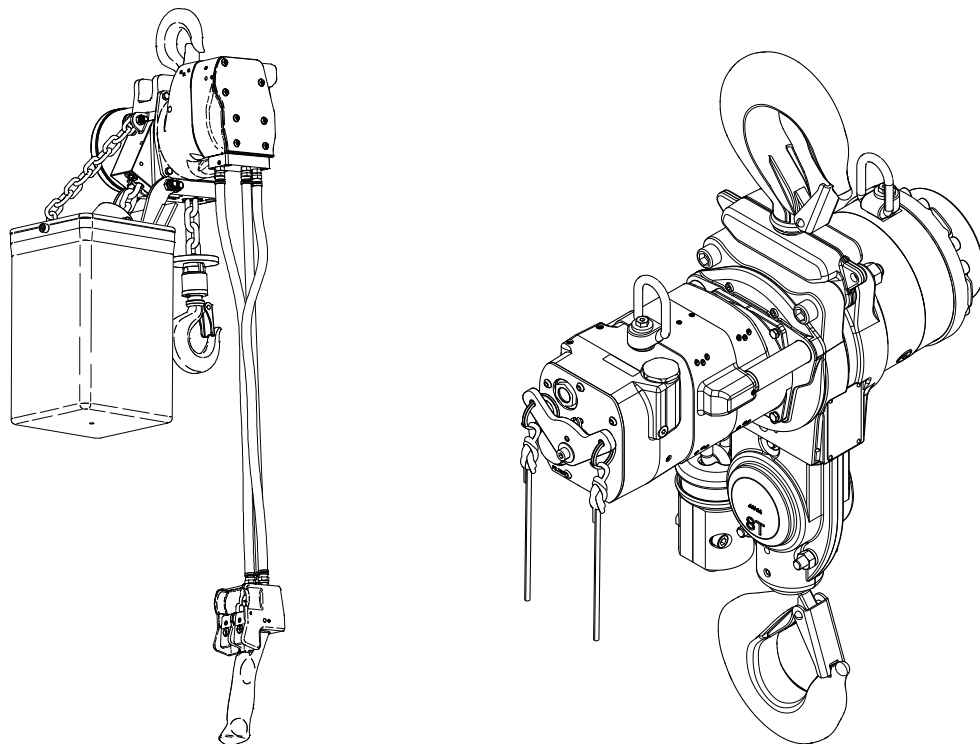


Liftchain Industrial Air Hoist

LC2A010S to LC2A250Q



Product Parts Information



Save These Instructions



Form MHD56297
Edition R
June 2026
CCN 71441307

Only allow **Ingersoll Rand** trained technicians to perform maintenance on this product. For additional information contact **Ingersoll Rand** factory or nearest distributor.

For additional supporting documentation refer to [Table 2, p. 2](#).

The use of other than genuine **Ingersoll Rand** replacement parts may result in safety hazards, decreased performance and increased maintenance and will invalidate all warranties.

Refer all communications to the nearest **Ingersoll Rand** office or distributor.

Table 1. Control Option Selection Guide

Control Option	Product
C1	LC2A Hoist
P2	
P3	
X1	Xtrem Series

If you have a product with control option C1, P2, P3, refer to standard LC2A hoist pages / sections. If you have a product with control option X1, refer to Xtrem series pages / sections.

Table 2. Product Information Manuals

Publication	Part/Document Number (CCN)
Product Safety Information Manual	MHD56295 (71441281)
Product Information Manual	MHD56296 (71441299)
Product Maintenance Information Manual	MHD56279 (71439319)

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Parts Ordering Information

These products are designed and constructed to provide long, trouble-free service. In time it may be necessary to order and install new parts to replace those that have been subjected to wear.

For your convenience and future reference, it is recommended that the following information be recorded.

Model Number _____

Serial Number _____

Date Purchase _____

When ordering replacement parts, please specify the following:

1. Complete model number and serial number as it appears on the data (name) plate.
2. Part number(s) and part description as shown in this manual.
3. Quantity required.

The data (name) plate is located on the product.

NOTICE

Product Manuals!

- **Continuing improvement and advancement of design may cause changes to this equipment which are not included in this manual. Manuals are periodically revised to incorporate changes. Always check the manual edition number on the front cover for the latest issue.**
- **Sections of this manual may not apply to your product.**
- **The use of other than genuine Ingersoll Rand replacement parts may result in safety hazards, decreased performance and increased maintenance, and will invalidate all warranties.**

Return Goods Policy

Ingersoll Rand will not accept any returned goods for warranty or service unless prior arrangements have been made and written authorization has been provided from the location the goods were purchased.

Products that have been modified without **Ingersoll Rand** approval, mishandled or overloaded will not be repaired or replaced under warranty. A printed copy of the warranty that applies to this product is provided inside the back cover of the product information manual or in some cases the parts manual.

Disposal



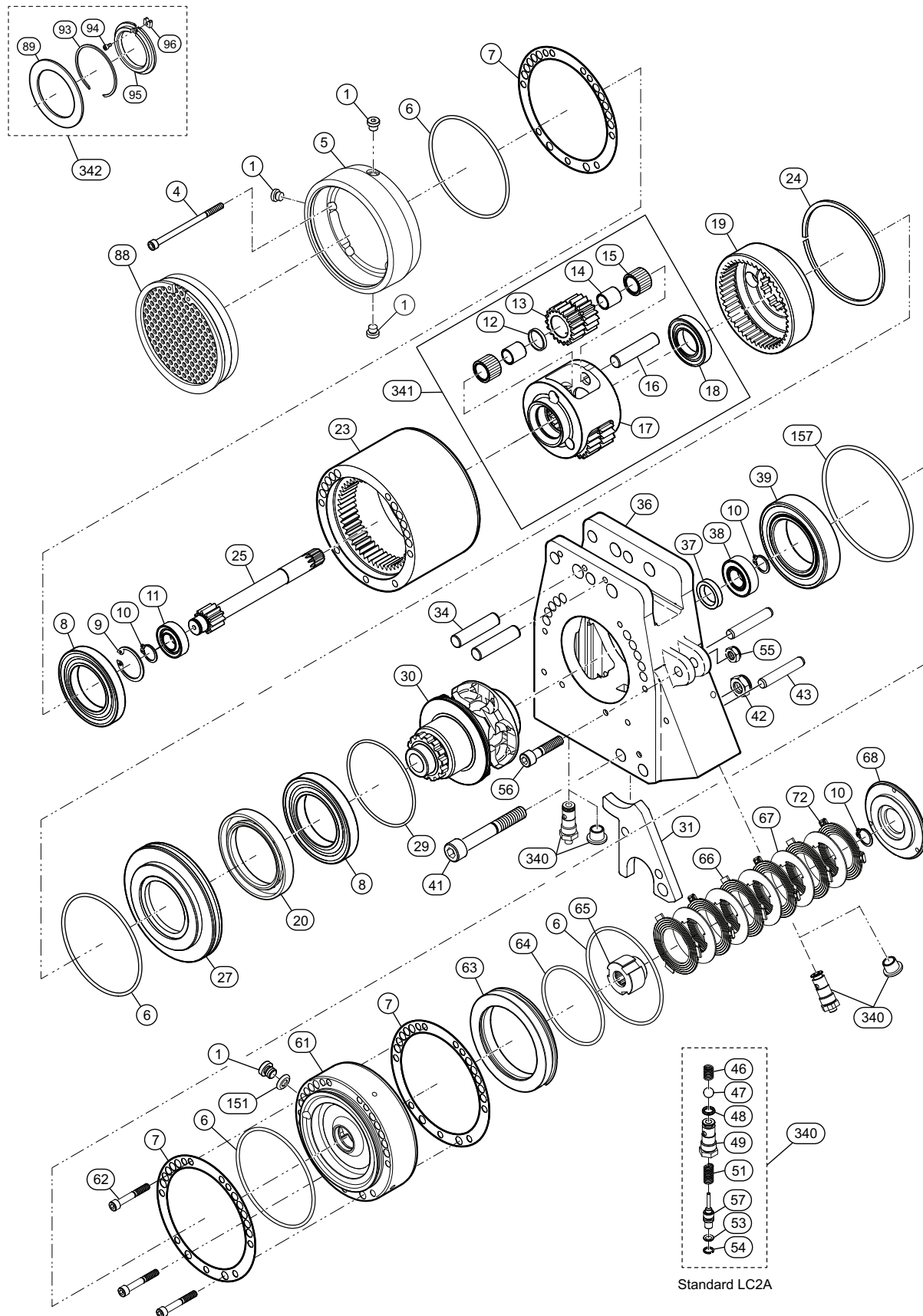
When the life of the product has expired, it is recommended that it be disassembled, degreased and parts separated as to materials so that they may be recycled.

For additional information contact:

Ingersoll Rand
Douai Operations
529, Avenue Roger Salengro
59450 Sin Le Noble, France
Phone: (33) 03-27-93-08-08
Fax: (33) 03-27-93-08-00

LC2A010S-015S-020D-030D Powerhead and Disc Brake Assembly

Figure 1. 1.5T Single and 3T Double Powerhead and Disc Brake Assembly Drawing (MHP5405)



LC2A010S-015S-020D-030D Powerhead and Disc Brake Assembly

Table 3. LC2A010S-015S-020D-030D Powerhead and Disc Brake Assembly Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
1 (a)	Plug	3	6511-0441 (38648184)
4 (b)	Capscrew CHC M6-100	5	4133-2506 (38597563)
5	Reduction Gear End Cover	1	9645-1868 (47841926001)
6 (a)	O-Ring	4	5823-5229 (38548236)
7 (a)	Gasket	3	9644-1048 (38578258)
8	Bearing	2	5080-0009 (38522165)
9	Retainer Ring	1	4770-3032 (38522280)
10 (a)	Retainer Ring	3	4770-0015 (38522264)
11	Bearing	1	5000-0002 (38522116)
12	Spacer	3	9644-1047 (38578134)
13	Planetary Gear	3	9644-1002 (38577672)
14	Bearing Ring	6	5636-2041 (38597217)
15	Needle Bearing	6	5656-2141 (38597225)
16	Planet Axle	3	9644-1046 (38578126)
17	Planetary Carrier	1	9644-1006 (38577706)
18	Bearing	1	5080-0005 (38522140)
19	Ring Gear	1	9644-1003 (38577698)
20 (a)	Oil Seal	1	5801-2130 (38537411)
23	Reducer Housing	1	9644-1007 (38577714)
24	Stop Ring	1	4782-9332 (38636049)
25	Pinion Shaft	1	9644-3005 (38577870)
27	Cover	1	9644-3009 (38577896)
29 (a)	Quad Ring	1	5823-7329 (38578167)
30	Repair Kit Center Section	1	(47539655001)
31	Chain Stripper	1	9644-3041 (38577581)
34	Roll Pins	2	4650-1020 (38541843)
36	Hoist Body	1	9644-3069 (38592069)
37 (a)	Oil Seal	1	5801-9830 (38540456)
38	Bearing	1	5005-0002 (38537353)
39	Bearing	1	5005-0009 (38537429)
41	Capscrew	1	4132-9406 (38632451)
42	Nut	1	75583M (54173083)
43	Pin	2	4600-2816 (38597571)
46	Spring	2	Order item 340
47	Ball	2	
48	O-Ring	2	
49	Valve Housing	2	
51	Spring	2	
53	O-Ring	2	
54	Snap Ring	2	
55	Nut	1	4370-6511 (38633491)

LC2A010S-015S-020D-030D Powerhead and Disc Brake Assembly

Table 3. LC2A010S-015S-020D-030D Powerhead and Disc Brake Assembly Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
56	Capscrew	1	4132-6706 (38632261)
57	Valve	2	Order Item 340
61 (c) (e)	Brake Housing	1	9644-0574 (38776258)
61 (f)	Brake Housing	1	9652-3702 (47897053001)
62	Capscrew	3	4130-1106 (38535779)
63	Piston	1	9644-1014 (38578274)
64 (a)	O-Ring	1	5823-5129 (38548228)
65	Splined Hub	1	9644-1013 (38577748)
66	Friction Plate	3	6302-8241 (38548186)
67	Drive Plate	5	6302-8341 (38548194)
68	Brake Reaction Plate	1	9644-1015 (38577763)
72	Friction Plate with Spring Clips	3	9644-1552 (38774139)
88	Muffler Assembly	1	3652-3677 (47841957001)
89 (d)	Ring Flat	1	9644-0566 (38775649)
93	Expansive Ring	1	4789-8541 (38775581)
94	Capscrew	1	4130-9606 (38523601)
95	Adapter Support	1	9644-0564 (38775623)
96	Plate Stop	1	9644-0565 (38775631)
151	Gasket	1	9644-1503 (38767372)
157 (a)	O-Ring	1	5823-9129 (38767380)
340	Limit Switch Valve Kit (e)	2	7645-0081 (38794533)
	Plastic Cap (f)		6454-5742 (47919056001)
341 (g)	Planetary Support Assembly	1	7644-0759 (38795001)
342	Retro Fit Kit Cartridge Muffler	1	7644-0563 (38775607)

(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

(b) Item 4 Capscrew 4133-9806 QTY: 5 (105mm) W/Serial Number 080452 to 160899

Item 4 Capscrew 4133-2506 QTY: 5 (100mm) W/Serial Number 160900 and ABOVE

(c) When ordering disc brake replacement housing a new motor housing is required, refer to MHP2652. This change effects hoists with serial numbers of 08-04-52 and below.

(d) Items 89, 93 — 96 are for older style hoists, using old style item 5 part.

(e) Only for Standard version.

(f) Only for Xtrem version.

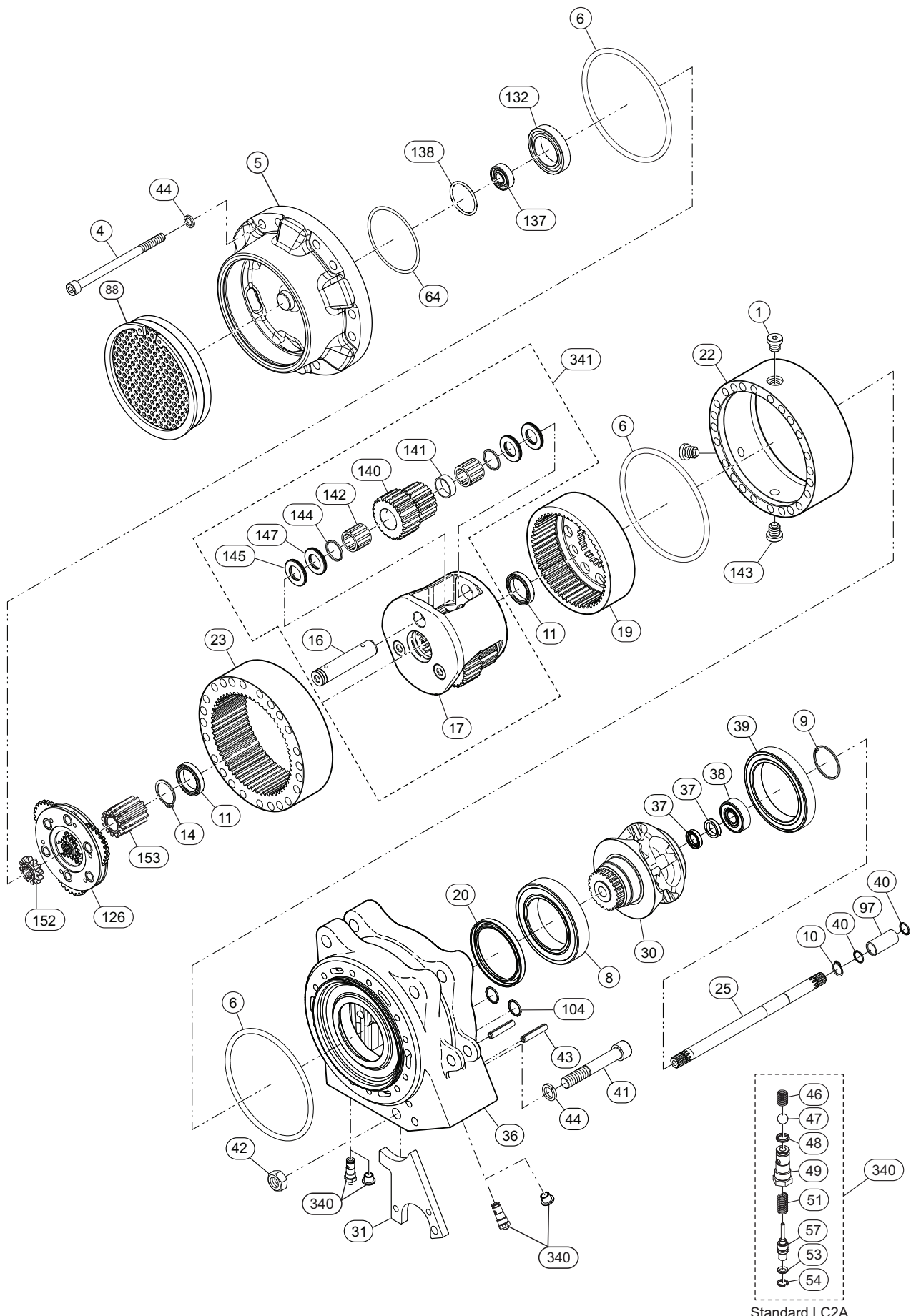
(g) Do not disassemble planet support assembly item 341.

Table 4. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
340	Limit Switch Valve Kit	2	7645-0081 (38794533)
700	Reducer Repair Kit (includes items 1, 4, 6 – 11, 14, 15, 18 and 20.)	1	7650-0092 (38780938)
701	Disc Brake Repair Kit (includes items 1, 6, 7, 10, 62, 64, 66, 67, and 72.)	1	7650-0089 (38780904)
702	Center Section Repair Kit (includes items 4, 6 – 8, 10, 18, 31, 34, 35, 38, 41 – 43, 55, and 56.)	1	7650-0090 (38780912)
740	RBK-LC2A015/30-CS-IND Repair Kit Center Section (includes items 4, 6, 7, 8, 10, 18, 20, 29, 30, 31, 34, 35, 37, 38, 39, 41, 42, 43, 55, 56 and 62.)	1	(47539655001)

LC2A040S-080D Powerhead Assembly

Figure 2. 4T Single and 8T Double Powerhead Assembly Drawing (MHP5406)



Standard LC2A

LC2A040S-080D Powerhead Assembly

Table 5. LC2A040S-080D Powerhead Assembly Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
1 (a)	Plug	2	6511-0741 (38648192)
4	Capscrew	12	4133-4506 (38782249)
5	Reduction Gear End Cover	1	9645-1867 (47841925001)
6 (a)	O-Ring	3	5824-0029 (38782124)
8	Bearing	1	5005-0014 (38537478)
9	Retainer Ring	1	4770-3042 (38635728)
10 (a)	Retainer Ring	1	4770-0015 (38522264)
11	Bearing	2	5090-0006 (38762191)
14	Retainer Ring	1	4770-0030 (38523395)
16	Planet Axle	3	9645-0025 (38764668)
17	Planetary Carrier	1	9645-0020 (38766903)
19	Ring Gear	1	9645-0017 (38761557)
20	Oil Seal	1	5801-5130 (38639472)
22	Reducer Housing	1	9645-0121 (38781936)
23	Ring Gear	1	9645-0010 (38761136)
25	Pinion Shaft	1	9645-0046 (38764684)
30	Repair kit Center Section	1	(47539656001)
31	Chain Stripper	1	9645-0061 (38774550)
36	Hoist Body	1	9645-0040 (38767224)
37 (a)	Oil Seal	2	5801-9830 (38540456)
38	Bearing	1	5025-0002 (38637138)
39	Bearing	1	5090-0016 (38773321)
40 (a)	O-Ring	2	5821-8129 (38539094)
41	Capscrew	1	4132-9106 (38632436)
42	Nut	1	4300-5811 (38530408)
43	Pin	2	4650-5520 (38635090)
44	Lockwasher	1	4520-1014 (38634234)
46	Spring	2	Order item 340
47	Ball	2	Order item 340
48	O-Ring	2	
49	Valve Housing	2	
51	Spring	2	
53	O-Ring	2	
54	Snap Ring	2	
57	Valve	2	
64 (a)	O-Ring	1	5820-8529 (38533220)
88	Muffler Assembly	1	3652-3677 (47841957001)
97	Spacer Ring	1	9645-0143 (38782298)
104 (a)	O-Ring	2	5822-2829 (38524435)
126	Primary Gear Assembly	1	7645-0075 (46896429)
132	Bearing	1	5090-0008 (38782173)

Table 5. LC2A040S-080D Powerhead Assembly Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
137	Bearing	1	5010-0001 (38540803)
138 ^(a)	O-Ring	1	5822-4229 (38528592)
140	Planetary Gear	3	9645-0018 (38761565)
141	Spacer	3	9645-0151 (38782546)
142	Needle Bearing	6	5650-2825 (38772943)
143	Plug	1	6517-0242
144	Spacer	6	9645-0045 (38764676)
145	Needle Bearing Spacer	6	5605-3520 (38537163)
147	Needle Bearing	6	5731-9832 (38537171)
152	Sun Gear	1	9645-0036 (38764098)
153	Sun Gear	1	9645-0038 (38764114)
340	Limit Switch Valve Kit ^(b)	2	7645-0081 (38794533)
	Plastic Cap ^(c)		6454-5742 (47919056001)
341 ^(d)	Planet Support Assembly	1	7645-0074 (38794541)
^(e)	Lockwasher	12	4520-1010 (38634226)

^(a) Recommended spares, 2 years operation (ordering kit listed below is recommended).

^(b) Only for Standard version.

^(c) Only for Xtrem version.

^(d) Do not disassemble planet support assembly item 341.

^(e) Item not illustrated.

Table 6. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
340	Limit Switch Valve Kit	2	7645-0081 (38794533)
705	Reducer Repair Kit (includes items 1, 4, 6, 10, 14, 16, 132, 137, 138, 141 – 145 and 147)	1	7650-0224 (38791851)
706	Center Section Repair Kit (includes items 1, 4, 6, 8 – 10, 20, 31, 37 – 39, 43, 104, 132, 137, 138, and 143)	1	7650-0228 (38791893)
741	RBK-LC2A040/80-CS-IND Repair Kit (includes items 1, 4, 6, 8, 9, 30, 31, 37, 38, 39, 43, 104, 132, 137 and 138)	1	(47539656001)

Gear Box Sub-assembly

Figure 3. Gear Box Sub-assembly Drawing (MHP4306)

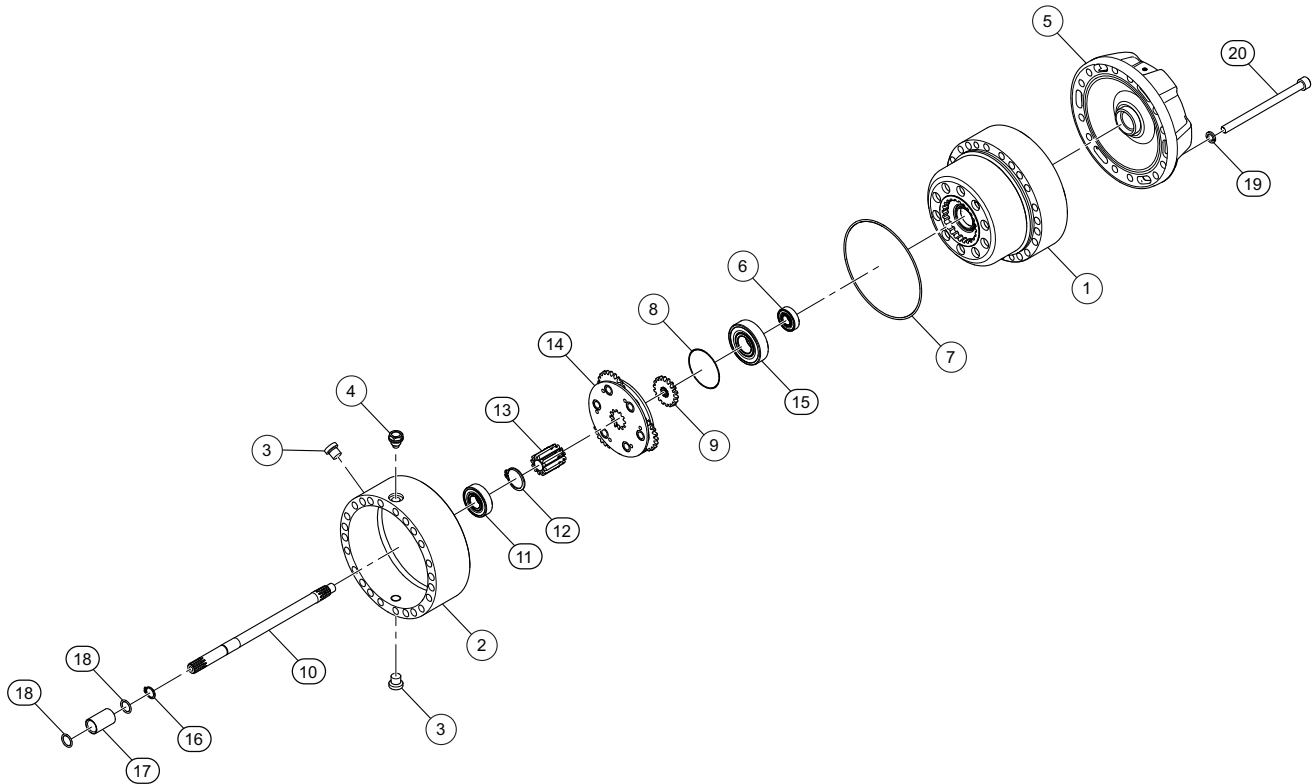
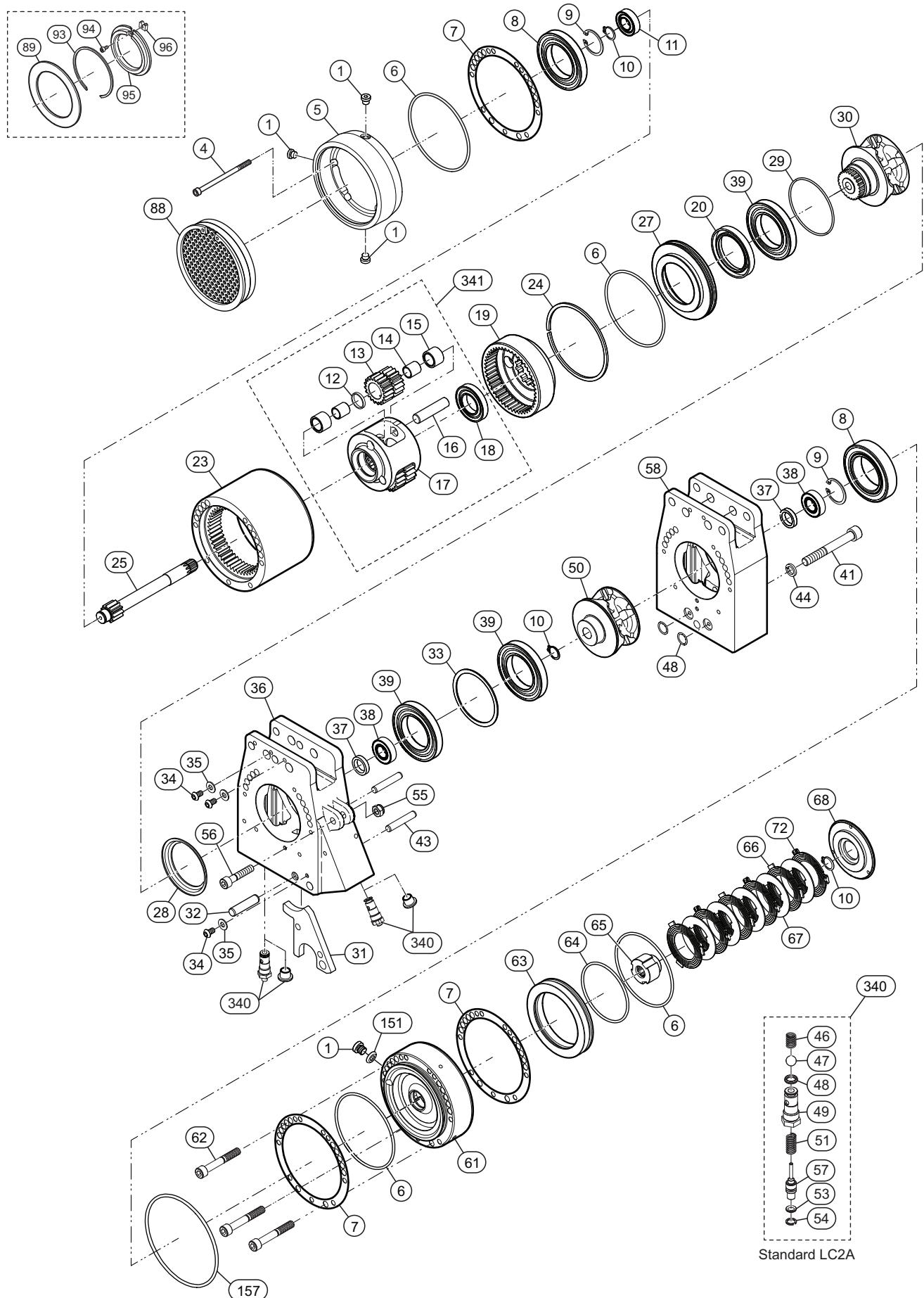


