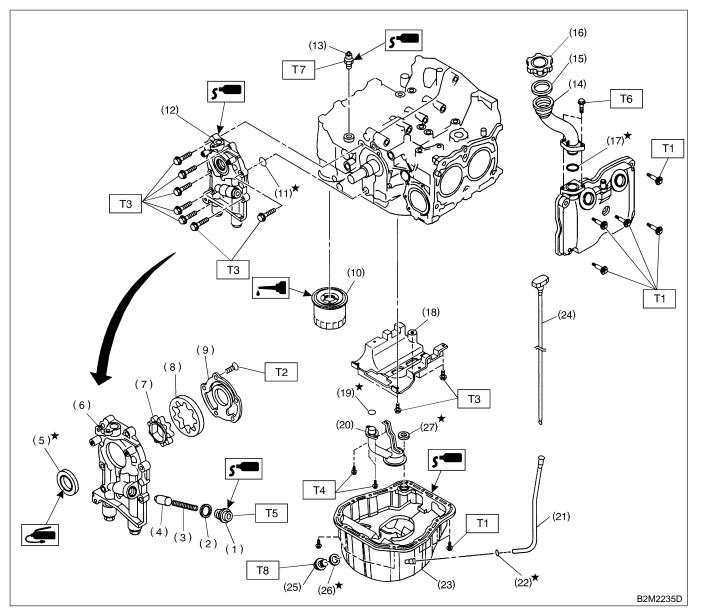
1. General Description STOBOOT

A: SPECIFICATIONS S108001E49

Lubrication me	ethod				Forced lubrication
	Pump type				Trochoid type
Oil pump	Number of teeth		Inner rotor		9
			Outer rotor		10
	Outer rotor diameter × thickness				$78 \times 9 \text{ mm} (3.07 \times 0.35 \text{ in})$
	Tip clearance between inner and outer rotor			STANDARD	0.04 — 0.14 mm (0.0016 — 0.0055 in)
				LIMIT	0.18 mm (0.0071 in)
	Side clearance	between inner ro	otor and pump	STANDARD	0.02 — 0.07 mm (0.0008 — 0.0028 in)
	case			LIMIT	0.12 mm (0.0047 in)
	Case clearance between outer rotor and pump case			STANDARD	0.10 — 0.175 mm (0.0039 — 0.0069 in)
				LIMIT	0.20 mm (0.0079 in)
	Capacity at 80°C (176°F)	700 rpm	Discharge	- pressure	98 kPa (1.0 kg/cm ² , 14 psi)
				- quantity	4.2 ℓ (4.4 US qt, 3.7 Imp qt)/min.
		5,000 rpm	Discharge	- pressure	294 kPa (3.0 kg/cm ² , 43 psi)
				- quantity	42.0 ℓ (11.10 US gal, 9.24 Imp gal)/min.
	Relief valve op	eration pressure	490 kPa (5.0 kg/cm ² , 71 psi)		
Oil filter	Туре		Full-flow filter type		
	Filtration area		1,000 cm ² (155 sq in)		
	By-pass valve opening pressure				157 kPa (1.6 kg/cm ² , 23 psi)
	Outer diameter	\times width	80×70 mm (3.15 \times 2.76 in)		
	Oil filter to eng	ine thread size	M 20 × 1.5		
Relief valve (c	on rocker shaft) op	69 kPa (0.7kg/cm ² , 10 psi)			
Oil pressure switch	Туре				Immersed contact point type
	Working voltag	e — wattage	12 V — 3.4 W or less		
	Warning light activation pressure				14.7 kPa (0.15 kg/cm ² , 2.1 psi)
	Proof pressure				More than 981 kPa (10 kg/cm ² , 142 psi)
Oil capacity (at replacement)					4.0 ℓ (4.2 US qt, 3.5 Imp qt)

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B: COMPONENT S108001A05



- (1) Plug
- (2) Washer
- (3) Relief valve spring
- (4) Relief valve
- (5) Oil seal
- (6) Oil pump case
- (7) Inner rotor
- (8) Outer rotor
- (9) Oil pump cover
- (10) Oil filter
- (11) O-ring
- (12) Oil pump ASSY
- (13) Oil pressure switch

- (14) Oil filler duct
- (15) O-ring
- (16) Oil filler cap
- (17) O-ring
- (18) Baffle plate
- (19) O-ring
- (20) Oil strainer
- (21) Oil level gauge guide
- (22) O-ring
- (23) Oil pan
- (24) Oil level gauge
- (25) Drain plug
- (26) Metal gasket

(27) Gasket

Tightening torque: N·m (kgf-m, ft-lb) T1: 5 (0.5, 3.6) T2: 5 (0.5, 3.6) T3: 6.4 (0.65, 4.7) T4: 10 (1.0, 7.2) T5: 44.1 (4.5, 32.5) T6: 6.4 (0.65, 4.7) T7: 25 (2.5, 18.1) T8: 44 (4.5, 33)

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C: CAUTION S108001A03

• 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 negative terminal from battery.

D: PREPARATION TOOL S108001A17

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
U A	499977100	CRANK PULLEY WRENCH	Used for stopping rotation of crankshaft pulley when loosening and tightening crankshaft pulley bolt.
B2M3870	498547000		Used for removing and installing oil filter.
B2M3872		OIL FILTER WRENCH	
B2M3875	499587100	OIL SEAL INSTALLER	Used for installing oil pump oil seal.

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