

1ZZ-FE LUBRICATION

SERVICE DATA

Oil pressure	at idle speed	29 kPa (0.3 kgf/cm ² , 4.3 psi) or more
	at 3,000 rpm	294 to 539 kPa (3.0 to 5.5 kgf/cm ² , 43 to 78 psi)
Oil pump assembly		
Tip clearance	Standard	0.040 to 0.160 mm (0.0016 to 0.0063 in.)
	Maximum	0.160 mm (0.0063 in.)
Side clearance	Standard	0.025 to 0.071 mm (0.0010 to 0.0028 in.)
	Maximum	0.071 mm (0.0028 in.)
Body clearance	Standard	0.260 to 0.325 mm (0.0102 to 0.0128 in.)
	Maximum	0.325 mm (0.0128 in.)

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TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft*lbf
Oil pressure switch x Crankshaft bearing cap sub-assembly	15	153	11
Oil pump assembly x Cylinder block sub-assembly	9.0	92	80 in.*lbf
Chain vibration damper No. 1 x Cylinder head sub-assembly	9.0	92	80 in.*lbf
Chain vibration damper No. 1 x Cylinder block sub-assembly	9.0	92	80 in.*lbf
Battery negative terminal x Battery	5.4	55	48 in.*lbf
Front wheel RH x Front axle hub sub-assembly RH	103	1,050	76
Oil pump relief valve plug x Oil pump body	37	377	27
Oil pump cover x Oil pump body	10	102	7
Oil pan drain plug x Oil pan sub-assembly	37	377	27
Oil filter sub-assembly x Oil filter union	13	133	10

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