

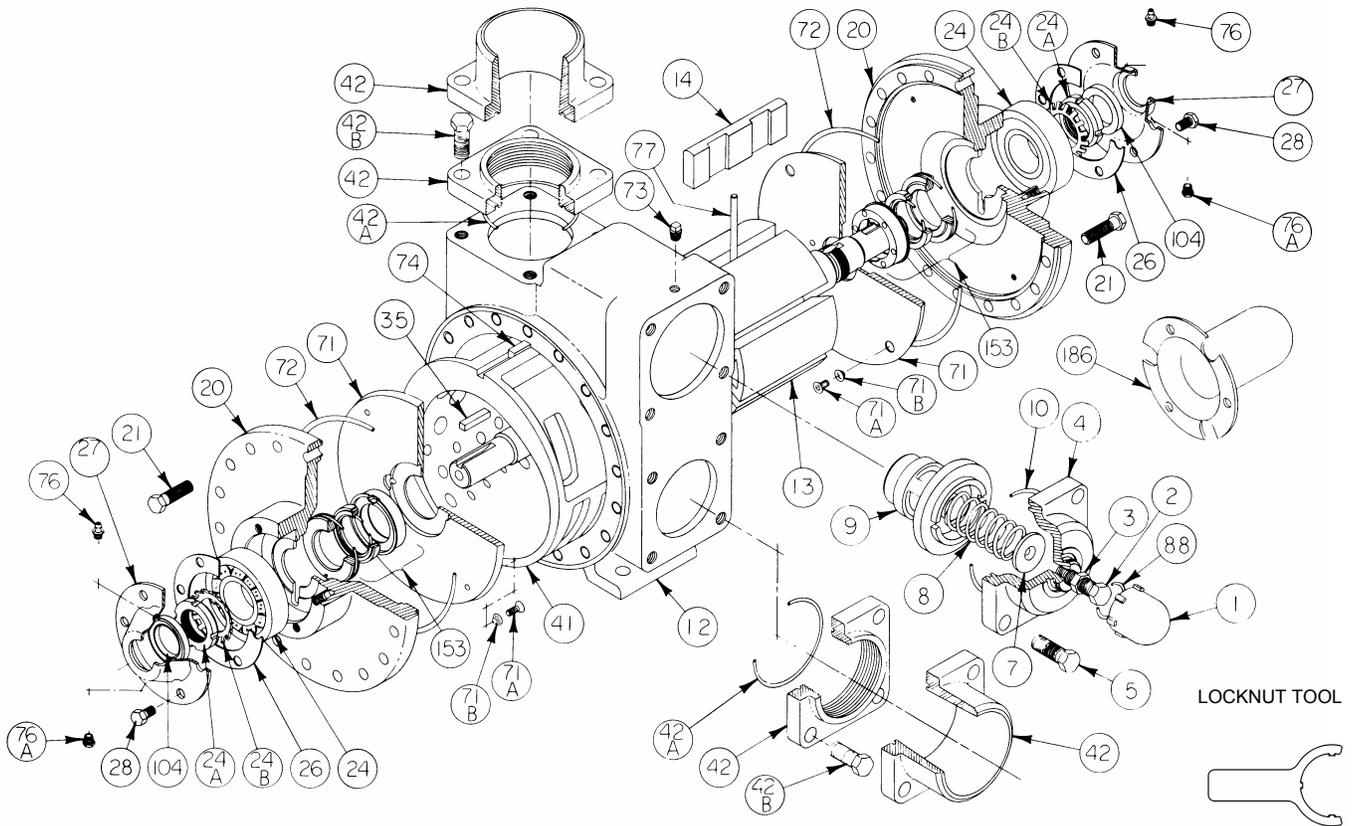
BLACKMER PARTS LIST

DISCONTINUED PUMP MODELS: CRL4A, CRL4, TCRL4

Apr 2008: Discontinued Models, Parts Availability may be limited.

