1. General Description

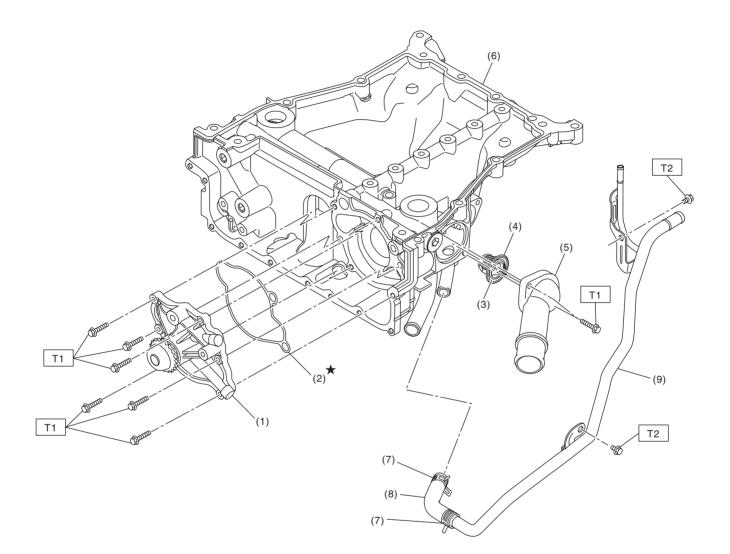
A: SPECIFICATION

Cooling syste	em	Electric fan + Forced engine coolant circulation system			
Total engine	coolant capacity	6.5 (6.9, 5.7)			
Water pump	Туре			Centrifugal impeller type	
	Discharge performance	Discharge rate	L (US gal, In	np gal)/min	240 (63.4, 52.8)
		Pump speed — Discharge pressure			4,956 rpm — 140 kPa (14.0 mAq)
		Engine coolant temperature			80°C (176°F)
	Impeller diameter mm (in)			mm (in)	66 (2.60)
	Number of impeller blades				8
	Pump sprocket ou	ter diameter	60.60 (2.39)		
	Туре				Wax pellet type
	Starting temperature to open				80 — 84°C (176 — 183°F)
Thermostat	Fully opens				95°C (203°F)
	Valve lift mm (in)				9.0 (0.354) or more
	Valve opening size mm (in)				35 (1.38)
	Motor input	Main fan W			200
Dedictoryfor		Sub fan W			200
Radiator fan	Fan diameter / Blade	Main fan			320 mm (12.6 in)/5
		Sub fan			320 mm (12.6 in)/7
	Туре				Down flow, pressure type
	Core dimensions	Width × Height × mm (in)			689.8 × 349.2 × 16 (27.16 × 13.75 × 0.63)
	Pressure range in which cap valve is open	kPa (kg/cm ² , psi)	Positive pressure side	Standard	93 — 123 (0.95 — 1.25, 14 — 18)
Radiator				Limit	83 (0.85, 12)
			Negative pressure side	Standard	-1.04.9 (-0.010.05, -0.10.7)
	Fins		Corrugated fin type		
Reservoir tank	Capacity L (US qt, Imp qt)				0.45 (0.48, 0.40)

	Recommended materials	Item number	Alternative	
Content	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	_	

B: COMPONENT

1. WATER PUMP AND WATER PIPE



CO-02862

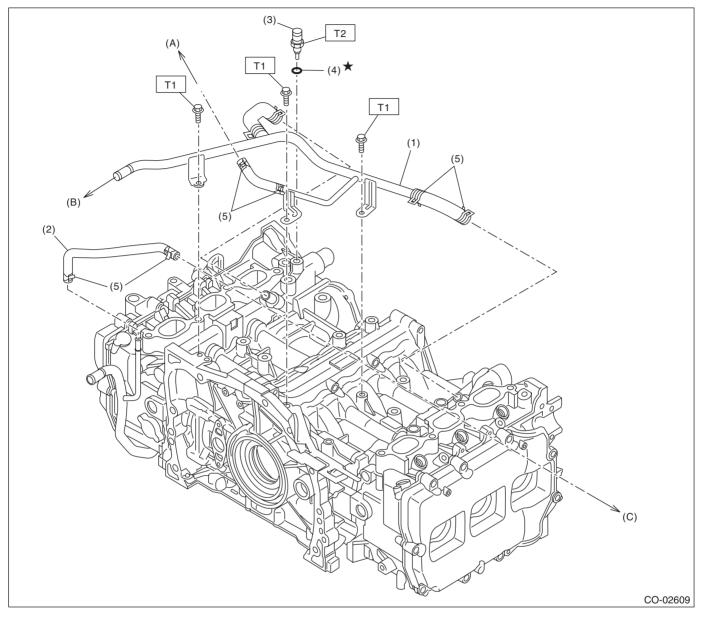
- (1) Water pump ASSY
- (2) Gasket
- (3) Thermostat
- (4) Gasket
- (5) Thermostat cover