Table 7. Gear Box Sub-assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
1	Planet Support Assembly	1	3645-0616 (46890380)
2	Half Reducer Housing	1	9645-0121 (38781936)
3	Plug	2	6511-0741 (38648192)
4	Magnetic Plug	1	6517-0241 (38784815)
5	Reducer Cover	1	9645-0029 (38765764)
6	Bearing	1	5010-0001 (38540803)
7	O-Ring	1	5824-0029 (38782124)
8	O-Ring	1	5822-4229 (38528592)
9	Sun Gear 18 Teeth	1	9645-0606 (46889762)
10	Pinion Shaft	1	9645-0046 (38764684)
11	Bearing	1	5090-0006 (38762191)
12	Retainer Ring	1	4770-0030 (38523395)
13	Sun Gear 12 Teeth	1	9645-0038 (38764114)
14	Primary Gear Subassembly	1	3645-0608 (46889788)
15	Bearing	1	5090-0008 (38782173)
16	Retainer Ring	1	4770-0015 (38522264)
17	Spacer Ring	1	9645-0143 (38782298)
18	O-Ring	2	5821-8129 (38539094)
19	Lock washer	12	4520-1010 (38634226)
20	Capscrew	12	4133-4506 (38782249)

LC2A060Q Hoist Powerhead and Disc Brake Assembly

Figure 4. 6T Quad Hoist Powerhead and Disc Brake Assembly Drawing (MHP5407)



LC2A060Q Hoist Powerhead and Disc Brake Assembly

Table 8. LC2A060Q Hoist Powerhead and Disc Brake Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
1 (a)	Plug	3	6511-0441 (38648184)
4	Capscrew	5	4133-2506 (38597563)
5	Reduction Gear End Cover	1	9645-1868 (47841926001)
6 (a)	O-Ring	4	5823-5229 (38548236)
7 (a)	Gasket	3	9644-1048 (38578258)
8	Bearing	3	5080-0009 (38522165)
9	Retainer Ring	1	4770-3032 (38522280)
10 (a)	Retainer Ring	2	4770-0015 (38522264)
11	Bearing	1	5000-0002 (38522116)
12	Spacer	3	9644-1047 (38578134)
13	Planetary Gear	3	9644-1002 (38577672)
14	Bearing Ring	6	5636-2041 (38597217)
15	Needle Bearing	6	5656-2141 (38597225)
16	Planet Axle	3	9644-1046 (38578126)
17	Planetary Carrier	1	9644-1006 (38577706)
18	Bearing	1	5080-0005 (38522140)
19	Ring Gear	1	9644-1003 (38577698)
20 (a)	Oil Seal	1	5801-2130 (38537411)
23	Reducer Housing	1	9644-1007 (38577714)
24	Stop Ring	1	4782-9332 (38636049)
25	Pinion Shaft	1	9644-3463 (38766051)
27	Cover	1	9644-3009 (38577896)
28	Ring	1	5830-4009 (38766929)
29 (a)	Quad Ring	1	5823-7329 (38578167)
30	RBK-LC2A060Q-CS	1	(47539568001)
31	Chain Stripper	1	9644-3041 (38577581)
32	Pin	1	9644-3244 (38753067)
33	Spacer	1	9644-3464 (38766069)
34	Capscrew	3	4120-1604 (38597522)
35	Washer	3	4500-1106 (38543468)
36	Hoist Body	1	9644-3377 (38759478)
37 (a)	Oil Seal	1	5801-9830 (38540456)
38	Bearing	1	5005-0002 (38537353)
39	Bearing	2	5005-0009 (38537429)
41	Capscrew	2	4133-0006 (38519971)
43	Pin	2	4600-2816 (38597571)
44	Lockwasher	2	4520-1010 (38634226)
46	Spring	2	Order item 340
47	Ball	2	
48 (a)	O-Ring	2	Order item 340
49	Valve Housing	2	Order item 340
50	RBK-LC2A060Q-CS	1	(47539568001)
51	Spring	2	Order item 340
53	O-Ring	2	
54	Snap Ring	2	
55	Nut	1	4370-6511 (38633491)

LC2A060Q Hoist Powerhead and Disc Brake Assembly

Table 8. LC2A060Q Hoist Powerhead and Disc Brake Assembly Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
56	Capscrew	1	4132-6706 (38632261)
57	Valve	2	Order item 340
58	Chain Guide Housing	1	9644-3495 (38766085)
61 (b) (c)	Brake Housing	1	9644-0574 (38776258)
61 (d)	Brake Housing	1	9652-3702 (47897053001)
62	Capscrew	3	4130-1106 (38535779)
63	Piston	1	9644-1014 (38578274)
64 (a)	O-Ring	1	5823-5129 (38548228)
65	Splined Hub	1	9644-1013 (38577748)
66	Friction Plate (b)	3	6302-8241 (38548186)
67	Drive Plate (b)	5	6302-8341 (38548194)
68	Brake Reaction Plate	1	9644-1015 (38577763)
72	Friction Plate with Spring Clips (b)	3	9644-1552 (38774139)
88	Muffler Assembly	1	3652-3677 (47841957001)
89	Ring Flat	1	9644-0566 (38775649)
93	Expansive Ring	1	4789-8541 (38775581)
94	Capscrew	1	4130-9606 (38523601)
95	Adapter Support	1	9644-0564 (38775623)
96	Plate Stop	1	9644-0565 (38775631)
151	Gasket	1	9644-1503 (38767372)
157 (a)	O-Ring	1	5823-9129 (38767380)
340	Limit Switch Valve Kit (c)	2	7645-0081 (38794533)
	Plastic Cap (d)		6454-5742 (47919056001)
341	Planet Support Assembly (e)	1	7644-0759 (38795001)

(a) Recommended spares, 2 years normal operation (ordering kits listed below is recommended).

(b) When ordering disc brake replacement parts a new motor housing is required, refer to MHP2652. This change effects hoists with serial numbers of 08-04-52 and below.

(c) Only for Standard version.

(d) Only for Xtrem version.

(e) Do not disassemble planet support assembly item 341.

Table 9. Kit Repair List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
340	Limit Switch Valve Kit	2	7645-0081 (38794533)
701	Disc Brake Repair Kit (includes items 6, 7, 10, 64, 66, 67, and 72)	1	7650-0089 (38780904)
708	Reducer Repair Kit (includes items 1, 4, 6, 7, 9 – 11, 14, 15, 18, 20, and 39)	1	7650-0092 (38780938)
742	RPK-LC2A060Q-CS (includes items 4, 6, 7, 8, 10, 18, 20, 28, 29, 31, 32, 34, 35, 37, 38, 39, 41, 43, 44, 48, 55, 56 and 62)	1	(47539567001)
743	RBK-LC2A060Q-CS (includes items 4, 6, 7, 8, 10, 18, 20, 28, 29, 30, 31, 32, 34, 35, 37, 38, 39, 41, 43, 44, 48, 50, 55, 56 and 62)	1	(47539568001)

LC2A060S-120D Powerhead Assembly

Figure 5. LC2A060S-120D Powerhead Assembly Drawing (MHP5409)

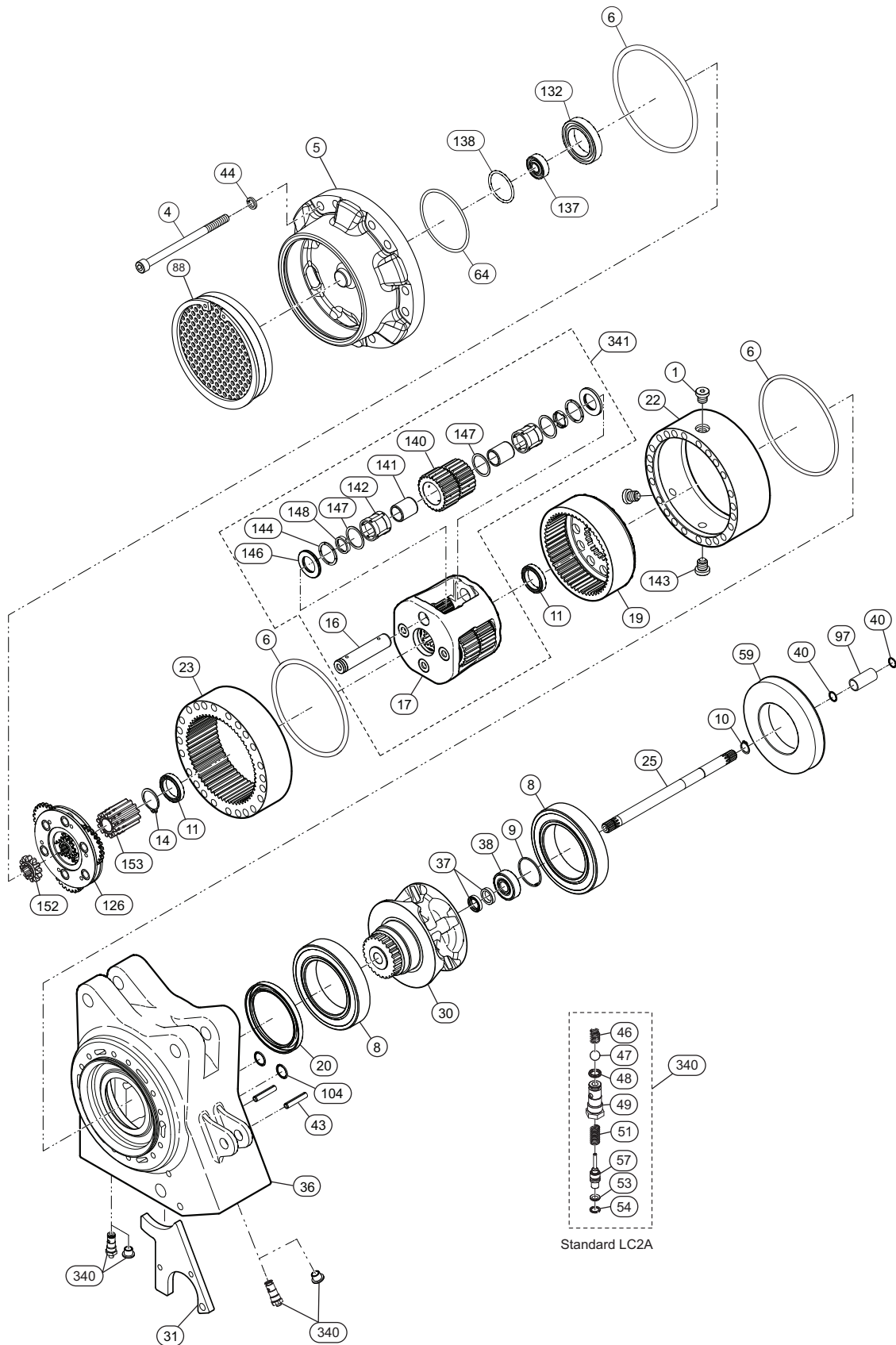


Table 10. LC2A060S-120D Powerhead Assembly Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
1	Plug	2	6511-0741 (38648192)
4	Capscrew	12	4133-4506 (38782249)
5	Reduction Gear End Cover	1	9645-1867 (47841925001)
6 (a)	O-Ring	3	5824-0029 (38782124)
8	Bearing	2	5005-0015 (38523346)
9	Retainer Ring	1	4770-3042 (38635728)
10 (a)	Retainer Ring	1	4770-0015 (38522264)
11	Bearing	2	5090-0006 (38762191)
14	Retainer Ring	1	4770-0030 (38523395)
16	Planet Axle	4	9645-0024 (38761755)
17	Planetary Carrier	1	9645-0019 (38761763)
19	Ring Gear	1	9645-0011 (38761474)
20 (a)	Oil Seal	1	5801-5130 (38639472)
22	Reducer Housing	1	9645-0121 (38781936)
23	Ring Gear	1	9645-0010 (38761136)
25	Pinion Shaft	1	9645-0033 (38764080)
30	Center Section Repair Kit	1	(47539657001)
31	Chain Stripper	1	9645-0063 (38774576)
36	Hoist Body	1	9645-0042 (38776712)
37 (a)	Oil Seal	2	5801-9830 (38540456)
38	Bearing	1	5025-0002 (38637138)
40 (a)	O-Ring	2	5821-8129 (38539094)
43	Pin	2	4650-5520 (38635090)
44	Lockwasher	12	4520-1010 (38634226)
46	Spring	2	Order item 340
47	Ball	2	
48	O-Ring	2	
49	Valve Housing	2	
51	Spring	2	
53	O-Ring	2	
54	Snap Ring	2	
57	Valve	2	
59	Adapter Ring	1	9645-0069 (38776779)
64 (a)	O-Ring	1	5820-8529 (38533220)
88	Muffler Assembly	1	3652-3677 (47841957001)
97	Spacer Ring	1	9645-0143 (38782298)
104 (a)	O-Ring	2	5822-2829 (38524435)
126	Primary Gear Assembly	1	7645-0075 (46896429)
132	Bearing	1	5090-0008 (38782173)
137	Bearing	1	5010-0001 (38540803)
138 (a)	O-Ring	1	5822-4229 (38528592)

LC2A060S-120D Powerhead Assembly

Table 10. LC2A060S-120D Powerhead Assembly Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
140	Planetary Gear	4	9645-0012 (38761458)
141	Internal Bearing Ring	8	5630-0642 (38782207)
142	Needle Bearing	8	5650-3530 (38782215)
143	Plug	1	6517-0242 (38784815)
144	Needle Bearing	8	5731-2632 (38528501)
146	Needle Bearing Spacer	8	5605-4225 (38528485)
147	Spacer	12	9645-0136 (38782090)
148	Ring	8	9645-0137 (38782108)
152	Sun Gear	1	9645-0036 (38764098)
153	Sun Gear	1	9645-0038 (38764114)
340	Limit Switch Valve Kit ^(b)	2	7645-0081 (38794533)
	Plastic Cap ^(c)		6454-5742 (47919056001)
341 ^(d)	Planet Support Assembly	1	7645-0133 (38794558)

^(a) Recommended spares, 2 years operation (ordering kit listed below is recommended).

^(b) Only for Standard version.

^(c) Only for Xtrem version.

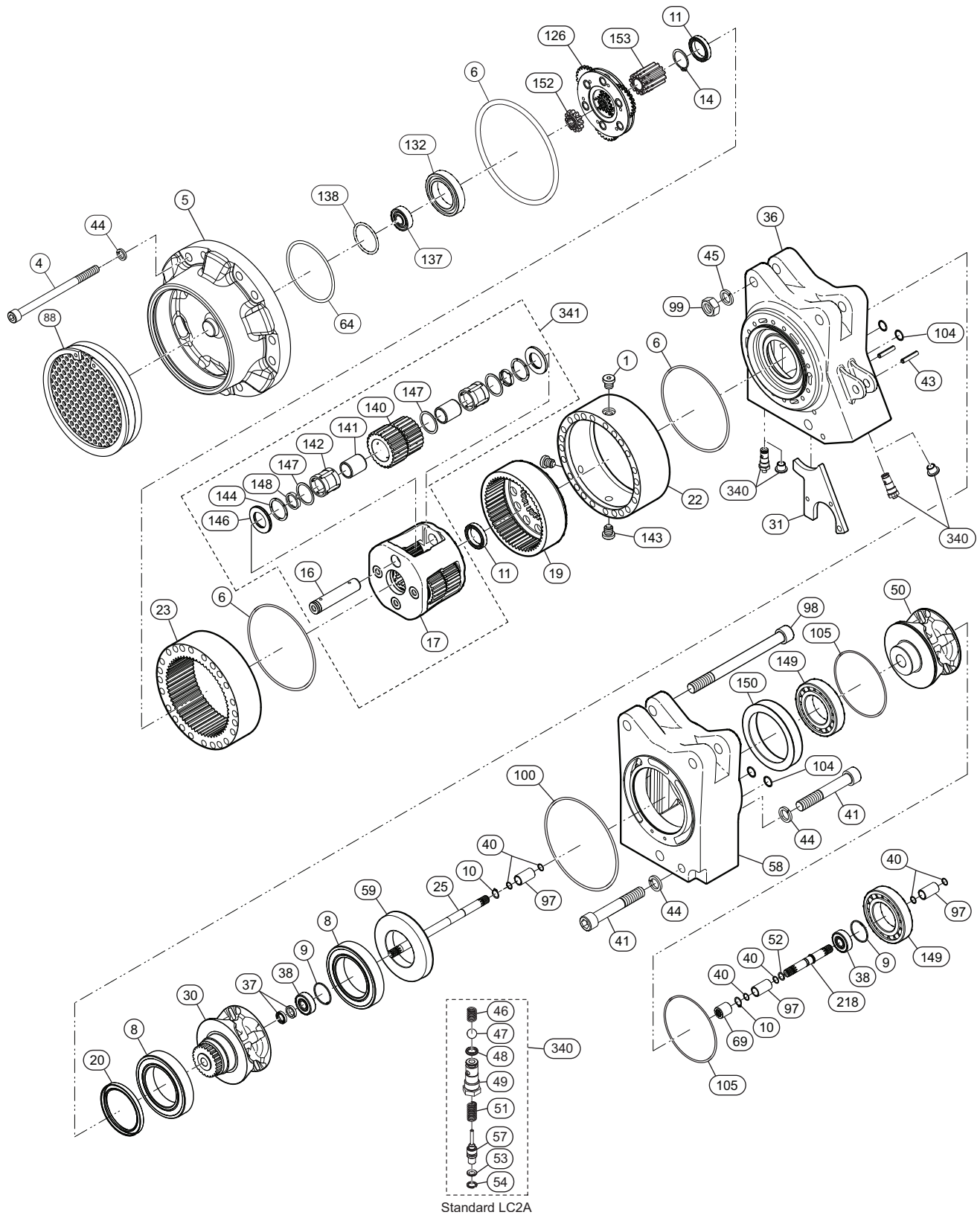
^(d) Do not disassemble planet support assembly item 341.

Table 11. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
340	Limit Switch Valve Kit	2	7645-0081 (38794533)
711	Reducer Repair Kit (includes items 1, 4, 6, 10, 11, 14, 132, 137, and 141 – 148)	1	7650-0230 (38791919)
712	Center Section Repair Kit (includes items 1, 4, 6, 10, 14, 16, 132, 137, 138, and 141 – 148)	1	7650-0234 (38791950)
744	RBK-LC2A060/120-CS-IND Repair Kit (includes items 1, 4, 6, 8, 9, 10, 11, 20, 31, 37, 38, 43, 44, 104, 132, 137 and 138)	1	(47539657001)

LC2A180T-250Q Powerhead Assembly

Figure 6. LC2A180T-250Q Powerhead Assembly Drawing (MHP5410)



LC2A180T-250Q Powerhead Assembly

Table 12. LC2A180T-250Q Powerhead Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
1 ^(a)	Plug	2	6511-0741 (38648192)
4	Capscrew	12	4133-4506 (38782249)
5	Reduction Gear End Cover	1	9645-1867 (47841925001)
6	O-Ring	3	5824-0029 (38782124)
8	Bearing	2	5005-0015 (38523346)
9	Retainer Ring	2	4770-3042 (38635728)
10	Retainer Ring	2	4770-0015 (38522264)
11	Bearing	2	5090-0006 (38762191)
14	Retainer Ring	1	4770-0030 (38523395)
16	Planet Axle	4	9645-0024 (38761755)
17	Planetary Carrier	1	9645-0019 (38761763)
19	Ring Gear	1	9645-0011 (38761474)
20	Oil Seal	1	5801-5130 (38639472)
22	Reducer Housing	1	9645-0121 (38781936)
23	Ring Gear	1	9645-0010 (38761136)
25	Pinion Shaft	1	9645-0033 (38764080)
30	Center Section Repair Kit	1	(47539658001)
31	Chain Stripper	1	9645-0063 (38774576)
36	Hoist Body	1	9645-0042 (38776712)
37	Oil Seal	2	5801-9830 (38540456)
38	Bearing	2	5025-0002 (38637138)
40	O-Ring	6	5821-8129 (38539094)
41	Capscrew	2	4133-5806 (47512507001)
43	Pin	2	4650-5520 (38635090)
44	Lockwasher	12	4520-1010 (38634226)
45	Rondelle Grower	2	4520-0020 (38524666)
46	Spring	2	Order item 340
47	Ball	2	
48	O-Ring	2	
49	Valve Housing	2	
50	Center Section Repair Kit	1	(47539658001)
52	Spacer	1	9645-0320 (38796579)
51	Spring	2	Order item 340
53	O-Ring	2	
54	Snap Ring	2	
57	Valve	2	
58	Chain Guide Housing	1	9645-0050 (38776738)
59	Adapter	1	9645-0069 (38776779)
64	O-Ring	1	5820-8529 (38533220)
69	Coupling Sleeve	1	9645-0158 (38785382)
88	Muffler Assembly	1	3652-3677 (47841957001)

Table 12. LC2A180T-250Q Powerhead Assembly Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
97	Spacer Ring	3	9645-0143 (38782298)
98	Capscrew	2	4133-5906 (47512510001)
99	Locknut	2	4300-4011 (38541629)
100	O-Ring	1	5823-9329 (38773685)
104	O-Ring	4	5822-2829 (38524435)
105	O-Ring	2	5821-2829 (38524575)
126	Primary Gear Assembly	1	7645-0075 (46896429)
132	Bearing	1	5090-0008 (38782173)
137	Bearing	1	5010-0001 (38540803)
138	O-Ring	1	5822-4229 (38528592)
140	Planetary Gear	4	9645-0012 (38761458)
141	Internal Bearing Ring	8	5630-0642 (38782207)
142	Needle Bearing	8	5650-3530 (38782215)
143	Plug	1	6517-0242 (38784815)
144	Needle Bearing	8	5731-2632 (38528501)
146	Needle Bearing Spacer	8	5605-4225 (38528485)
147	Bearing	12	9645-0136 (38782090)
148	Ring	8	9645-0137 (38782108)
149	Bearing	2	5120-0012 (38637534)
150	Adapter	1	9645-0056 (38776761)
152	Sun Gear	1	9645-0036 (38764098)
153	Sun Gear	1	9645-0038 (38764114)
218	Pinion Shaft	1	9645-0156 (38783239)
340	Limit Switch Valve Kit ^(b)	2	7645-0081 (38794533)
	Plastic Cap ^(c)		6454-5742 (47919056001)
341	Planet Support Assembly ^(d)	1	7645-0133 (38794558)

^(a) Recommended spares, 2 years normal operation (ordering kits listed below is recommended).

^(b) Only for Standard version.

^(c) Only for Xtrem version.

^(d) Do not disassemble planet support assembly item 341.

