- **Outside temperature: less than 35°C (95°F)**

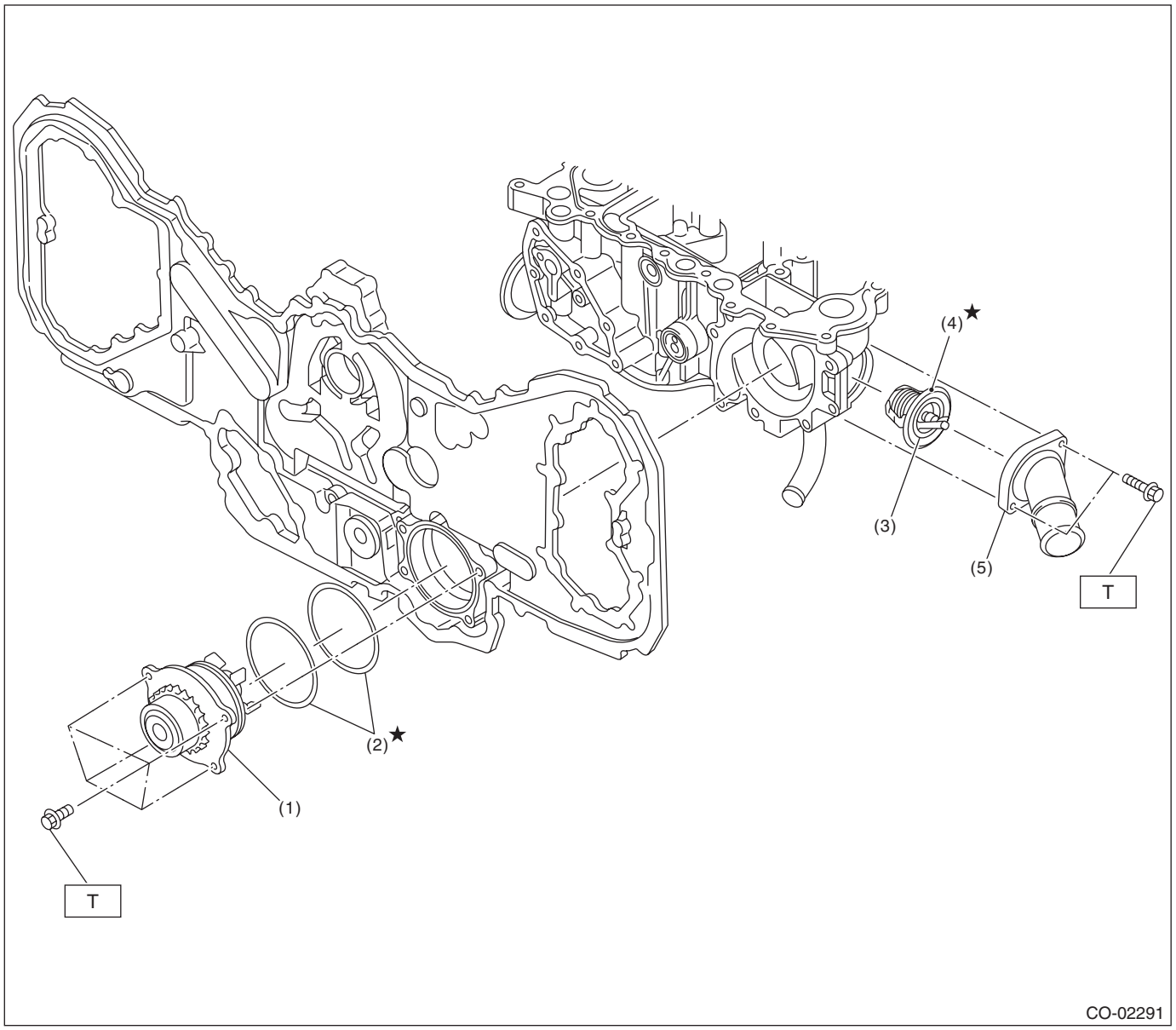
Vehicle speed	A/C compressor load	Engine coolant temperature		
		Increase: less than 98°C (208°F) Decrease: less than 96°C (205°F)	Increase: 98 — 101°C (208 — 214°F) Decrease: 96 — 97°C (205 — 207°F)	Increase: more than 101°C (214°F) Decrease: more than 97°C (207°F)
		Radiator fan operation	Radiator fan operation	Radiator fan operation
Driving speed 19 km/h (12 MPH) or less Driving speed 10 km/h (6 MPH) or less	OFF	OFF	Low-Speed	High-Speed
	Low	Low-Speed	Low-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
During acceleration: 20-69 km/h (12-43 MPH) During deceleration: 11-64 km/h (7-40 MPH)	OFF	OFF	Low-Speed	High-Speed
	Low	Low-Speed	Low-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
During acceleration: 70-105 km/h (43-65 MPH) During deceleration: 65-103 km/h (40-64 MPH)	OFF	OFF	Low-Speed	High-Speed
	Low	OFF	Low-Speed	High-Speed
	High	Low-Speed	High-Speed	High-Speed
During acceleration: 106 km/h (66 MPH) or more During deceleration: 104 km/h (65 MPH) or more	OFF	OFF	Low-Speed	High-Speed
	Low	OFF	Low-Speed	High-Speed
	High	Low-Speed	Low-Speed	High-Speed

