1. General Description

A: SPECIFICATION

Cooling system					Electric fan + Forced engine coolant circulation system
Total engine		L (US qt, Imp qt)	CVT model		Approx. 7.5 (7.9, 6.6)
coolant capacity		L (03 qi, imp qi)	MT model		Approx. 7.6 (8.0, 6.7)
Water pump	Туре				Centrifugal impeller type
	Discharge performance	Discharge rate L (US gal, Imp gal)/min		230 (60.8, 50.6)	
		Pump speed — Discharge pressure			6,600 rpm — 211.0 kPa (22 mAq)
		Engine coolant temperature			80°C (176°F)
	Impeller diameter		60 (2.36)		
	Number of impeller vanes				7
	Pump pulley diameter	130 (5.12)			
	Туре				Wax pellet type
	Starting temperature to o	open	87 — 91°C (189 — 196°F)		
Thermostat	Fully opens		98°C (208°F)		
	Valve lift		8.0 (0.315) or more		
	Valve opening size	32 (1.26)			
	Motor input	Main fan W			90
Radiator fan		Sub fan W			90
	Fan diameter/Blade	Main fan			300 mm (11.81 in)/4
	Fall ulainetei/blaue	Sub fan			300 mm (11.81 in)/5
Radiator	Туре				Down flow, pressure type
	Core dimensions	Width × Height × Thickness mm (in)			687.4 × 340 × 16 (27.06 × 13.39 × 0.63)
	Pressure range in which cap valve is open	kPa (kg/cm ² , psi)	Positive	Standard	93 — 123 (0.95 — 1.25, 14 — 18)
			pressure side	Limit	83 (0.85, 12)
			Negative pressure side	Standard	−1.0 to −4.9 or less (−0.01 — −0.05, −0.1 — −0.7)
	Fins	Corrugated fin type			
Reservoir tank	Capacity		L (US	qt, Imp qt)	0.45 (0.48, 0.40)

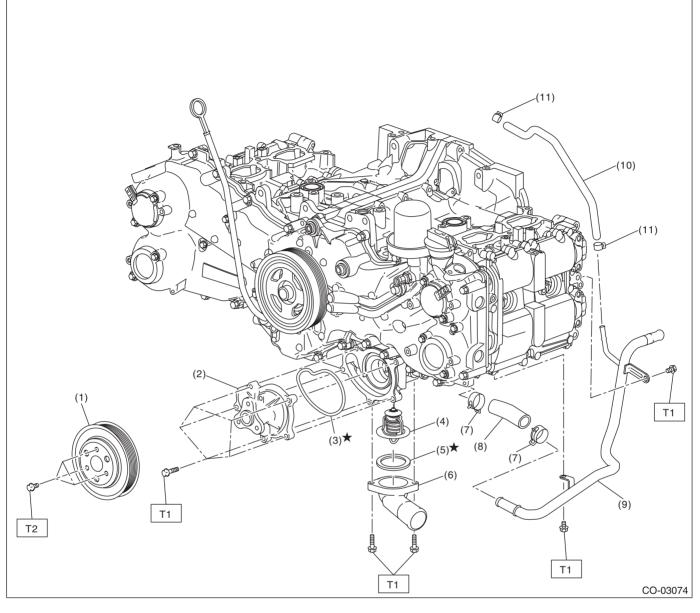
	Recommended materials	Item number	Alternative	
Coolant	SUBARU SUPER COOLANT (concentrated type)	-		
Coolant	SUBARU SUPER COOLANT (diluted type)	K0670Y0001		
Water for dilution	Distilled water	—	Soft water or tap water	
Cooling system protective agent	Cooling system conditioner	SOA345001	_	

General Description

COOLING

B: COMPONENT

1. WATER PUMP



(1) Water pump pulley

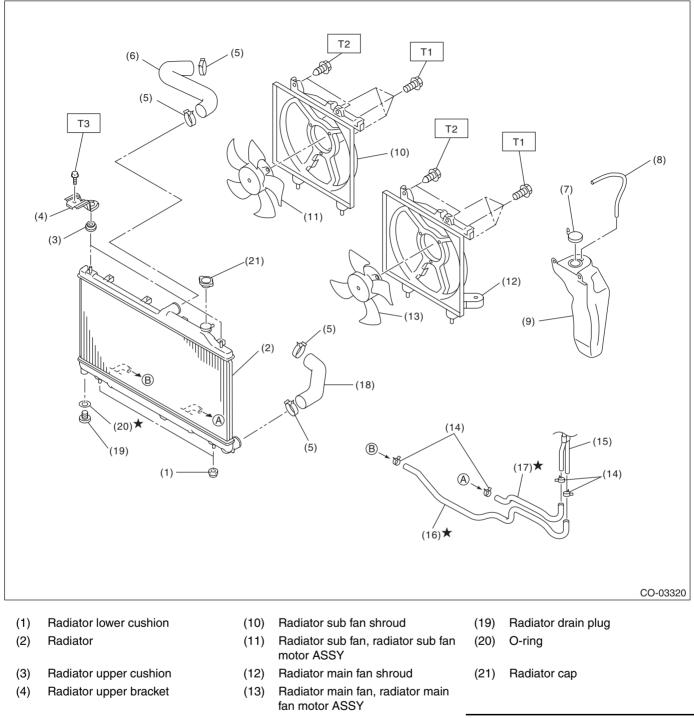
- (2) Water pump ASSY
- (3) Gasket
- (4) Thermostat
- (5) Gasket

- (6) Thermostat cover
- (7) Clip
- (8) Water pipe hose
- (9) Water pipe ASSY
- (10) Preheater hose

(11) Clip

Tightening torque: N⋅m (kgf-m, ft-lb) T1: 6.4 (0.7, 4.7) T2: 14 (1.4, 10.3)

2. RADIATOR & RADIATOR FAN



- (5) Clip
- (6) Radiator inlet hose
- (7) Engine coolant reservoir tank cap
- (8) Over flow hose
- (9) Engine coolant reservoir tank
- (14) CVTF hose clip (CVT model)
- (15) CVTF pipe (CVT model)
- (16) CVTF radiator inlet hose (CVT model)
- (17) CVTF radiator outlet hose (CVT model)

CO(H4DO)-4

(18) Radiator outlet hose

Tightening torque: N⋅m (kgf-m, ft-lb) T1: 5 (0.5, 3.7) T2: 7.5 (0.8, 5.5)

T3: 12 (1.2, 8.9)

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.

• Prepare a container and cloth to prevent scattering of engine coolant when performing work where engine coolant 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.
- Be sure to tighten the fasteners including bolts and nuts to the specified torque.
- Follow all government and local regulations concerning disposal of refuse when disposing engine coolant.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18355AA000	PULLEY WRENCH	Used for removing and installing water pump pulley.
ST18355AA000			
	18334AA030	PULLEY WRENCH PIN SET	Used for removing and installing water pump pulley.
	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.
ST1B022XU0			

2. GENERAL TOOL

TOOL NAME	REMARKS		
Circuit tester	Used for measuring resistance and voltage.		
Radiator cap tester	Used for checking radiator and radiator cap.		