Item No.	Description of Part	Total Qty.	Part Number (CCN)
340	Limit Switch Valve Kit	2	7645-0081 (38794533)
711	Reducer Repair Kit (includes items 1, 4, 6, 10, 11, 14, 132, 137, 138, and 141 – 148)	1	7650-0230 (38791919)
715	Center Section Repair Kit (includes items 1, 4, 14, 16, 132, 137, 138, and 141 – 148)	1	7650-0237 (38791984)
745	RBK-LC2A180/250-CS Repair Kit (includes items 1, 4, 6, 8, 9, 10, 11, 20, 30, 31, 37, 38, 43, 44, 99, 104, 105, 132, 137, 138 and 149)	1	(47539658001)

3.5HP Motor Assembly without Emergency Stop Adapter

Figure 7. 3.5HP Motor Assembly without Emergency Stop Adapter Drawing (MHP2652)

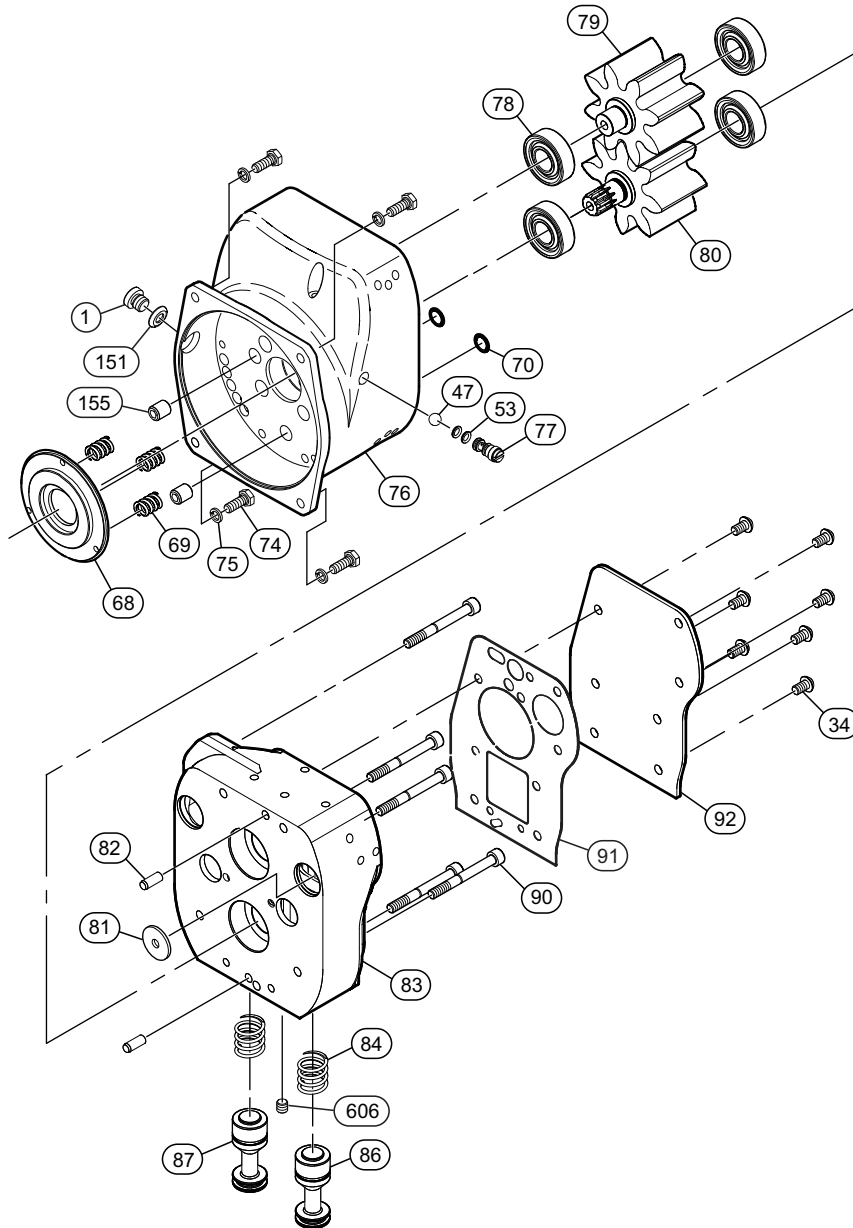


Table 13. 3.5HP Motor Assembly without Emergency Stop Adapter Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
---	Motor Assembly	1	7644-1114 (38794871)
1	Plug	1	6511-0441 (38648184)
34	Capscrew	7	4120-1604 (38597522)
47	Ball	1	6940-1625 (38542924)
53 (a)	O-Ring	2	5820-9229 (38534517)
68	Brake Reaction Plate	1	9644-1015 (38577763)
69	Springs	3	6916-5532 (38522587)
70 (a)	O-Ring	2	5823-7429 (38597241)
74 (a)	Capscrew	4	4102-3001 (38749602)

3.5HP Motor Assembly without Emergency Stop Adapter

Table 13. 3.5HP Motor Assembly without Emergency Stop Adapter Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
75 ^(a)	Lockwasher	4	4520-1006 (38540142)
76 ^(b)	Motor Housing (new style)	1	9644-0575 (38776266)
77	Check Valve	1	9579-0106 (38551198)
78	Bearing Sealed (After 2009)	4	5016-0002 (38636999)
	Bearing Open (Before 2009)		5010-0002 (38636742)
79 ^(c)	Idle Gear	1	(47524780006)
80 ^(c)	Drive gear		
81	Exhaust Washer	1	9644-1145 (38598868)
82	Pin	2	4600-1116 (38522231)
83	Motor Cover	1	9644-0515 (38768735)
84	Spring	2	6919-0341 (38758272)
86	Valve Assembly (includes O-Rings)	1	7644-1356 (38758389)
87	Valve Assembly (includes O-Rings)	1	7644-1357 (38758397)
90	Capscrew	5	4133-2206 (38597498)
91 ^(a)	Gasket	1	9644-1188 (38634770)
92	Cover Plate	1	9644-1027 (38577938)
151	Gasket	1	9644-1503 (38767372)
155	Plug	2	9644-0725 (38789632)
606	Setscrew	3	4200-7407 (38540498)

^(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

^(b) Old Style motor housing used on hoist with serial number 08-04-52 and below. When ordering any new brake parts a new motor housing is required.

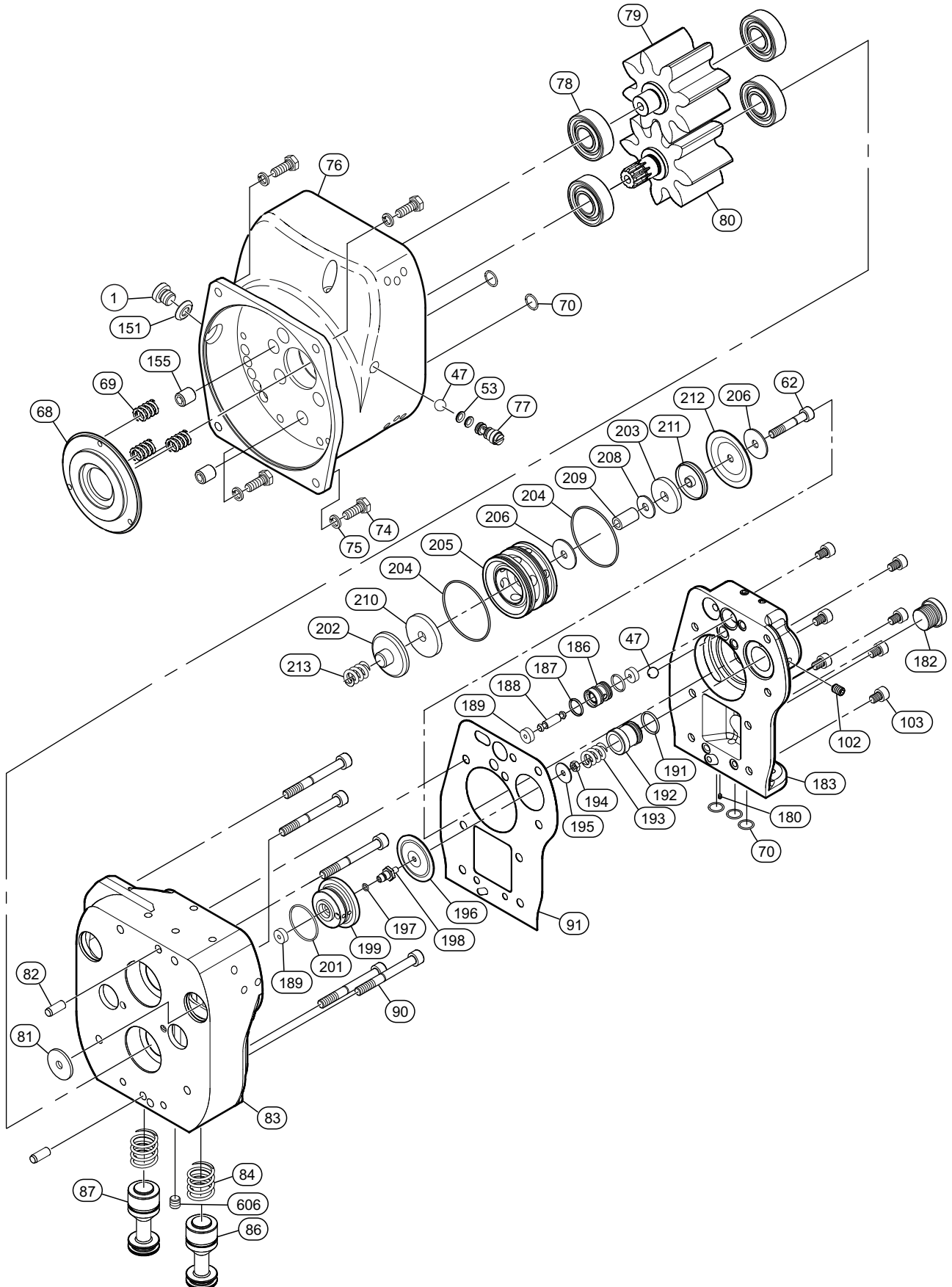
^(c) Idle Gear (79) and Drive Gear (80) are not sold separately.

Table 14. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
719	3.5HP Motor Repair Kit (includes items 7, 34, 47, 53, 70, 74, 75, 77, 78, 81, 82, 84, 86, 87, 90 and 91)	1	7650-0133 (38781340)
746	3.5HP Motor Rebuild Kit (includes items 92 and 104)	1	(47524780006)

3.5HP Motor Assembly with Emergency Stop Adapter

Figure 8. 3.5HP Motor Assembly with Emergency Stop Adapter Drawing (MHP3037)



3.5HP Motor Assembly with Emergency Stop Adapter

Table 15. 3.5HP Motor Assembly with Emergency Stop Adapter Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
--	Motor Assembly	1	7644-1115 (38794863)
1	Plug	1	6511-0441 (38648184)
47	Ball	1	6940-1625 (38542924)
53 (a)	O-Ring	2	5820-9229 (38534517)
68	Brake Reaction Plate	1	9644-1015 (38577763)
69	Springs	3	6916-5532 (38522587)
70 (a)	O-Ring	2	5823-7429 (38597241)
74 (a)	Capscrew	4	4102-3001 (38749602)
75 (a)	Lockwasher	4	4520-1006 (38540142)
76 (b)	Motor Housing (new style)	1	9644-0575 (38776266)
	Motor Housing (old style)		9644-1016 (38577904)
77	Check Valve	1	9579-0106 (38551198)
78	Bearing "Closed"	4	5016-0002 (38636999)
	Bearing "Open"		5010-0002 (38636742)
79 (c)	Idle Gear	1	(47524780007)
80 (a)	Drive Gear		
81	Exhaust Washer	1	9644-1145 (38598868)
82	Pin	2	4600-1116 (38522231)
83	Motor Cover (for Emergency Stop Adapter)	1	9644-1023 (38577912)
84	Spring	2	6919-0341 (38758272)
86	Valve Assembly (includes O-Rings)	1	7644-1356 (38758389)
87	Valve Assembly (includes O-Rings)	1	7644-1357 (38758397)
90	Capscrew	5	4133-2206 (38597498)
91 (a)	Gasket	1	9644-1188 (38634770)
151	Gasket	1	9644-1503 (38767372)
155	Plug	2	9644-0725 (38789632)
606	Setscrew	3	4200-7406

(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

(b) Old Style motor housing used on hoist with serial number 08-04-52 and below. When ordering any new brake parts a new motor housing is required.

(c) Idle Gear (79) and Drive Gear (80) are not sold separately.

Table 16. Emergency Stop Adapter for Pendant Control Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
47	Ball	1	6940-1625 (38542924)
62	Capscrew	1	4130-1106 (38535779)
70 (a)	O-Ring	3	5823-7429 (38597241)
102	Setscrew	1	4200-9207 (38597266)
103	Capscrew	7	4133-2306 (38597506)
180	Nozzle	1	9644-1187 (38634762)
182	Plug	1	6512-8928 (38648291)
183	Emergency Stop End Cover	1	9644-1077 (38593554)
186	Valve Seat	1	9644-1106 (38593562)
187 (a)	O-Ring	2	5820-5029 (38522645)

3.5HP Motor Assembly with Emergency Stop Adapter

Table 16. Emergency Stop Adapter for Pendant Control Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
188 ^(a)	Axle	1	9644-1105 (38593638)
189 ^(a)	Seal	3	9644-1103 (38593653)
191 ^(a)	O-Ring	1	5821-1729 (38524401)
192	Regulating Screw	1	9644-1096 (38593588)
193	Spring	1	6913-7041 (38570743)
194	Stop Nut	1	4300-1111 (38633046)
195	Washer	1	4570-1004 (38570792)
196 ^(a)	Diaphragm	1	9644-1097 (38593679)
197 ^(a)	O-Ring	1	5822-2329 (38522702)
198 ^(a)	Plunger	1	9636-0017 (38745626)
199	Base Plate	1	9644-1095 (38593620)
201 ^(a)	O-Ring	1	5823-7029 (38570750)
202	Cap	1	9644-1101 (38593604)
203 ^(a)	Seal	1	9617-0056 (38544300)
204 ^(a)	O-Ring	2	5823-7129 (38570768)
205	Valve Seat	1	9644-1098 (38593570)
206	Washer	2	4570-1006 (38570784)
208	Washer	1	4560-1006 (38570800)
209	Sleeve	1	9644-1102 (38593661)
210 ^(a)	Seal	1	9644-1104 (38593596)
211	Cap	1	9644-1100 (38593612)
212 ^(a)	Diaphragm Kit	1	(47560888001)
213	Spring	1	6915-8732 (38525333)

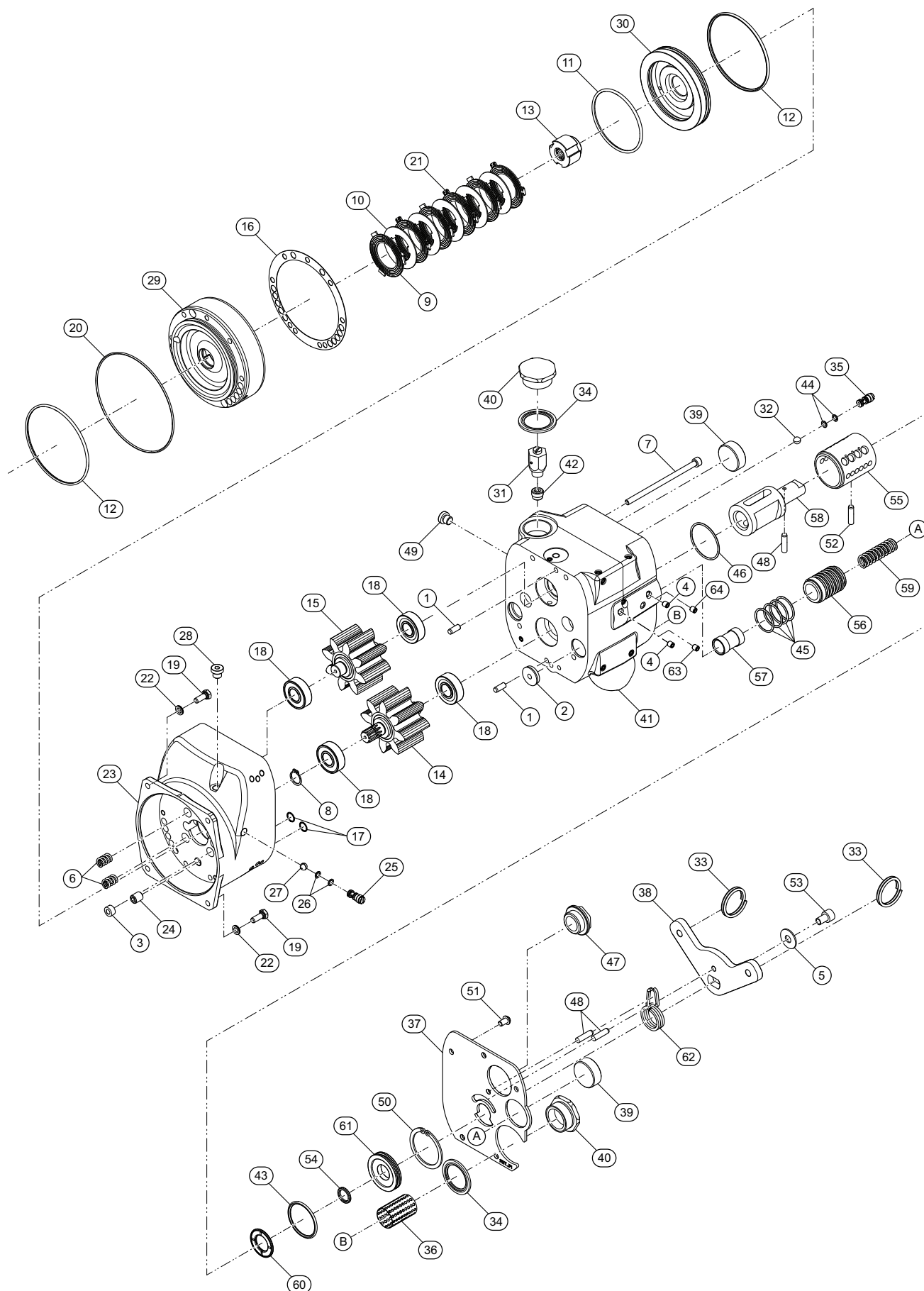
^(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

Table 17. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
720	3.5HP Motor for Emergency Stop Version Repair Kit (includes items 7, 34, 47, 53, 70, 75, 77, 78, 81, 82, 84, 85, 87, 90, 91, 103, 180, 194, 195, 198, 209, 607 and 612)	1	7650-0135 (38781365)
747	RBK-MOTOR-3,5HP-IND-CE (includes items 47, 53, 62, 70, 74, 77, 78, 79, 80, 82, 84, 86, 87, 90, 91, 102, 103, 180, 187, 189, 191, 192, 193, 194, 196, 197, 201, 203, 204, 210 and 213)	1	(47524780007)
748	RPK-3,5/6HP M-TL+STOP (includes items 50, 84, 90, 101, 103, 180, 187, 189, 191, 192, 193, 194, 196, 197, 201, 203, 204, 210, 213 and 214)	1	(47564855001)

3.5 HP Motor and Brake Assembly - Xtrem Version

Figure 9. 3.5 HP Motor and Brake Assembly - Xtrem Version Drawing (MHP5419)



3.5 HP Motor and Brake Assembly - Xtrem Version

Table 18. 3.5 HP Motor and Brake Assembly - Xtrem Version Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
1	Dowel Pin	2	4600-1116 (38522231)
2	Exhaust Washer	2	9644-1145 (38598868)
3	Plug	2	9644-0725 (38789632)
4	Screw	2	4200-7407 (38540498)
5	Washer	1	4560-0108 (38783627)
6	Spring	3	6916-5532 (38522587)
7	Screw	3	4131-2606 (47910704001)
8	Circlip	1	4770-0015 (38522264)
9	Friction Disc	3	6302-8241 (38548186)
10	Steel Disc	5	6302-8341 (38548194)
11	O-Ring	1	5823-5129 (38548228)
12	O-Ring	2	5823-5229 (38548236)
13	Brake Coupling	1	9644-1013 (38577748)
14	Drive Gear	1	9644-1020 (38577789)
15	Idle Gear	1	9644-1021 (38577797)
16	Gasket	1	9644-1048 (38578258)
17	O-Ring	2	5823-7429 (38597241)
18	Bearing	4	5016-0002 (38636999)
19	Screw	4	4102-3001 (38749602)
20	O-Ring	1	5823-9129 (38767380)
21	Spring	3	9644-1552 (38774139)
22	Washer	4	4510-0206 (38797304)
23	Motor Housing without Drain Plug	1	9652-3494 (47652200001)
24	Screw	1	4200-9607 (38773891)
25	Check Valve	1	9579-0106 (38551198)
26	O-Ring	2	5820-9229 (38534517)
27	Ball	1	6940-1625 (38542924)
28	Plug	1	6511-0441 (38648184)
(a)	Screw	13	4200-7407 (38540498)
29	Brake Housing	1	9652-3702 (47897053001)
30	Brake Piston	1	9652-2487 (47652246001)
31	Adjustable Flow Limiter Nozzle	1	6454-4242 (47906433001)
32	Ball	1	6940-1625 (38542924)
33	Chain Attachment Clip	2	9053-0031 (38525390)
34	BS-Ring	2	5812-2430 (47905566001)
35	Check Valve	1	9579-0106 (38551198)
36	Cylindrical Filter	1	6824-4142 (47887969001)
37	Cover	1	9645-1962 (47904729001)
38	Pullcord Lever	1	9645-1963 (47897894001)
39	Headless Plug	2	6454-4442 (47905571001)
40	Hollow Plug	2	6824-4042 (47905565001)

3.5 HP Motor and Brake Assembly - Xtrem Version

Table 18. 3.5 HP Motor and Brake Assembly - Xtrem Version Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
41	Housing	1	9645-1961 (47897893001)
42	Non-Return Valve	1	5794-6242 (47925448001)
43	O-Ring	1	5822-4229 (38528592)
44	O-Ring	2	5820-9229 (38534517)
45	O-Ring	4	5824-6329 (47887968001)
46	O-Ring	1	5824-6429 (47894757001)
47	Oil Level Plug	1	6824-3842 (47907502001)
48	Pin	3	4600-1216 (38522835)
49	Plug	1	6511-0441 (38648184)
50	Retainer Ring	1	4770-3047 (38523403)
51	Screw	5	4120-1604 (38597522)
52	Screw	1	4200-7707 (38543443)
53	Screw	1	4598-5439 (45985439)
54	Seal	1	5824-1929 (38538245)
55	Sleeve	1	9645-1946 (47876052001)
56	Sleeve	1	9645-1965 (47876077001)
57	Slide	1	9645-1964 (47876059001)
58	Spool	1	9645-1947 (47876053001)
59	Spring	1	6914-4542 (47887967001)
60	Thrust Bearing	1	5605-3520 (38537163)
61	Thrust Bearing Seat	1	9645-1948 (47876056001)
62	Torsion Spring	1	9644-1421 (38760518)
63	Nozzle	1	9644-1187 (38634762)
64	Nozzle	1	9645-2008 (47929506001)
65 ^(a)	Screw	2	4132-2206 (38541132)

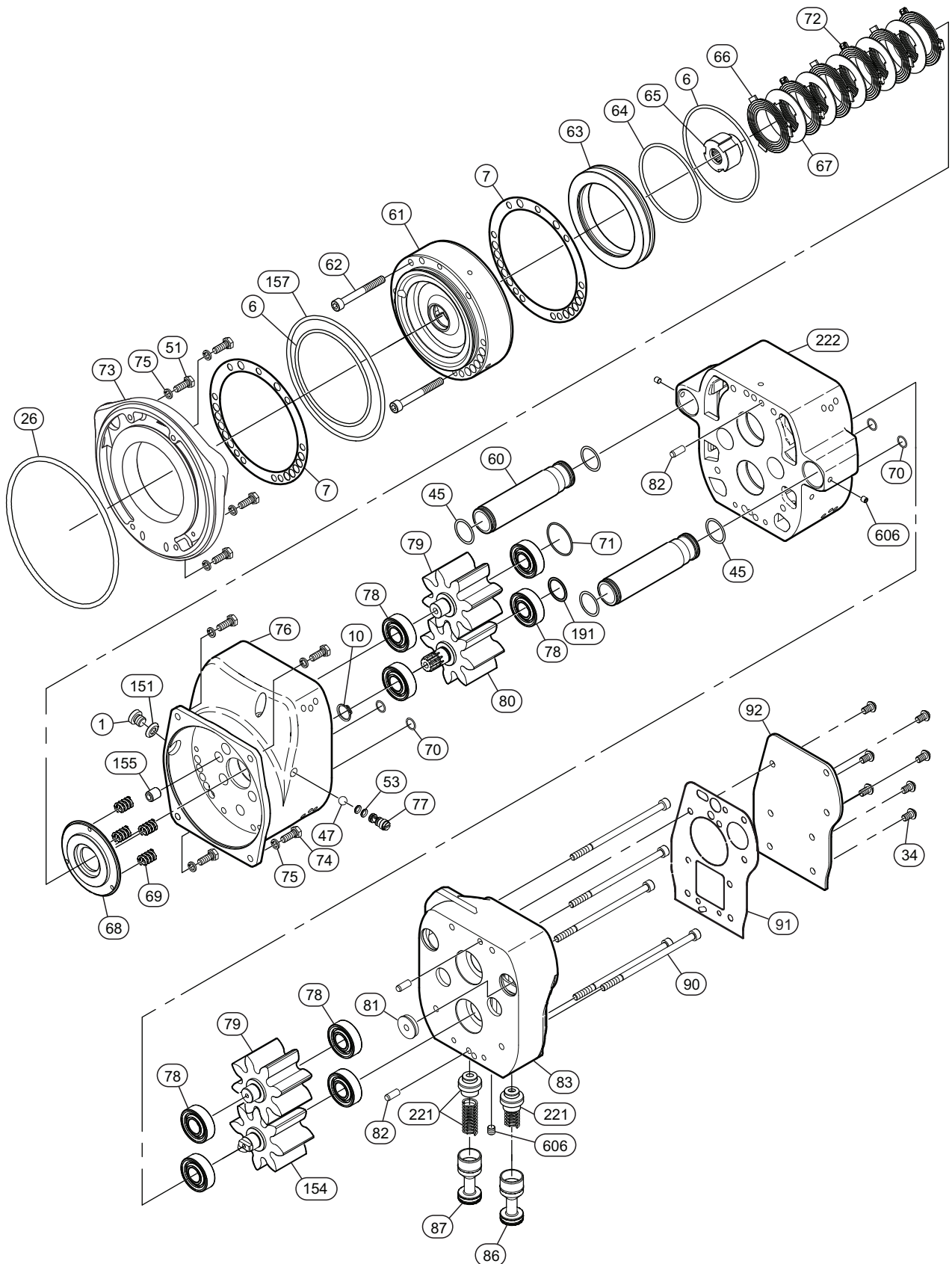
^(a) Item not illustrated.

