

GENERAL INFORMATION

CLUTCH/GEARSHIFT LINKAGE			Unit: mm (in)	
ITEM		STANDARD	SERVICE LIMIT	
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)	

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

CRANKCASE/PISTON/CYLINDER			Unit: mm (in)		
ITEM		STANDARD	SERVICE LIMIT		
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)	78.90 (3.106)	
	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)	19.03 (0.749)	
	Piston pin O.D.		18.994 – 19.000 (0.7478 – 0.7480)	18.984 (0.7474)	
	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)			