

CYLINDER/PISTON

SERVICE INFORMATION	7-1	PISTON REMOVAL	7-3
TROUBLESHOOTING	7-2	PISTON INSTALLATION	7-7
CYLINDER REMOVAL	7-3	CYLINDER INSTALLATION	7-7

SERVICE INFORMATION

SPECIFICATIONS

unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Cylinder	I.D.	97.000–97.010 (3.8189–3.8193)	97.12 (3.824)
	Taper	—	0.05 (0.002)
	Out of round	—	0.05 (0.002)
	Warpage across top	—	0.10 (0.004)
Piston, piston rings and piston pin	Piston O.D. at skirt	96.96–96.99 (3.8173–3.8184)	96.86 (3.813)
	Piston pin bore	24.002–24.008 (0.9450–0.9452)	24.03 (0.946)
	Piston pin-to-piston clearance	0.007–0.019 (0.0003–0.0007)	0.07 (0.003)
Piston ring end gap	Top	0.02–0.40 (0.008–0.016)	0.50 (0.020)
	Second	0.35–0.55 (0.014–0.022)	0.65 (0.026)
	Oil (Side rail)	0.2–0.9 (0.01–0.03)	—
Piston ring-to-groove clearance	Top	0.015–0.045 (0.0006–0.0018)	0.12 (0.006)
	Second	0.015–0.045 (0.0006–0.0018)	0.12 (0.006)
Cylinder-to-piston clearance		0.01–0.05 (0.0004–0.0020)	0.10 (0.004)
Piston pin O.D.		23.989–23.995 (0.9444–0.9447)	23.96 (0.943)
Connecting rod small end I.D.		24.020–24.041 (0.9457–0.9465)	24.07 (0.948)