Table 19. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
800	Motor Kit (includes items 1, 2, 4, 5, 7, 8, 14, 15, 16, 17, 18, 19, 22, 25, 26, 27, 28, 49, 32, 33, 34, 35, 39, 40, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 56, 59, 60, 61, 62, 63, 64 and 65)	1	7645-2071 (47984726001)
802	Brake Repair Kit (includes items 6, 8, 9, 10, 11, 12, 16 and 21)	1	7650-0223 (38791844)
803	Distributor Kit (includes items 5, 33, 37, 38, 43, 46, 48, 50, 51, 52, 53, 54, 55, 58, 60, 61 and 62)	1	7645-2073 (47984728001)
804	Lubricator and filter Kit (includes items 31, 34, 36, 40 and 42)	1	7645-2074 (47984729001)
805	Torque Limiter Kit (includes items 39, 45, 56, 57, 59, 63 and 64)	1	7645-2075 (47984730001)

6HP Motor and Disc Brake Assembly without Emergency Stop Adapter

Figure 10. 6HP Motor and Disc Brake Assembly without Emergency Stop Adapter (MHP2999)



6HP Motor and Disc Brake Assembly without Emergency Stop Adapter

Table 20. 6HP Motor and Disc Brake Assembly Without Emergency Stop Adapter Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
--	Motor Assembly (with Disc Brake)	1	7645-0071 (38794889)
1 (a)	Plug	1	6511-0441 (38648184)
6 (a)	O-Ring	2	5823-5229 (38548236)
7 (a)	Gasket	2	9644-1048 (38578258)
10 (a)	Retainer Ring	1	4770-0015 (38522264)
26 (a)	O-Ring	1	5823-9329 (38773685)
34	Capscrew	7	4120-1604 (38597522)
45	O-Ring	4	5822-0129 (38530697)
47	Ball	1	6940-1625 (38542924)
51	Capscrew	4	4131-2206 (38543385)
53 (a)	O-Ring	2	5820-9229 (38534517)
60	Exhaust Pipe	2	9645-0031 (38764304)
61	Brake Housing	1	9644-0574 (38776258)
62	Capscrew	2	4132-2306 (38540183)
63	Piston	1	9644-1014 (38578274)
64 (a)	O-Ring	1	5823-5129 (38548228)
65	Splined Hub	1	9644-1013 (38577748)
66	Friction Plate	3	6302-8241 (38548186)
67	Drive Plate	5	6302-8341 (38548194)
68	Brake Reaction Plate	1	9644-1015 (38577763)
69	Spring	4	6916-5532 (38522587)
70 (a)	O-Ring	4	5823-7429 (38597241)
71 (a)	O-Ring	1	5823-9529 (38773917)
72	Friction Plate with Spring Clips	3	9644-1552 (38774139)
73	End Cover	1	9645-0044 (38773362)
74	Capscrew	4	4102-3001 (38749602)
75	Washer	8	4520-1006 (38540142)
76	Motor Housing	1	9644-0575 (38776266)
77	Check Valve	1	9579-0106 (38551198)
78	Bearing	8	5016-0002 (38636999)
79 (b)	Idle Gear	1	(47524780014)
80 (b)	Drive Gear		
81	Exhaust Washer	1	9644-1145 (38598868)
82	Pin	4	4600-1116 (38522231)
83	Motor Cover	1	9644-0515 (38768735)
86	Valve Assembly (includes O-Rings)	1	7645-0379 (46880159)
87	Valve Assembly (includes O-Rings)	1	7645-0381 (46880167)
90	Capscrew	5	4133-2406 (38597548)
91 (a)	Gasket	1	9644-1188 (38634770)
92	Cover Plate	1	9644-1027 (38577938)
151	Gasket	1	9644-1503 (38767372)

6HP Motor and Disc Brake Assembly without Emergency Stop Adapter

Table 20. 6HP Motor and Disc Brake Assembly Without Emergency Stop Adapter Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
154 ^(b)	Drive Gear for Second Step	1	(47524780014)
155	Plug	2	9644-0725 (38789632)
157 ^(a)	O-Ring	1	5823-9129 (38767380)
191 ^(a)	O-Ring	1	5821-1729 (38524401)
221	Spring Assembly	2	9645-0380 (46880175)
222	Motor Cover	1	9644-1364 (38766911)
606	Setscrew	8	4200-7407 (38540498)

^(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

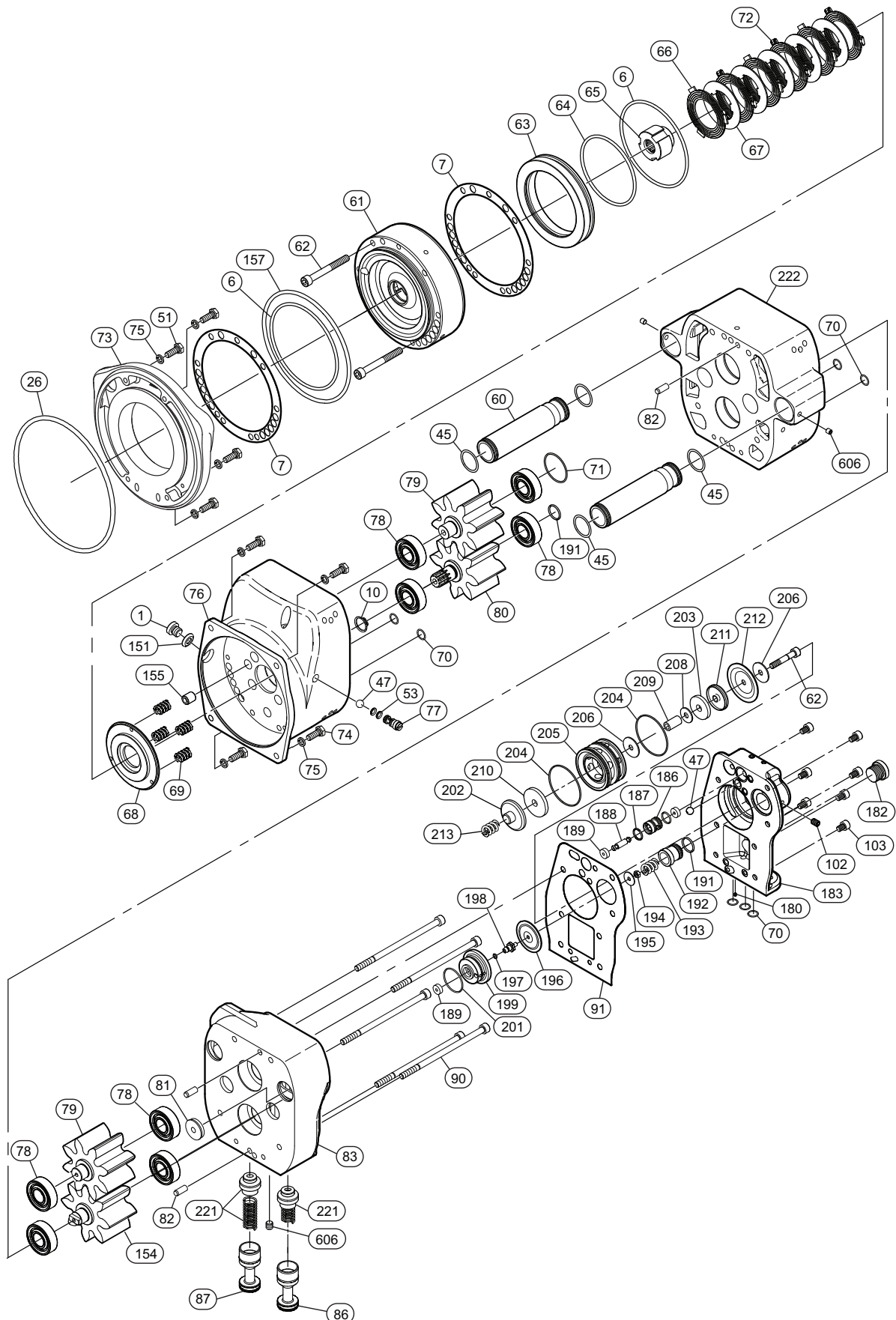
^(b) Idle Gear (79) and Drive Gear (80) and (154) are not sold separately.

Table 21. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
721	6HP Motor Repair Kit (includes items 1, 7, 34, 45, 47, 53, 64, 70, 71, 74, 75, 77, 78, 82, 84, 90, 91, 157, 604, 607 and 612)	1	7650-0219 (38791802)
722	Brake Repair Kit (includes items 6, 7, 10, 64, 66, 67, 69 and 72)	1	7650-0223 (38791844)
749	Rebuild Kit Motor (includes items 7, 10, 26, 34, 45, 47, 51, 62, 70, 71, 74, 75, 78, 79, 80, 82, 86, 87, 90, 91, 154, 156 and 221)	1	(47524780014)

6HP Motor and Disc Brake Assembly with Emergency Stop Adapter

Figure 11. 6HP Motor and Disc Brake Assembly with Emergency Stop Adapter Drawing (MHP3038)



6HP Motor and Disc Brake Assembly with Emergency Stop Adapter

Table 22. 6HP Motor and Disc Brake Assembly With Emergency Stop Adapter Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
---	Motor Assembly	1	7645-0072 (38794897)
1 (a)	Plug	1	6511-0441 (38648184)
6 (a)	O-Ring	2	5823-5229 (38548236)
7 (a)	Gasket	2	9644-1048 (38578258)
10 (a)	Retainer Ring	2	4770-0015 (38522264)
26 (a)	O-Ring	1	5823-9329 (38773685)
45 (a)	O-Ring	4	5822-0129 (38530697)
47	Ball	1	6940-1625 (38542924)
51	Capscrew	4	4131-2206 (38543385)
53 (a)	O-Ring	2	5820-9229 (38534517)
60	Exhaust Pipe	2	9645-0031 (38764304)
61	Brake Housing	1	9644-0574 (38776258)
62	Capscrew	2	4132-2306 (38540183)
63	Piston	1	9644-1014 (38578274)
64 (a)	O-Ring	1	5823-5129 (38548228)
65	Splined Hub	1	9644-1013 (38577748)
66	Friction Plate	3	6302-8241 (38548186)
67	Drive Plate	5	6302-8341 (38548194)
68	Brake Reaction Plate	1	9644-1015 (38577763)
69	Spring	4	6916-5532 (38522587)
70 (a)	O-Ring	4	5823-7429 (38597241)
71 (a)	O-Ring	1	5823-9529 (38773917)
72	Friction Plate with Spring Clips	3	9644-1552 (38774139)
73	End Cover	1	9645-0044 (38773362)
74	Capscrew	4	4102-3001 (38749602)
75	Washer	8	4520-1006 (38540142)
76	Motor Housing	1	9644-0575 (38776266)
77	Check Valve	1	9579-0106 (38551198)
78	Bearing	8	5016-0002 (38636999)
79 (b)	Idle Gear	1	(47524780015)
80 (b)	Drive Gear		
81	Exhaust Washer	1	9644-1145 (38598868)
82	Pin	4	4600-1116 (38522231)
83	Motor Cover (for Emergency Stop Adapter)	1	9644-1023 (38577912)
86	Valve Assembly (includes O-Ring)	1	7645-0379 (46880159)
87	Valve Assembly (includes O-Ring)	1	7645-0381 (46880167)
90	Capscrew	5	4133-2406 (38597548)
91 (a)	Gasket	1	9644-1188 (38634770)
92	Cover Plate	1	9644-1027 (38577938)
151	Gasket	1	9644-1503 (38767372)
154 (b)	Drive Gear for Second Step	1	(47524780015)

6HP Motor and Disc Brake Assembly with Emergency Stop Adapter

Table 22. 6HP Motor and Disc Brake Assembly With Emergency Stop Adapter Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
155	Plug	2	9644-0725 (38789632)
157 (a)	O-Ring	1	5823-9129 (38767380)
191 (a)	O-Ring	1	5821-1729 (38524401)
221	Spring Assembly	1	9645-0380 (46880175)
222	Motor Cover	1	9644-1364 (38766911)
606	Setscrew	5	4200-7407 (38540498)

(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

(b) Idle Gear (79) and Drive Gear (80) and (154) are not sold separately.

Table 23. Emergency Stop Adapter for Pendant Control Parts List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
47	Ball	1	6940-1625 (38542924)
62	Capscrew	1	4130-1106 (38535779)
70 (a)	O-Ring	3	5823-7429 (38597241)
102	Setscrew	1	4200-9207 (38597266)
103	Capscrew	7	4133-2306 (38597506)
180	Nozzle	1	9644-1187 (38634762)
182	Plug	1	6512-8928 (38648291)
183	Emergency Stop End Cover	1	9644-1077 (38593554)
186	Valve Seat	1	9644-1106 (38593562)
187 (a)	O-Ring	2	5820-5029 (38522645)
188 (a)	Axle	1	9644-1105 (38593638)
189 (a)	Seal	3	9644-1103 (38593653)
191 (a)	O-Ring	1	5821-1729 (38524401)
192	Regulating Screw	1	9644-1096 (38593588)
193	Spring	1	6913-7041 (38570743)
194	Stop Nut	1	4300-1111 (38633046)
195	Washer	1	4570-1004 (38570792)
196 (a)	Diaphragm	1	9644-1097 (38593679)
197 (a)	O-Ring	1	5822-2329 (38522702)
198 (a)	Plunger	1	9636-0017 (38745626)
199	Base Plate	1	9644-1095 (38593620)
201 (a)	O-Ring	1	5823-7029 (38570750)
202	Cap	1	9644-1101 (38593604)
203 (a)	Seal	1	9617-0056 (38544300)
204 (a)	O-Ring	2	5823-7129 (38570768)
205	Valve Seat	1	9644-1098 (38593570)
206	Washer	2	4570-1006 (38570784)
208	Washer	1	4560-1006 (38570800)
209	Sleeve	1	9644-1102 (38593661)
210 (a)	Seal	1	9644-1104 (38593596)
211	Cap	1	9644-1100 (38593612)

6HP Motor and Disc Brake Assembly with Emergency Stop Adapter

Table 23. Emergency Stop Adapter for Pendant Control Parts List (continued)

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
212 ^(a)	Diaphragm Kit	1	(47560888001)
213	Spring	1	6915-8732 (38525333)

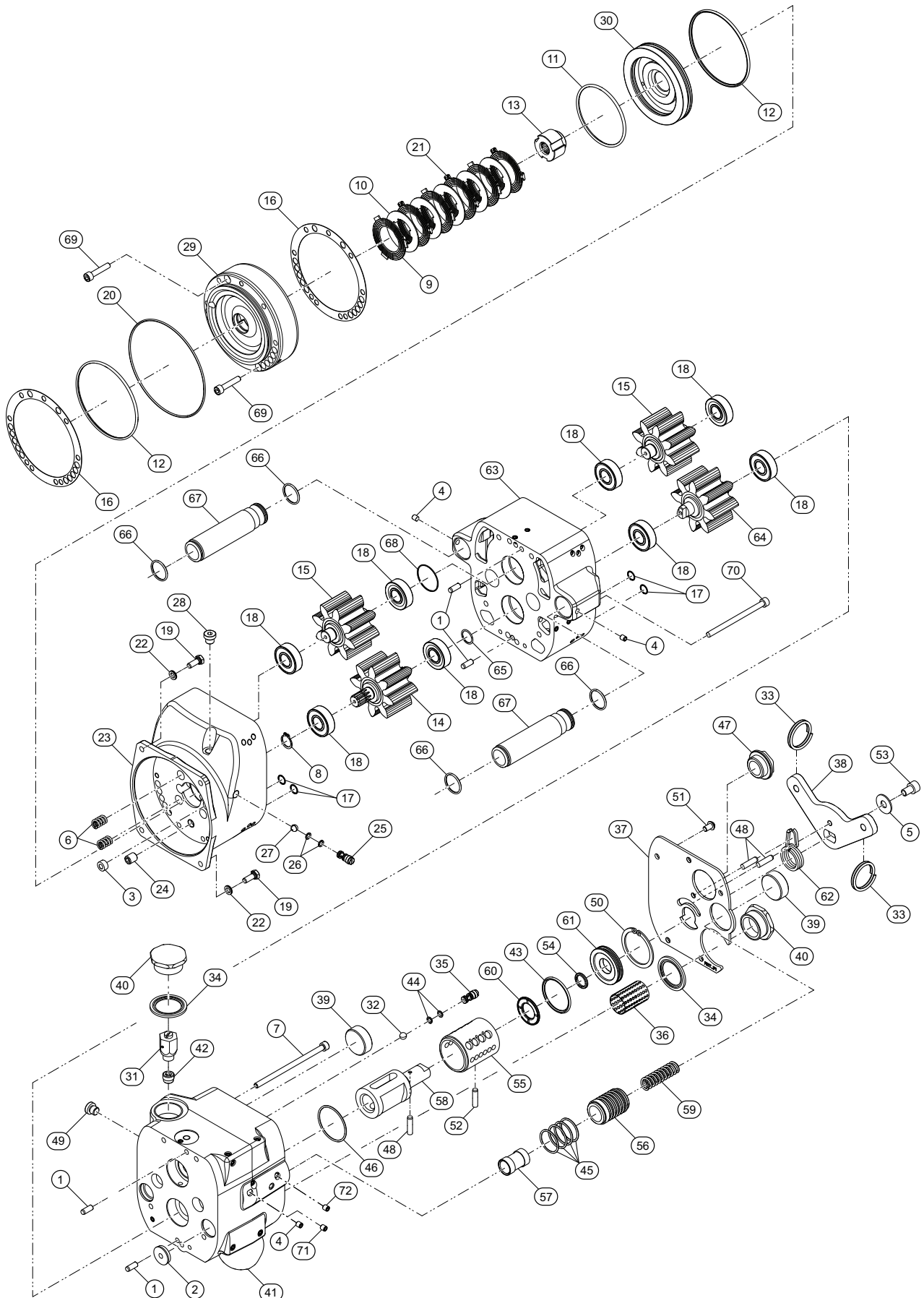
^(a) Recommended spares, 2 years operation (ordering kits listed below is recommended).

Table 24. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
722	Brake Repair Kit (includes items 6, 7, 10, 64, 66, 67, 69 and 72)	1	7650-0223 (38791844)
723	6 HP Motor For Emergency Stop Version Repair Kit (includes items 1, 7, 10, 34, 45, 47, 53, 64, 70, 71, 74, 75, 77, 78, 82, 84, 86, 87, 90, 91, 157, 186, 189, 191 — 193, 197, 201, 203, 204, 206, 212, 213, 604, 607 and 612)	1	7650-0222 (38791836)
750	Rebuild Motor Kit (includes items 7, 10, 26, 45, 47, 51, 62, 70, 71, 74, 75, 78, 79, 80, 82, 86, 87, 90, 91, 102, 103, 154, 156, 180, 187, 189, 191, 192, 193, 194, 196, 197, 201, 203, 204, 210, 213 and 221)	1	(47524780015)

6 HP Motor and Brake Assembly - Xtrem Version

Figure 12. 6 HP Motor and Brake Assembly - Xtrem Version Drawing (MHP5420)



6 HP Motor and Brake Assembly - Xtrem Version

Table 25. 6 HP Motor and Brake Assembly - Xtrem Version Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
1	Dowel Pin	4	4600-1116 (38522231)
2	Exhaust Washer	1	9644-1145 (38598868)
3	Plug	1	9644-0725 (38789632)
4	Screw	3	4200-7407 (38540498)
5	Washer	1	4560-0108 (38783627)
6	Spring	4	6916-5532 (38522587)
7	Screw	3	4131-2706 (47910705001)
8	Circlip	1	4770-0015 (38522264)
9	Friction Disc	3	6302-8241 (38548186)
10	Steel Disc	5	6302-8341 (38548194)
11	O-Ring	1	5823-5129 (38548228)
12	O-Ring	2	5823-5229 (38548236)
13	Brake Coupling	1	9644-1013 (38577748)
14	Drive Gear	1	9644-1020 (38577789)
15	Idle Gear	2	9644-1021 (38577797)
16	Gasket	2	9644-1048 (38578258)
17	O-Ring	4	5823-7429 (38597241)
18	Bearing	8	5016-0002 (38636999)
19	Screw	4	4102-3001 (38749602)
20	O-Ring	1	5823-9129 (38767380)
21	Spring	3	9644-1552 (38774139)
22	Washer	4	4510-0206 (38797304)
23	Motor Housing without Drain Plug	1	9652-3494 (47652200001)
24	Screw	1	4200-9607 (38773891)
25	Check Valve	1	9579-0106 (38551198)
26	O-Ring	2	5820-9229 (38534517)
27	Ball	1	6940-1625 (38542924)
28	Plug	1	6511-0441 (38648184)
29	Brake Housing	1	9652-3702 (47897053001)
30	Brake Piston	1	9652-2487 (47652246001)
31	Adjustable Flow Limiter Nozzle	1	6454-4242 (47906433001)
32	Ball	1	6940-1625 (38542924)
33	Chain Attachment Clip	2	9053-0031 (38525390)
34	BS-Ring	2	5812-2430 (47905566001)
35	Check Valve	1	9579-0106 (38551198)
36	Cylindrical Filter	1	6824-4142 (47887969001)
37	Cover	1	9645-1962 (47904729001)
38	Pullcord Lever	1	9645-1963 (47897894001)
39	Headless Plug	2	6454-4442 (47905571001)
40	Hollow Plug	2	6824-4042 (47905565001)
41	Housing	1	9645-1961 (47897893001)
42	Non-Return Valve	1	5794-6242 (47925448001)
43	O-Ring	1	5822-4229 (38528592)
44	O-Ring	2	5820-9229 (38534517)
45	O-Ring	4	5824-6329 (47887968001)
46	O-Ring	1	5824-6429 (47894757001)

6 HP Motor and Brake Assembly - Xtrem Version

Table 25. 6 HP Motor and Brake Assembly - Xtrem Version Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
47	Oil Level Plug	1	6824-3842 (47907502001)
48	Pin	3	4600-1216 (38522835)
49	Plug	1	6511-0441 (38648184)
50	Retainer Ring	1	4770-3047 (38523403)
51	Screw	5	4120-1604 (38597522)
52	Screw	1	4200-7707 (38543443)
53	Screw	1	4598-5439 (45985439)
54	Seal	1	5824-1929 (38538245)
55	Sleeve	1	9645-1946 (47876052001)
56	Sleeve	1	9645-1965 (47876077001)
57	Slide	1	9645-1964 (47876059001)
58	Spool	1	9645-1947 (47876053001)
59	Spring	1	6914-4542 (47887967001)
60	Thrust Bearing	1	5605-3520 (38537163)
61	Thrust Bearing Seat	1	9645-1948 (47876056001)
62	Torsion Spring	1	9644-1421 (38760518)
63	Secondary Housing	1	9644-1364 (38766911)
64	Drive Gear	1	9644-1549 (38773925)
65	O-Ring	1	5821-1729 (38524401)
66	O-Ring	4	5822-0129 (38530697)
67	Exhaust Pipe	2	9645-0031 (38764304)
68	O-Ring	1	5823-9529 (38773917)
69	Screw	2	4132-2306 (38540183)
70	Screw	2	4131-2506 (47910703001)
71	Nozzle	1	9644-1187 (38634762)
72	Nozzle	1	9645-2008 (47929506001)
(a)	Screw	13	4200-7407 (38540498)

(a) Item not illustrated.

