

Product Parts Information



Liftchain Industrial Hydraulic Hoist Models

LC2H060S, LC2H120D, LC2H180T and LC2H250Q



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Form MHD56466
Edition 3
November 2011
45923646
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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 1 'Product Information Manuals' on page 2.

Manuals can be downloaded from www.ingersollrandproducts.com.

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. Original instructions are in English. Other languages are a translation of the original instructions. Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

Table 1: Product Information Manuals

Publication	Part/Document Number	Publication	Part/Document Number
Product Safety Information Manual	MHD56295	Product Maintenance Information Manual	MHD56467
Product Information Manual	MHD56465		

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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

- 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.

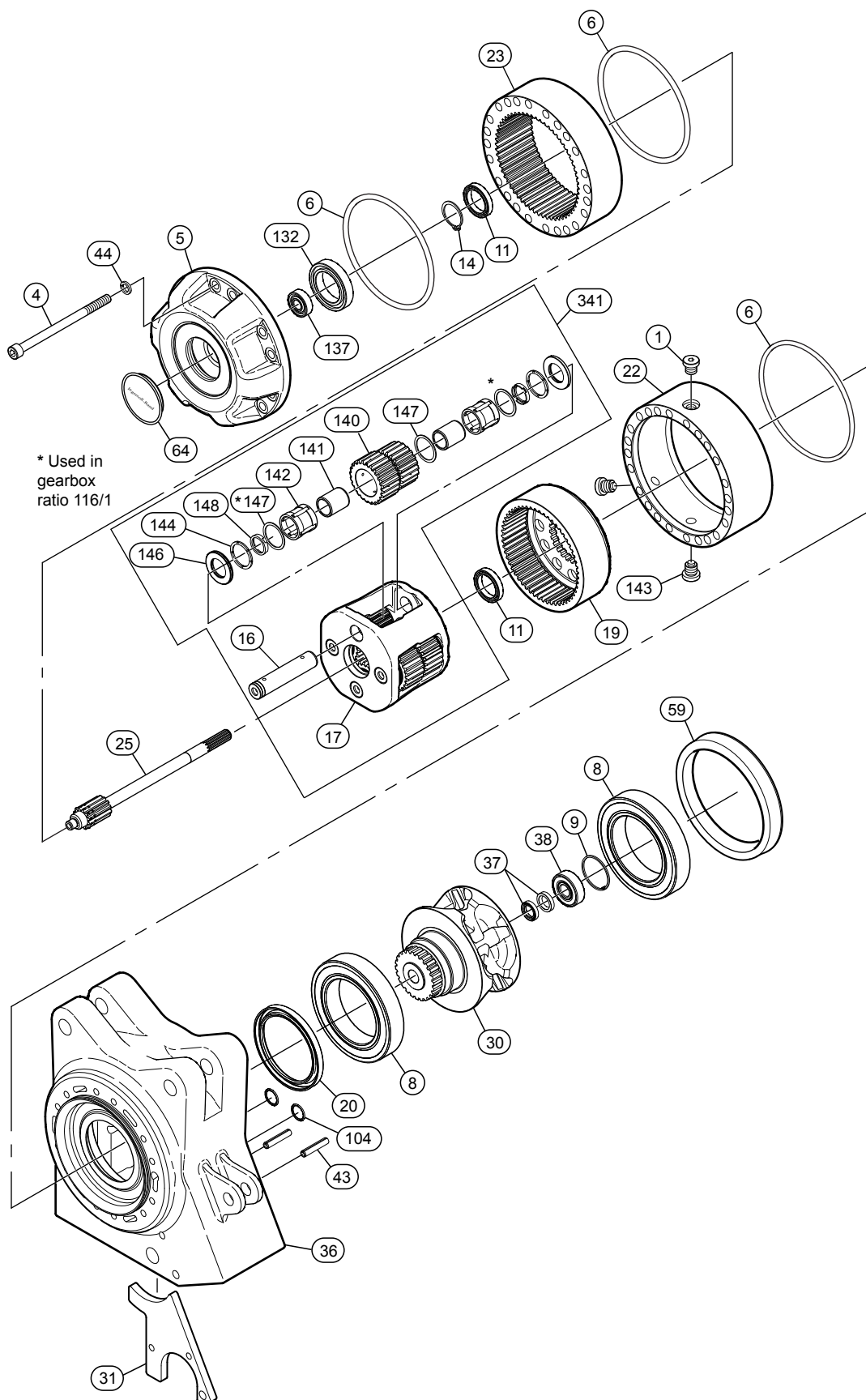
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Kent, WA 98032 USA
Phone: (877) 584-0370
Fax: (253) 398-3473

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Ingersoll Rand
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Fax: (33) 03-27-93-08-00

6 TON SINGLE AND 12 TON DOUBLE POWERHEAD ASSEMBLY DRAWING



(Dwg. MHP3108)

6 TON SINGLE AND 12 TON DOUBLE POWERHEAD ASSEMBLY PARTS LIST

Item No.	Description of Parts	Total Qty	Part Number	Item No.	Description of Parts	Total Qty	Part Number
1	Plug	2	6511-0741	43	Pin	2	4650-5520
4	Capscrew	12	4133-4506	44	Lockwasher	12	4520-1010
5	Reduction Gear End Cover	1	9645-0029	59	Adapter Ring	1	9649-0069
• 6	'O' Ring	3	5824-0029	• 64	'O' Ring	1	5820-8529
8	Bearing	2	5005-0015	• 104	'O' Ring	2	5822-2829
9	Retainer Ring	1	4770-3042	132	Bearing	1	5090-0008
11	Bearing	2	5090-0006	137	Bearing	1	5010-0001
14	Retainer Ring	1	4770-0030	140	Planetary Gear, Ratio 116\1	4	9645-0012
16	Planet Axle, Ratio 116\1	4	9645-0024		Planetary Gear, Ratio 76\1	4	9645-0014
	Planet Axle, Ratio 76\1	4	9645-0309	141	Internal Bearing Ring, Ratio 116\1	8	5630-0642
17	Planetary Carrier, Ratio 116\1	1	9645-0019		Internal Bearing Ring, Ratio 76\1	8	5630-4042
	Planetary Carrier, Ratio 76\1	1	9645-0310	142	Needle Bearing, Ratio 116\1	8	5650-3530
19	Ring Gear, 58 Th, Ratio 116\1	1	9645-0011		Needle Bearing, Ratio 76\1	8	5650-3332
	Ring Gear, 57 Th, Ratio 76\1	1	9645-0013	143	Plug	1	6517-0242
• 20	Oil Seal	1	5801-5130	144	Needle Bearing	8	5731-2632
22	Reducer Housing	1	9645-0121	146	Needle Bearing Spacer	8	5605-4225
23	Ring Gear	1	9645-0010	147	Spacer, Ratio 116\1	12	9645-0136
25	Pinion Shaft	1	9645-0282		Spacer, Ratio 76\1 (Note 3)	4	9645-0311
30	Sprocket	1	9645-0043	148	Ring, Ratio 116\1	8	9645-0137
31	Chain Stripper	1	9645-0063		Ring, Ratio 76\1	8	9645-0312
36	Hoist Body	1	9645-0042	341	Planet Support Assembly , Ratio 116\1 (Note 1)	1	3645-0133
• 37	Oil Seal	2	5801-9830		Planet Support Assembly , Ratio 76\1 (Note 1)	1	3645-0308
38	Bearing	1	5025-0002				