- **Outside temperature: 35°C (95°F) or more.**

Vehicle speed	A/C compressor load	Engine coolant temperature		
		Increase: less than 98°C (208°F) Decrease: less than 96°C (205°F)	Increase: 98 — 101°C (208 — 214°F) Decrease: 96 — 97°C (205 — 207°F)	Increase: more than 101°C (214°F) Decrease: more than 97°C (207°F)
		Radiator fan operation	Radiator fan operation	Radiator fan operation
Driving speed 19 km/h (12 MPH) or less Driving speed 10 km/h (6 MPH) or less	OFF	OFF	Low-Speed	High-Speed
	Low	Low-Speed	Low-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
During acceleration: 20-69 km/h (12-43 MPH) During deceleration: 11-64 km/h (7-40 MPH)	OFF	OFF	Low-Speed	High-Speed
	Low	High-Speed	High-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
During acceleration: 70-105 km/h (43-65 MPH) During deceleration: 65-103 km/h (40-64 MPH)	OFF	OFF	Low-Speed	High-Speed
	Low	High-Speed	High-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
During acceleration: 106 km/h (66 MPH) or more During deceleration: 104 km/h (65 MPH) or more	OFF	OFF	Low-Speed	High-Speed
	Low	OFF	Low-Speed	High-Speed
	High	Low-Speed	Low-Speed	High-Speed

