

Product Parts Information



LOW HEADROOM HYDRAULIC CHAIN HOIST

Models
LC2H250Q



Save These Instructions



Form MHD56500
Edition 1
October 2012
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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 <http://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	contact factory
Product Information Manual	contact factory		

TABLE OF CONTENTS

Description	Page No.	Dwg. Name	Page No.
Parts Ordering Information	3		
Trolley Assembly Drawing	4	(Dwg. MHP3155)	4
Trolley Assembly Parts List	5		
Powerhead Assembly Drawing	6	(Dwg. MHP3310)	6
Powerhead Assembly Parts List	7		
Hydraulic Motor and Disc Brake Assembly Drawing and Parts List	8	(Dwg. MHP3109)	8
Hydraulic Manifold Assembly Drawing and Parts List	9	(Dwg. MHP3127)	9
Trolley Motor Assembly Drawing and Parts List	10	(Dwg. MHP3308)	10
Lock Axle Assembly Drawing and Parts List	11	(Dwg. MHP3311)	11
Hydraulic Components Assembly Drawing and parts List	12	(Dwg. MHP3309)	12
25 Ton Quad Bottom Block Hook Assembly Drawing and Parts List	13	(Dwg. MHP3029)	13
Bottom Hook Accessories Parts Drawing and Parts List	14	(Dwg. MHP3134)	14
Non Metallic Chain Container Assembly Drawing and parts List	15	(Dwg. MHP2658)	15
Metallic Chain Container Assembly Drawing and Parts List	16	(Dwg. MHP3059)	16

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.

For additional information contact:

Ingersoll Rand

20017 72nd Avenue South
Kent, WA 98032 USA
Phone: (877) 584-0370
Fax: (253) 398-3473