Table 26. Kit List

Item No.	Description of Parts	Total Qty.	Part Number (CCN)
801	Motor Kit (includes items 1, 2, 4, 5, 7, 8, 14, 15, 16, 17, 18, 19, 22, 25, 26, 27, 28, 32, 33, 34, 35, 39, 40, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 56, 59, 60, 61, 62, 64, 65, 66, 68, 70, 71 and 72)	1	7645-2072 (47984727001)
802	Brake Repair Kit (includes items 6, 8, 9, 10, 11, 12, 16 and 21)	1	7650-0223 (38791844)
803	Distributor Kit (includes items 5, 33, 37, 38, 43, 46, 48, 50, 51, 52, 53, 54, 55, 58, 60, 61 and 62)	1	7645-2073 (47984728001)
804	Lubricator and filter Kit (includes items 31, 34, 36, 40 and 42)	1	7645-2074 (47984729001)
805	Torque Limiter Kit (includes items 39, 45, 56, 57, 59, 71 and 72)	1	7645-2075 (47984730001)

Pendant Control without Emergency Stop Assembly

Figure 13. Pendant Control without Emergency Stop Assembly Drawing (MHP2640)

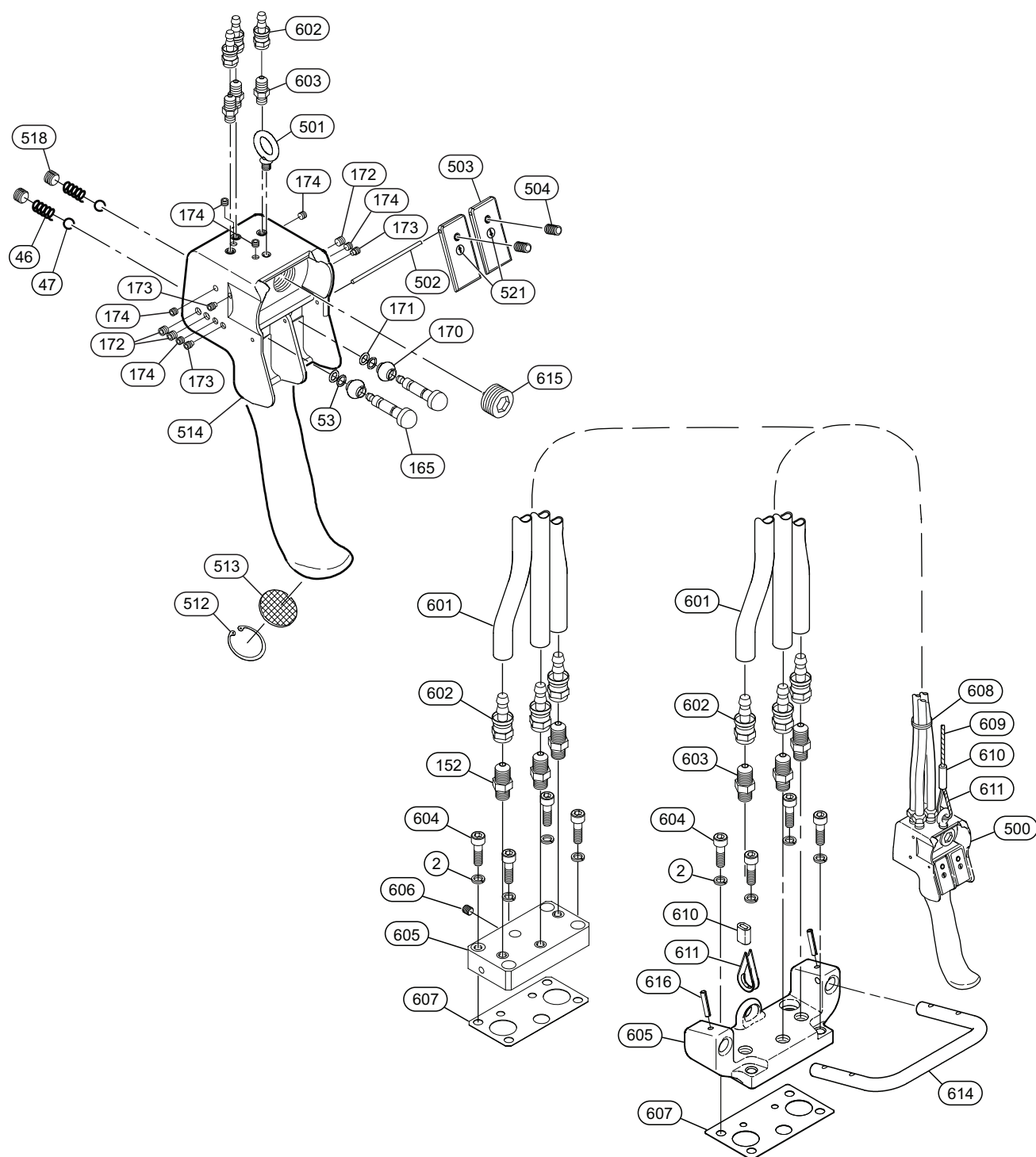


Table 27. Pendant Control without Emergency Stop Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
500	Pendant Assembly	1	PHS2E (38559233)
46	Spring	2	6912-8541 (38553889)
47	Ball	2	6940-1625 (38542924)
53	O-Ring	2	5820-9229 (38534517)
75	Lockwasher	4	4520-1006 (38540142)

Pendant Control without Emergency Stop Assembly

Table 27. Pendant Control without Emergency Stop Assembly Parts List (continued)

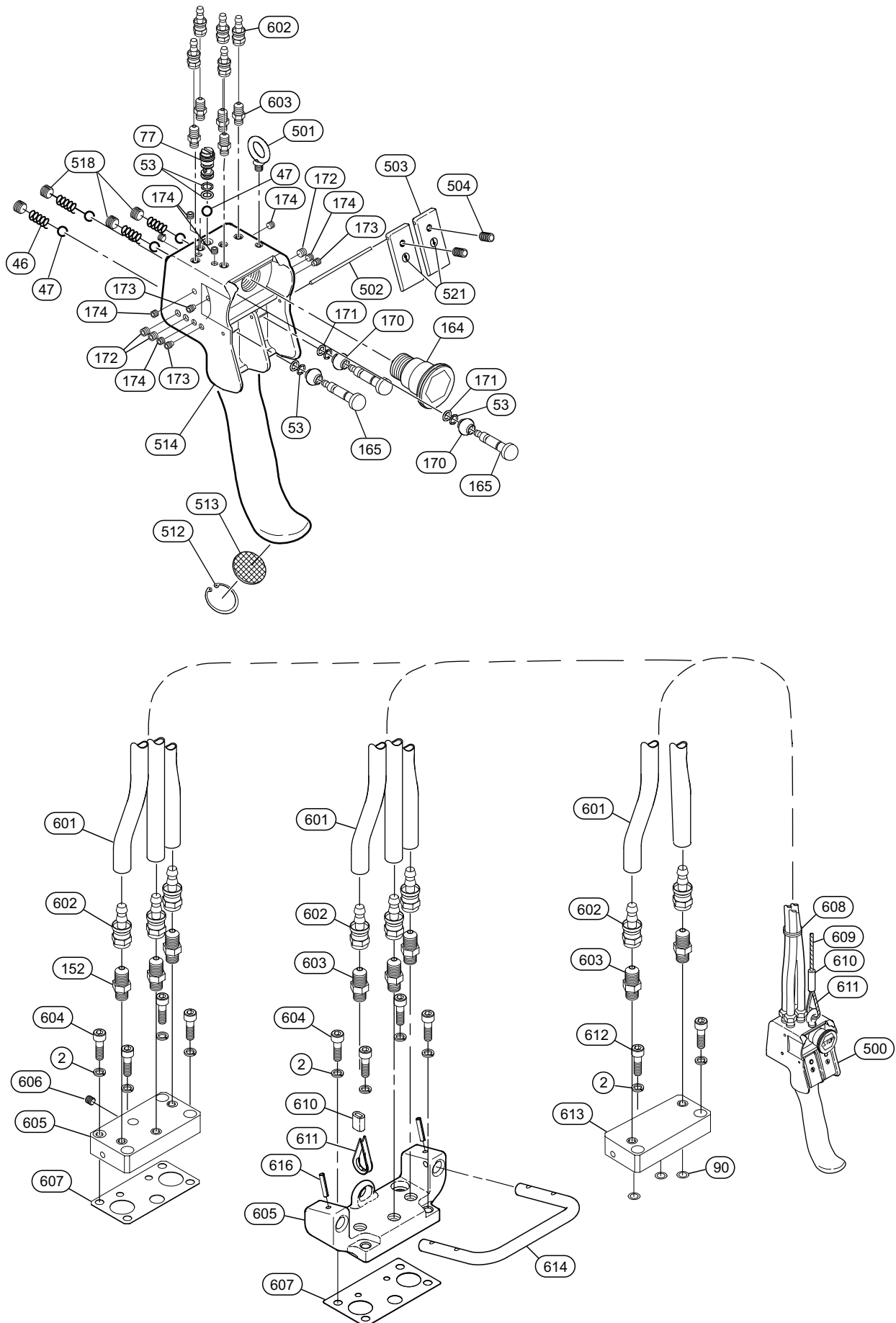
Item No.	Description of Part	Total Qty.	Part Number (CCN)
165	Valve	2	9579-0104 (38550190)
170	Protector	2	9579-0107 (38554580)
171	O-Ring	2	5823-5329 (38550208)
173	Setscrew	2	4200-8207 (38544292)
501	Lifting Eye	1	6422-2332 (38529160)
502	Pin	1	9579-0040 (38538237)
503	Lever	1	9579-0122 (38559100)
504	Screw	1	4200-8607 (38555546)
512	Retainer Ring	1	4771-3030 (38559373)
513	Exhaust Washer	1	6760-0303 (38535621)
514	Pendant Handle	1	9579-0129
518	Plug	2	6510-7741 (38648143)
521	Label Kit	1	9579-0111 (38554598)
601	Hose ^(a)	As req'd	50923 (03990215)
602	Fitting, Adapter	6	51029 (03990298)
603	Fitting, Nipple	6	6823-7528 (38563789)
604	Capscrew	4	4132-2206 (38541132)
605	Adapter Plate	1	9644-1026 (38577920)
606	Setscrew	1	4200-7406 (38540498)
607	Gasket	1	9644-1093 (38595500)
608	Hose Tie	1	6112-5132 (38525226)
609	Strain Relief Wire	As req'd	6976-3132 (38537890)
610	Sleeve Clamp	1	6112-5032 (38525218)
611	Thimble	1	6932-5332 (38525242)
615	Plug	1	6512-9541 (38559530)
616	Pin	2	4650-3420 (38523627)
- - -	Exhaust Valve Kit ^(b)	As req'd	20417 (71069579)
- - -	Label: "Read the Manual" ^(b)	1	9618-0098 (38543856)
- - -	Label: "Do Not Use for Lifting Personnel" ^(b)	1	9618-0100 (38543872)

^(a) Order in ft (m)

^(b) Item not illustrated.

Pendant Control with Emergency Stop Assembly

Figure 14. Pendant Control with Emergency Stop Assembly Drawing (MHP2641)



Pendant Control with Emergency Stop Assembly

Table 28. Pendant Control with Emergency Stop Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
500	Pendant Assembly	1	PHS2E-U
2	Washer	6	4520-1006 (38540142)
46	Spring	4	6912-8541 (38553889)
47	Ball	5	6940-1625 (38542924)
53	'O' Ring	5	5820-9229 (38534517)
70	'O' Ring	3	5823-7429 (38597241)
75	Lockwasher	6	4520-1006 (38540142)
77	Check Valve	1	9579-0106 (38551198)
164	Valve, Emergency Stop	1	9579-0108 (38551180)
165	Valve	3	9579-0104 (38550190)
170	Protector	2	9579-0107 (38554580)
171	'O' Ring	2	5823-5329 (38550208)
173	Setscrew	2	4200-8207 (38544292)
501	Lifting Eye	1	6422-2332 (38529160)
502	Pin	1	9579-0040 (38538237)
503	Lever	1	9579-0122 (38559100)
504	Screw	1	4200-8607 (38555546)
512	Retainer Ring	1	4771-3030 (38559373)
513	Exhaust Washer	1	6760-0303 (38535621)
514	Pendant Handle	1	9579-0116 (38559043)
518	Plug	2	6510-7741 (38648143)
521	Label Kit	1	9579-0111 (38554598)
601	Hose ^(a)	As req'd	50923 (03990215)
602	Fitting, Adapter	6	51029 (0399298)
603	Fitting, Nipple	6	6823-7528 (38563789)
604	Capscrew	4	4132-2206 (38541132)
605	Adapter Plate	1	9644-1173 (38609426)
606	Setscrew	1	4200-7406
607	Gasket	1	9644-0822 (38799698)
608	Hose Tie	1	6112-5132 (38525226)
609	Strain Relief Wire	As req'd	6976-3132 (38537890)
610	Sleeve Clamp	1	6112-5032 (38525218)
611	Thimble	1	6932-5332 (38525242)
614	Rod	1	9644-0829 (38799706)
616	Pin	2	4650-3420 (38523627)
- - -	Exhaust Valve Kit ^(b)	As req'd	20417 (71069579)
- - -	Label: "Read the Manual" ^(b)	1	9618-0098 (38543856)
- - -	Label: "Do Not Use for Lifting Personnel" ^(b)	1	9618-0100 (38543872)

^(a) Order in ft (m).

^(b) Item not illustrated.

Four Function Pendant Control Assembly

Figure 15. Four Function Pendant Control Assembly Drawing (MHP3061)

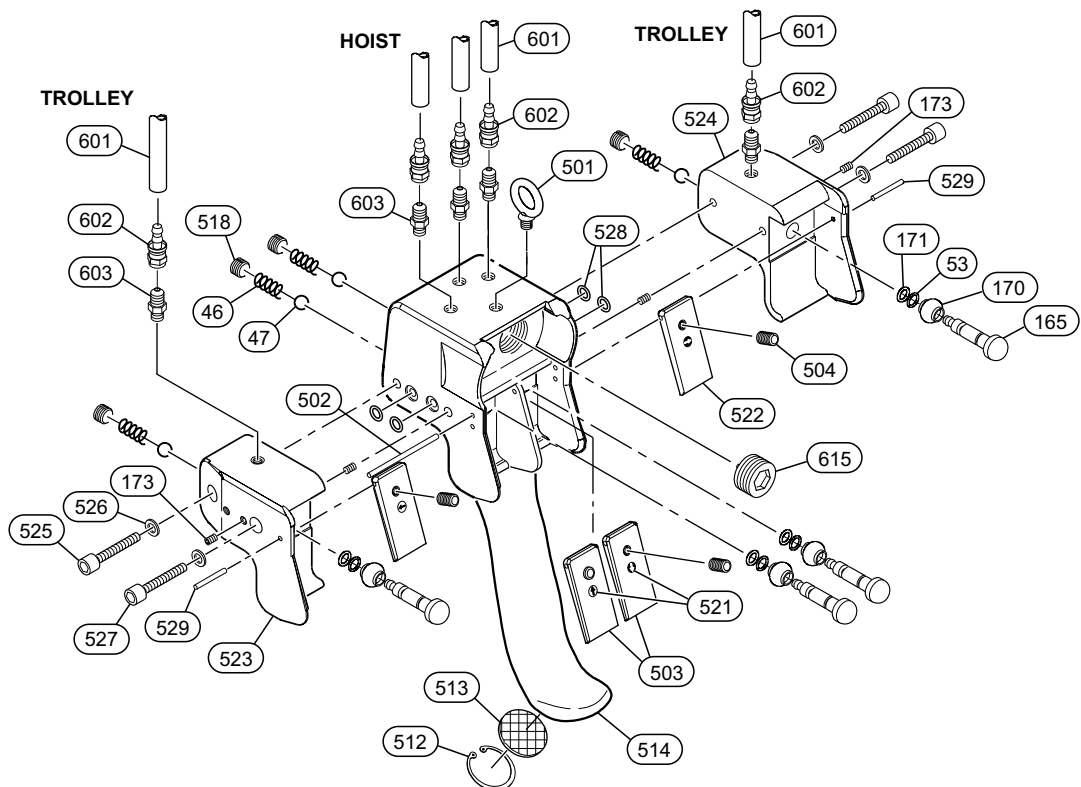
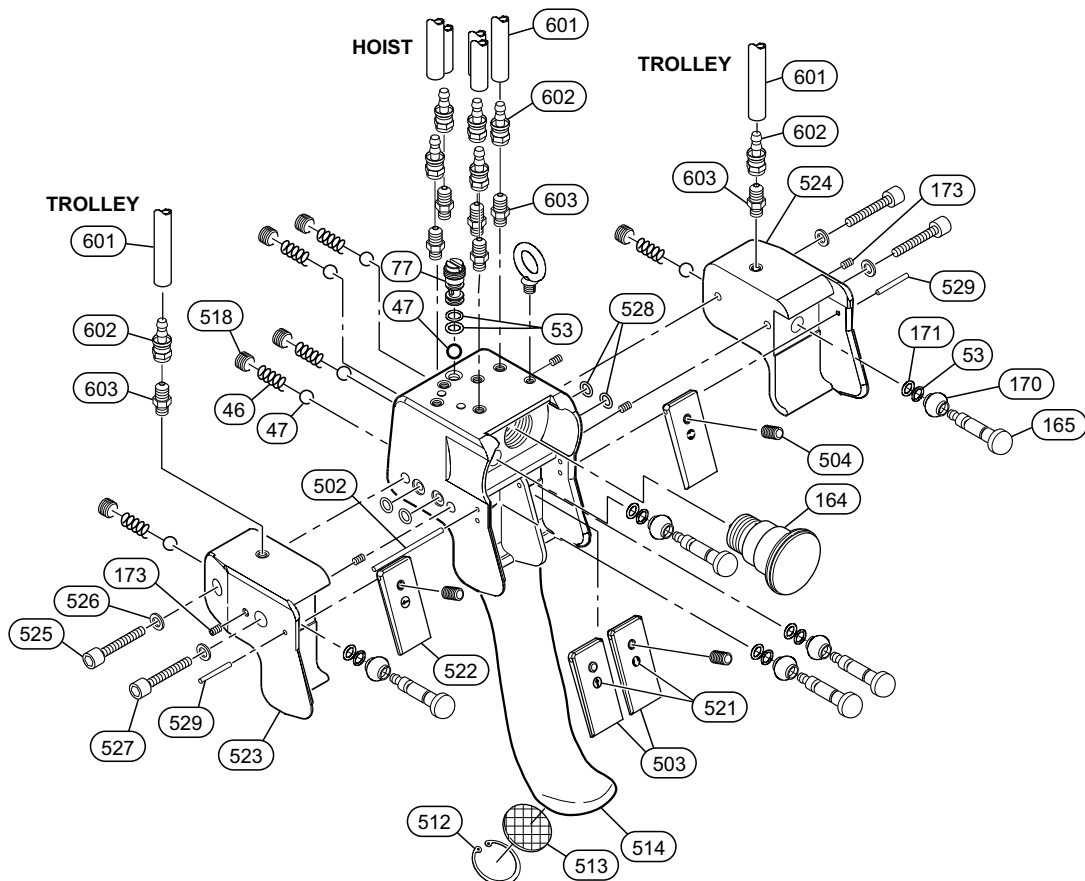


Figure 16. Four Function Pendant Control Assembly Drawing (MHP3062)



Four Function Pendant Control Assembly

Table 29. Four Function Pendant Control Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)			
500	Pendant Assembly	1	PHS4E	PHS4E-R	PHS4E-U	PHS4E-RU
46	Spring	4	6912-8541 (38553889)			
47 ^(a)	Ball	4	6940-1625 (38542924)			
53 ^(a)	O-Ring	4	5820-9229 (38534517)			
77	Check Valve	1	---		9579-0106 (38551198)	
164	Emergency Stop Valve	1	---		9579-0108 (38551180)	
165	Valve	4	9579-0104 (38550190)			
170	Protector	4	9579-0107 (38554580)			
171 ^(a)	O-Ring	[]	5823-5329 (38550208) [4]		5823-5329 (38550208) [5]	
173	Setscrew	[]	4200-8307 (38633004) [4]		4200-8307 (38633004) [5]	
501	Lifting Eye	1	6422-2332 (38529160)			
502	Pin	1	9579-0040 (38538237)			
503	Lever	2	9579-0122 (38559100)			
504	Screw	4	4200-8607 (38555546)			
512	Retainer Ring	1	4771-3030 (38559373)			
513	Exhaust Washer	1	6760-0303 (38535621)			
514	Pendant Handle ^(b)	1	Order item 500			
518	Plug	4	6510-7741 (38648143)			
521	Label Kit	1	9579-0111 (38554598)			
522	Lever	2	9579-0128 (38559118)			
523	Attachment (Left)	1	9579-0125 (38559076)	9579-0143 (38575593)	9579-0125 (38559076)	9579-0143 (38575593)
524	Attachment (Right)	1	9579-0126 (38559084)	9579-0142 (38575585)	9579-0126 (38559084)	9579-0142 (38575585)
525	Capscrew	2	4133-0506 (38544706)			
526	Washer	4	4520-1005 (38634218)			
527	Capscrew	2	4132-2106 (38631958)			
528 ^(a)	O-Ring	4	5821-8229 (38522686)			
529	Pin	2	9579-0127 (38559092)			
601	Hose ^(c)	As req'd	50923 (03990215)			
602	Fitting, Adapter	10	51029 (03990298)			
603	Fitting Hose	5	6823-7528 (38563789)			
615	Plug	1	6512-9541 (38559530)		---	
---	Label: Read the Manual ^(d)	1	4591-3852			
---	Label: Do Not Use Lifting Personnel ^(d)	1	9618-0100 (38543872)			

(a) Recommended spares, 2 years normal operation (ordering kits listed below is recommended).

(b) Not sold separately. Order new pendant.

(c) Order in ft (m)

(d) Item not illustrated.

Four Function Pendant Control Assembly

Table 30. Kit Repair List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
736	Pendant Without Emergency Stop Repair Kit (includes items 46, 47, 53, 170, 171, 518, 521, 525, 526, 527, 528, 602 and 603)	1	7650-0143 (38781449)
737	Pendant Without Emergency Stop Rebuild Kit (includes Non-Emergency Stop Pendant Repair Kit and items 165, 501, 502, 503, 512, 513, 522, 529 and 615)	1	7650-0081 (38780821)
738	Pendant With Emergency Stop Repair Kit (includes items 46, 47, 53, 77, 170, 171, 518, 521, 525, 526, 527, 528, 602 and 603)	1	7650-0144 (38781456)
739	Pendant With Emergency Stop Rebuild Kit (includes Emergency Stop Pendant Repair Kit and items 164, 165, 501, 502, 503, 512, 513, 522 and 529)	1	7650-0082 (38780839)

LC2A010S-015S-020D-030D-060Q Top Hook and Trolley Mount Assembly

Figure 17. 1.5 and 3T Top Hook and Trolley Mount Assembly (MHP2656)

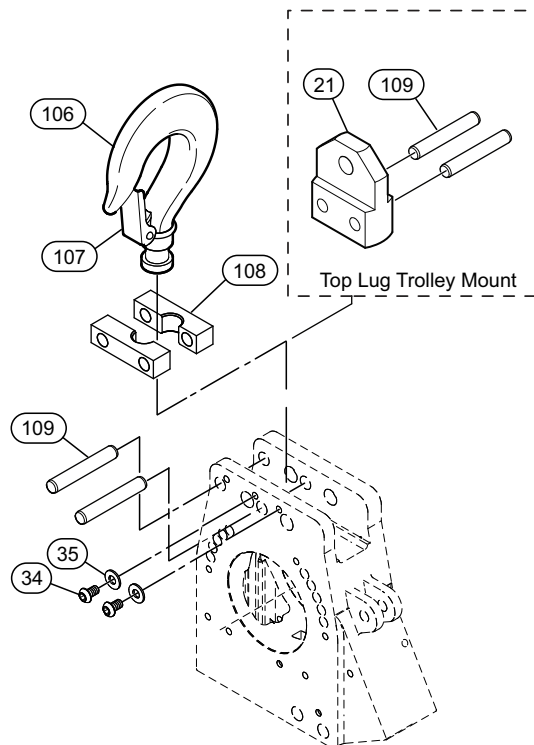
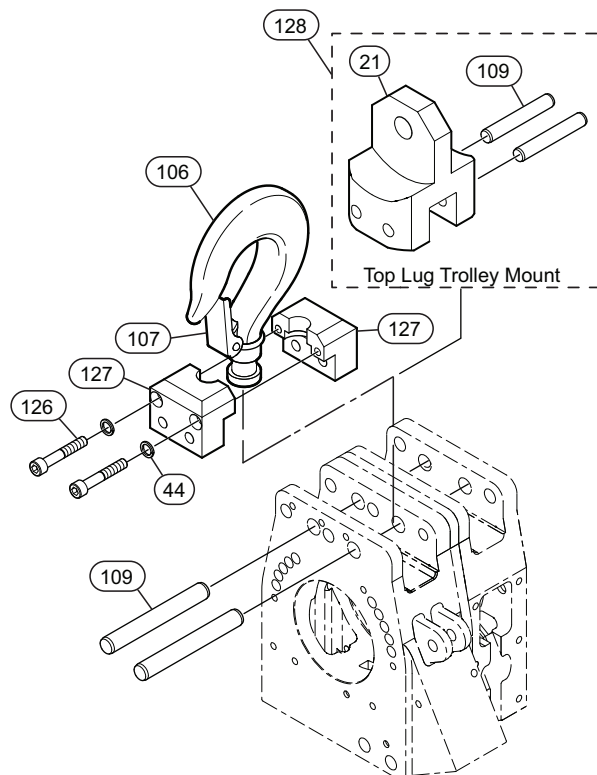


Figure 18. 6T Top Hook and Trolley Mount Assembly (MHP2820)



LC2A010S-015S-020D-030D-060Q Top Hook and Trolley Mount Assembly

Table 31. LC2A010S-015S-020D-030D-060Q Top Hook and Trolley Mount Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)		
			1.5T Single	3T Double	6T Quad
- - -	Top Hook Assembly	1	7644-3124 (38766184)	7644-3125 (38766192)	7644-3334 (38794574)
21	Trolley Suspension Lug	1	9649-0223	9649-0089 (38785945)	9649-0202 (38789970)
34	Capscrew	2	4120-1604 (38597522)		- - -
35	Washer	2	4500-1106 (4500-1106)		- - -
44	Lockwasher	2	- - -		4520-1010
106	Hook	1	9424-8356 (38576294)	9424-8357 (38576302)	9412-8459 (38576310)
107	Hook Latch Kit	1	9424-0364 (38576542)	9424-0365 (38576559)	9412-0460 (38576567)
108	Hook Support	2	9644-3034 (38577631)	9644-3035 (38577664)	- - -
109	Pin	2	9644-3244 (38753067)	9644-3245 (38753075)	9644-3375 (38759429)
126	Capscrew	2	- - -		4133-0006 (38519971)
127	Half Hook Support	2	- - -		9644-3324 (38757605)
128	Nut	1	- - -		4300-6911 (38539284)
- - -	RPK Top Hook	1	7650-0316 (46889218)	7650-0318 (46889234)	7650-0322 (46889275)

LC2A030S-040S-060S Top Hook and Trolley Mount Assembly

Figure 19. LC2A030S-040S-060S Top Hook and Trolley Mount Assembly (MHP2994)

3T - 4T Capacity

6T Capacity

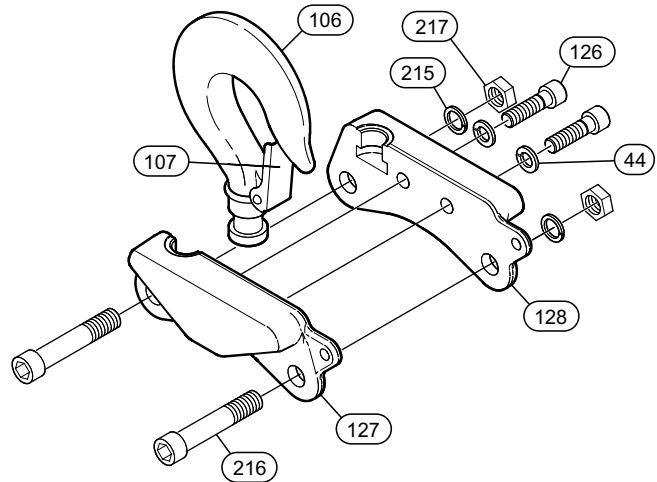
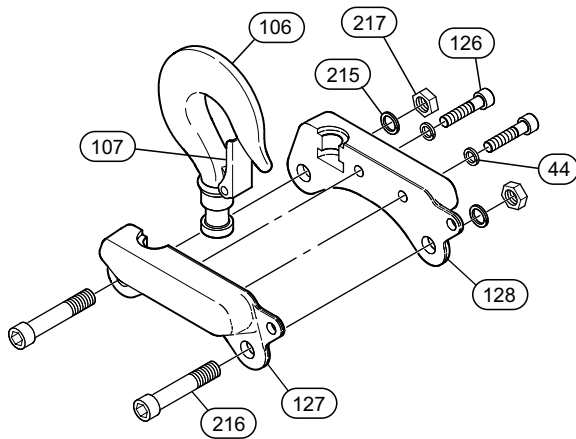


