

GENERAL DESCRIPTION

LUBRICATION

1. General Description

A: SPECIFICATIONS

Lubrication method		Forced lubrication		
Oil pump	Pump type	Trochoid type		
	Number of teeth	Inner rotor	9	
		Outer rotor	10	
	Outer rotor diameter × thickness		78 × 11 mm (3.07 × 0.43 in)	
	Tip clearance between inner and outer rotor	Standard	0.04 — 0.14 mm (0.0016 — 0.0055 in)	
		Limit	0.20 mm (0.0079 in)	
	Side clearance between inner rotor and pump case	Standard	0.02 — 0.08 mm (0.0008 — 0.0031 in)	
		Limit	0.15 mm (0.0059 in)	
Case clearance between outer rotor and pump case	Standard	0.11 — 0.18 mm (0.0043 — 0.0071 in)		
	Limit	0.25 mm (0.0098 in)		
Oil filter	Type	Full-flow filter type		
	Filtration area	1,300 cm ² (201.5 sq in)		
	By-pass valve opening pressure	160 kPa (1.63 kg/cm ² , 23 psi)		
	Outer diameter × width	80 × 75 mm (3.15 × 2.95 in)		
	Oil filter to engine thread size	M 20 × 1.5		
Relief valve peration pressure		588 kPa (6 kg/cm ² , 85 psi)		
Oil pressure switch	Type	Immersed contact point type		
	Working voltage — wattage	12 V — 3.4 W or less		
	Warning light activation pressure	15 kPa (0.153 kg/cm ² , 2.18 psi)		
	Proof pressure	More than 980 kPa (9.993 kg/cm ² , 142 psi)		
Oil capacity	Total capacity	6.6 L (7.0 US qt, 5.8 Imp qt)		
	Engine oil amount for refill	5.6 L (5.9 US qt, 4.9 Imp qt)		

GENERAL DESCRIPTION

LUBRICATION

MEMO:

LU(H6DO)-3

GENERAL DESCRIPTION

LUBRICATION

(1) Oil pan lower	(13) Relief valve case gasket	<i>Tightening torque: N·m (kgf-m, ft-lb)</i>
(2) Magnet	(14) Chain guide (center)	<i>T1: 6.4 (0.65, 4.7)</i>
(3) Drain plug	(15) Crank sprocket	<i>T2: 7.8 (0.80, 5.8)</i>
(4) Gasket	(16) Oil pump cover	<i>T3: 18 (1.8, 13)</i>
(5) Oil cooler pipe	(17) Inner rotor	<i>T4: 25 (2.5, 18)</i>
(6) Hose	(18) Outer rotor	<i>T5: 34 (3.5, 25)</i>
(7) Clamp	(19) Oil pan upper	<i>T6: 37 (3.8, 27)</i>
(8) O-ring	(20) Plug	<i>T7: 44 (4.5, 33)</i>
(9) Oil cooler	(21) Oil pressure switch	<i>T8: 54 (5.5, 40)</i>
(10) Connector	(22) Plug	
(11) Oil filter	(23) Oil strainer	
(12) Relief valve case		

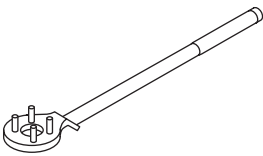
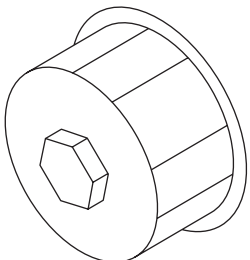
GENERAL DESCRIPTION

LUBRICATION

C: CAUTION

- 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 ground cable from battery.

D: PREPARATION TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499977100	499977100	CRANK PULLEY WRENCH	Used for stopping rotation of crankshaft pulley when loosening and tightening crankshaft pulley bolt.
 ST-498547000	498547000	OIL FILTER WRENCH	Used for removing and installing oil filter.