

**GENERAL INFORMATION**

<b>CLUTCH/GEARSHIFT LINKAGE</b>		Unit: mm (in)	
<b>ITEM</b>		<b>STANDARD</b>	<b>SERVICE LIMIT</b>
Recommended clutch fluid		DOT 4 brake fluid	
Clutch master cylinder	Cylinder I.D.	12.700 – 12.743 (0.5000 – 0.5017)	12.76 (0.502)
	Piston O.D.	12.657 – 12.684 (0.4983 – 0.4994)	12.65 (0.498)
Clutch spring free length		57.4 (2.26)	56.2 (2.21)
Clutch disc thickness	A1	3.72 – 3.88 (0.146 – 0.153)	3.5 (0.14)
	A2	3.72 – 3.88 (0.146 – 0.153)	3.5 (0.14)
Clutch plate warpage			0.30 (0.012)
Clutch outer guide	I.D.	28.000 – 28.021 (1.1024 – 1.1032)	28.031 (1.1036)
	O.D.	34.975 – 34.991 (1.3770 – 1.3776)	34.965 (1.3766)
Mainshaft O.D. at clutch outer guide		27.980 – 27.993 (1.1016 – 1.1021)	27.970 (1.1012)
Shift fork, fork shaft	Fork	I.D.	12.000 – 12.021 (0.4724 – 0.4733)
		Claw thickness	5.93 – 6.00 (0.233 – 0.236)
	Fork shaft O.D.	11.957 – 11.968 (0.4707 – 0.4712)	11.95 (0.470)

<b>ALTERNATOR/STARTER CLUTCH</b>		Unit: mm (in)	
<b>ITEM</b>		<b>STANDARD</b>	<b>SERVICE LIMIT</b>
Starter driven gear boss O.D.		51.699 – 51.718 (2.0354 – 2.0361)	51.684 (2.0348)

<b>CRANKCASE/PISTON/CYLINDER</b>		Unit: mm (in)		
<b>ITEM</b>		<b>STANDARD</b>	<b>SERVICE LIMIT</b>	
Cylinder	I.D.	79.000 – 79.015 (3.1102 – 3.1108)	79.10 (3.114)	
	Out of round		0.10 (0.004)	
	Taper		0.10 (0.004)	
	Warpage		0.05 (0.002)	
Piston, piston rings	Piston mark direction		"IN" mark facing toward the intake side	
	Piston O.D.		78.970 – 78.990 (3.1090 – 3.1098)	
	Piston O.D. measurement point		15 mm (0.6 in) from bottom of skirt	
	Piston pin bore I.D.		19.002 – 19.008 (0.7481 – 0.7483)	
	Piston pin O.D.		18.994 – 19.000 (0.7478 – 0.7480)	
	Piston-to-piston pin clearance		0.002 – 0.014 (0.0001 – 0.0006)	
	Piston ring-to-ring groove clearance	Top	0.030 – 0.065 (0.0012 – 0.0026)	0.08 (0.003)
		Second	0.015 – 0.045 (0.0006 – 0.0018)	0.06 (0.002)
	Piston ring end gap	Top	0.20 – 0.35 (0.008 – 0.014)	0.5 (0.02)
		Second	0.40 – 0.55 (0.016 – 0.022)	0.7 (0.03)
Oil (side rail)		0.2 – 0.8 (0.01 – 0.03)	1.0 (0.04)	
Cylinder to piston clearance		0.010 – 0.045 (0.0004 – 0.0018)		
Connecting rod small end I.D.		19.030 – 19.051 (0.7492 – 0.7500)	19.061 (0.7504)	
Connecting rod-to-piston pin clearance		0.030 – 0.057 (0.0012 – 0.0022)		
Crankpin oil clearance		0.030 – 0.052 (0.0012 – 0.0020)	0.062 (0.0024)	