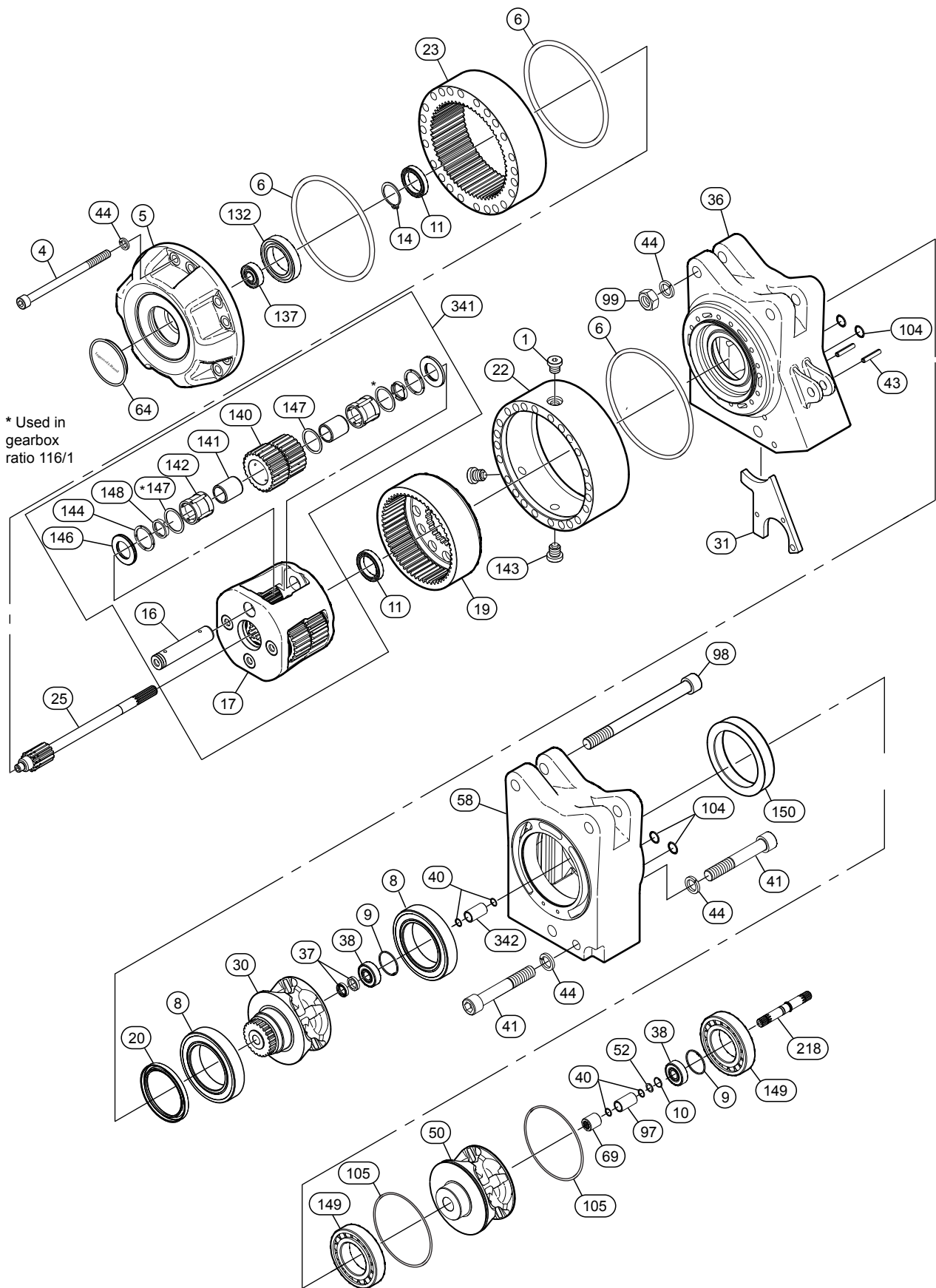
• Recommended spares, 2 years normal operation.

Note 1: Do not disassemble planet support assembly item 341.

Note 2: Ensure correct ordering of gear box parts, standard ratio 116\1 or high speed ratio 76\1.

Note 3: Note quantity differences between gear box ratio.

