INSTALLATION/MAINTENANCE GUIDE

H662DR Series Hydraulic Double Acting Caliper Disc Brakes

with Spring Retractable Pistons



FEATURES:

- Hard-coat Anodized Aluminum Construction.
- Fits on Brake Discs greater than 14” Diameter.
- Internal crossover porting
- Replaceable friction pads (WCB p/n 4355-1020)
- Dynamic torque (inch/lb): 693 lbf per 100 psi x brake radius.
- Parking/static torque (inch/lb): 347 lbf per 100 psi x brake

ATTRIBUTES:

Description	Double Acting calipers
Disc Thick. (inches)	5/32”, 1/4”, 3/8”, 1/2”, 5/8”, 3/4”, 1”
Fluid Type(s)	Hydraulic Oil, DOT 3 ABF
Max Pressure	Hyd. = 1500 PSI
Seals	Buna-N Standard, EPR for DOT 3
Wearable Friction Material	7.30 cubic inches
Bore Diameter	3.5 inches
Total Friction Pad Area	19.24 square inches
Fluid Displacement	0.58 cubic inches

H662 Series Installation Instructions

1- For double-acting models (H662DR) mount brake using the additional length in the four housing bolts.

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. Use shims if required. Tighten nuts and bolts to 40 ft-lbs.

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.

4- Standard Hydraulic Brakes, use only mineral based hydraulic oils compatible with Buna-N seals. For Brakes with EPR seals, use only DOT 3 brake fluid.

5- Back pressure in the fluid system should be prevented when the brake is not engaged. Back pressure in the system will result in constant contact of the friction pads to the disc and will lead to excessive heat and wear of the friction pads.

6- Hydraulic brakes are provided with bleeder screws to bleed air from the system. With the brake pressurized to 5 psi or less loosen the upper most bleeder screw enough to allow hydraulic oil to bleed out then re-tighten bleeder screw.

Friction Pad Replacement

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

2. Gain access to the caliper friction pads by loosening Bolts (#1) and removing nuts (#10). Note: This will separate the caliper housings, exposing pads. Be aware not to lose the cross-over O-rings (#4).

3. Remove worn brake pads by loosening (#16) pad screws 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 (#5) onto pistons 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 the dead side 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 .218" which will result in a gap of .278" 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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H662DR CALIPER MAINTENANCE

