

Item	Standard value	Serviceable limit
Piston ring		
Ring side clearance (top)	0.0016~0.0028 in. 0.04~0.07 mm	0.0071 in. 0.18 mm
Ring side clearance (second)	0.001~0.0022 in. 0.025~0.055 mm	0.0065 in. 0.165 mm
Ring side clearance (oil)	0.0004~0.0016 in. 0.010~0.04 mm	0.0055 in. 0.14 mm
End gap (top and second)	0.0079~0.016 in. 0.2~0.4 mm	0.0028 in. 0.7 mm
End gap (oil)	0.0004~0.0012 in. 0.1~0.3 mm	0.0028 in. 0.7 mm
Crankshaft		
Journal diameter	1.4169~1.4173 in. 35.99~36.00 mm	1.415 in. 35.94 mm
Crank pin diameter	1.4169~1.4173 in. 35.99~36.00 mm	1.415 in. 35.94 mm
Shaft to bearing clearance	0.0008~0.0018 in. 0.02~0.046 mm	0.0032 in. 0.08 mm
Connecting rod		
Small end diameter	0.5912~0.5919 in. 15.016~15.034 mm	0.5933 in. 15.07 mm
Bearing oil clearance	0.0008~0.0018 in. 0.02~0.046 mm	0.0032 in. 0.08 mm
Large end diameter	Select fit, refer to page 43~44.	Select fit, refer to page 43~44.
Number of teeth of kick starter gear	63 teeth	—
Kick starter gear		
Inner diameter	0.7866~0.789 in. 19.98~20.041 mm	0.790 in. 20.075 mm
Shaft outer diameter	0.7858~0.7866 in. 19.959~19.98 mm	0.7847 in. 19.93 mm

DIAGNOSIS

Trouble	Probable Causes	Remedy
Engine does not start	Valve Mechanism <ol style="list-style-type: none"> Excessive by worn piston ring and cylinder Seized valve Seized piston Valve timing out of adjustment Low or lack of compression pressure <ul style="list-style-type: none"> Pressure leak Defective cylinder head gasket Warped gasketing surface of the cylinder and cylinder head 	<p>Replace.</p> <p>Replace.</p> <p>Replace.</p> <p>Adjust, (Refer to page 31~32).</p> <p>Grind the valve to obtain good valve seating or replace.</p> <p>Replace.</p> <p>Repair or replace.</p>