18 TON TRIPLE AND 25 TON QUAD POWERHEAD ASSEMBLY DRAWING



(Dwg. MHP3110)

18 TON TRIPLE AND 25 TON QUAD POWERHEAD ASSEMBLY PARTS LIST

Item No.	Description of Parts	Total Qty	Part Number	Item No.	Description of Parts	Total Qty	Part Number
• 1	Plug	2	6511-0741	52	Spacer	1	9645-0320
4	Capscrew	12	4133-4506	58	Chain Guide Housing	1	9645-0050
5	Reduction Gear End Cover	1	9645-0029	• 64	'O' Ring	1	5820-8529
• 6	'O' Ring	3	5824-0029	69	Coupling Sleeve	1	9645-0360
8	Bearing	2	5005-0015	97	Spacer Ring	1	9645-0143
9	Retainer Ring	2	4770-3042	• 104	'O' Ring	4	5822-2829
10	Retainer Ring	1	4770-0015	• 105	'O' Ring	2	5821-2829
11	Bearing	2	5090-0006	132	Bearing	1	5090-0008
14	Retainer Ring	1	4770-0030	137	Bearing	1	5010-0001
16	Planet Axle, Ratio 116\1	4	9645-0024	140	Planetary Gear, Ratio 116\1	4	9645-0012
	Planet Axle, Ratio 76\1	4	9645-0309		Planetary Gear, Ratio 76\1	4	9645-0014
17	Planetary Carrier, Ratio 116\1	1	9645-0019	141	Internal Bearing Ring, Ratio 116\1	8	5630-0642
	Planetary Carrier, Ratio 76\1	1	9645-0310		Internal Bearing Ring, Ratio 76\1	8	5630-4042
19	Ring Gear, 58 Th, Ratio 116\1	1	9645-0011	142	Needle Bearing	8	5650-3530
	Ring Gear, 57 Th, Ratio 76\1	1	9645-0013		Needle Bearing	8	5650-3332
• 20	Oil Seal	1	5801-5130	143	Plug	1	6517-0242
22	Reducer Housing	1	9645-0121	144	Needle Bearing, Ratio 116\1 only	8	5731-2632
23	Ring Gear	1	9645-0010	146	Needle Bearing Spacer	8	5605-4225
25	Pinion Shaft	1	9645-0282	147	Bearing, Ratio 116\1	12	9645-0136
30	Sprocket	1	9645-0043		Bearing, Ratio 76\1 (Note 3)	4	9645-0311
31	Chain Stripper	1	9645-0063	148	Ring, Ratio 116\1	8	9645-0137
36	Hoist Body	1	9645-0042		Ring, Ratio 76\1	8	9645-0312
• 37	Oil Seal	2	5801-9830	149	Bearing	2	5120-0012
38	Bearing	2	5025-0002	150	Adapter	1	9645-0056
• 40	'O' Ring	6	5821-8129	218	Pinion Shaft	1	9645-0359
41	Capscrew	2	4132-3906	341	Planet Support Assembly , Ratio 116\1 (Note 1)	1	3645-0133
43	Pin	2	4650-5520		Planet Support Assembly , Ratio 76\1, (Note 1)	1	3645-0308
44	Lockwasher	12	4520-1010	342	Spacer, Ring	1	9645-0361
50	Sprocket	1	9645-0055				

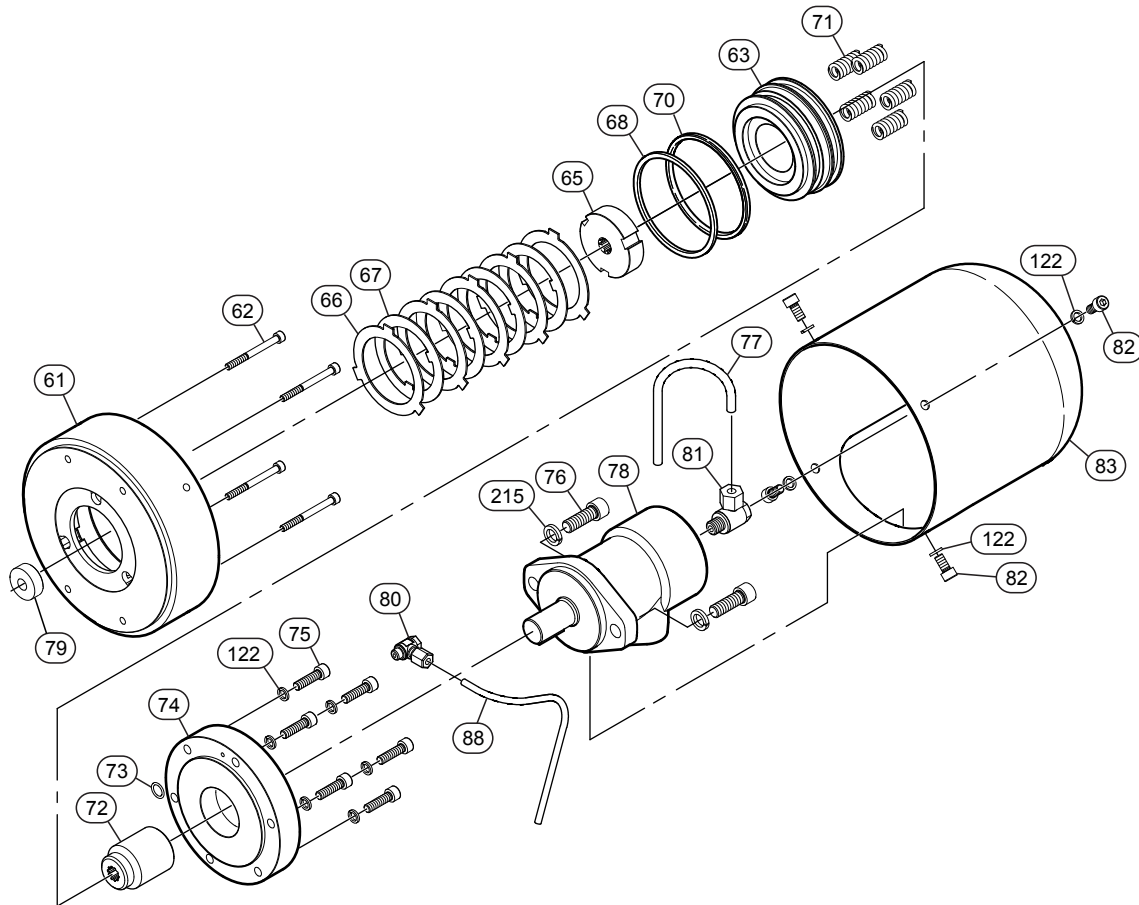
• Recommended spares, 2 years normal operation.

Note 1: Do not disassemble planet support assembly item 341.

Note 2: Ensure correct ordering of gear box parts, standard ratio 116\1 or high speed ratio 76\1.

Note 3: Note quantity differences between gear box ratio.