B: COMPONENT

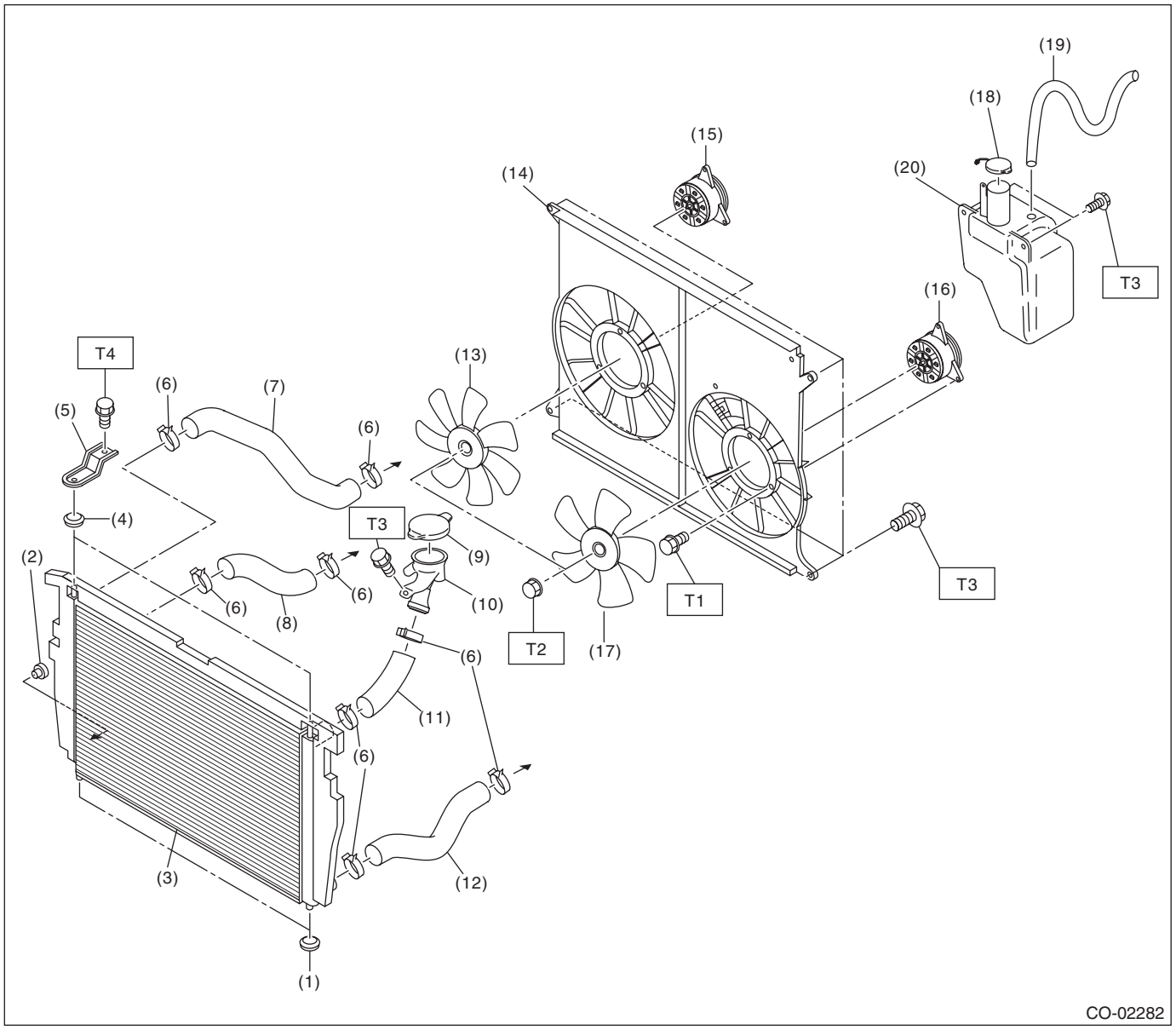
1. WATER PUMP



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

Tightening torque: N·m (kgf-m, ft-lb)
T: 6.4 (0.65, 4.7)

2. RADIATOR AND RADIATOR FAN



(1) Radiator lower cushion
(2) Engine coolant drain cock
(3) Radiator
(4) Radiator upper cushion
(5) Radiator upper bracket
(6) Clamp
(7) Radiator hose A
(8) Radiator hose B
(9) Radiator cap
(10) Radiator hose bracket
(11) Radiator hose C
(12) Radiator hose D
(13) Radiator sub fan
(14) Radiator fan shroud
(15) Radiator sub fan motor
(16) Radiator main fan motor
(17) Radiator main fan
(18) Engine coolant reservoir tank cap
(19) Over flow hose
(20) Engine coolant reservoir tank

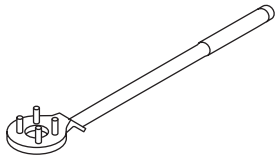
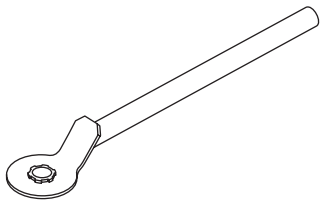
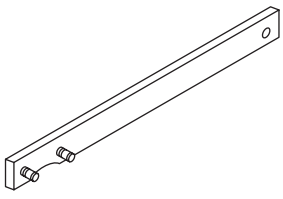
Tightening torque:N·m (kgf-m, ft-lb)
T1: 3.8 (0.39, 2.8)
T2: 6.3 (0.64, 4.6)
T3: 7.5 (0.76, 5.5)
T4: 12 (1.2, 8.9)

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.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499977100	499977100	CRANK PULLEY WRENCH	Used for stopping rotation of crank pulley when loosening and tightening crank pulley bolts.
 ST-499977500	499977500	CAM SPROCKET WRENCH	Used for removing and installing intake cam sprocket.
 ST18231AA020	18231AA020	CAM SPROCKET WRENCH	Used for removing and installing exhaust cam sprocket.

2. GENERAL TOOL

TOOL NAME	REMARKS
Radiator cap tester	Used for measuring pressure.