See Instructions 701-C00_0711 for Installation, Operation and Maintenance

Section 701
Effective Mar 2008
Replaces July 2002



Ref. No.	Description	Parts per Pump	Part No.	Ref. No.	Description	Parts per Pump	Part No.
1	Cap – R/V	1	413952	41	Liner – Casing	1	² 182000
2	Screw – R/V Adjusting	1	436310	42	Flange – 3" NPT	1-2	652012
3	Locknut – Adjusting Screw	1	NOTE 3		Flange – 3" Weld		652007
4	Cover – R/V	1	412001		Flange – 4" Weld		652005
5	Capscrew – R/V Cover	4	920663	42A	O-Ring – Flange	2	¹ 701937
7	Guide – R/V Spring	1	426355	42B	Capscrew – NPT Flange	8	920663
8	Spring – Valve	1	NOTE 3		Capscrew – Weld Flange		920640
9	Valve – R/V	1	452001	71	Disc	2	² 062039
10	O-Ring – R/V Cover	1	¹ 701946	71A	Screw – Disc Machine	8	² 920015
12	Casing – Pump	1	NOTE 3	71B	Lockwasher – Disc	8	² 909622
13	Rotor & Shaft Asy. w/Locknut & Lockwasher (Ref. No. 24A & 24B)	1	^{2,5} 262041	72	O-Ring – Head (Buna-N)	2	¹ 702039
14	Vane – Laminate	6	¹ 092026	73	Plug – Gage	2	908198
20	Head	2	⁵ 032041	74	Key – Liner	1	² 182040
21	Capscrews – Head	28 - 36	920532	76	Fitting – Grease	2	317815
24	Ball Bearing	2	¹ 903172	76A	Fitting – Grease Relief	2	701992
24A	Locknut – Bearing	2	² 903541	77	Push Rod Set– Vane	3	^{1,5} 122010
24B	Lockwasher – Bearing	2	¹ 903542	88	O-Ring – R/V Cap	1	¹ 701926
26	Gasket – Bearing Cover	2	¹ 385125	104	Seal – Grease	2	¹ 331908
27	Cover – Inboard Bearing	2	041815	186	Protector – Shaft End	1	341801
28	Capscrews – Bearing Cover	12	920286		Tool - Locknut		903092
35	Key – Shaft	1	¹ 909183		Kit - Maintenance		898907
					Kit - Rebuild		899007

¹ Included in Maintenance and Rebuild Kits ² Included in Rebuild Kits Note 3 – See Table on other side for proper parts.
⁵ See Note 5 on other side Keep this parts list with Installation, Operation and Maintenance Instructions.

MECHANICAL SEAL

Ref. No.	Part Name	Parts Per Pump	Part No.
153	Mechanical Seal Assembly (CELE)	2	¹ 332059
153A	Seat – Stationary (Carbon)	2	*332058
153B	Face – Seal (Silicon Carbide)	2	*335130
153C	Jacket Assembly – Seal	2	*332018
153D	O-Ring – Stationary (Special-EPDM)	2	702356
153E	O-Ring – Rotating (Special-EPDM)	2	702353

¹ Included in Maintenance and Rebuild Kits

* NOTE: Mechanical Seal Ref. No. 153 is only sold as a complete assembly. Ref Nos. 153A, 153B & 153C are not available as separate replacement parts.

Note 5 Some replacement parts will differ from those originally supplied:

Dbl. Ended rotor/shaft (13): new 262041 rotor/shaft with 122009 composite pushrods.

New 232041 R/S may be used in older pumps IF 122009 composite pushrods are also installed.

Pushrods (77): Pushrod set PN 122010 includes both composite & metal styles for use regardless of the rotor/shaft installed.

122009 composite pushrods (3/8" dia.) must be used with the new 262041 double ended shaft

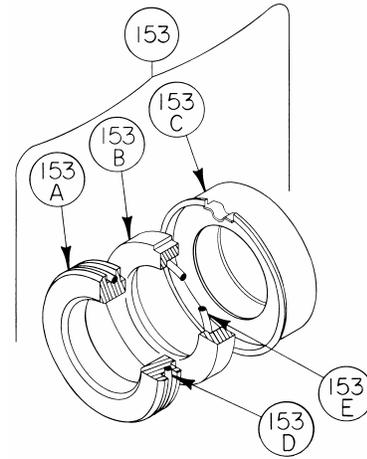
122005 metal pushrods (1/4" dia.) must be used with the original double ended rotor/shaft.