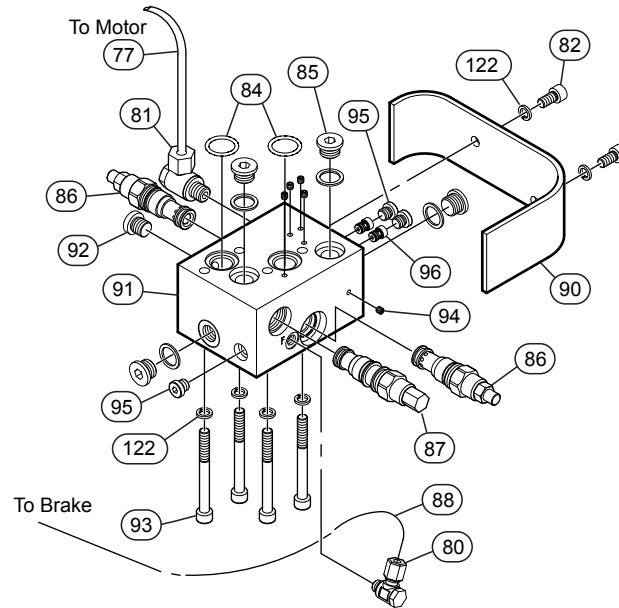
HYDRAULIC MOTOR AND DISC BRAKE ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP3109)

Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
61	Brake Housing	1	9645-0286	76	Capscrew	2	4131-2706
62	Capscrew	4	4133-3106	77	Drain Tube	1	9645-0352
63	Piston	1	9645-0288	78	Motor, Standard 30 cm ³	1	6400-0147
65	Coupling	1	9645-0289		Motor, High Speed 40 cm ³	1	6400-0144
66	Friction Disc	5	6305-9932	79	Spacer, Ring	1	9645-0290
67	Drive Disc	4	6306-0032	80	Fitting	1	6816-9332
68	O' Ring	1	5824-0529	81	Fitting	1	6823-9828
70	O' Ring	1	5824-0429	82	Capscrew	4	4130-1306
71	Spring	5	6915-9432	83	Protector, Motor	1	9645-0291
72	Coupling	1	9535-0017	88	Brake Tube	1	9645-0351
73	O' Ring	1	5821-6529	122	Lockwasher	10	4520-1008
74	Motor Adapter	1	9645-0287	215	Lockwasher	2	4520-1012
75	Capscrew	6	4132-5006				

HYDRAULIC MANIFOLD ASSEMBLY DRAWING AND PARTS LIST

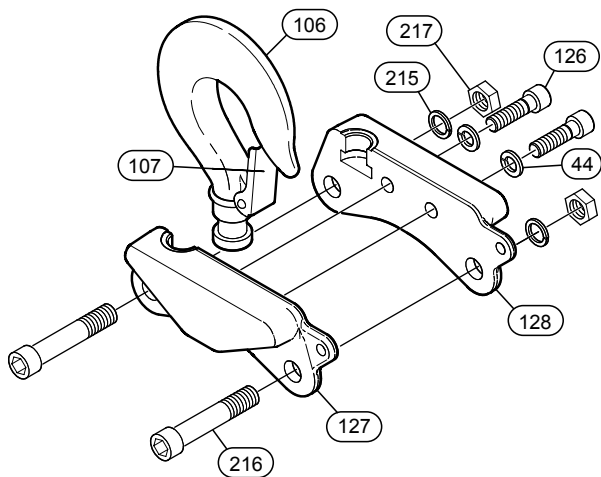


(Dwg. MHP3127)

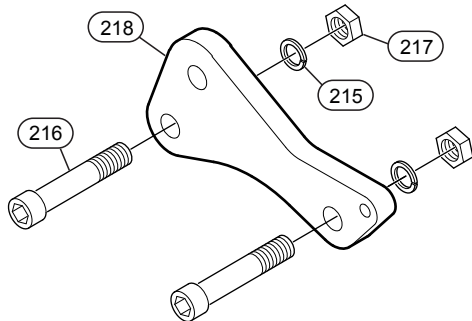
Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
77	Drain Tube	1	9645-0352	90	Protector	1	9645-0368
80	Fitting, Regulator	1	6816-9332	91	Manifold	1	3598-0113
81	Fitting	1	6823-9828	92	Plug	1	6511-0741
82	Capscrew	2	4130-1306	93	Capscrew	4	4133-1706
84	'O' Ring	2	5821-6329	94	Setscrew	5	4200-8107
85	Plug	4	6511-9732	95	Plug	3	6511-0441
86	Valve	2	6841-6941	96	Shuttle Valve	2	6843-0141
87	Limit Relief Valve	1	6841-3432	122	Lockwasher	2	4520-1008
88	Brake Tube		9645-0351				

6 AND 12 TON TOP HOOK AND TROLLEY MOUNT ASSEMBLY DRAWING AND PARTS LIST

6t Single Fall Hoist Capacity

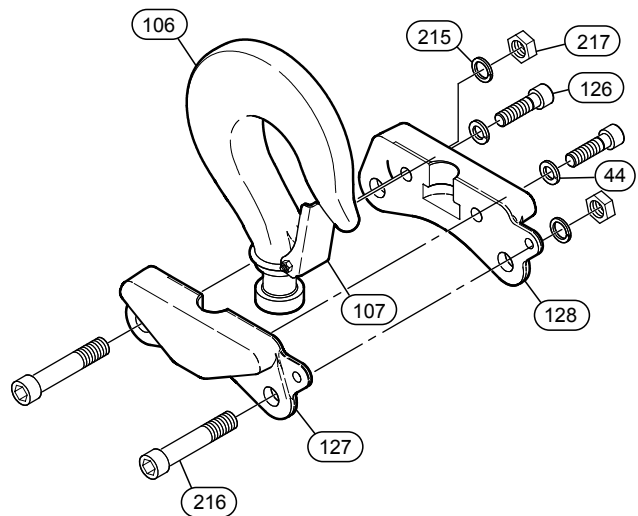


(Dwg. MHP3130)

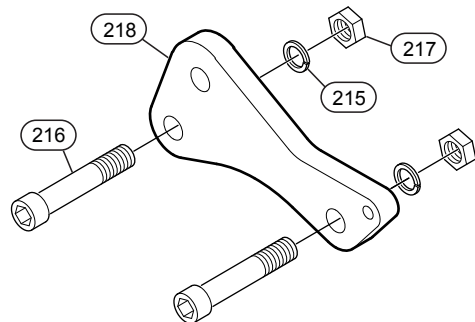


(Dwg. MHP3131)