or

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

LC2A060S
LC2A120D



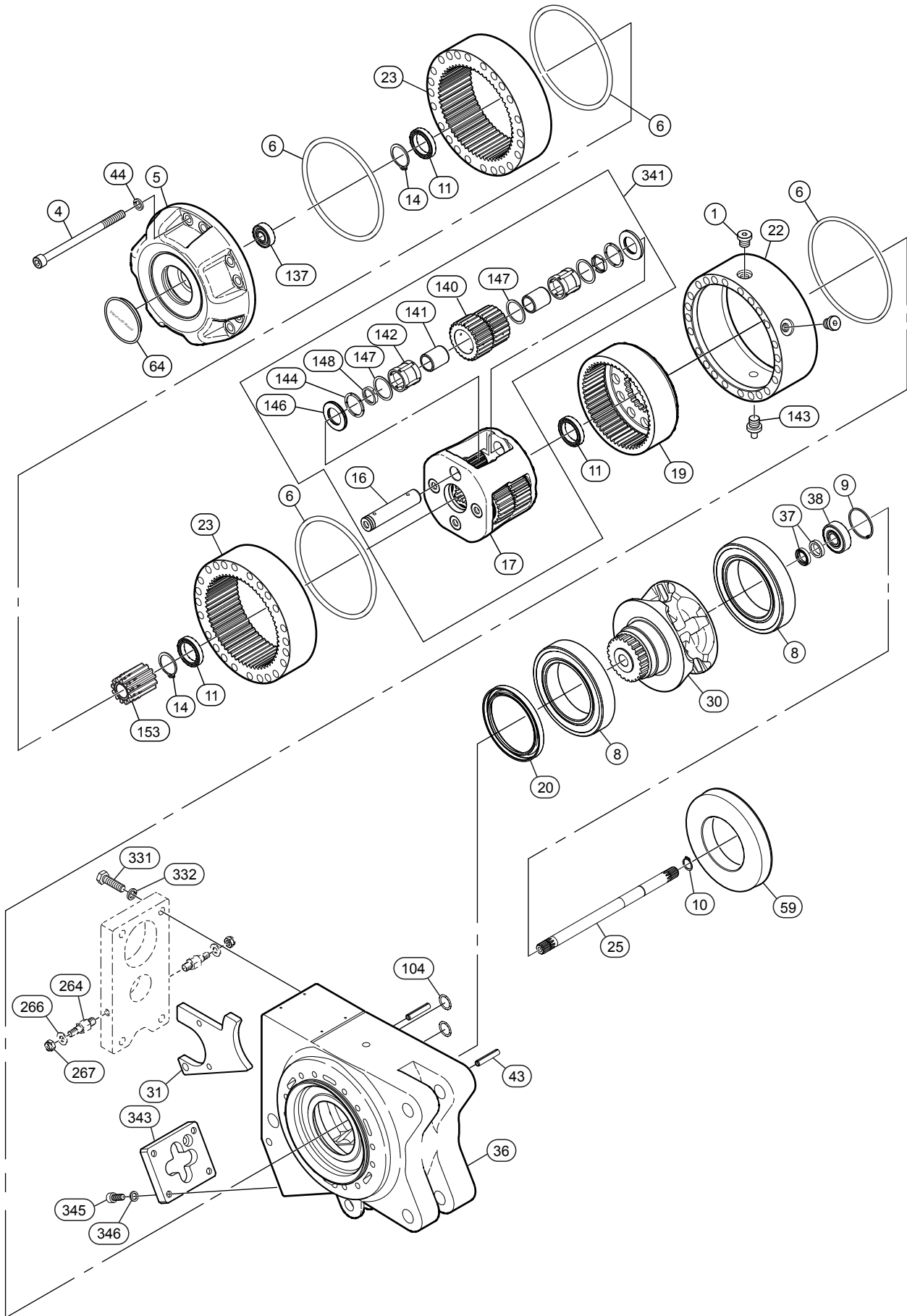
Form MHD56500 Edition 1

TROLLEY ASSEMBLY PARTS LIST

Item No.	Description of Parts	Total Qty	Part Number	
			6 t and 12 t	18 t and 25 t
42	Nut	1	75583M	
44	Lockwasher	2	4520-1010	
162	Support	1	9649-0031	
163	Nut	1	4320-2212	
166	Capscrew	1	4102-3701	
167	Capscrew	2	4102-0901	
265	Washer	2	4500-1110	
301	Side Plate	2	9649-0257	
	Side Plate (Rack Drive)	2	9649-0377	9649-0376
302	Capscrew	()	4100-4101 (8)	4131-4706 (12)
303	Lockwasher	()	4520-1016 (8)	4520-1020 (12)
304	Bumper	4	6988-6832	
305	Bracket	4	9649-0115	9649-0119
306	Locknut	5	4370-6311	
307	Lifting Eye	4	6420-7342	
309	Spacer	2	9649-0273	
310	Retainer Ring	2	4770-3068	
311	Bearing	2	5005-0008	
312	Retainer Ring	See ()	4770-0040 (6)	4770-0040 (2)
313	Roller	2	9649-0265	
314	Spacer	4	4500-0130	9649-0264
315	Locknut	See ()	4300-6711 (7)	4300-6711 (8)
316	Locknut	See ()	4300-8511 (7)	4300-8511 (8)
317	Capscrew	12	4100-3901	
318	Lockwasher	12	4520-1016	
319	Cap	4	9649-0036	
320	Geared Wheel*	2	9649-0034	9649-0006
321	Retainer Ring	4	4770-0040	4770-0060
322	Axle	6	9649-0038	9649-0004
323	Retainer Ring	4	4770-3080	4770-3110
324	Bearing	8	5015-0008	5015-0012
325	Plain Wheel*	2	9649-0033	9649-0005
326	Spacer	24	9649-0035	
327	Spacer	8	9649-0037	
328	Spacer	4	9649-0274	---
329	Shaft	2	9649-0275	
330	Support	1	9649-0252	
331	Capscrew	4	4102-0801	
332	Washer	5	4520-1010	
333	Spacer	See ()	9544-0028 (1)	9544-0028 (2)
334	Sprocket	See ()	9544-0024 (1)	9544-0024 (2)
335	Bearing	See ()	5190-0206 (2)	5190-0206 (4)
336	Seal	See ()	5833-4006 (2)	5833-4006 (4)
337	Axle	See ()	9649-0262 (1)	9649-0262 (2)
338	Bushing	See ()	9649-0263 (1)	9649-0263 (2)
339	Anchor Pin	1	9649-0454	
340	Support	1	---	9649-0260
349	Capscrew	1	4133-3706	
350	Capscrew	1	4102-3101	
351	Lockwasher	1	4570-0010	
352	Lockwasher	1	4520-1010	

