

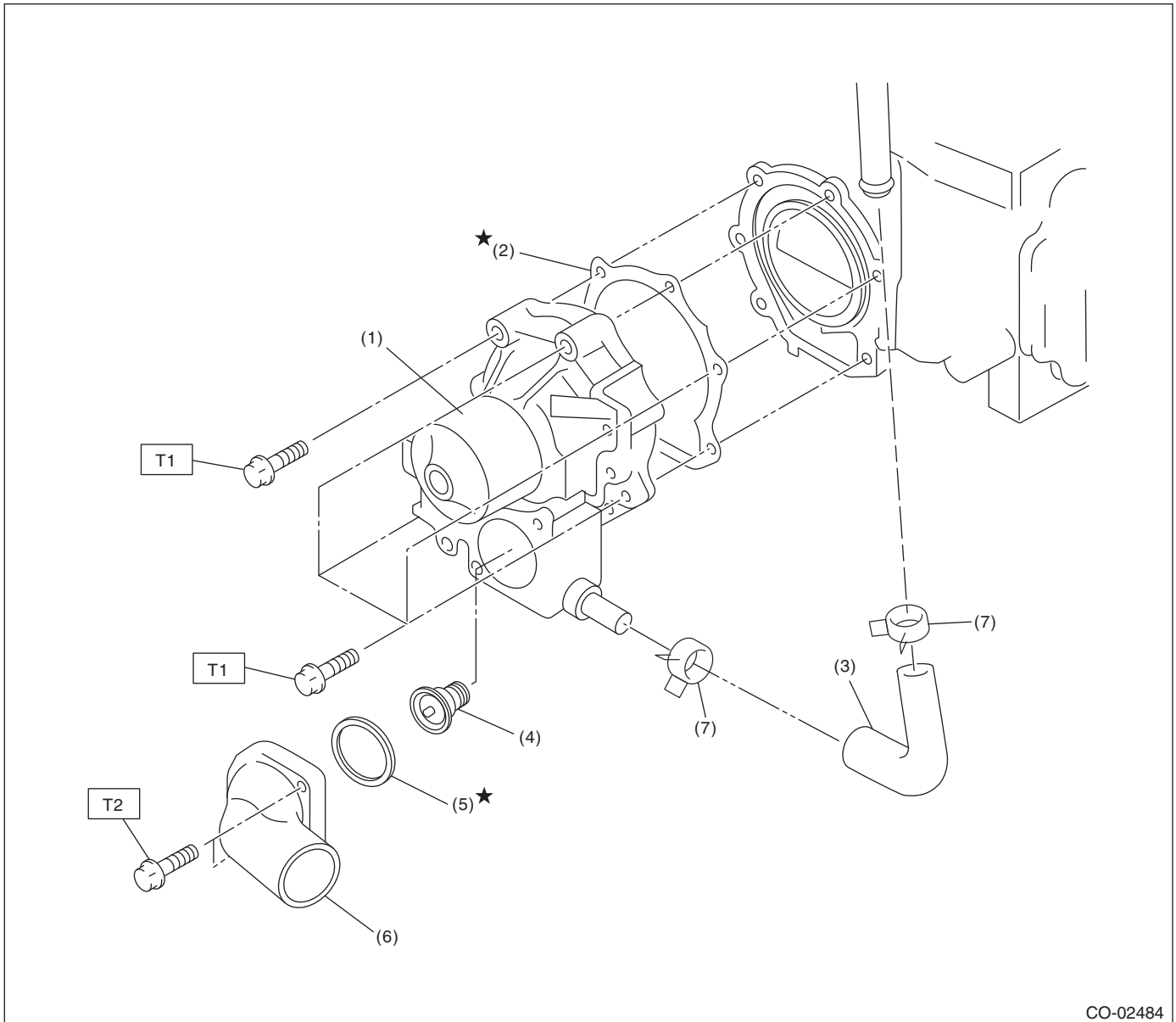
COOLING

A: SPECIFICATION

	Recommended materials	Item number	Alternative
Coolant	SUBARU SUPER COOLANT (concentrated type)	—	—
	SUBARU SUPER COOLANT (dilution type)	K0670Y0000	
Water for dilution	Distilled water	—	Soft water or tap water
Cooling system protective agent	Cooling system conditioner	SOA345001	—

B: COMPONENT

1. WATER PUMP



- | | |
|-------------------------|----------------------|
| (1) Water pump ASSY | (5) Gasket |
| (2) Gasket | (6) Thermostat cover |
| (3) Heater by-pass hose | (7) Clip |
| (4) Thermostat | |

Tightening torque: N·m (kgf-m, ft-lb)

