INSTALLATION/MAINTENANCE GUIDE

P38SRF Series Hydraulic Single Acting Caliper Disc Brakes

with Float Mount Bracket



FEATURES:

- Hard-coat Anodized Aluminum Construction.
- Fits on Brake Discs greater than 6-5/16” Diameter.
- Replaceable friction pads (WCB p/n 4000-1320 for retractable)
- Dynamic torque (inch/lb): 70 lbf per 100 psi x brake radius.
- Parking/static torque (inch/lb): 35 lbf per 100 psi x brake radius.

ATTRIBUTES:

Description	Single Acting calipers
Disc Thick. (inches)	5/32”, 1/4”, 3/8”, 1/2”, 5/8”, 3/4”, 1”
Fluid Type(s)	Air
Max Pressure	200 PSI
Seals	Buna-N Standard, EPR for DOT 3
Wearable Friction Material	.46 cubic inches
Bore Diameter	1.125 inches
Total Friction Pad Area	2.0 square inches
Fluid Displacement	0.29 cubic inches

38 Series Installation Instructions

1. For single-acting models (P38SRF) mount brake using the supplied floating bracket. Position the bracket so the spacers allow the brake to freely ‘float.’

2. During installation mount the brake with the disc centered between the friction pads. There should be approximately .060” gap on each side of disc. Verify that the friction pad faces are mounted parallel to the disc surface.

3. The disc should be made out of mild steel, stress relieved and ground to a 50-80 RMS finish and be flat within .020” for dynamic applications. The disc surfaces should be clean and free of oils for maximum braking performance.

Friction Pad Replacement

1. Be sure that pneumatic lines are not pressurized during friction pad replacement. It is not necessary to remove pneumatic lines when replacing brake pads.

2. Gain access to the caliper friction pads by unfastening bracket from the application. If necessary, loosen Bolts (#10) and remove nuts (#1). Note: This will separate the caliper housings, exposing pads. Be aware not to lose the cross-over O-rings (#6).

3. Remove worn brake pads by loosening pad screws (#8) on both housings. Once pads have been removed inspect pad mounting surface and clean to free any debris prior to seating new pads.

4. Use Blue Loctite 242 on piston/pad mounting hole. Place new friction pads (#15) onto pistons or dead side housing (#4) and tighten with pad screws (#16).

5. Re-assemble the caliper with bolts and fasteners as orientated prior to pad replacement.

Pad Wear Inspection:

Friction pads can be visually inspected for wear by inspecting the (2) friction pads mounted on each side of the housing.

In new condition the pad thickness will measure .323" which results in a 0.060" gap between the pad face and surface of the disc.

Friction pads have a maximum allowable wear of .230" which will result in a gap of .290" between the pad face and surface of the disc.

These dimensions may be inspected to monitor pad wear and determine pad replacement as necessary.