* Item 320 is not required on Rack Drive Models
 Item 325, quantity 4 required on Rack Drive Models

POWERHEAD ASSEMBLY DRAWING



(Dwg. MHP3310)

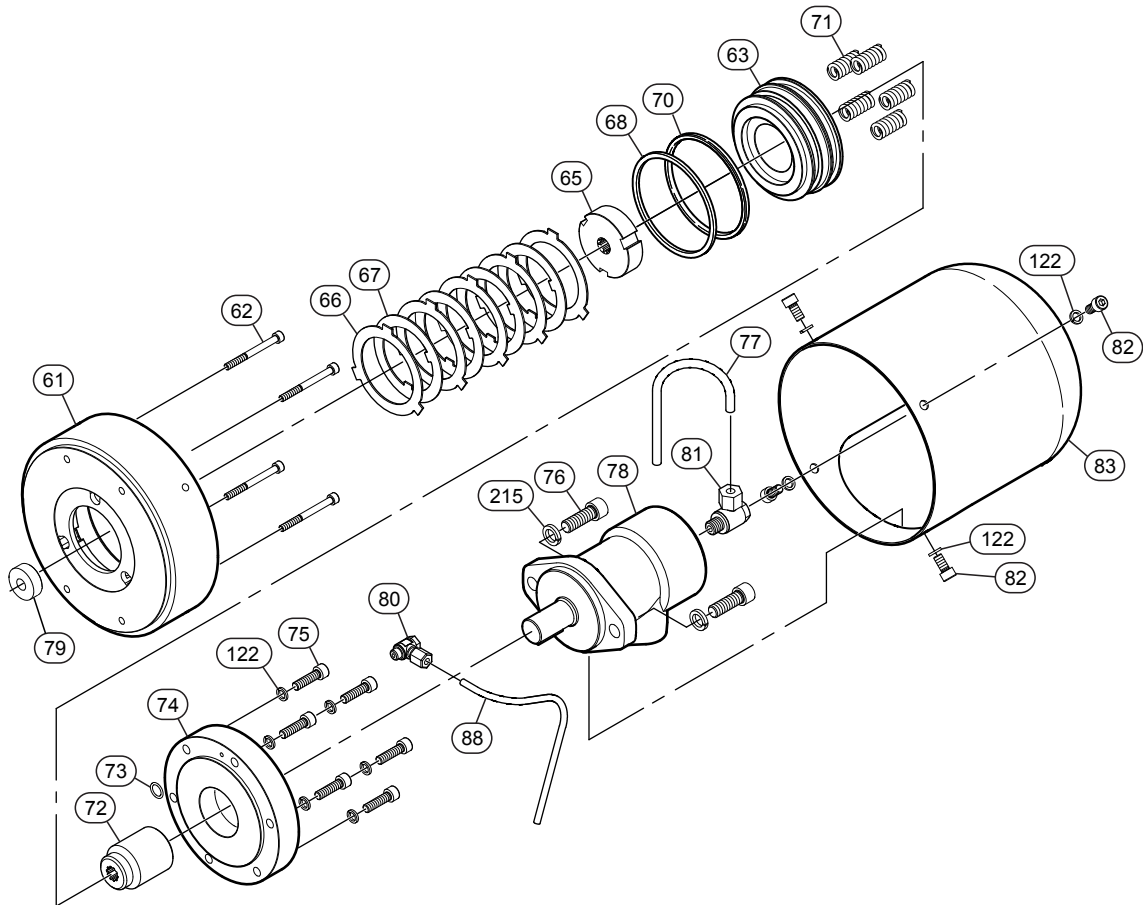
POWERHEAD ASSEMBLY PARTS LIST

Item No.	Description of Parts	Total Qty	Part Number	Item No.	Description of Parts	Total Qty	Part Number
• 1	Plug	2	6511-0741	59	Adapter Ring	1	9645-0069
4	Capscrew	12	4133-4506	• 64	End Cap	1	6106-0828
5	Reduction Gear End Cover	1	9645-0029	• 104	'O' Ring	2	5822-2829
• 6	'O' Ring	3	5824-0029	137	Bearing	1	5010-0001
8	Bearing	2	5005-0015	• 138	'O' Ring	1	5822-4229
9	Retainer Ring	1	4770-3042	140	Planetary Gear	4	9645-0012
• 10	Retainer Ring	1	4770-0015	141	Internal Bearing Ring	8	5630-0642
11	Bearing	2	5090-0006	142	Needle Bearing	8	5650-3530
14	Retainer Ring	1	4770-0030	143	Plug	1	6517-0241
16	Planet Axle	4	9645-0024	144	Needle Bearing	8	5731-2632
17	Planetary Carrier	1	9645-0019	146	Needle Bearing Spacer	8	5605-4225
19	Ring Gear	1	9645-0011	147	Spacer	12	9645-0136