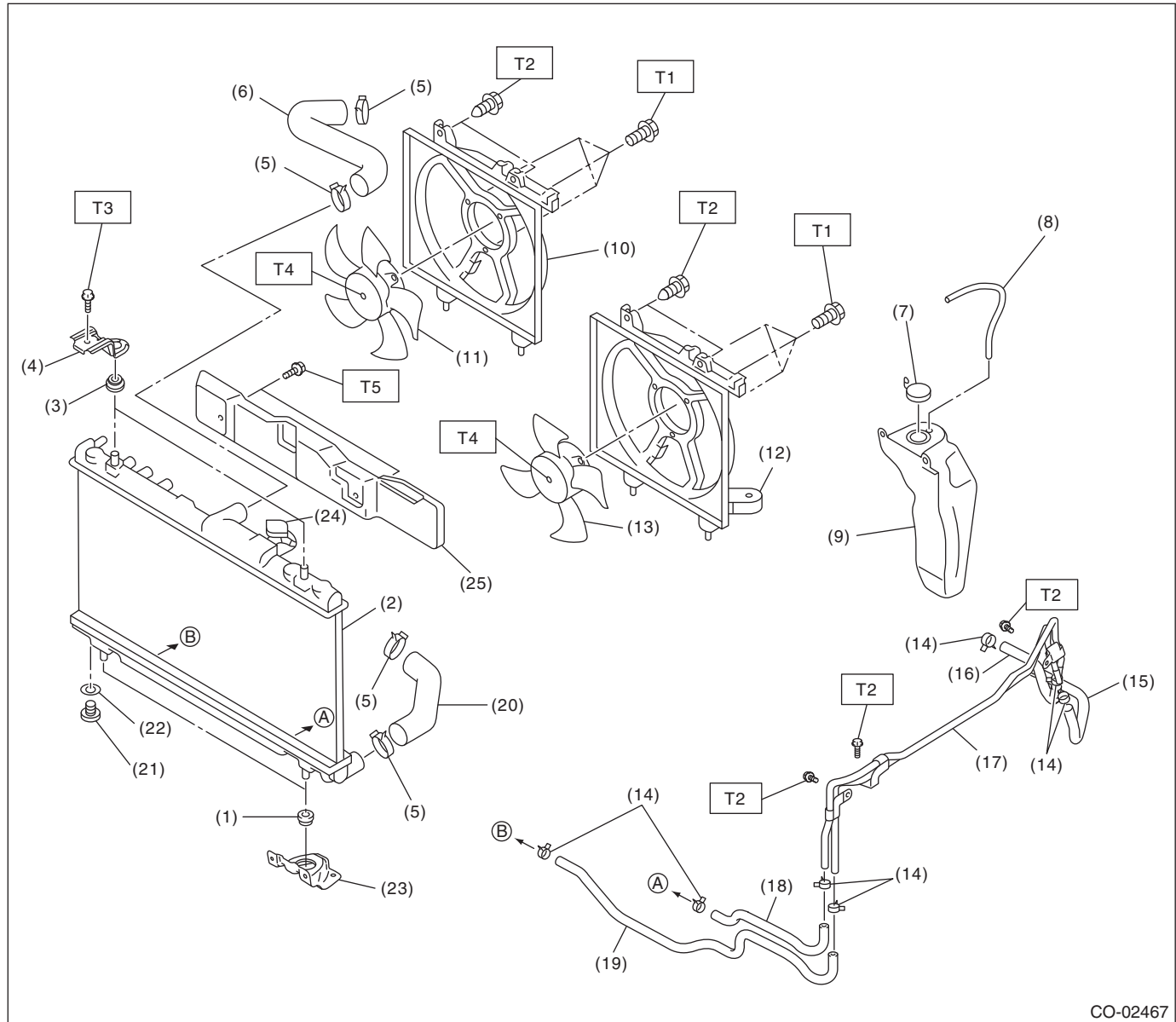
T1: First 12 (1.2, 8.9)
Second 12 (1.2, 8.9)

T2: 12 (1.2, 8.9)

General Description

COOLING

2. RADIATOR & RADIATOR FAN



CO-02467

(1) Radiator lower cushion	(12) Radiator main fan shroud	(22) O-ring
(2) Radiator	(13) Radiator main fan, radiator main fan motor ASSY	(23) Radiator lower bracket
(3) Radiator upper cushion	(14) ATF hose clamp (AT model)	(24) Radiator cap
(4) Radiator upper bracket	(15) ATF hose A (AT model)	(25) Heat shield cover (AT model)
(5) Clamp	(16) ATF hose B (AT model)	
(6) Radiator inlet hose	(17) ATF pipe (AT model)	
(7) Engine coolant reservoir tank cap	(18) ATF hose C (AT model)	
(8) Over flow hose	(19) ATF hose D (AT model)	
(9) Engine coolant reservoir tank	(20) Radiator outlet hose	
(10) Radiator sub fan shroud	(21) Radiator drain plug	
(11) Radiator sub fan, radiator sub fan motor ASSY		

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)

T4: 3.4 (0.3, 2.5)

T5: 3 (0.3, 2.2)

C: CAUTION

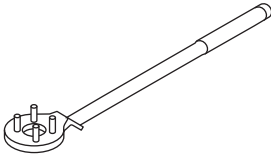
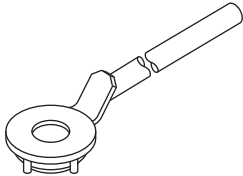
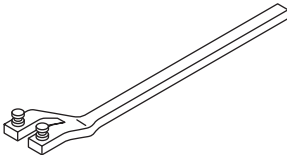
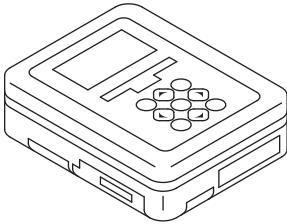
- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from the battery.
- Prepare a container and cloth to prevent scattering of engine coolant when performing work where engine coolant can be spilled. If the fuel spills, wipe it off immediately to prevent from penetrating into floor or flowing out for environmental protection.
- Follow all government and local regulations concerning disposal of refuse when disposing engine coolant.

General Description

COOLING

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499977100	499977100	CRANK PULLEY WRENCH	Used to stop rotation of the crank pulley when loosening or tightening crank pulley bolts. (MT model)
 ST-499977400	499977400	CRANK PULLEY WRENCH	Used to stop rotation of the crank pulley when loosening or tightening crank pulley bolts. (AT model)
 ST18231AA010	18231AA010	CAM SPROCKET WRENCH	- Used for removing and installing cam sprocket. - CAM SPROCKET WRENCH (499207100) can also be used.
 ST1B022XU0	1B022XU0 (Newly adopted tool)	SUBARU SELECT MONITOR III KIT	Used for troubleshooting for electrical system.