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P38SARF CALIPER MAINTENANCE

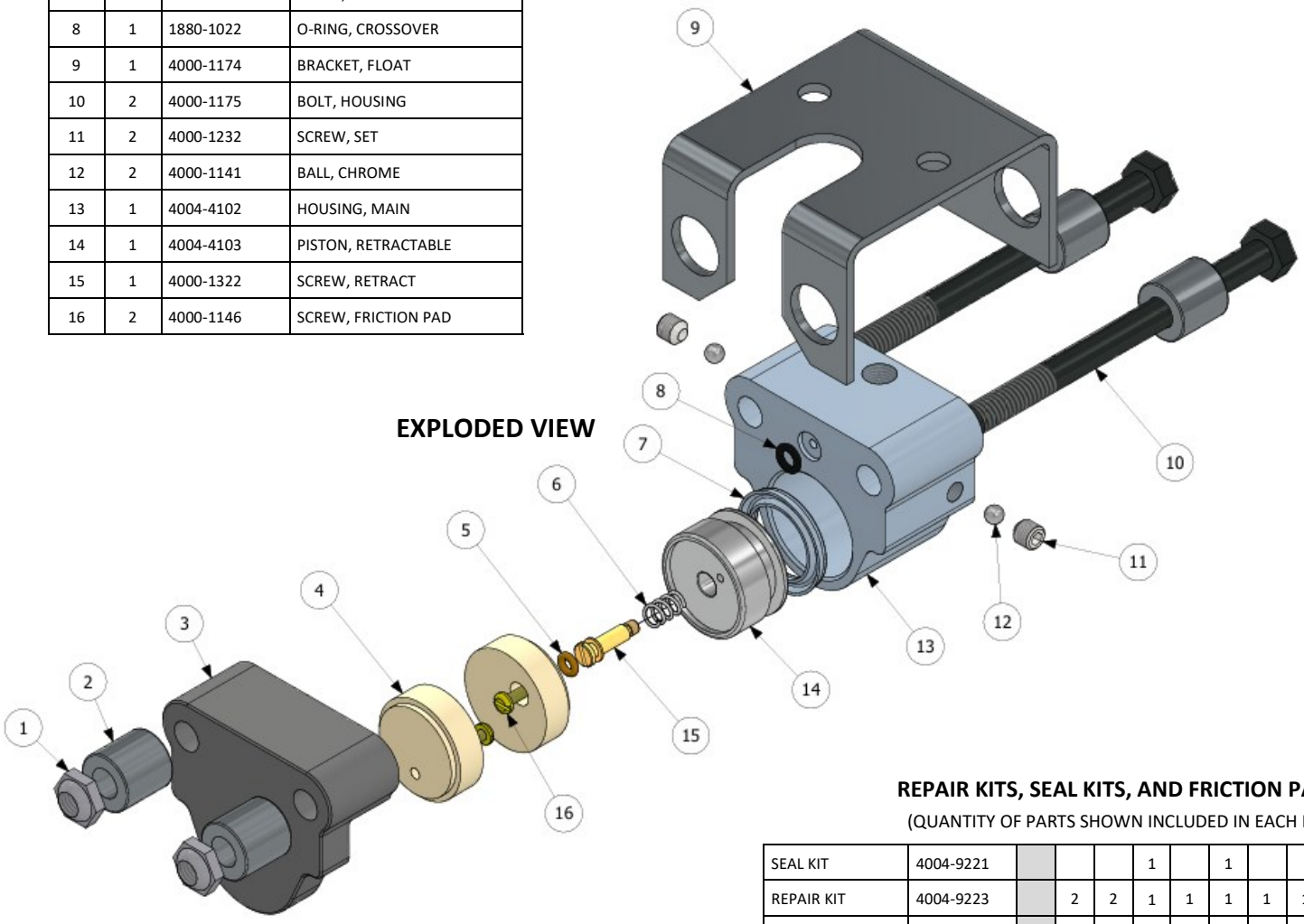
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	4000-1147	NUT, NYLON
2	4	4000-4-1176	SPACER, FLOATING
3	1	4004-4026	HOUSING, DEADSIDE
4	2	4000-1320	FRICTION PAD
5	1	4000-1126	O-RING, RETRACT SCREW
6	1	4000-1323	SPRING, RETRACT
7	1	4000-1209	U-CUP, PISTON
8	1	1880-1022	O-RING, CROSSOVER
9	1	4000-1174	BRACKET, FLOAT
10	2	4000-1175	BOLT, HOUSING
11	2	4000-1232	SCREW, SET
12	2	4000-1141	BALL, CHROME
13	1	4004-4102	HOUSING, MAIN
14	1	4004-4103	PISTON, RETRACTABLE
15	1	4000-1322	SCREW, RETRACT
16	2	4000-1146	SCREW, FRICTION PAD

TABLE A

DESIGNATOR	ROTOR/DISC WIDTH	SPACER PART #	BOLT PART #	BOLT LENGTH	BRAKE MODEL	BRAKE PART #
A	5/32”	N/A	4000-1175	4”	P38SARF	4004-0961

EXPLODED VIEW



REPAIR KITS, SEAL KITS, AND FRICTION PADS

(QUANTITY OF PARTS SHOWN INCLUDED IN EACH KIT)

SEAL KIT	4004-9221				1		1			1
REPAIR KIT	4004-9223		2	2	1	1	1	1	1	1
FRICTION PAD KIT	4004-9246		2	2						
ITEM#		DESCRIPTION	4	16	8	14	7	15	6	5
			FRICTION PAD	FRICTION PAD SCREW	CROSS-OVER O-RING	PISTON	PISTON U-CUP	RETRACT SCREW	COMPRESSION SPRING	RETRACT SCREW O-RING

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