• 20	Oil Seal	1	5801-5130	148	Ring	8	9645-0137
22	Reducer Housing	1	9645-0121	264	Extender	2	9649-0259
23	Ring Gear	1	9645-0010	266	Washer	2	4560-0108
25	Pinion Shaft	1	9645-0282	267	Nut	2	4370-6511
30	Sprocket	1	9645-0043	331	Capscrew	4	4102-0801
31	Chain Stripper	1	9645-0063	332	Washer	4	4520-1010
36	Hoist Body	1	9645-0343	341	Planet Support Assembly (Note 1)	1	7645-0134
• 37	Oil Seal	2	5801-9830	343	Chain Guide Plate	1	9649-0267
38	Bearing	1	5025-0002	345	Capscrew	4	4132-1806
43	Pin	2	4650-5520	346	Washer	4	4520-1008
44	Lockwasher	12	4520-1010				

• Recommended spares, 2 years of operation.

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

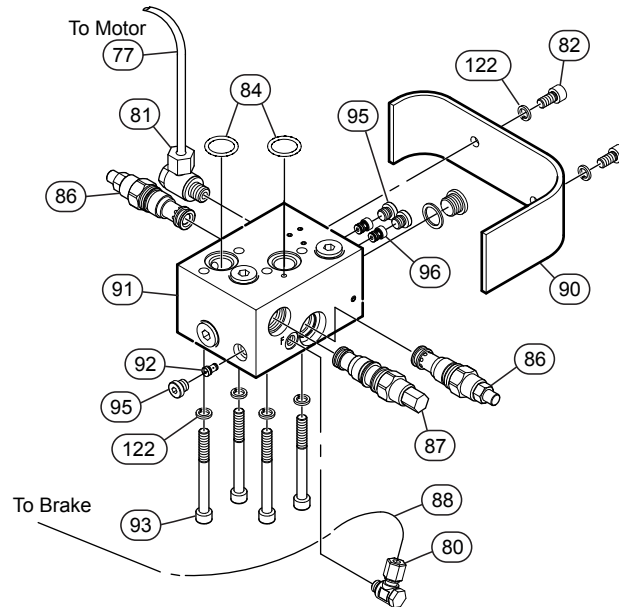
HYDRAULIC MOTOR AND DISC BRAKE ASSEMBLY DRAWING AND PARTS LIST



(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	75	Capscrew	6	4132-5006
62	Capscrew	4	4133-2106	76	Capscrew	2	4131-2706
63	Piston	1	9645-0288	77	Drain Tube	1	9645-0352
65	Coupling	1	9645-0289	78	Motor	1	6400-0147
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

