

# 6-120 POWERHEAD

## ENGINE SPECIFICATIONS - 40 HP (592cc) ENGINES

Component	U.S. (in.) ①	Metric (mm) ①
<b>Cylinder Bore</b>		
Standard Bore Diameter	2.953-2.954	75.00-75.02
Wear Limit (1996 and later models)	2.96	75.1
Out-of-round		
Service Limit	0.002	0.05
Taper		
Service Limit	0.003	0.08
<b>Cylinder Head</b>		
Gasket Surface Warpage Limit	0.004	0.1
<b>Crankshaft</b>		
Crank Width		
Width around 1 crankpin (1989-95 only)	2.372-2.382	60.25-60.50
Total width around both crankpins		
1989-95	6.050-6.063	153.68-154.00
1996 and later	6.150-6.170	156.30-166.70
Runout		
Limit		
1989-95	0.001	0.02
1996 and later	0.002	0.05
Connecting Rod (1996 and later only)		
Big End Side Clearance	0.005-0.010	0.12-0.26
Small End Freeplay Limit	0.08	2.0
<b>Piston</b>		
Standard Size	2.9506-2.9516	74.945-74.970
Measuring Point (above bottom of skirt)	0.39	10.0
Clearance	0.0020-0.0022	0.050-0.055
Service Limit	0.0041	0.105
Piston Pin (1996 and later models)		
Pin Diameter	0.7833-0.7835	19.895-19.900
Pin Boss Inner Diameter in Piston	0.7833-0.7835	19.895-19.900
Offset (models through 1995)	Exhaust Side 0.059	Exhaust Side 1.5
Oversize (check availability)		
1st	2.84	72.25
2nd	2.85	72.50
<b>Piston Rings</b>		
Both (Top and Bottom) Rings		
Width (measured from outer-to-inner edge of ring)	0.102	2.6
Thickness (measured vertically top-to-bottom of ring)		
Top Ring	0.059	1.5
Bottom Ring	0.079	2.0
End Gap		
Installed Gap		
Both (Top and Bottom) Rings	0.012-0.020	0.30-0.50
Limit (1996 and later)	0.028	0.70
Ring Side Clearance		
Top Ring	0.0008-0.0024	0.02-0.06
Bottom Ring	0.0012-0.0028	0.03-0.07
<b>Reed Valve</b>		
Thickness (models through 1995 only)	0.008	0.20
Lift (height)	0.19-0.21	4.8-5.2
Warpage (limit)		
1989-95	0.028	0.7
1996 and later models	0.008	0.2

① Unless otherwise noted