12t Double Fall Hoist Capacity



(Dwg. MHP3132)



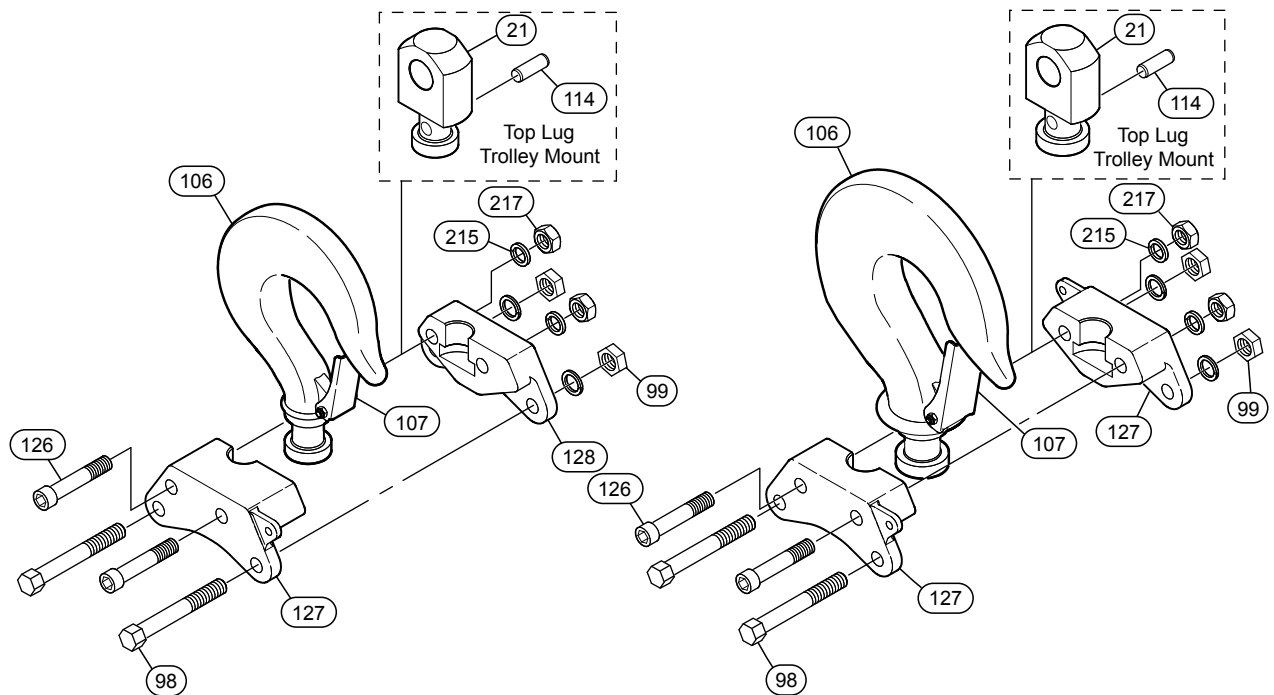
(Dwg. MHP3133)

Item No.	Description of Part	Total Qty	Part Number	
			6t Single	12t Double
---	Top Hook Assembly	1	7645-0089	7645-0090
44	Lockwasher	2	4520-1014	4520-1014
106	Hook	1	9412-8459	9623-8234
107	Hook Latch Kit	1	9412-0460	9623-0236
126	Capscrew	2	4133-4306	4133-4306
127	Half Hook Support	1	9645-0066	9645-0068
128	Half Hook Support	1	9645-0065	9645-0067
215	Washer	2	4520-1120	4520-1120
216	Capscrew	2	4133-4006	4133-4006
217	Locknut	2	4300-4011	4300-4011
218	Trolley Suspension Plate	1	9649-0071	9649-0043

18 AND 25 TON TOP HOOK AND TROLLEY MOUNT ASSEMBLY DRAWING AND PARTS LIST

18 t Triple Fall Hoist Capacity

25 t Quad Fall Hoist Capacity

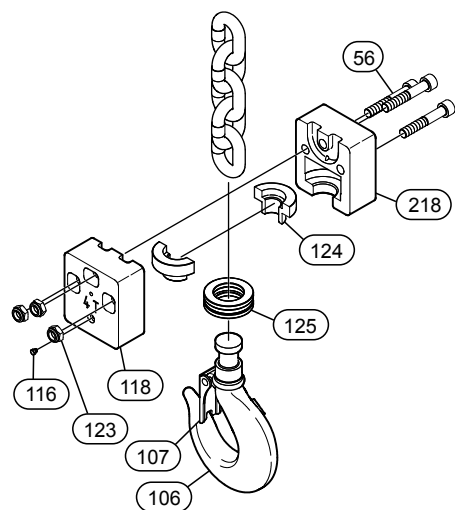


(Dwg. MHP3019)

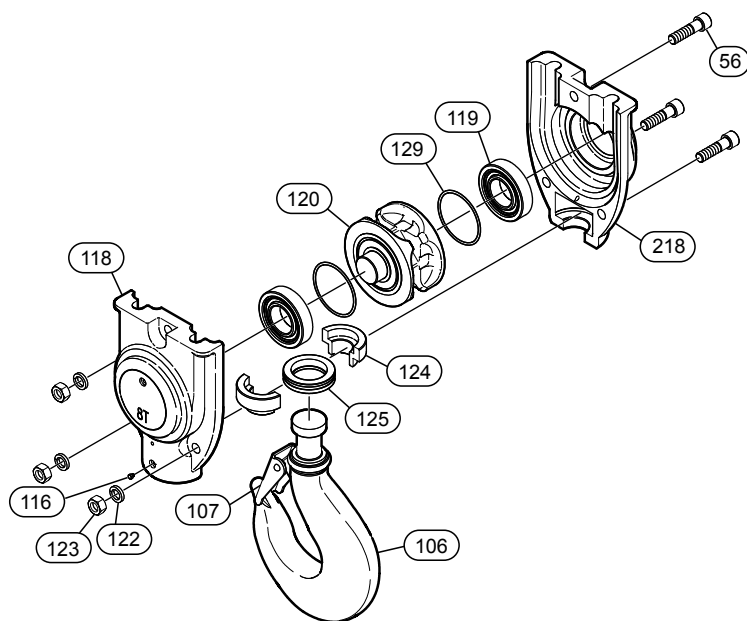
Item No.	Description of Part	Total Qty	Part Number	
			18 t Triple	25 t Quad
- - -	Top Hook Assembly	1	7645-0161	7645-0160
- - -	Trolley Suspension Assembly	1	7649-0136	7649-0135
21	Trolley Suspension Lug	1	9649-0134	9649-0013
98	Capscrew	2	4133-5106	
99	Nut	2	4300-4011	
106	Hook	1	9596-8135	9623-8233
107	Hook Latch Kit	1	9596-0136	9623-0235
114	Pin	1	4600-2216	
126	Capscrew	2	4133-1206	
127	Half Hook Support	()	9645-0146 (1)	9645-0144 (2)
128	Half Hook Support	1	9645-0147	- - -
215	Lockwasher	4	4520-1120	4520-1020
217	Nut	2	4300-4011	