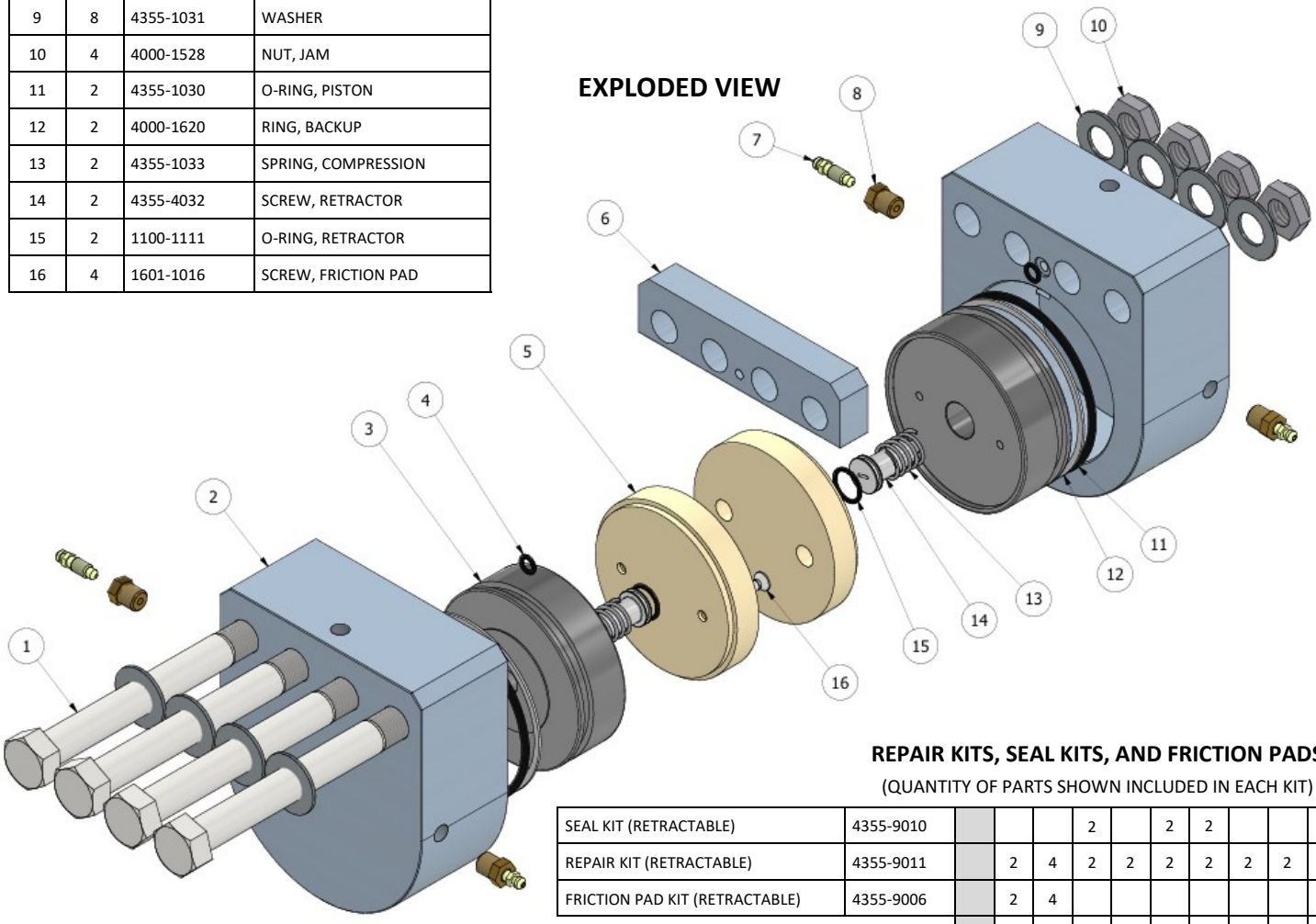
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	SEE TABLE A	BOLTS, HOUSING
2	2	4355-4030	HOUSING
3	2	4355-4031	PISTON
4	2	4000-1003	O-RING, CROSS OVER
5	2	4355-1020	PAD, FRICTION
6	1	SEE TABLE A	SPACER
7	4	4000-1049	SCREW, BLEEDER
8	4	4000-4-1048	PLUG, BLEEDER ADAPTER
9	8	4355-1031	WASHER
10	4	4000-1528	NUT, JAM
11	2	4355-1030	O-RING, PISTON
12	2	4000-1620	RING, BACKUP
13	2	4355-1033	SPRING, COMPRESSION
14	2	4355-4032	SCREW, RETRACTOR
15	2	1100-1111	O-RING, RETRACTOR
16	4	1601-1016	SCREW, FRICTION PAD

TABLE A

DESIGNATOR	ROTOR/DISC WIDTH	SPACER PART #	BOLT PART #	BOLT LENGTH	BRAKE MODEL	BRAKE PART #
B	1/4”	4355-4022	4251-1024	6”	H662DBR	4355-0041
L	3/8”	4355-4023	4251-1024	6”	H662DLR	4355-0042
E	1/2”	4355-4024	4251-1024	6”	H662DER	4355-0030
J	5/8”	4355-4025	4251-1024	6”	H662DJR	4355-0043
T	3/4”	4355-4026	4251-1025	6 1/2”	H662DTR	4355-0044
O	1”	4355-4027	4251-1025	6 1/2”	H662DOR	4355-0045

EXPLODED VIEW



REPAIR KITS, SEAL KITS, AND FRICTION PADS

(QUANTITY OF PARTS SHOWN INCLUDED IN EACH KIT)

SEAL KIT (RETRACTABLE)	4355-9010				2		2	2			2
REPAIR KIT (RETRACTABLE)	4355-9011		2	4	2	2	2	2	2	2	2
FRICTION PAD KIT (RETRACTABLE)	4355-9006		2	4							
DESCRIPTION			FRICTION PAD	FRICTION PAD SCREW	CROSS-OVER O-RING	PISTON	PISTON O-RING	BACK-UP RING	RETRACT SCREW	COMPRESSION SPRING	RETRACT SCREW O-RING
ITEM#			5	16	4	3	11	12	14	13	15

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