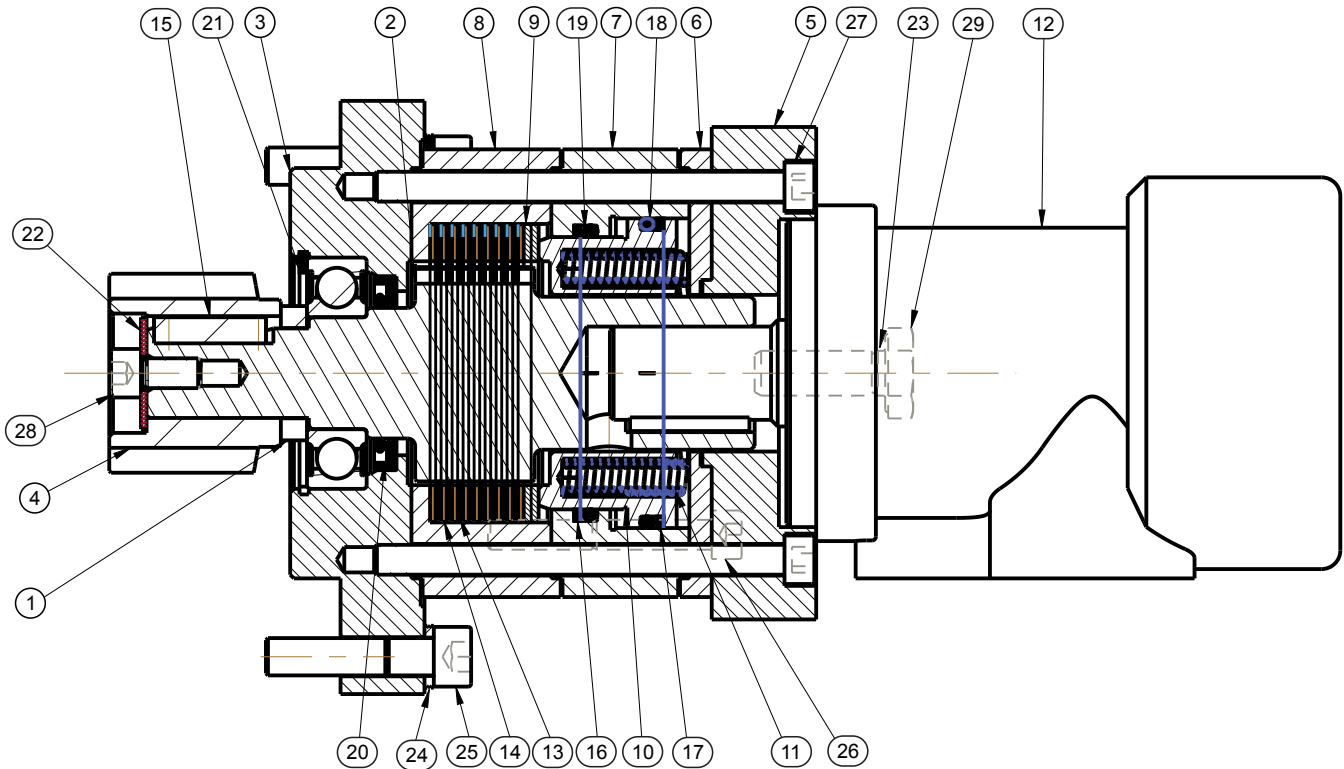
HYDRAULIC MANIFOLD ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP3127)

Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
---	Manifold Assembly (includes several parts)	1	3598-0113	88	Brake Tube		9645-0351
77	Drain Tube	1	9645-0352	90	Protector	1	9645-0368
80	Fitting, Regulator	1	6816-9332	91	Manifold	1	9598-0112
81	Fitting	1	6823-9828	92	Shuttle Valve	1	6840-2441
82	Capscrew	2	4130-1306	93	Capscrew	4	4133-1706
84	'O' Ring	2	5821-6329	95	Plug	3	6511-0441
86	Limit Relief Valve	2	6841-6941	96	Shuttle Valve	2	6843-0141
87	Counterbalance Valve	1	6846-3432	122	Lockwasher	2	4520-1008

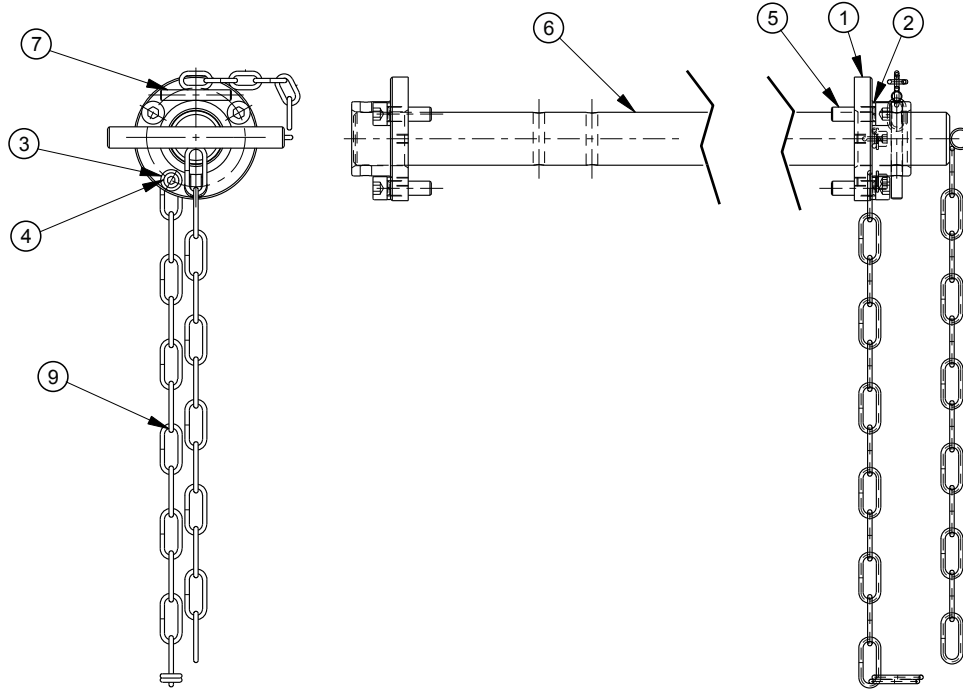
TROLLEY MOTOR ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP3308)

Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
1	Distance Ring	1	9649-0215	16	Back-up Ring	1	5823-1629
2	Drive shaft	1	9649-0214	17	Back-up Ring	1	5823-1529
3	Flange	1	9649-0213	18	"O" Ring	1	5823-1429
4	Sun Gear	1	9649-0143	19	"O" Ring	1	5823-1329
5	Motor Flange	1	9630-0009	20	Oil Seal	1	5801-4030
6	Brake Cover	1	9630-0008	21	Retainer Ring	1	4770-3062
7	Brake Housing	1	9630-0006	22	Washer	1	4570-1008
8	Disc Brake Housing	1	9630-0005	23	Lockwasher	2	4510-0212
9	Distance Ring	1	9611-0012	24	Lockwasher	3	4510-0210
10	Brake Piston	1	9611-010	25	Capscrew	3	4132-3206
11	Compression Spring	12	6919-2232	26	Capscrew	6	4132-1506
12	Motor	1	6400-0107	27	Screw	6	4131-3506
13	Steel Disc	8	6309-2432	28	Capscrew	1	4130-1306
14	Friction Disc	9	6309-2332	29	Screw	2	4101-5401
15	Key	1	6020-6224				