6 AND 12 TON BOTTOM BLOCK ASSEMBLY DRAWING AND PARTS LIST

6t Single Fall Capacity



12t Double Fall Capacity

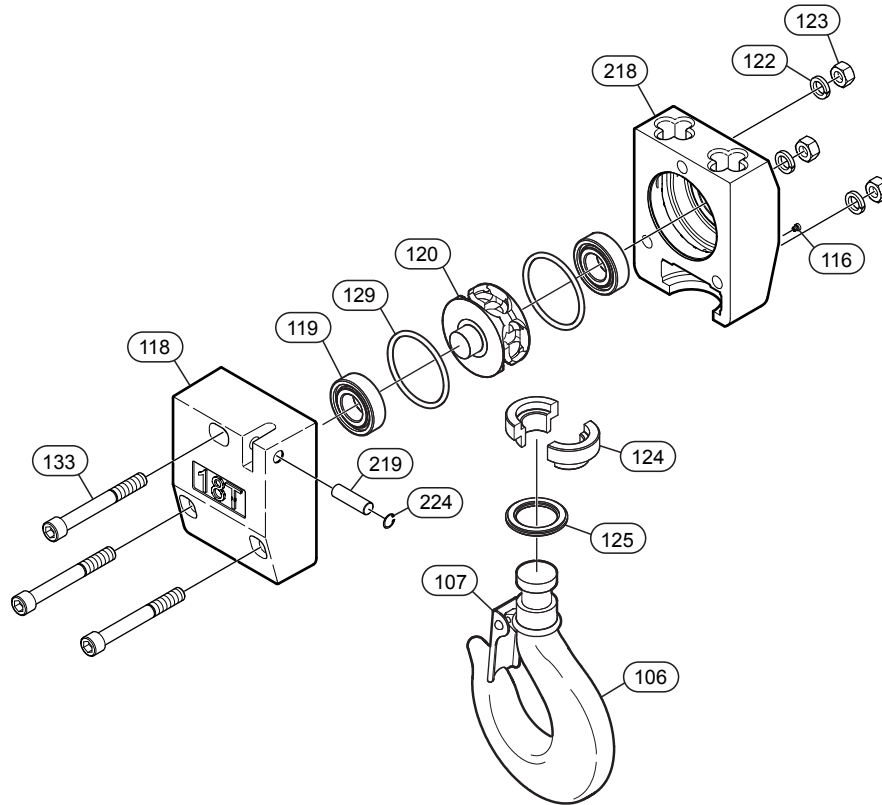


(Dwg. MHP3006)

Item No.	Description of Part	Total Qty	Part Number			
			6t Single Fall		12t Double Fall	
			Standard	Option T1	Standard	Option T1
---	Bottom Block Assembly	1	7526-0100	7526-7245	7526-0356	7526-7248
44	Lockwasher	()	4520-1020 (1)	4520-1010 (2)	4520-1012 (3)	
56	Capscrew	()	9526-0037 (1)	4133-0006 (2)	4131-0306 (3)	
106	Hook	1	9412-8459	9412-8559	9623-8234	9623-8263
107	Hook Latch Kit	1	9412-0460		9623-0236	
116	Greaser	1	6710-2627		6710-2627	
118	Half Hook Block	1	9526-0138	9526-8246	9526-0352	9526-7203
119	Bearing	2	---		5120-0009	
120	Sprocket	1			9590-8069	
123	Nut	()	4300-4011 (1)	4300-6911 (2)	4300-3611 (3)	
124	Ring, (2 Piece)	1	9412-7398		9623-7014	
125	Thrust Bearing	1	5470-0007		5470-0013	
• 129	'O' Ring	2	---		5823-2329	
218	Half Hook Block	1	9526-0139	9525-8247	9526-0364	9526-7204

• Recommended spares, 2 years normal operation.

