2. RADIATOR AND RADIATOR FAN \$176001A0502



- (1) Radiator lower cushion
- (2) Radiator
- (3) Radiator upper cushion
- (4) Radiator upper bracket
- (5) Clamp
- (6) Radiator inlet hose
- (7) Engine coolant reservoir tank cap
- (8) Overflow hose
- (9) Engine coolant reservoir tank
- (10) Sub fan shroud
- (11) Radiator sub fan and sub fan motor ASSY

- (12) Main fan shroud
- (13) Radiator main fan and main fan motor ASSY
- (14) ATF hose clamp (AT vehicles only)
- (15) ATF inlet hose A (AT vehicles only)
- (16) ATF outlet hose A (AT vehicles only)
- (17) ATF pipe (AT vehicles only)
- (18) ATF outlet hose B (AT vehicles only)

- (19) ATF inlet hose B (AT vehicles only)
- (20) Radiator outlet hose
- (21) Radiator drain plug
- (22) O-ring
- (23) Radiator lower bracket

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 4.4 (0.45, 3.3)

T2: 12 (1.2, 8.7)

T3: 18 (1.8, 13.0)

T4: 3.4 (0.35, 2.5)

T5: 4.9 (0.50, 3.6)

C: CAUTION S176001A03

- Wear working clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.

- Be careful not to burn your hands, because each part in the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect ground cable from battery.

D: PREPARATION TOOL S176001A17

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499977100	CRANK PULLEY WRENCH	Used for stopping crankshaft pulley when loosening and tightening crankshaft pulley bolts.
B2M3870			
	499207100	CAMSHAFT SPROCKET WRENCH	Used for removing and installing camshaft sprocket.
B2M3859			