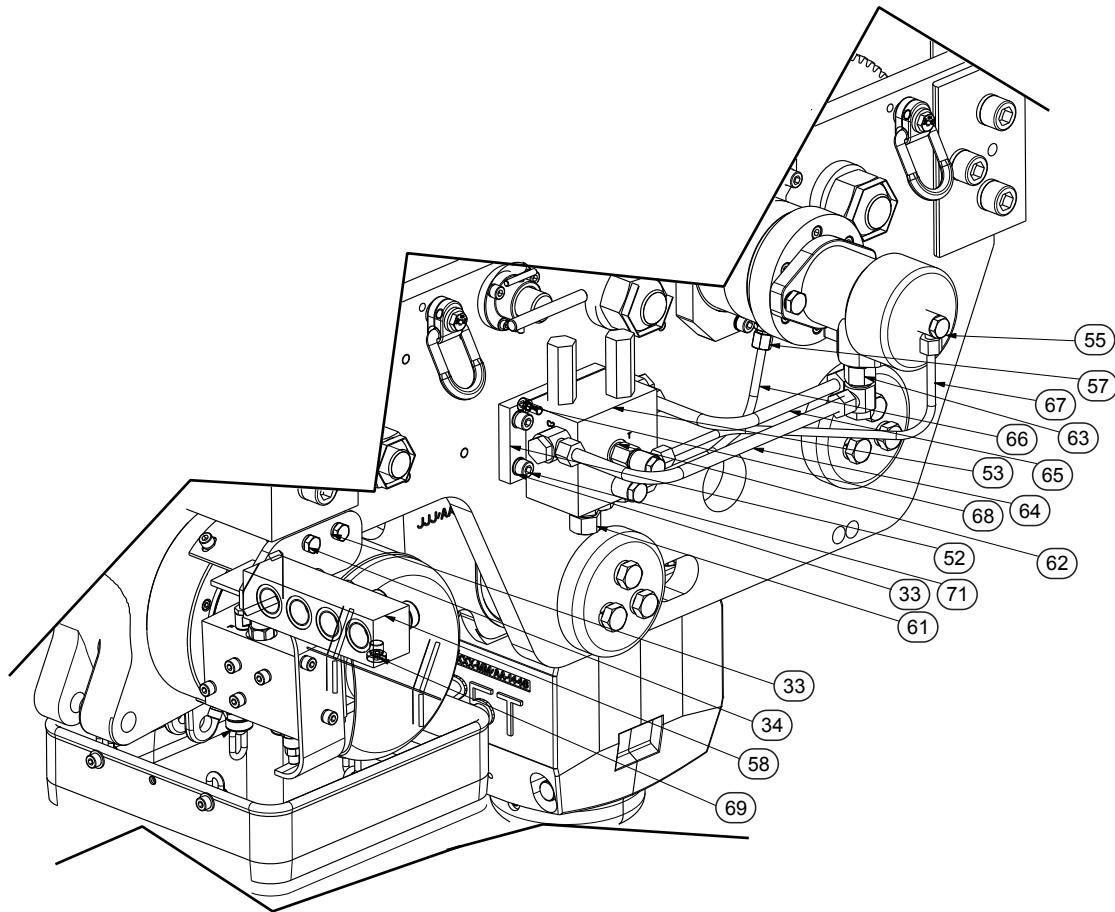
LOCK AXLE ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP3311)

Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
1	Flange	2	9649-0390	5	Capscrew	6	4132-4906
2	Lockwasher	6	4520-1008	6	Lock Axle	1	9649-0395
3	Washer	2	4500-1105	7	Lock Pin	1	9649-0395
4	Capscrew	2	4131-6706	9	Chain 2.5 x 24	as req'd	8649-0392