18 TON TRIPLE BOTTOM BLOCK ASSEMBLY DRAWING AND PARTS LIST

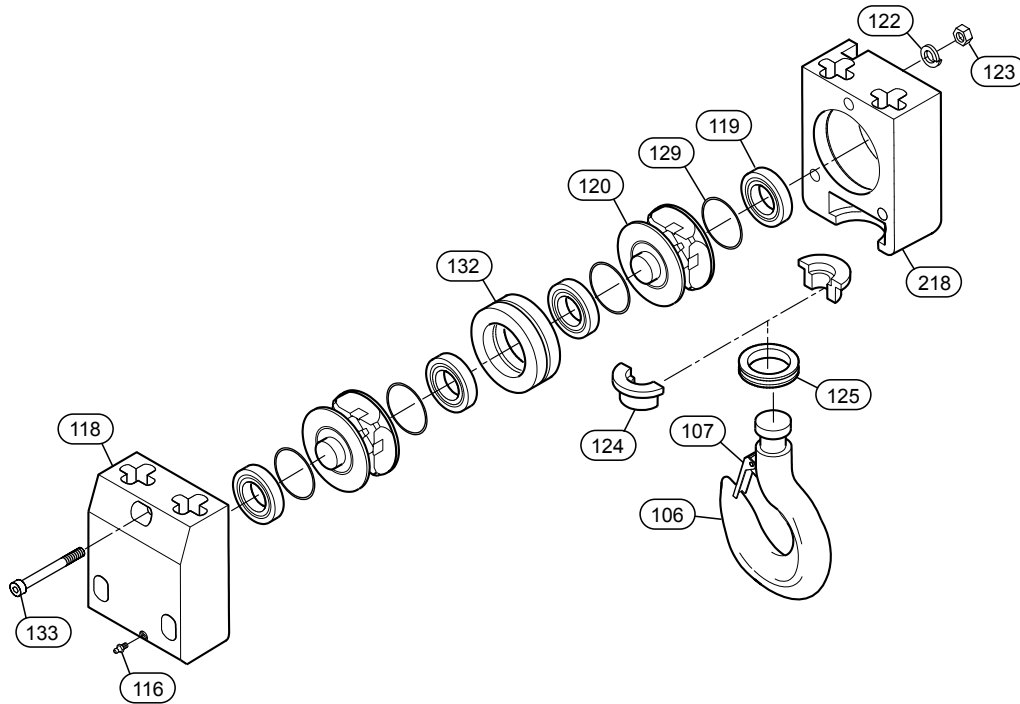


(Dwg. MHP3018)

Item No.	Description of Part	Total Qty	Part Number	
			18 t Triple	
			Standard	Option T1
---	Bottom Block Assembly	1	7590-0009	7590-0127
106	Hook	1	9596-8135	9596-8145
107	Hook Latch Kit	1	9596-0136	
116	Grease Fitting	1	6710-0827	
118	Half Hook Block	1	9590-7073	9590-0126
119	Bearing	2	5120-0009	
120	Sprocket	1	9590-8069	
122	Lockwasher	3	4520-1020	
123	Nut	3	4300-4011	
124	Ring (2 piece)	1	9596-7060	
125	Thrust Bearing	1	5470-0018	
• 129	O' Ring	2	5823-2329	
133	Capscrew	3	4133-1206	
218	Half Hook Block	1	9590-7072	9590-0125
219	Anchor Pin	1	9590-7074	
224	Retainer Ring	1	4771-3020	

• Recommended spares, 2 years normal operation.

25 TON QUAD BOTTOM BLOCK ASSEMBLY DRAWING AND PARTS LIST

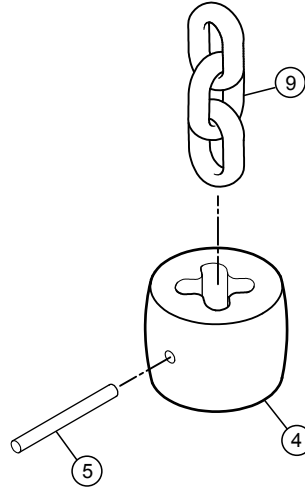


(Dwg. MHP3029)

Item No.	Description of Part	Total Qty	Part Number	
			25 t Quad	
			Standard	Option T1
---	Bottom Block Assembly	1	7590-0008	7623-7302
106	Hook	1	9623-8233	9623-8301
107	Hook Latch Kit	1	9623-0235	
116	Grease Fitting	1	6710-0827	
118	Half Hook Block	1	9590-7071	9623-8299
119	Bearing	4	5120-0009	
120	Sprocket	2	9590-8069	
122	Lockwasher	3	4520-1020	
123	Nut	3	4300-4011	
124	Ring (2 piece)	1	9623-7026	
125	Thrust Bearing	1	5470-0018	
• 129	'O' Ring	4	5823-2329	
131	Pin	1	4600-1116	
132	Center Ring	1	9590-0068	
133	Capscrew	3	4133-1106	
218	Half Hook Block	1	9590-7070	9623-8300

• Recommended spares, 2 years normal operation.

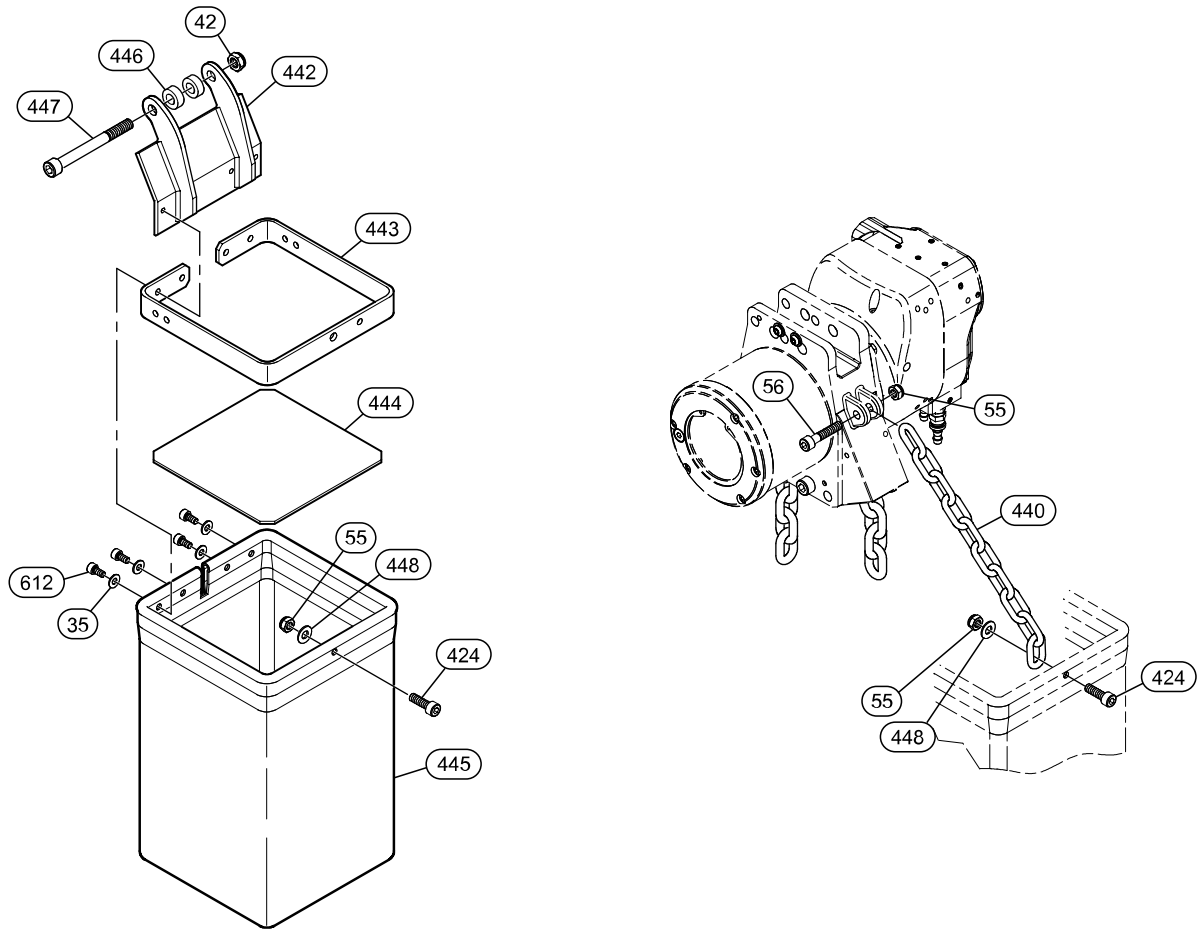
BOTTOM HOOK ACCESSORIES PARTS DRAWING AND PARTS LIST



