

04-11 Rx8

Side Housing Inspection		
Max Distortion		0.0016" (0.04mm)
Max Vertical Wear		0.0039" (0.10mm)
Oil Seal Inner Path Max Convex Oval Wear		0.0004" (0.01mm)
Oil Seal Outer Path Max Convex Oval Wear		0.0039" (0.10mm)
Oil Seal Stepped Path Max Wear		0.0008" (0.02mm)
Rotor Housing		
Max Width Difference		0.0024" (0.06mm)
Rotor		
Rotor & Side Housing Clearance		
	Standard	0.002" – 0.0074" (0.05mm – 0.19mm)
	Max	0.002" (0.05mm)
Protrusion of the Rotor Round		
	Standard	0.0048" – 0.007" (0.12mm – 0.18mm)
	Minimum	0.0039" (0.1mm)
Apex Seal Groove & the Apex Seal Clearance		
	Standard	0.0017" – 0.003" (0.042mm – 0.077mm)
	Max	0.0059" (0.15mm)
Apex Seal & Apex Seal Spring		
Apex Seal Height		
	Standard	0.2" (5.3mm)
	Minimum	0.17" (4.3mm)
Apex Seal Spring Height		
	Standard	0.213" (5.4mm)
	Minimum	0.148" (3.5mm)
Corner Seal		
Minimum Projection of the Corner Seal		0.02" (0.5mm)
Side Seal		
*Max Corner Seal & Side Seal Clearance (See Diagram A on reverse)		0.016" (0.4mm)
Minimum Projection of the Side Seal		0.02" (0.5mm)
Oil Scrapper Cut-Off Seal		
Oil Scrapper Cut-Off Seal Height		
	Standard	0.1555" (3.95mm)
	Minimum	0.15" (3.8mm)
Minimum Projection of the Cut-Off Seal		0.02" (0.5mm)
Oil Seal		
Max Contact Width		0.02" (0.5mm)
Max Circumferential Width		0.098" (2.5mm) (or 10 nicks felt with a fingernail)
Minimum Projection of the Oil Seal		0.02" (0.5mm)
Eccentric Shaft		
Main Bearing Oil Clearance (Standard Power Model Rx8)		
	Standard	0.0022" – 0.0029" (0.055mm – 0.075mm)
	Max	0.0039" (0.1mm)
Main Bearing Oil Clearance (High Power Model Rx8)		
	Standard	0.0018" – 0.0033" (0.045mm – 0.085mm)
	Max	0.0039" (0.1mm)
Rotor Bearing Oil Clearance		
	Standard	0.0024" – 0.0030" (0.06mm – 0.08mm)
	Max	0.0039" (0.1mm)
Runout		
	Standard	0.0008" (0.02mm)
	Max	0.0024" (0.06mm)
End Play		
	Standard	0.0016" – 0.0035" (0.04mm – 0.09mm)
	Max	0.0039" (0.1mm)
Oil Pump		
Side Clearance		.024" (6mm)
	Standard	0.0079" – 0.0098" (0.2mm – 0.25mm)
	Max	0.0118" (0.3mm)
Tip Clearance		
	Standard	0.0012" – 0.0047" (0.03mm – 0.12mm)
	Max	0.0059" (0.15mm)
Body Clearance		
	Standard	0.0012" – 0.0049" (0.03mm – 0.125)
	Max	0.0059" (0.15mm)
Eccentric Shaft Bypass Valve		
Minimum Projection		0.24" (6mm)

How to measure side seal to corner seal clearance:

- Insert a 0.0059" (0.15mm) feeler gauge into the tapered surface of the side seal as shown in the diagram, and fix the side seal by pressing uniformly so that it contacts the inner side of the groove (straight surface).
- Measure the clearance between both ends of the side seal and the corner seal using a feeler gauge, you could also slide the side seal all the way to one corner seal and just measure the clearance on the opposite corner seal instead of adding the two side seal to corner seal clearances together.
- If the clearance exceeds the maximum, replace it with a new side seal.
- Max Clearance is 0.016" (0.4mm)

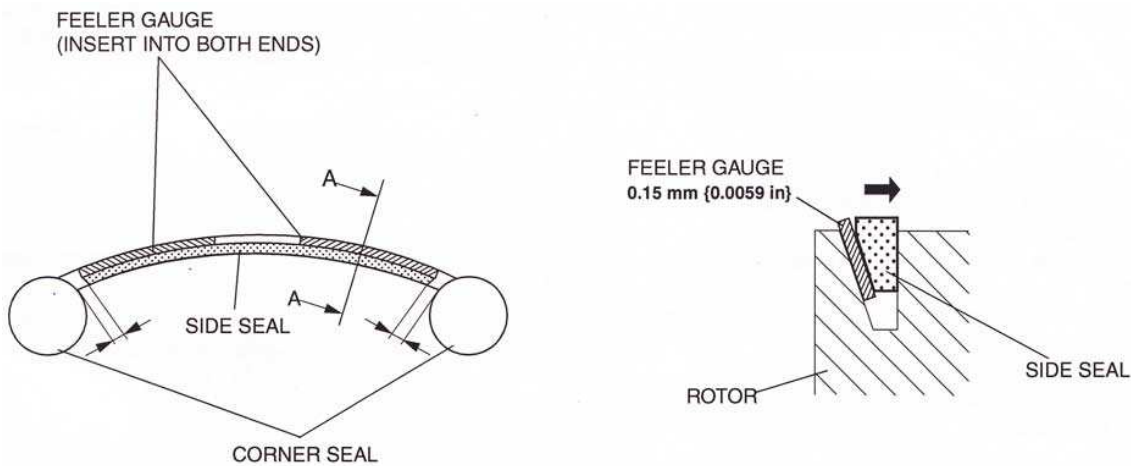


Diagram A