Figure 20. MHP(3041)

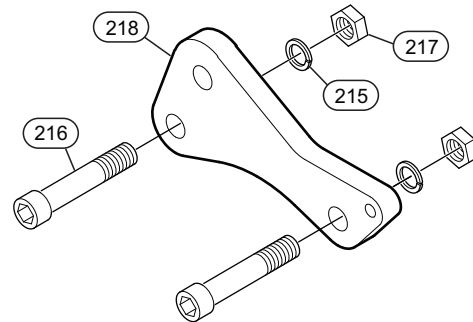
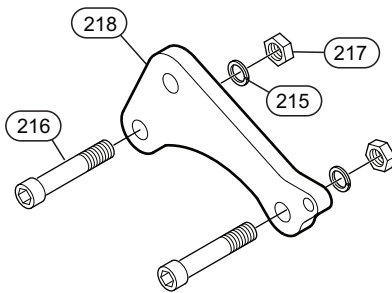


Table 32. LC2A030S-040S-060S Top Hook and Trolley Mount Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)	
			4T Single	6T Single
---	Top Hook Assembly	1	7645-0077 (38794582)	7645-0089 (38794590)
44	Lockwasher	2	4520-1010 (38634226)	4520-1014 (38634234)
106	Hook	1	9645-0120 (38781654)	9412-8459 (38576310)
107	Hook Latch Kit	1	9424-0365 (38576559)	9412-0460 (38576567)
126	Capscrew	2	4132-3206 (38539292)	4133-4306 (38774667)
127	Half Hook Support	1	9645-0058 (38773172)	9645-0066 (38774618)
128	Half Hook Support	1	9645-0057 (38773164)	9645-0065 (38774600)
215	Washer	2	4520-1016 (38540704)	4520-1120 (38634283)
216	Capscrew	2	4131-9306 (38542031)	4133-5806 (47512507001)
217	Locknut	2	4300-6011 (38540670)	4300-4011 (38541629)
218	Trolley Suspension Plate	1	9649-0088 (38785937)	9649-0071 (38786794)
---	RPK Top Hook	1	7650-0320 (46889259)	7650-0326 (46889317)

LC2A060D-080D-120D Top Hook and Trolley Mount Assembly

Figure 21. 8 and 12T Top Hook and Trolley Mount Assembly (MHP2995)

6T - 8T Capacity

12 T Capacity

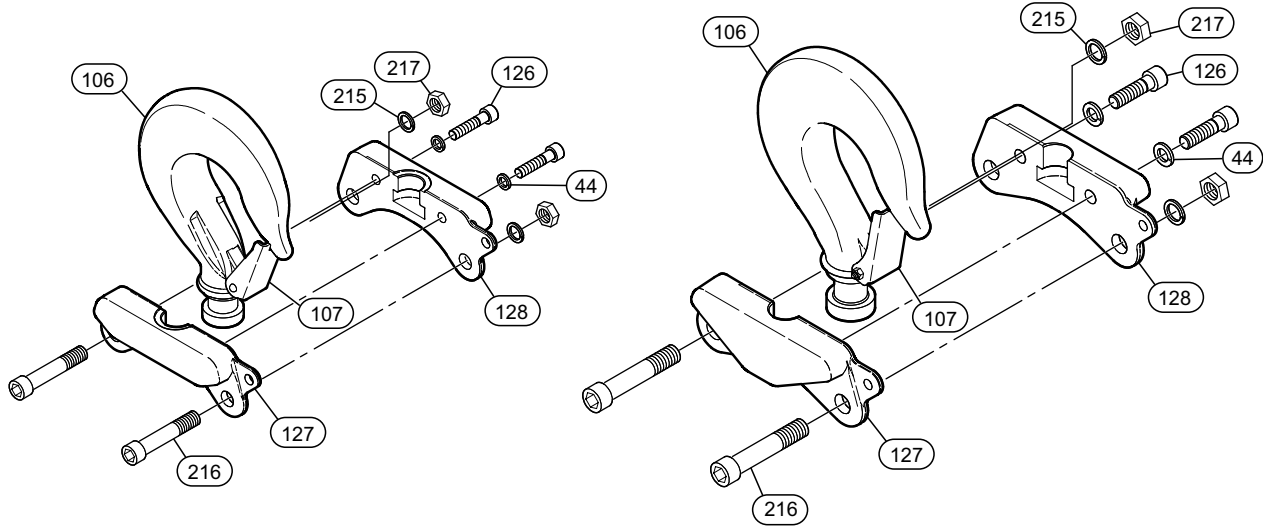


Figure 22. 8 and 12T Top Hook and Trolley Mount Assembly (MHP3042)

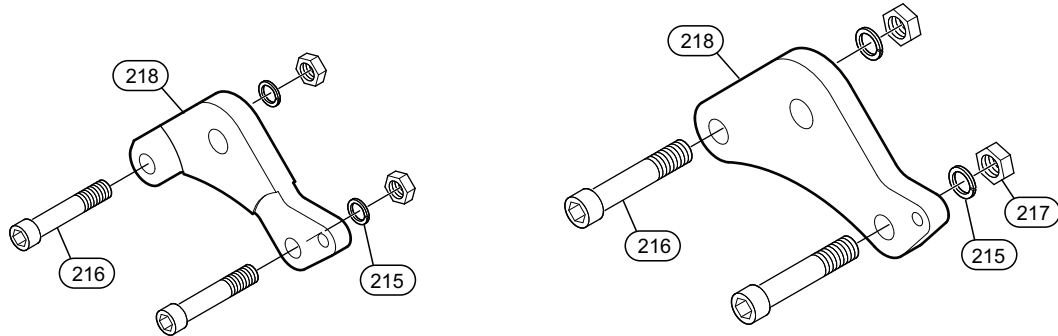


Table 33. LC2A060D-080-120D Top Hook and Trolley Mount Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)	
			8T Double	12T Double
---	Top Hook Assembly	1	7645-0078 (38794608)	7645-0090 (38794616)
44	Washer	2	4520-1010 (38634226)	4520-1014 (38634234)
106	Hook	1	9645-0180 (38785598)	9645-0278 (38791000)
107	Hook Latch Kit	1	9645-0316 (38795068)	9623-0236 (38576591)
126	Capscrew	2	4132-3206 (38539292)	4133-4306 (38774667)
127	Half Hook Support	1	9645-0060 (38773206)	9645-0068 (38774634)
128	Half Hook Support	1	9645-0059 (38773198)	9645-0067 (38774626)
215	Washer	2	4520-1016 (38540704)	4520-1120 (38634283)
216	Capscrew	2	4131-9306 (38542031)	4133-5806 (47512507001)
217	Locknut	2	4300-6011 (38540670)	4300-4011 (38541629)
218	Trolley Suspension Plate	1	9649-0068 (38786778)	9649-0043 (38787115)
---	RPK Top Hook	1	7650-0324 (46889291)	7650-0328 (46889333)

LC2A180T-LC2A250Q Top Hook and Trolley Mount Assembly

Figure 23. 18 and 25T Top Hook and Trolley Mount Assembly Drawing (MHP3019)

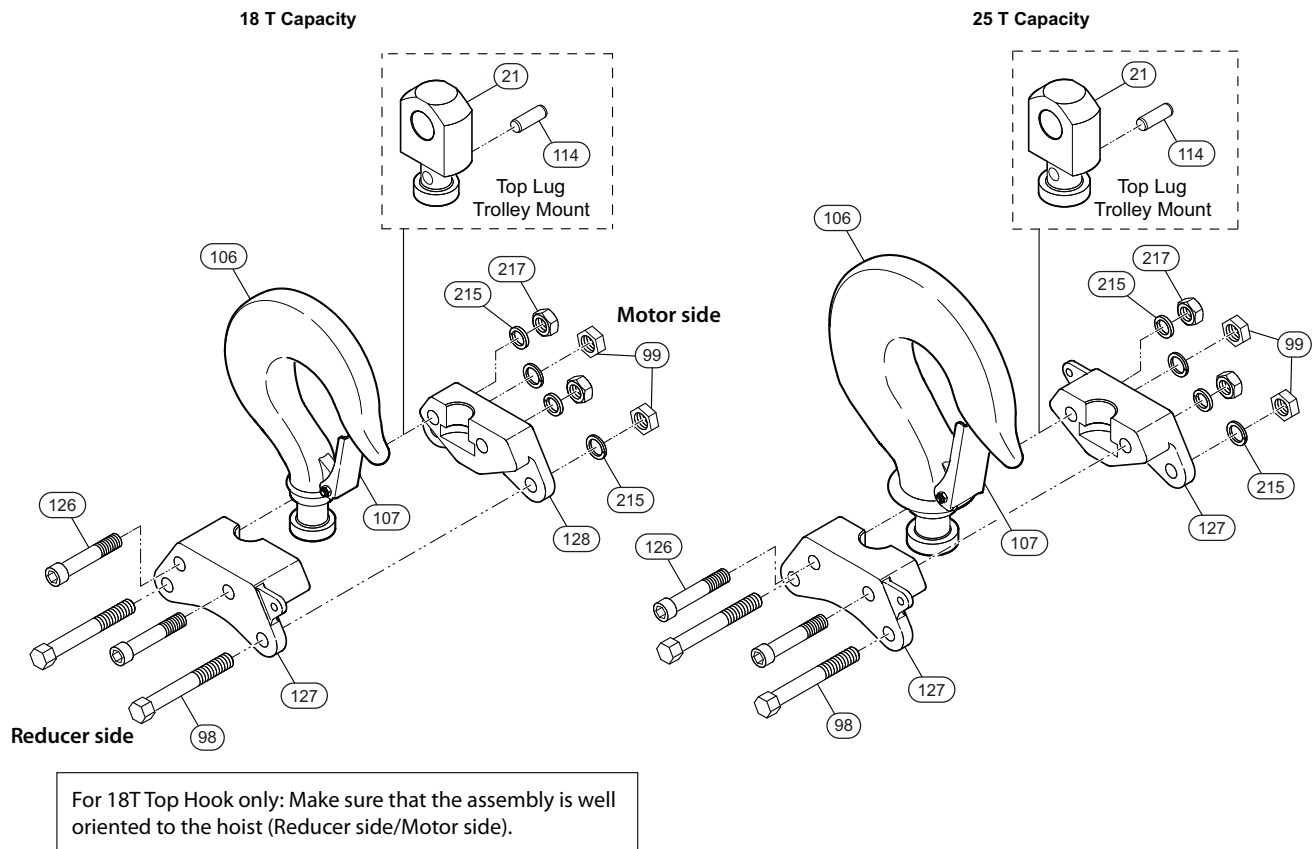


Table 34. LC2A180T-LC2A250Q Top Hook and Trolley Mount Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)	
			18T Triple	25T Quad
---	Top Hook Assembly	1	7645-0161 (38794624)	7645-0160 (38794640)
---	Trolley Suspension Assembly	1	7649-0136 (38794632)	7649-0135 (38794657)
21	Trolley Suspension Lug	1	9649-0134 (38787420)	9649-0013 (38787362)
98	Capscrew	2	4133-1206 (38553699)	
99	Nut	2	4300-4011 (38541629)	
106	Hook	1	9596-8135 (38576336)	9623-8233 (38576344)
107	Hook Latch Kit	1	9596-0136 (38576575)	9623-0235 (38576583)
114	Pin	1	4600-2216 (38547089)	
126	Capscrew	2	4133-1206 (38553699)	
127	Half Hook Support	[]	9645-0146 (38785036) [1]	9645-0144 (38785028) [2]
128	Half Hook Support	1	9645-0147 (38785044)	---
215	Lockwasher	4	4520-1120 (38634283)	4520-1020 (38541611)
217	Nut	2	4300-4011 (38541629)	
---	RPK Top Hook	1	7650-0330 (46889358)	7650-0332 (46889374)

LC2A010S-015S-020D-030D Bottom Block Assembly

Figure 24. 1.5 and 3T Bottom Block Assembly Drawing (MHP2657)

1T-1.5T Capacity

2T - 3T Capacity

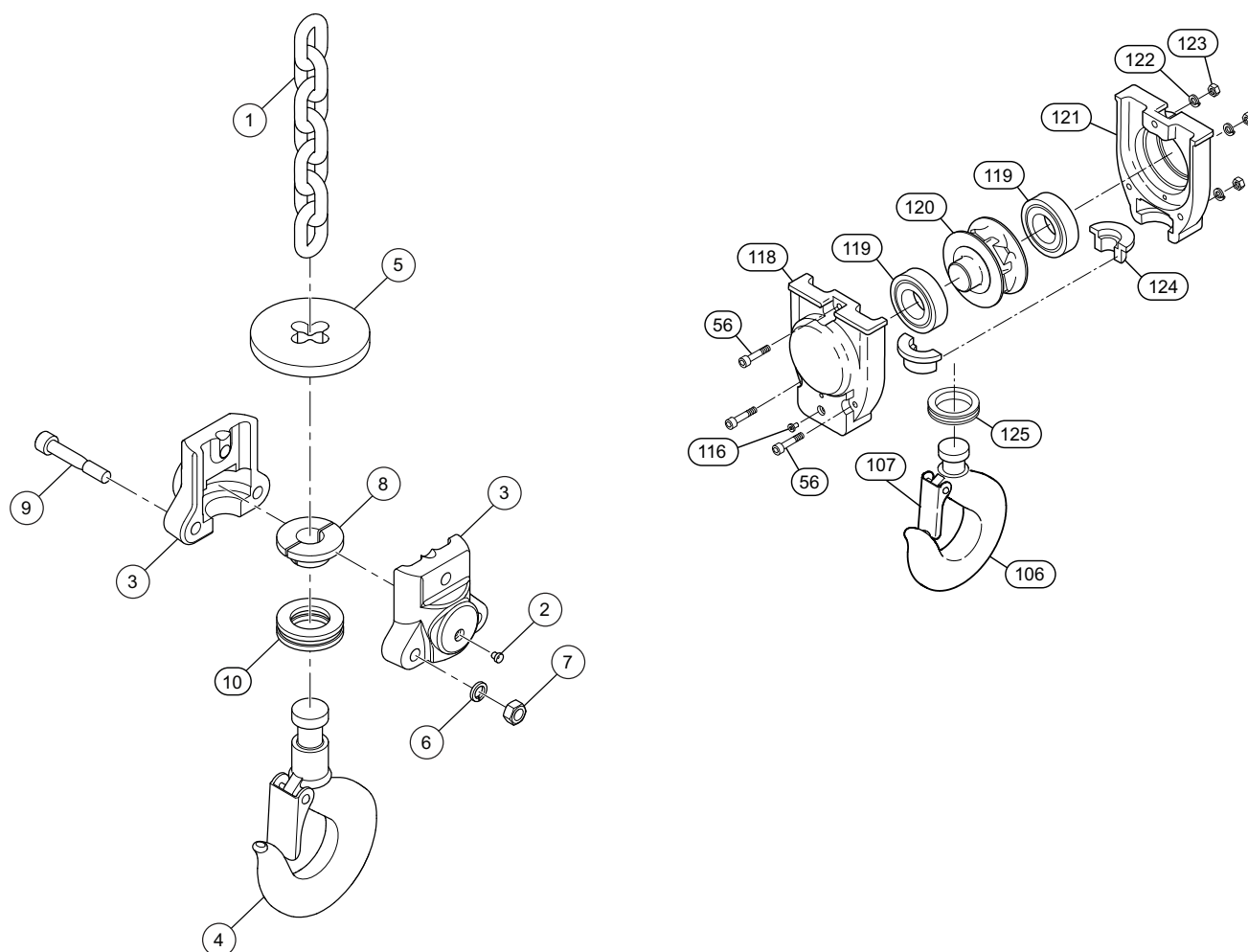


Table 35. 1T-1.5T Single Fall Capacity Bottom Block Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)			
			1.5T Single		1T Single	
			Standard	Option T1	Standard	Option T1
7	Nut	3	4300-3511 (38633079)			
4	Hook	1	9644-0779 (38796173)	96440919 (46886032)	9652-2452 (47614208001)	9652-3180 (47517356001)
9	Screw	3	4132-6406 (38632246)			
5	Limit Stop Washer	1	9644-3150 (38752523)			
8	Ring	1	9644-0778 (38796181)			
3	Hook Block	2	9652-2081 (46897260)	9652-2082 (46897310)	9652-2453 (47614209001)	9652-3179 (47517357001)
10	Thrust Bearing	1	5400-0005 (38637922)			
1	Chain	1	3853-2172 (69089432)			
2	Grease Fitting	2	6710-2627 (38545562)			
6	Lockwasher	3	4520-1008 (38543484)			
—	RPK Bottom Hook	1	7650-0317 (46889226)		— — —	

Table 36. 2T-3T Double Fall Capacity Bottom Block Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)			
			3T Double		2T Double	
			Standard	Option T1	Standard	Option T1
56	Capscrew	3	4132-6706 (38632261)			
106	Hook	1	9424-8357 (38576302)	9424-8390 (38579926)	9424-0495 (46884557)	9424-0494 (46884540)
107	Hook Latch	1	9424-0365 (38576559)		— — —	— — —
116	Grease Fitting	1	6710-2627 (38545562)			
118	Half Hook Block	1	9424-0289 (38545646)	9424-0388 (38579884)	9424-0500 (46894929)	9424-0493 (46884532)
119	Bearing	2	5025-0005 (38525671)			
120	Sprocket	1	9424-0056 (38525663)			
121	Half Hook Block	1	9424-0288 (38545638)	9424-0387 (38579876)	9424-0499 (46894911)	9424-0492 (46884524)
122	Lockwasher	3	4520-1008 (38543484)			
123	Nut	3	4300-3511 (38633079)			
124	Ring, (2 piece)	1	9424-7291 (38545687)			
125	Thrust Bearing	1	5400-0006 (38545711)			
—	RPK Bottom Hook	1	7650-0319 (46889242)		— — —	
—	RBK Bottom Hook	1	(47540933001)		— — —	

LC2A030S-040S-060D-080D-120D Bottom Block Assembly

Figure 25. 3t - 4t and 6t Single Fall and 6t - 8t and 12t Double Fall Capacities (MHP3006)

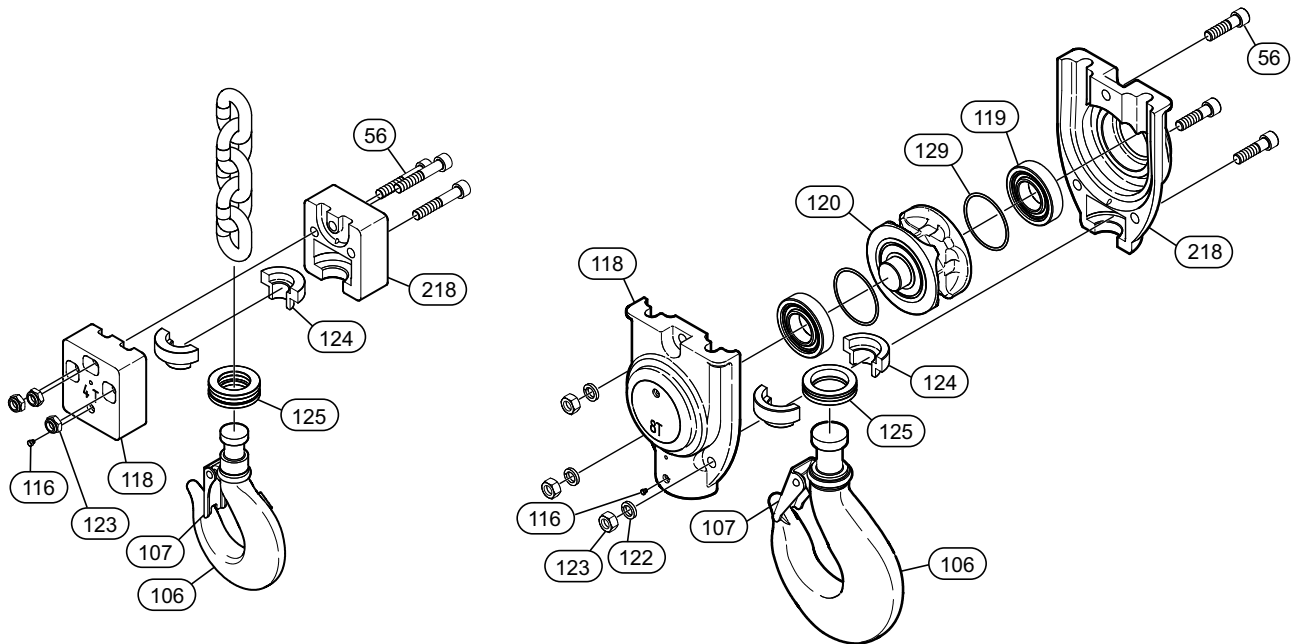


Table 37. 3T, 4T and 6T Single Fall Capacities Bottom Block Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)					
			4T Single		6T Single		3T Single	
			Standard	Option T1	Standard	Option T1	Standard	Option T1
---	Bottom Block Assembly	1	7645-0118 (38794681)	7645-0315 (38795043)	7526-0100 (38564365)	7526-7245 (38794699)	---	---
44	Lockwasher	[]	---		4520-1020 (38564365) [1]	4520-1010 (38519971) [2]	---	
56	Capscrew	[]	4132-3306 (38631990) [3]		9526-0037 (38524633) [1]	4133-0006 (38519971) [2]	4132-3306 (38631990) [3]	
106	Hook	1	9645-0120 (38781654)	9645-0249 (38787826)	9412-8459 (38576310)	9412-8559	9424-8357 (38576302)	9424-8390 (38579926)
107	Hook Latch Kit	1	9424-0365 (38576559)		9412-0460 (38576567)		---	
116	Greaser	1	6710-2627 (38545562)				---	
118	Half Hook Block	1	9645-0117 (38779757)	9645-0252 (38787859)	9526-0138 (38546206)	9526-8246 (38617445)	9645-1533 (47633287001)	9645-1538 (47633293001)
123	Nut	[]	75583M (54173083) [3]		4300-4011 (38541629) [1]	4300-6911 (38539284) [2]	75583M (58250747) [3]	
124	Ring, (2 Piece)	1	9645-0115 (38779732)		9412-7398 (38545836)		9645-0115 (38779732)	
125	Thrust Bearing	1	5400-0106 (38779765)		5470-0007 (38546149)		5400-0106 (38779765)	
218	Half Hook Block	1	9645-0116 (38779740)	9645-0251 (38787875)	9526-0139 (38546198)	9525-8247	9645-1532 (47633288001)	9645-1537 (47633292001)
—	RPK	1	7650-0321 (46889325)		7650-0327 (46889325)		---	

LC2A030S-040S-060D-080D-120D Bottom Block Assembly

Table 38. 6T, 8T and 12T Double Fall Capacities Bottom Block Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)						
			8T Double		12T Double		6T Double		
			Standard	Option T1	Standard	Option T1	Standard	Option T1	
---	Bottom Block Assembly	1	7645-0123 (38794715)	7645-0314 (38795035)	7526-0356 (38794723)	7526-7248 (38794731)	---		
44	Lockwasher	3	4520-1012 (38540696)						
56	Capscrew	3	4132-4406 (38632097)		4131-0306 (38525507)		4132-4406 (38632097)		
106	Hook	1	9645-0124 (38779922)	9645-0250 (38787842)	9623-8234 (38576351)	9623-8263 (38590741)	9645-1454 (47607804001)	9645-0523 (46885604)	
107	Hook Latch Kit	1	9645-0316 (38795068)		9623-0236 (38576591)		---		
116	Greaser	1	6710-2627 (38545562)						---
118	Half Hook Block	1	9645-0125 (38779963)	9645-0253 (38787867)	9526-0352 (38779823)	9526-7203 (38590758)	9645-1455 (47607805001)	9645-0521 (46885612)	
119	Bearing	2	5120-0007 (38527230)		5120-0009 (38637500)		5120-0007 (38527230)		
120	Sprocket	1	9645-0127 (38779971)		9590-8069 (38553301)		9645-0127 (38779971)		
123	Nut	3	4300-3611 (38540662)						
124	Ring, (2 Piece)	1	9645-0126 (38779948)		9623-7014 (38741294)		9645-0126 (38779948)		
125	Thrust Bearing	1	5470-0041 (38779997)		5470-0013 (38542023)		5470-0041 (38779997)		
129 (a)	'O' Ring	2	5822-8029 (38641130)		5823-2329 (38533873)		5821-0429 (38533238)		
218	Half Hook Block	1	9645-0159 (38784963)	9645-0254 (38787883)	9526-0364 (38785663)	9526-7204 (38590832)	9645-1456 (47607808001)	9645-0522 (46885620)	
—	RPK	1	7650-0325 (46889309)		7650-0329 (46889341)		---		
—	RBK	1	(47540934001)		(47540935001)		---		

(a) Recommended spares, 2 years normal operation.