- (6) Oil pan upper
- (7) Clip
- (8) Hose
- (9) Water return pipe

Tightening torque: N·m (kgf-m, ft-lb) T1: 6.4 (0.7, 4.7) T2: 16 (1.6, 11.8)

CO(H6DO)-3

2. ENGINE COOLANT TEMPERATURE SENSOR AND HEATER HOSE

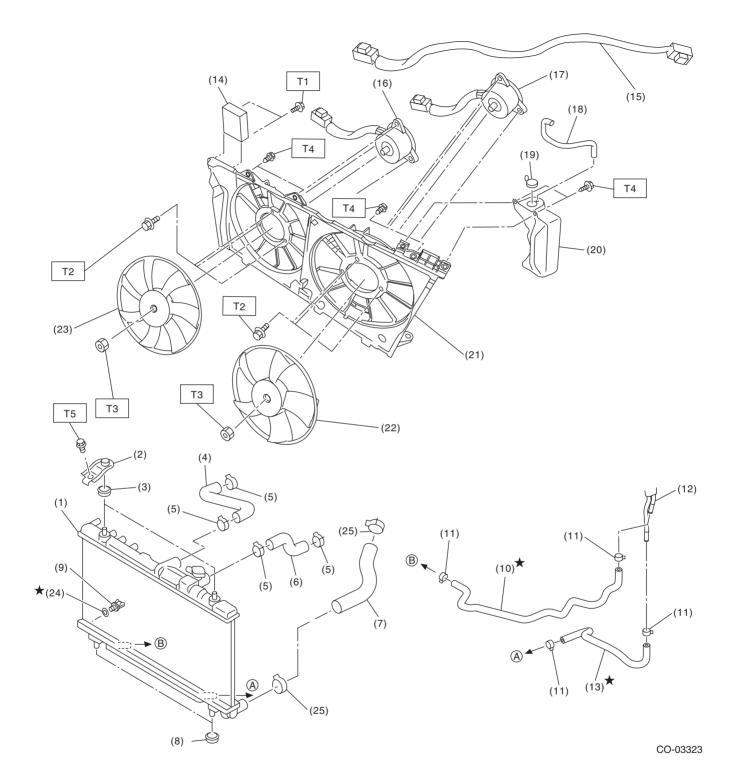


- (A) To the throttle body
- (B) To the heater hose on body side
- (C) To the throttle body

- (1) Heater pipe
- (2) Preheater hose
- (3) Engine coolant temperature sensor
- (4) Gasket
- (5) Clip

Tightening torque: N⋅m (kgf-m, ft-lb) T1: 19 (1.9, 14.0) T2: 22 (2.2, 16.2)

3. RADIATOR AND RADIATOR FAN



CO(H6DO)-5

General Description

COOLING

- (1) Radiator
- (2) Radiator upper bracket
- (3) Radiator upper cushion
- (4) Radiator inlet hose RH
- (5) Clip
- (6) Radiator inlet hose LH
- (7) Radiator outlet hose
- (8) Radiator lower cushion
- (9) Drain plug
- (10) ATF radiator inlet hose
- (11) ATF hose clip

- (12) ATF pipe
- (13) ATF radiator outlet hose
- (14) Radiator fan control unit
- (15) Radiator fan harness
- (16) Radiator sub fan motor
- (17) Radiator main fan motor
- (18) Over flow hose
- (19) Reservoir tank cap
- (20) Reservoir tank
- (21) Radiator fan shroud
- (22) Radiator main fan

- (23) Radiator sub fan
- (24) O-ring
- (25) Clip

Tighte	ening torque: N⋅m (kgf-m, ft-lb)
T1:	2.6 (0.3, 1.9)
T2:	3.8 (0.4, 2.8)
Т3:	6.3 (0.6, 4.6)
T4:	7.5 (0.8, 5.5)
T5:	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
	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.		