Maintenance Kits include both composite and metal pushrods allowing them to be used in all pumps.

Rebuild Kits include the new 262041 R/S and 122009 composite pushrods and may be used all Dbl. Ended pumps.

Heads (20): new 032041 heads use 14 capscrews instead of 18.

New 032041 heads may be used on existing pumps, although only 14 capscrews will be used.



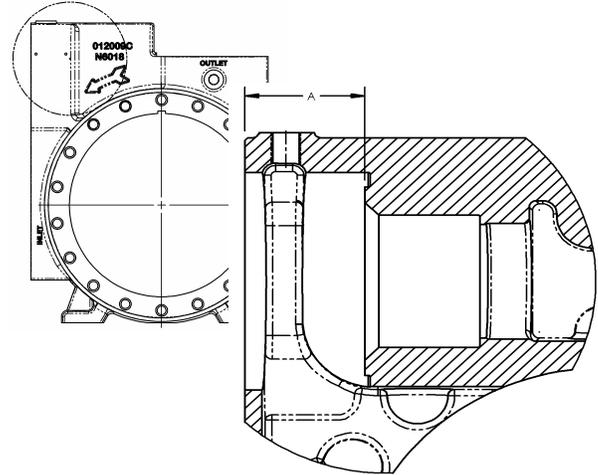
Note 3: Use Dimension 'A' as shown in the drawing to determine the pump model number.

The pump model number will also be shown on the nameplate.

Model	Dim 'A'	
CRL4A	2.19 in.	5.56 cm.
CRL4, TCRL4	1.75 in.	4.45 cm.

Use the table below to determine the proper parts for each model.

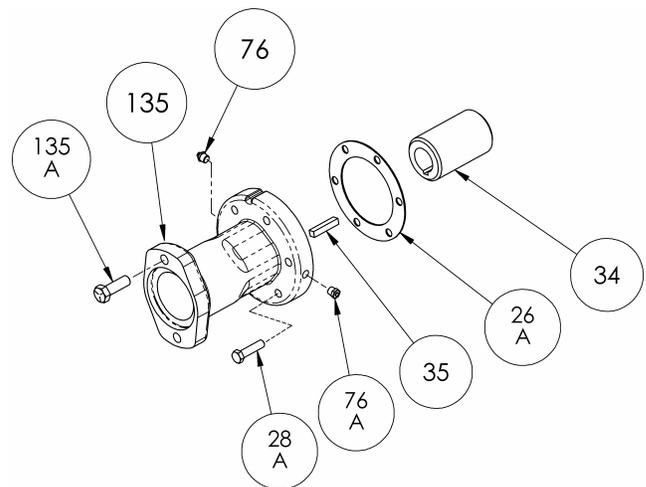
Ref. No	Part Name	Parts Per Pump	CRL4A	CRL4, CRL4
			Part No.	Part No.
3	Locknut - Adjusting Screw	1	432039	436355
8	Spring - R/V	1	472039	476305
12	Casing	1	012009	012000



HYDRAULIC MOTOR ADAPTER PARTS

REF. NO.	PART NAME	PARTS PER PUMP	PART NO.
See Below	Hydraulic Motor Adapter Kit	See Below	892037
26A	Gasket – Hydraulic Motor Adapter	1	381817
28A	Capscrew – Hydraulic Motor Adapter / Head	6	920369
34	Coupling w/ Setscrew – for 1.25" straight key hyd. motor shaft	1	906970
35	Key – Coupling	1	909184
76	Grease Fitting	1	317815
76A	Grease Relief Fitting	1	701992
135	Hydraulic Motor Adapter – SAE A Flange	1	041829
135A	Capscrew – Adapter / Motor	2	920510

* Hydraulic Motor Adapter Kits shipped prior to Spring 2002 were of a two piece design – refer to page 206-D00



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Parts List 701-C01

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