LC2A180T Bottom Block Assembly

Figure 26. 18T Triple Bottom Block Assembly (MHP3018)

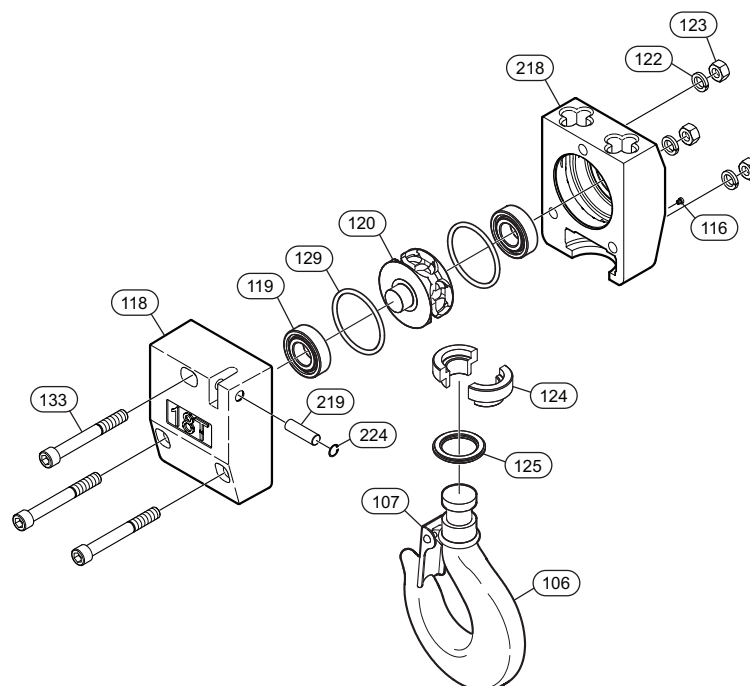


Table 39. LC2A180T Bottom Block Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)	
			18T Triple	
			Standard	Option T1
---	Bottom Block Assembly	1	7590-0009 (38576211)	7645-0389 (46887527)
106	Hook	1	9596-8135 (38576336)	9645-0393 (46880357)
107	Hook Latch Kit	1	9596-0136 (38576575)	
116	Grease Fitting	1	6710-0827 (38536744)	
118	Half Hook Block	1	9590-7073 (38553376)	9645-0392
119	Bearing	2	5120-0009 (38637500)	
120	Sprocket Bottom Block	1	9590-8069 (38553301)	
122	Lockwasher	3	4520-1020 (38541611)	
123	Nut	3	4300-4011 (38541629)	
124	Ring (2 piece)	1	9596-7060 (38732657)	
125	Thrust Bearing	1	5470-0018 (38637955)	
129 (a)	O-Ring	2	5823-2329 (38533873)	
133	Capscrew	3	4133-1206 (38553699)	
218	Half Hook Block	1	9590-7072 (38553350)	9645-0391 (46880332)
219	Anchor Pin	1	9590-7074 (38553392)	
224	Retainer Ring	1	4771-3020 (38553715)	

(a) Recommended spares, 2 years normal operation.

Table 40. Repair Kit List:

Item No.	Description of Part	Total Qty	Part Number (CCN)
751	Repair Kit (includes items 107, 116, 119, 122, 123, 125, 129, 133, 219 and 224)	1	7650-0331 (46889366)
752	Rebuild Kit (includes items 107, 116, 119, 120, 122, 123, 125, 129, 133, 219 and 224)	1	(47540936001)

LC2A060Q Bottom Block Hook Assembly

Figure 27. 6T Quad Bottom Block Hook Assembly Drawing (MHP2821)

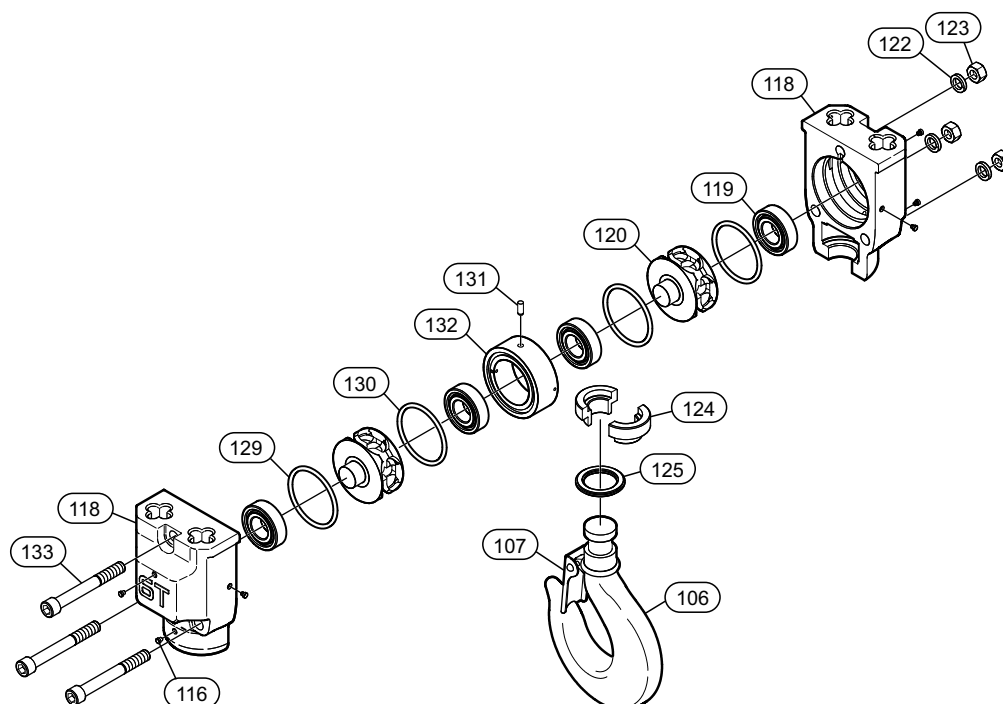


Table 41. LC2A060Q Bottom Block Hook Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)	
			6T Quad	
			Standard	Option T1
---	Bottom Block Assembly	1	7644-3337 (38794756)	7644-3396 (38794764)
106	Hook	1	9412-8459 (38576310)	9412-8558 (38617338)
107	Hook Latch Kit	1	9412-0460 (38576567)	
116	Grease Fitting	6	6710-2627 (38545562)	
118	Half Hook Block	2	9644-3325 (38757845)	9644-3394 (38759668)
119	Bearing	4	5120-0005 (38637476)	
120	Sprocket	1	7650-0394 (47539571001)	
122	Lockwasher	3	4520-1012 (38540696)	
123	Nut	3	4300-3611 (38540662)	
124	Ring (2 piece)	1	9412-7398 (38545836)	
125	Thrust Bearing	1	5470-0007 (38546149)	
129 (a)	O-Ring	2	5823-9029 (38758181)	
130 (a)	Quad Ring	2	5823-8929 (38757746)	
131	Pin	1	4600-1116 (38522231)	
132	Center Ring	1	9644-3326 (38757613)	
133	Capscrew	3	4132-2006 (38631941)	

(a) Recommended spares, 2 years normal operation.

Table 42. Repair Kit List:

Item No.	Description of Part	Total Qty.	Part Number (CCN)
753	Repair Kit (includes items 107, 119, 122, 123, 125, 129, 130, 131 and 133)	1	7650-0323 (46889283)
754	Rebuild Kit (includes items 107, 119, 120, 122, 123, 125, 129, 130, 131 and 133)	1	7650-0394 (47539571001)

LC2A250Q Bottom Block Hook Assembly

Figure 28. 25T Quad Bottom Block Hook Assembly (MHP3029)

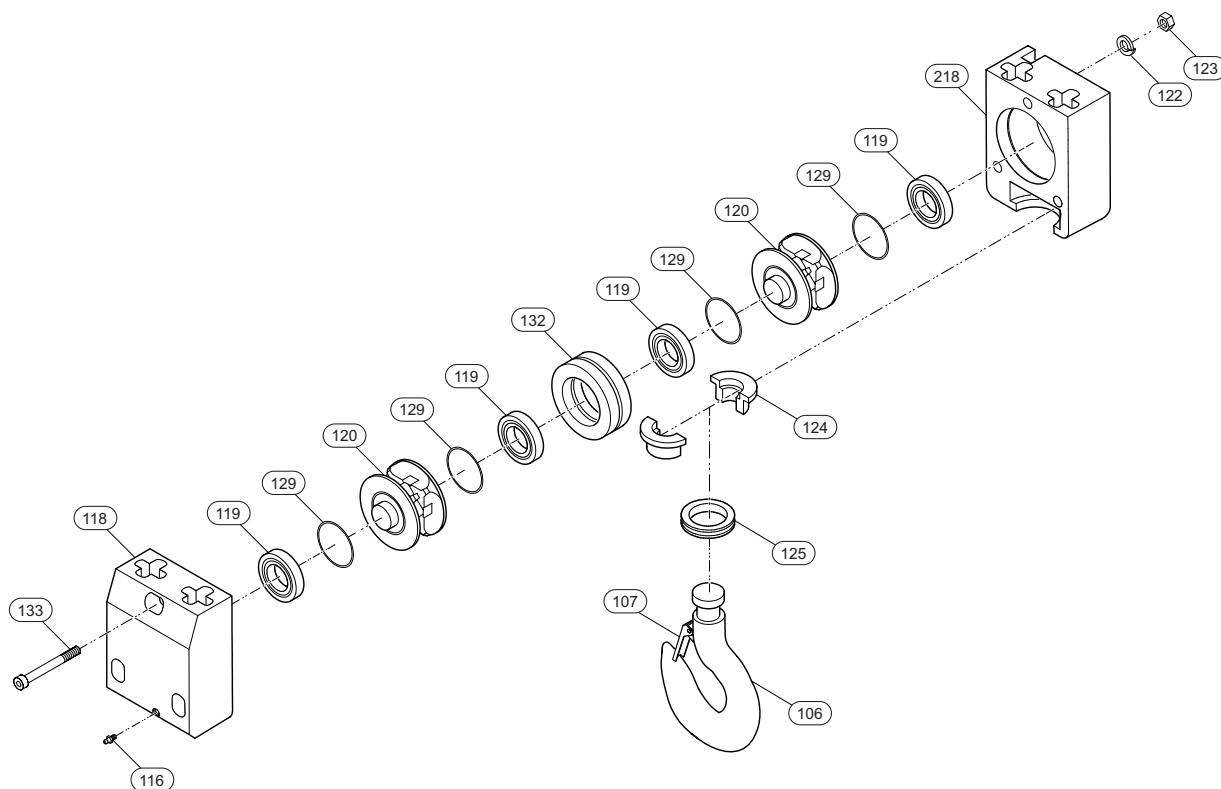


Table 43. LC2A250Q Bottom Block Hook Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)	
			25T Quad	
			Standard	Option T1
---	Bottom Block Assembly	1	7590-0008 (38576237)	3590-0131 (38631149)
106	Hook	1	9623-8233 (38576344)	9623-8301 (38621322)
107	Hook Latch Kit	1	9623-0235 (38576583)	
116	Grease Fitting	1	6710-0827 (38536744)	
118	Half Hook Block	1	9590-7071 (38553335)	9590-0129
119	Bearing	4	5120-0009 (38637500)	
120	Sprocket Bottom Block	1	9590-8069 (38553301)	
122	Lockwasher	3	4520-1020 (38541611)	
123	Nut	3	4300-4011 (38541629)	
124	Ring (2 piece)	1	9623-7026 (38741302)	
125	Thrust Bearing	1	5470-0018 (38637955)	
129 ^(a)	O-Ring	4	5823-2329 (38533873)	
132	Center Ring	1	9590-0068 (38553293)	
133	Capscrew	3	4133-1106 (38553624)	
218	Half Hook Block	1	9590-7070 (38553319)	9590-0130 (38631115)

^(a) Recommended spares, 2 years normal operation.

Table 44. Repair Kit List:

Item No.	Description of Part	Total Qty.	Part Number (CCN)
755	Repair Kit (includes items 107, 116, 119, 122, 123, 125, 129 and 133)	1	7650-0333 (46889382)
756	Rebuild Kit (includes items 107, 116, 119, 120, 122, 123, 125, 129 and 133)	1	(47540937001)

Bottom Hook Accessories

Figure 29. Bottom Hook Accessories (MHP5421)

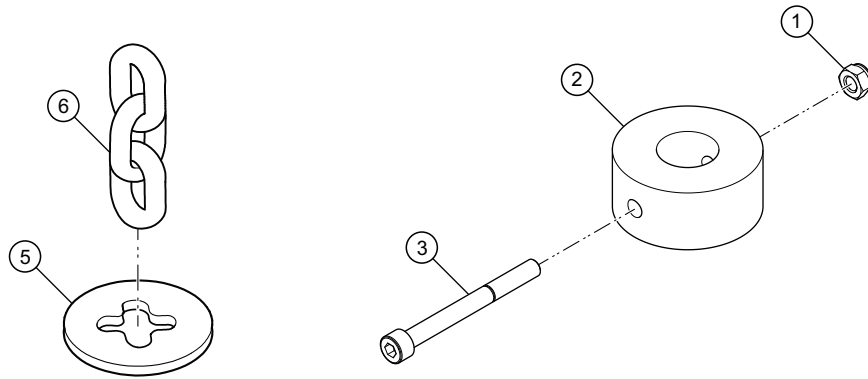


Table 45. Bottom Hook Accessories Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)				
			LC2A010S	LC2A015S	LC2A020D	LC2A030D	LC2A060Q
			1T	1.5T	2T	3T	6T
1	Nut	1	4370-6511 (38633491)				
2	Buffer	1	9644-3191 (38748687)				
3	Capscrew	1	4133-1706 (38564811)				
4 (a)	Nut	1	75582M				
5	Washer	1	9644-3150 (38752523)				
6	Load Chain (Bulk)	Specify Length (meters)	LC824-G8ZP				
---	Buffer Assembly	1	3644-3171 (38748455)				

(a) Item not illustrated.

Item No.	Description of Part	Total Qty.	Part Number (CCN)					
			LC2-A030S	LC2-A040S	LC2A060D	LC2A080D	LC2A060S	LC2A120D /125D/ 180T/ 250Q
			3T	4T	6T	8T	6T	12/12.5/ 18/25T
1	Nut	1	75589M (58250721)				---	
2	Buffer	1	9412-0119 (38523031)				9526-0040 (38539565)	
3	Capscrew	1	70926M (58250838)				4132-2006 (38631941)	
4 (a)	Nut	1	75582M				4370-6311 (38633483)	
5	Washer	1	---					
6	Load Chain (Bulk)	Specify Length (meters)	LC1336-G8ZP (71340731)				LC1645-G8ZP	
---	Buffer Assembly	1	3645-0258 (38788790)				3526-0114 (38578217)	

(a) Item not illustrated.

Chain End Stop Assembly

Figure 30. Chain End Stop Assembly Drawing (MHP5422)

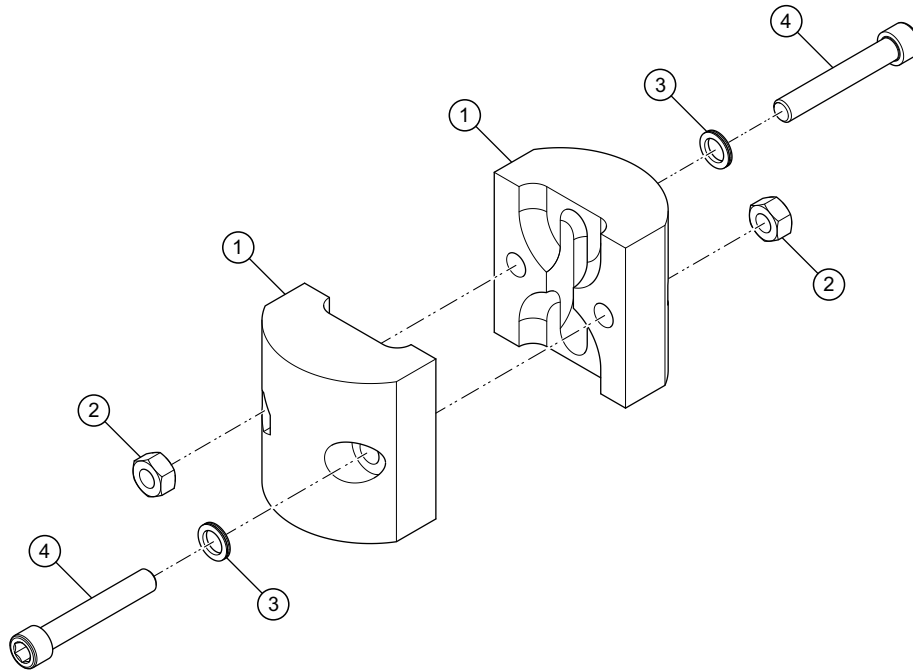


Table 46. Chain End Stop Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)		
			8x24	13x36	16x45
---	Chain End Stop Assembly	1	3645-2020 (47931651001)	3645-2021 (47931652001)	3645-2022 (47931653001)
1	Chain End Buffer	2	8000-1585 (47918026001)	8000-1586 (47918029001)	8000-1587 (47918030001)
2	Nut	2	4300-3511 (38633079)	4300-6911 (38539284)	4301-2511 (47931584001)
3	Lockwasher	2	4510-0208 (46889812)	4510-0210 (38797353)	4510-0212 (38797338)
4	Capscrew	2	4132-6206 (38539300)	4132-3306 (38631990)	4131-2806 (47931583001)

Chain Buffer Assembly

Figure 31. Chain Buffer Assembly Drawing (MHP5423)

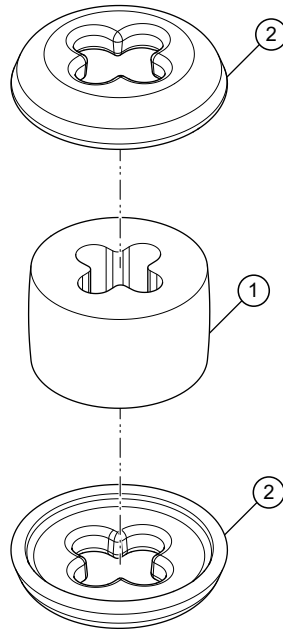


Table 47. Chain Buffer Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)		
			8x24	13x36	16x45
---	Chain Buffer Assembly	1	3645-2017 (47931648001)	3645-2018 (47931649001)	3645-2019 (47931650001)
1	Polyurethane Chain Buffer	1	9424-0070 (38525705)	9412-0141 (38523049)	9526-0039 (38524807)
2	Chain Buffer Washer	2	8000-1580 (47858899001)	8000-1581 (47858900001)	8000-1582 (47858901001)

Chain Container Assembly

Table 48. Chain Container Assembly Part Numbers

Hoist Model	Chain Size	Capacity		Container Code	Container Part Number (CCN)	Container Type
		ft	m			
LC2A010S LC2A015S LC2A020D LC2A030D LC2A060Q	8 x 24	39	12	A	3644-3147 (38599569)	Non-metallic
		98	30	B	3644-3148 (38599593)	
		197	60	C	3644-3149 (38599601)	
		262	80	D	3645-0528 (46885760)	Metallic
LC2A030S LC2A040S LC2A060D LC2A080D	13 x 36	39	12	A	3645-0235 (38790895)	Non-metallic
		82	25	B	3645-0241 (38790903)	
		131	40	C	3645-0244 (38790929)	Metallic
		197	60	D	3645-0514 (46885083)	
LC2A060S LC2A120D LC2A180T LC2A250Q	16 x 45	39	12	A	3645-0237 (38790911)	Non-metallic
		85	26	B	3645-0242 (38790937)	Metallic
		131	40	C	3645-0246 (38790945)	
		197	60	D	3645-0395 (46880373)	
		262	80	E	3645-1717 (47739039001)	

Non Metallic Chain Container Assembly

Figure 32. Non Metallic Chain Container Assembly Drawing (MHP2658)

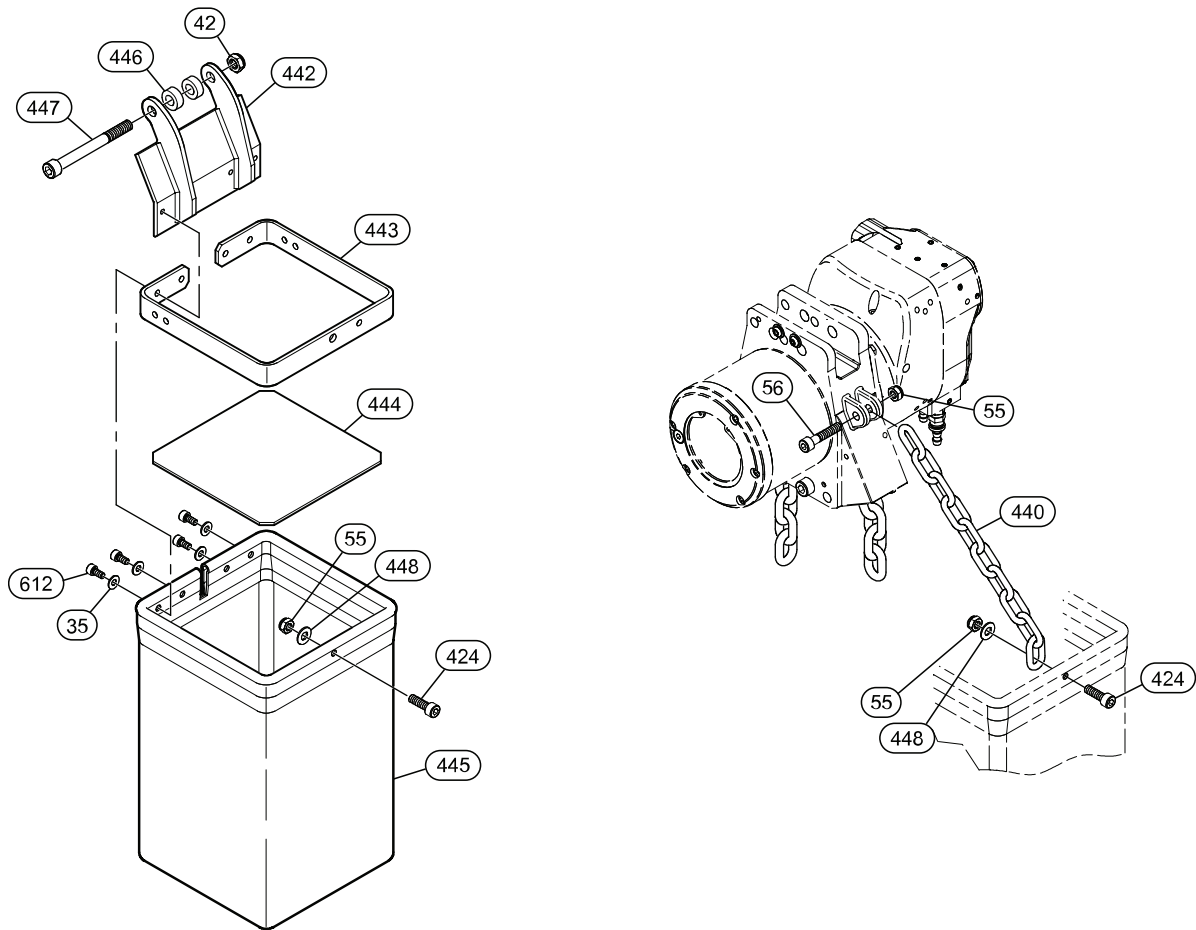


Table 49. Non Metallic Chain Container Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)					
			LC2A010S, LC2A015S, LC2A020D, LC2A030D and LC2A060Q			LC2A030S, LC2A040S, LC2A060D and LC2A080D		LC2A060S, LC2A120D, LC2A180T and LC2A250Q
			39.4 ft (12 m)	98.4 ft (30 m)	196.8 ft (60 m)	39.4 ft (12 m)	82.0 ft (25 m)	39.4 ft (12 m)
35	Washer	4	4500-1106 (38543468)					
42	Nut	1	75583M					
55	Nut	[]	4370-6511 (38633491) [2]	4370-6511 (38633491) [3]		4370-6511 (38633491) [2]		4370-6511 (38633491) [3]
56	Capscrew	1	4132-6706 (38632261)			4132-6206 (38539300)		
424	Capscrew	[]	4132-4906 (38632121) [1]	4132-4906 (38632121) [2]		4132-4906 (38632121) [1]		4132-4906 (38632121) [2]
440	Chain (Non-Metallic Chain Container)	Specify Length	6902-9232 (38653648)					
442	Support Bracket	1	9644-3168 (38605721)			9645-0236 (38792305)		9645-0238 (38792313)
443	Frame	1	9424-0139 (38531059)	9412-0179 (38525549)	9526-0054 (38525424)	9412-0179 (38525549)	9526-0054 (38525424)	
444	Plate (Bottom)	1	9424-0161 (38531034)	9412-0201 (38525572)	9526-0057 (38525457)	9412-0201 (38525572)	9526-0057 (38525457)	

Non Metallic Chain Container Assembly

Table 49. Non Metallic Chain Container Assembly Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)						
			LC2A010S, LC2A015S, LC2A020D, LC2A030D and LC2A060Q			LC2A030S, LC2A040S, LC2A060D and LC2A080D		LC2A060S, LC2A120D, LC2A180T and LC2A250Q	
			39.4 ft (12 m)	98.4 ft (30 m)	196.8 ft (60 m)	39.4 ft (12 m)	82.0 ft (25 m)	39.4 ft (12 m)	
445	Chain Container	1	9424-0137 (38531042)	9412-0177 (38525531)	9526-0056 (38525440)	9412-0177 (38525531)	9526-0056 (38525440)		
446	Washer	2	4530-1010 (38599510)			— — —			
447	Capscrew	1	4132-7006 (38632295)			4102-3601 (38776092)		4133-3706 (38762183)	
448	Washer	[]	4500-1108 (38633814) [1]		4500-1108 (38633814) [2]	4500-1108 (38633814) [1]		4500-1108 (38633814) [2]	
612	Capscrew	4	4132-4306 (38632089)						

Note: Refer to [Table 59, p. 72](#) for Load Chain part numbers in “*Service and Accessories,*” [p. 71](#).