(Dwg. MHP3134)

Item No.	Description of Part	Total Qty	Part Number	
			LC2H060S /LC2H120D	LC2H180T /LC2H250Q
			6 and 12 ton	18 and 25 ton
1	Pin	1	4650-4020	
4	Buffer	1	9526-0038	
9	Load Chain (Bulk)	Specify Length (meters)	LC1645-G8ZP	

NON METALLIC CHAIN CONTAINER ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP2658)

Item No.	Description of Part	Total Qty	Part Number
			LC2H060S, LC2H120D, LC2H180T and LC2H250Q
			39.4 ft (12 m)
35	Washer	4	4560-1006
42	Nut	1	75583M
55	Nut	3	4370-6511
56	Capscrew	1	4132-6206
424	Capscrew	2	4132-4906
440	Chain (Non-Metallic Chain Container)	Specify Length	6902-9232
442	Support Bracket	1	9645-0238
443	Frame	1	9526-0054
444	Plate (Bottom)	1	9526-0057
445	Chain Container	1	9526-0056
447	Capscrew	1	4133-0306
448	Washer	2	4500-1108
612	Capscrew	4	4132-4306

NOTE: Hoist shown is an example and may not look like your unit.

* Specify length in ft (m) when ordering replacement.

** Item not included in Non-Metallic Chain Container.

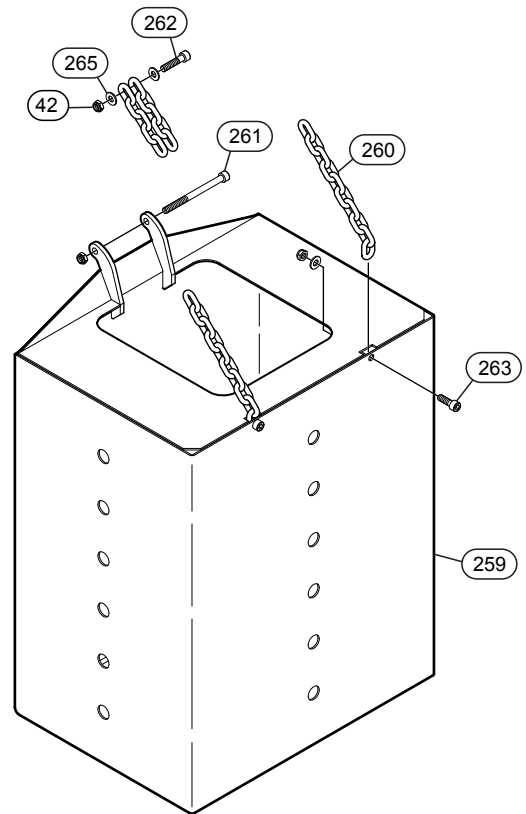
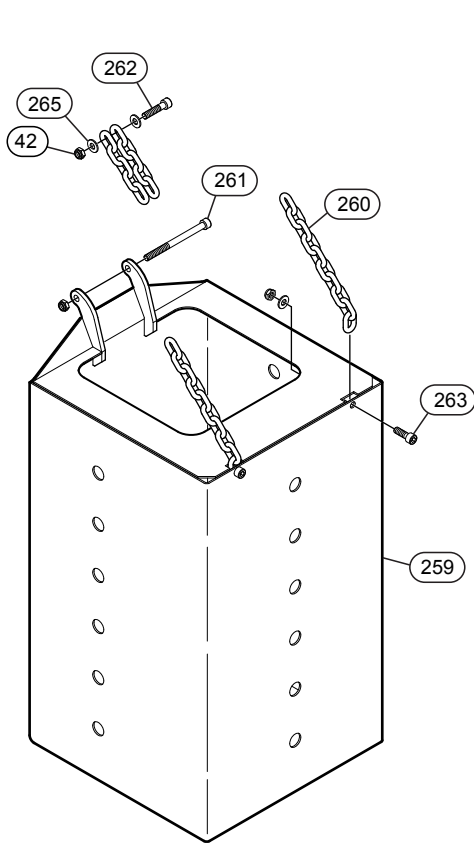
Chain Container Assembly Part Numbers

Hoist Model	Capacity		Container Part Number	
	ft	m	Non-metallic	Metallic
LC2H060S	39	12	CB2-120D-12M	---
LC2H120D	85	26	---	CB2-120D-24M
LC2H180T	131	40	---	CB2-120D-40M
LC2H250Q				

METALLIC CHAIN CONTAINER ASSEMBLY DRAWING AND PARTS LIST

13 x 36 mm Chain Size

16 x 45 mm Chain Size



(Dwg. MHP3059)

Item No.	Description of Part	Total Qty	Part Number	
			LC2H060S, LC2H120D, LC2H180T and LC2H250Q	
			85.3 ft (26 m)	131.2 ft (40 m)
---	Chain Container Assembly	1	3645-0242	3645-0246
42	Nut	4	75583M	
259	Chain Container	1	9645-0243	9645-0247
260	Chain	Specify Length	6908-9432	
261	Capscrew	1	4133-0306	
262	Capscrew	1	4132-3306	
263	Capscrew	2	4132-3506	
265	Washer	4	4500-1110	

SERVICE NOTES

SERVICE NOTES