Metallic Chain Container Assembly

Figure 33. Metallic Chain Container Assembly Drawing (MHP3059)

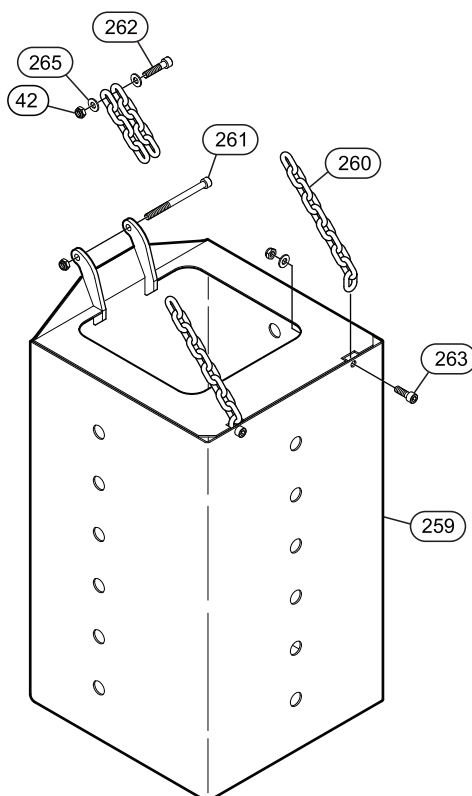


Table 50. Metallic Chain Container Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)						
			LC2A010S, LC2A015S, LC2A020D, LC2A030D and LC2A060Q	LC2A030S, LC2A040S, LC2A060D and LC2A080D			LC2A060S, LC2A120D, LC2A180T and LC2A250Q		
			262 ft (80 m)	131 ft (40 m)	197 ft (60 m)	85 ft (26 m)	131 ft (40 m)	197 ft (60 m)	262 ft (80 m)
---	Chain Container Assembly	1	3645-0528 (46885760)	3645-0244 (38790929)	3645-0514 (46885083)	3645-0242 (38790937)	3645-0246 (38790945)	3645-0395 (46880373)	3645-1717 (47739039001)
42	Nut	[]	75583M [3] (58250747)	75583M [3] (58250747)	75583M [4] (58250747)	75583M [4] (58250747)	75583M [4] (58250747)	75583M [4] (58250747)	75583M [4] (58250747)
259	Chain Container	1	9645-0529 (46885778)	9645-0245 (38792297)	9645-0513 (46885075)	9645-0243 (38792255)	9645-0247 (38792271)	9645-0394 (46880381)	9596-0202 (46885521)
260	Chain	Specify Length	6908-9432 (38532172)						
261	Capscrew	1	4132-6406 (38632246)	4102-3601 (38776092)	4102-3601 (38776092)	4133-3706 (38762183)	4133-3706 (38762183)	4133-3706 (38762183)	4133-3706 (38762183)
262	Capscrew	1	4132-7006 (38632295)	4132-3306 (38631990)	4132-3306 (38631990)	4132-3306 (38631990)	4132-3306 (38631990)	4132-3306 (38631990)	4132-3306 (38631990)
263	Capscrew	[]	4102-0401 [4] (38560850)	4102-0801 [1] (38560892)	4102-0801 [2] (38560892)	4102-0801 [2] (38560892)	4102-0801 [2] (38560892)	4132-3506 [2] (38632006)	4102-2701 [2] (38635546)
265	Washer	[]	4500-1110 [7] (38539250)	4500-1110 [3] (38539250)	4500-1110 [7] (38539250)	4500-1110 [6] (38539250)	4500-1110 [6] (38539250)	4500-1110 [6] (38539250)	4500-1110 [6] (38539250)

Note: Refer to [Table 59, p. 72](#) for Load Chain part numbers in “*Service and Accessories*,” p. 71.

Rope Control Assembly

Figure 34. Rope Control Assembly Drawing (MHP2662)

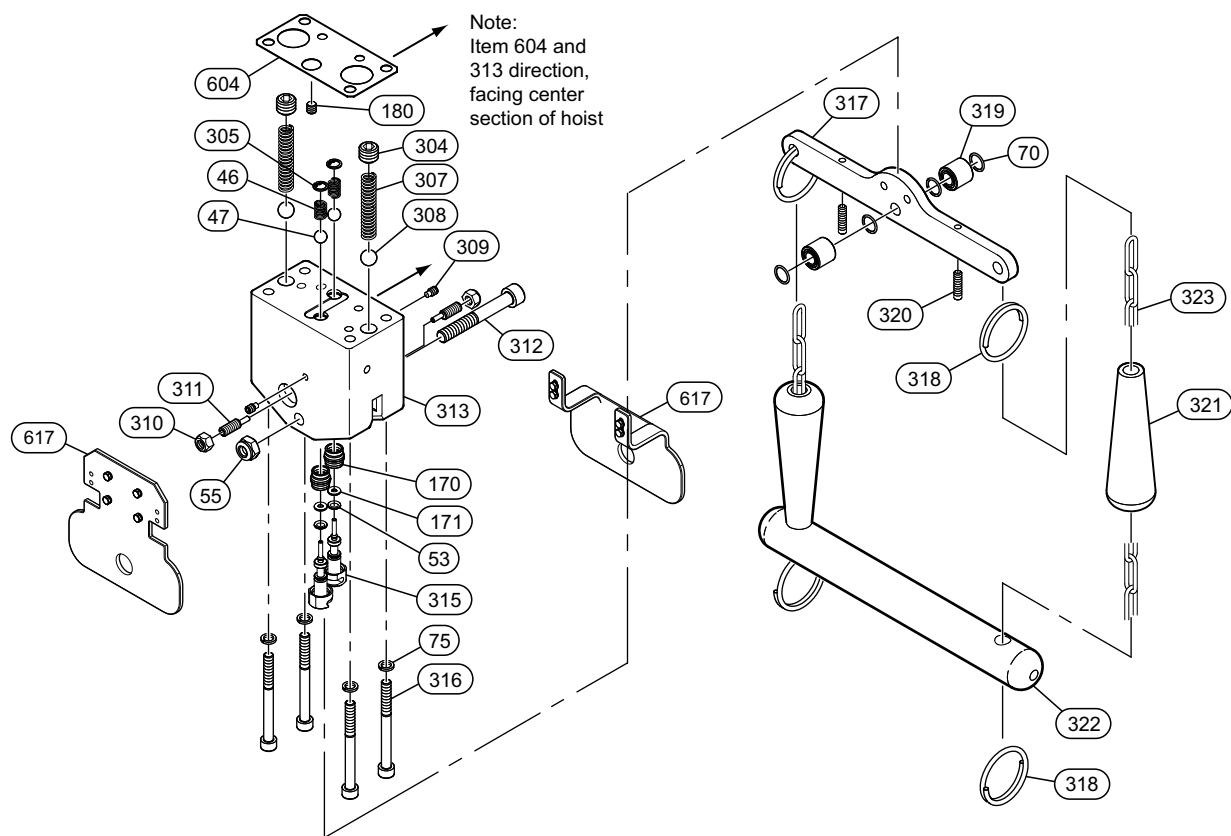


Table 51. Rope Control Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
---	Rope Control Assembly ^(a)	1	7644-3179 (38794780)
46	Spring	2	6912-8541 (38553889)
47 ^(b)	Ball	4	6940-1625 (38542924)
53 ^(b)	O-Ring	2	5820-9229 (38534517)
55	Nut	1	4370-6511 (38633491)
70	O-Ring	4	5823-7429 (38597241)
75	Washer	4	4520-1006 (38540142)
170	Protector	2	9579-0107 (38554580)
171 ^(b)	O-Ring	2	5823-5329 (38550208)
180	Setscrew	1	9644-1187 (38634762)
304 ^(b)	Plug	2	4200-6307 (38632881)
305 ^(b)	Retainer Ring	2	4771-3009 (38592408)
307	Spring	2	6916-4741 (38633954)
308	Ball	2	6940-0425 (38524344)
309	Setscrew	2	4200-8307 (38633004)
310	Nut	2	4370-7611 (38633517)
311	Adjustment Screw	2	9644-3177 (38633855)
312	Capscrew	1	4132-1506 (38631891)
313	Rope Control Block	1	9644-3174 (38633772)

Table 51. Rope Control Assembly Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
315	Valve	2	9644-3175 (38633780)
316	Capscrew	4	4133-2106 (38597233)
317	Lever	1	9644-3176 (38633798)
318	Ring	4	9053-0031 (38525390)
319	Spacer	2	9644-3178 (38633913)
320	Screw	2	4200-7707 (38543443)
321	Handle	2	33268 (04069407)
322	Bar	1	44806 (04108247)
323	Chain (bulk) ^(c)	As Req'd	6900-1332 (38538633)
604 ^(b)	Gasket	1	9644-0822 (38799698)
- - -	Protector Assembly Pull Chain None - CE ^(c)	As Req'd	(47579729001)

^(a) Rope Control Assembly (includes items 46, 47, 53, 55, 70, 75, 170, 171, 180, 302, 304, 305, 307-313 and 315-323).

^(b) Recommended spares, 2 years normal operation.

^(c) Order by ft (m).

⚠ CAUTION



When changing from a pendant control to rope control option replace three setscrews item 606 with part number 9644-1187.

Item No.	Description of Part	Total Qty	Part Number (CCN)
757	Repair Kit M-V-Rope (includes items 46, 47, 53, 70, 75, 170, 171, 180, 304, 305, 307, 309, 310, 312, 316, 318, 320 and 604) ^(a)	As Req'd	7650-0250 (38792115)

^(a) Order by ft (m).

Rope Control with Overload Assembly

Figure 35. Rope Control with Overload Assembly Drawing (MHP2663)

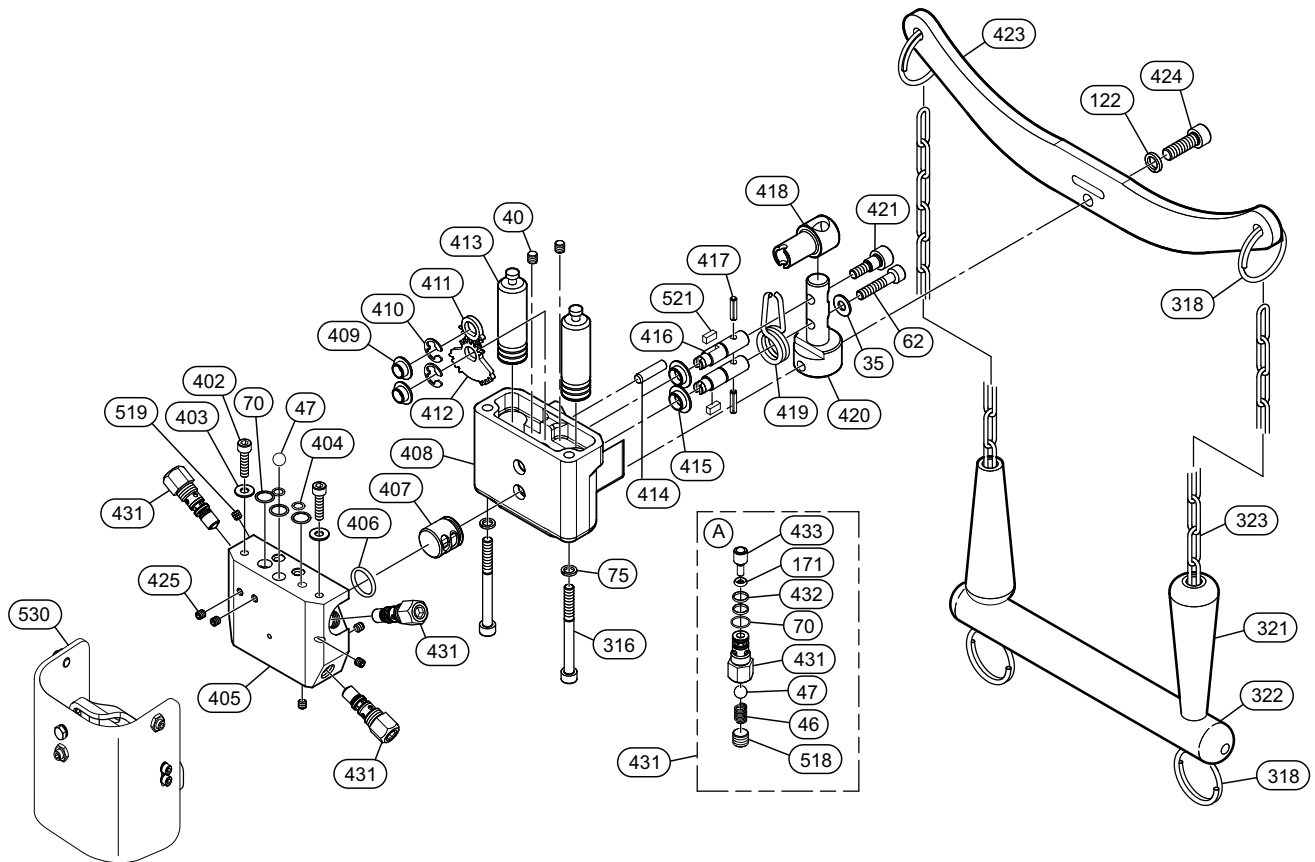


Table 52. Rope Control with Overload Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
---	Rope Control Assembly ^(a)	1	7644-3186 (38794790)
35	Washer	1	4500-1106 (38543468)
40	Set Screw	2	4200-7407 (38540498)
46	Spring	3	6912-8541 (38553889)
47 ^(b)	Ball	4	6940-1625 (38542924)
62	Capscrew	1	4132-2306 (38540183)
70 ^(b)	O-Ring	6	5823-7429 (38597241)
75	Washer	2	4520-1006 (38540142)
122	Lockwasher	1	4520-1008 (38543484)
171 ^(b)	O-Ring	3	5823-5329 (38550208)
316	Capscrew	2	4133-2106 (38597233)
318	Ring	4	9053-0031 (38525390)
321	Handle	2	33268 (04069407)
322	Bar	1	44806 (04108247)
323	Chain (bulk) ^(c)	As Req'd	6900-1332 (38538633)
402	Capscrew	2	4132-3006 (38531570)
403	Washer	2	4500-1105 (38633806)
404 ^(b)	O-Ring	2	5821-2229 (38524419)

Table 52. Rope Control with Overload Assembly Parts List (continued)

Item No.	Description of Part	Total Qty.	Part Number (CCN)
405	Rope Control Block	1	9644-3180 (38634028)
406 ^(b)	O-Ring	1	5821-1529 (38522652)
407	Cam	1	9644-3185 (38634085)
408	Valve Housing	1	9647-0038 (38757506)
409	Bushing	2	5900-8826 (38592770)
410 ^(b)	Retainer Ring	2	4783-7241 (38592341)
411 ^(b)	Gear	1	7644-0417 (46880985)
412 ^(b)	Gear Cam	1	
413	Spool	2	9644-0414 (38760443)
414	Pin	2	4600-1216 (38522835)
415	Collar	2	5900-8726 (38592291)
416	Spindle Shaft	2	9644-0413 (38760435)
417	Roll Pin	2	4650-8320 (38592333)
418	Coupling	1	9644-1422 (38760526)
419	Spring	1	9644-1421 (38760518)
420	Lever	1	9644-3182 (38634051)
421	Shoulder Screw	1	9644-1108 (38595492)
423	Bar	1	9644-3183 (38634069)
424	Capscrew	1	4132-4906 (38632121)
425	Pipe Plug	5	4200-8407 (38511713)
431	Valve	3	9644-3181 (38634036)
432 ^(b)	O-Ring	6	5821-2229 (38524419)
433	Spool	3	9644-3184 (38634077)
518	Plug	3	6510-7741 (38648143)
519	Setscrew ^(d)	1	9617-0071 (38737409)
521	Key ^(d)	2	9644-0415 (38760450)
- - -	Protector Assembly Pull Chain CE ^(c)	As Req'd	(47579642001)

^(a) Rope Control Assembly (includes items 46, 47, 53, 55, 70, 75, 170, 171, 180, 302, 304, 305, 307-313 and 315-323).

^(b) Recommended spares, 2 years normal operation.

^(c) Order by ft (m).

^(d) Item not illustrated.

Table 53. Repair Kit List:

Item No.	Description of Part	Total Qty	Part Number (CCN)
758	Repair Kit M-V-ROP-E (includes items 35, 46, 47, 62, 70, 75, 122, 171, 316, 318, 402, 403, 404, 406, 409, 410, 415, 417, 419, 421, 424, 425, 518, 519 and 521) ^(a)	As Req'd	7650-0251 (38792123)

^(a) Order by ft (m).

⚠ CAUTION



When changing from a pendant control to rope control option replace three setscrews item 606 with part number 9644-1187.

Label and Tag Placement Assembly

Figure 36. Label and Tag Placement Assembly Drawing (MHP3081)

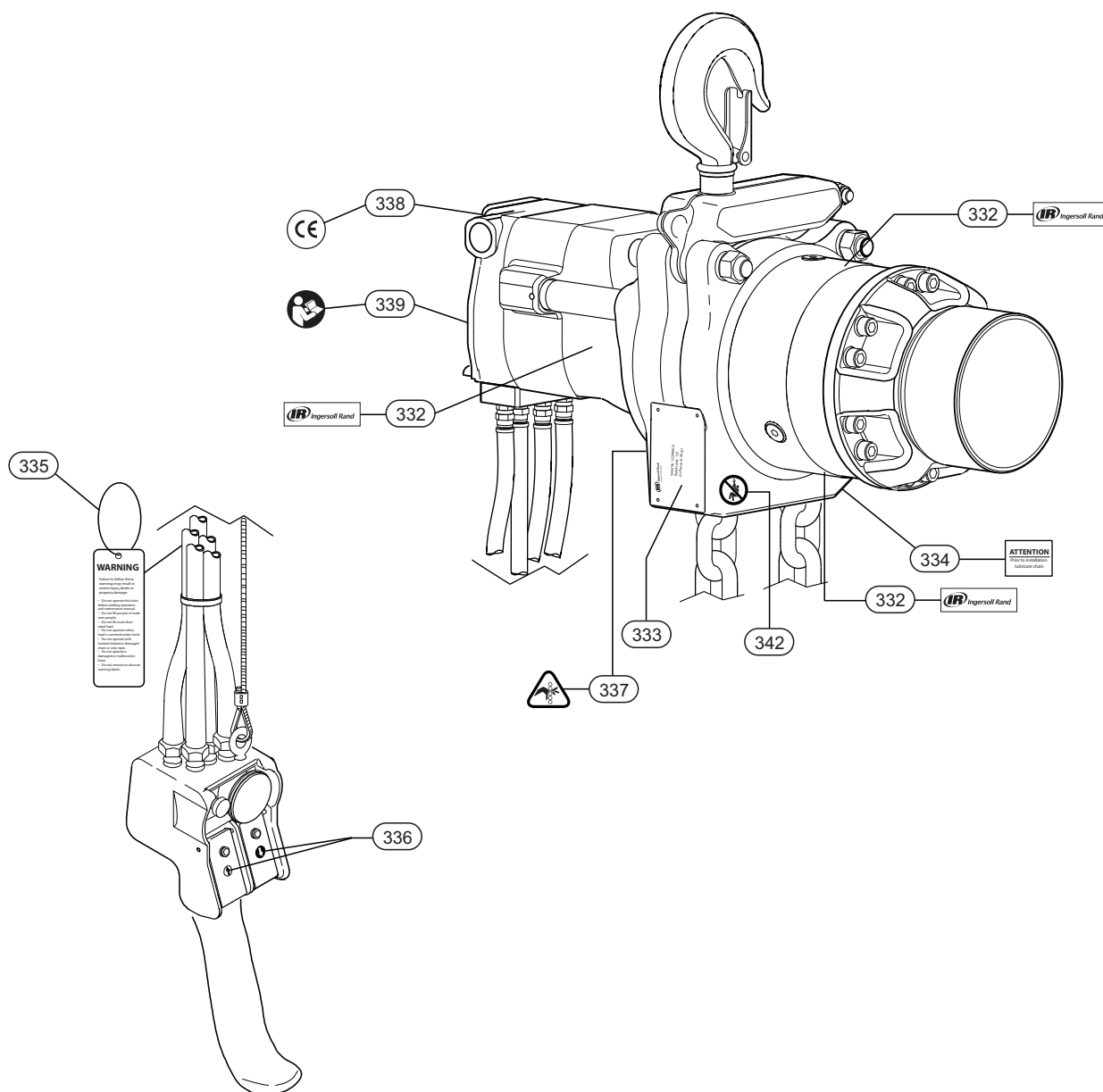


Table 54. Label and Tag Placement Assembly Parts List

Item No.	Description of Part	Total Qty.	Part Number (CCN)
330 (a)	CE Label Kit (includes 332-339 and 342)	1	7424-0370 (38768008)
331 (a)	Label Kit (includes 332-337, 339 and 342)	1	7412-0461 (38580015)
332	Ingersoll Rand Logo	3	See kit list
333	Data (Name) Plate	1	
334	Notice (Lubricate Chain) Label	1	
335	Warning Tag	1	
336	Pendant Label Kit	1	
337	Pinch Hazard Symbol Label	1	
338	CE Label	1	
339	Read Literature Symbol Label	1	
342	Non-Manrider Symbol Label	1	

(a) Item not illustrated.

Service and Accessories

Table 55. FRLs

Port Thread (a)	Port Size	Part Number	CPN	Item Type	Combination Weight		Inlet Pressure Maximum		Temp Range		Flow		Filter	Regulator	Lubricator
					lbs	kg	psi	bar	°F	°C	scfm	m ³ /min			
NPT	3/4"	C38451-810	15317506	3-Piece Combination	18.2	8.2	250	17.2	23 - 175	-5 - 79.4	199	5.6	F35451-410	R37451-600	L36351-110
BSP	3/4"	79990 066	38529681	3-Piece Combination	18.2	8.2	250	17.2	32 - 150	0 - 65.5	220	6.2	F39-C6SL00-29	R21-C6-000-29	L39-C6LD00-29
NPT	1-1/4"	- (b)	-	-	34.7	15.7	150	10.3	32 - 150	0 - 65.5	800	22.6	F355-71-410	R37571-100 (c)	L365-71-110
BSP	1-1/4"	79990070	38529749	3-Piece Combination	32.7	14.8	150	10.3	32 - 125	0 - 51.6	800	22.6	F35-CA-A29	R31-CA-000-29	L40-CA-A29

(a) Hoists with a 3/4" BSP inlet port may use either 3/4" NPT or BSP fittings.

(b) The 1-1/4" NPT FRLs are not offered in combination. Order separately by part number and use 1-1/4" nipples to make combinations. A 1-1/4" BSP to NPT nipple must be used to connect to the hoist.

(c) R37571-100 is not supplied with a gauge. Order Part Number 104502 for a 0-160 psi gauge.

Table 56. Lubricants

Part Number	CPN	Description	Where Used	Size
Lubri-Link-Green	71124754	Triple protection USDA approved lubricant. Extreme pressure formula and corrosion inhibitors to prevent formation of rust.	Hook and Latch Pivot Point, Chain	16 oz (.47 L) Spray Bottle
LLG-5	71261291			5 gal (18.9 L) Bulk Container
50P	03875705	Detergent free SAE 50W oil with formulation to inhibit the formation of rust.	Chain	1 pt (.47 L)
50G	03875713			1 gal (3.78 L)
68 8 lb	03820016	High performance, extreme pressure, multiple purpose lubricating grease.	Upper & Lower Hook Thrust Bearings, Trolley Wheel Bearings & Gear	8 lb (3.62 kg) Can
29665	04205936	Detergent free spindle oil with viscosity of 155-165 S.U.S. at 100 deg F and aniline pt of 217 deg F.	Air Line Lubricator	1 qt (.94 L)

Table 57. Pendant Handles

Part Number	CPN	Description	Air Inlet Sizes (BSP)
PHS2E	38559233	Single motor pendant	1/4"
PHS2E-U	38559258	Single motor pendant w/ E-Stop	1/4"
PHS4E	38559274	Two motor pendant	1/4"
PHS4E-U	38559290	Two motor pendant w/ E-Stop	1/4"

Table 58. Lifting Lugs

Description of Part	Total Qty.	Part Number (CCN)
Lifting Lug	2	6424-5242 (47915518001)

Service and Accessories

Table 59. Bulk Load Chains

Bulk Load Chains for LIFTCHAIN® Series					
Used on models	Chain Part Number	Chain Size Dia x pitch (mm)	Length in Meters	Weight per lineal meter	CPN
LC2A010S/015S/020D/030D/060Q	LC824-G8ZP	8 x 24	— — —	1.5	38532172
LC2A030S/040S/060D/080D	LC1336-G8ZP	13 x 36	— — —	3.85	38527677
LC2A060S/120D/180T/ 250Q	LC1645-G8ZP	16 x 45	— — —	5.75	38527800
LC2A125S to 500Q	LC2266-G8ZP	22 x 66	— — —	11	38537544
Used on models	Chain Part Number	Chain Size Dia x pitch (mm)	Length in Meters	Weight per lineal meter	CPN
LC2A010S/015S/020D/030D/060Q	LC824-G8ZP-100M	8 x 24	100	150	38756557
LC2A010S/015S/020D/030D/060Q	LC824-G8ZP-200M	8 x 24	200	300	38756540
LC2A030S/040S/060D/080D	LC1336-G8ZP-100M	13 x 36	100	385	38756508
LC2A060S/120D/180T/ 250Q	LC1645-G8ZP-100M	16 x 45	100	575	38756524
LC2A125S to 500Q	LC2266-G8ZP-100M	22 x 66	100	1,100	38756532

NOTICE



All accessories should be ordered using the corresponding CPN, except for customers within the U.S. and Canada. These customers should use the noted part number.

NOTICE



Load chain is corrosion resistant treated as standard (grade 80).

Other Kits

Description of Part	Part Number (CCN)
Overhaul Repair Kit (includes all items required for rebuild, no further kits required)	7650-0001 (38780029)
Overhaul Repair Kit, Emergency Stop Version (includes all items required for rebuild, no further kits required)	7650-0002 (38780037)
Overhaul Repair Kit (includes all items required for rebuild, no further kits required)	7650-0239 (38792008)
Overhaul Repair Kit, Emergency Stop Version (includes all items required for rebuild, no further kits required)	7650-0240 (38792016)
Overhaul Repair Kit (includes all items required for rebuild, no further kits required)	7650-0244 (38792057)
Overhaul Repair Kit, Emergency Stop Version (includes all items required for rebuild, no further kits required)	7650-0245 (38792065)
Overhaul Repair Kit (includes all items required for rebuild, no further kits required)	7650-0248 (38792099)
Overhaul Repair Kit, Emergency Stop Version (includes all items required for rebuild, no further kits required)	7650-0249 (38792107)