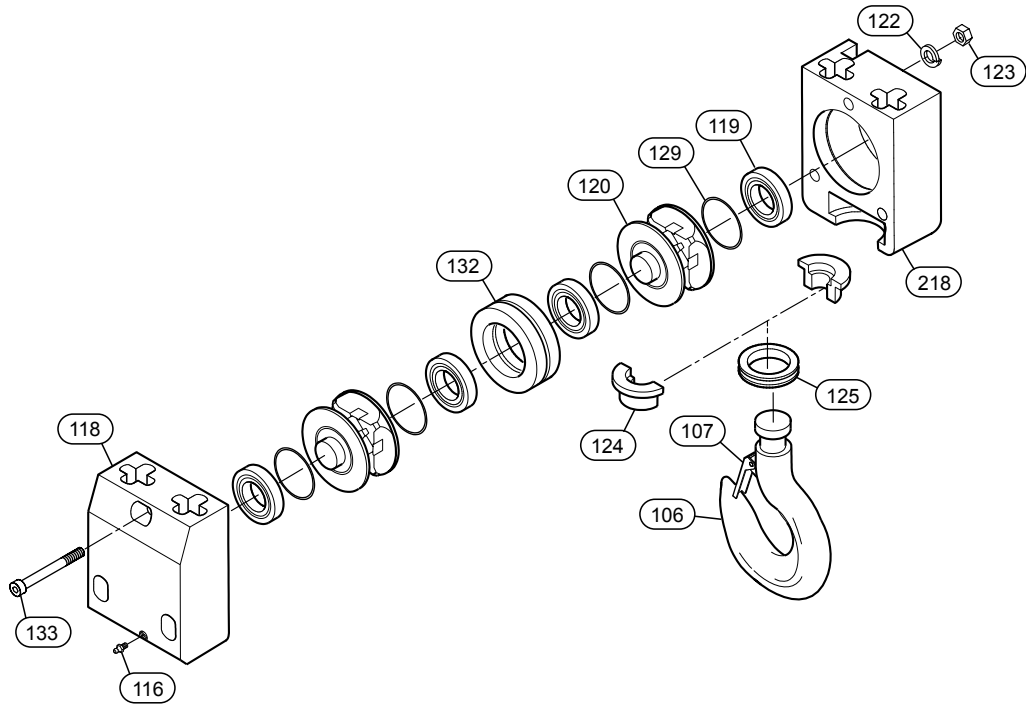
HYDRAULIC COMPONENTS ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP3309)

Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
33	Lockwasher	4	4520-1010	63	Reduction Fitting	2	6624-0045
34	Capscrew	2	4102-0801	64	Tube (12x1)	as req'd	9624-0541
52	Counterbalance Valve Frame	1	9624-0548	65	Tube (12x1)	as req'd	9624-0541
53	Counterbalance Valve	1	6861-0241	66	Tube (8x1)	as req'd	9624-0542
55	Fitting	3	6823-9828	67	Tube (8x1)	as req'd	9624-0543
57	Pipe Union	1	6825-0528	68	Capscrew	2	4130-1306
58	Connecting Block	1	9624-0606	69	Plug	4	6511-0741
61	Union	2	6825-1628	71	Capscrew	2	4132-3206
62	Reduction Fitting	1	6811-9428				

25 TON QUAD BOTTOM BLOCK HOOK ASSEMBLY DRAWING AND PARTS LIST

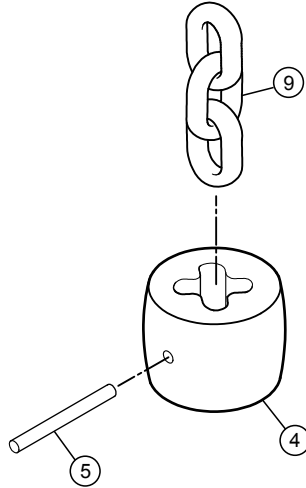


(Dwg. MHP3029)

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.

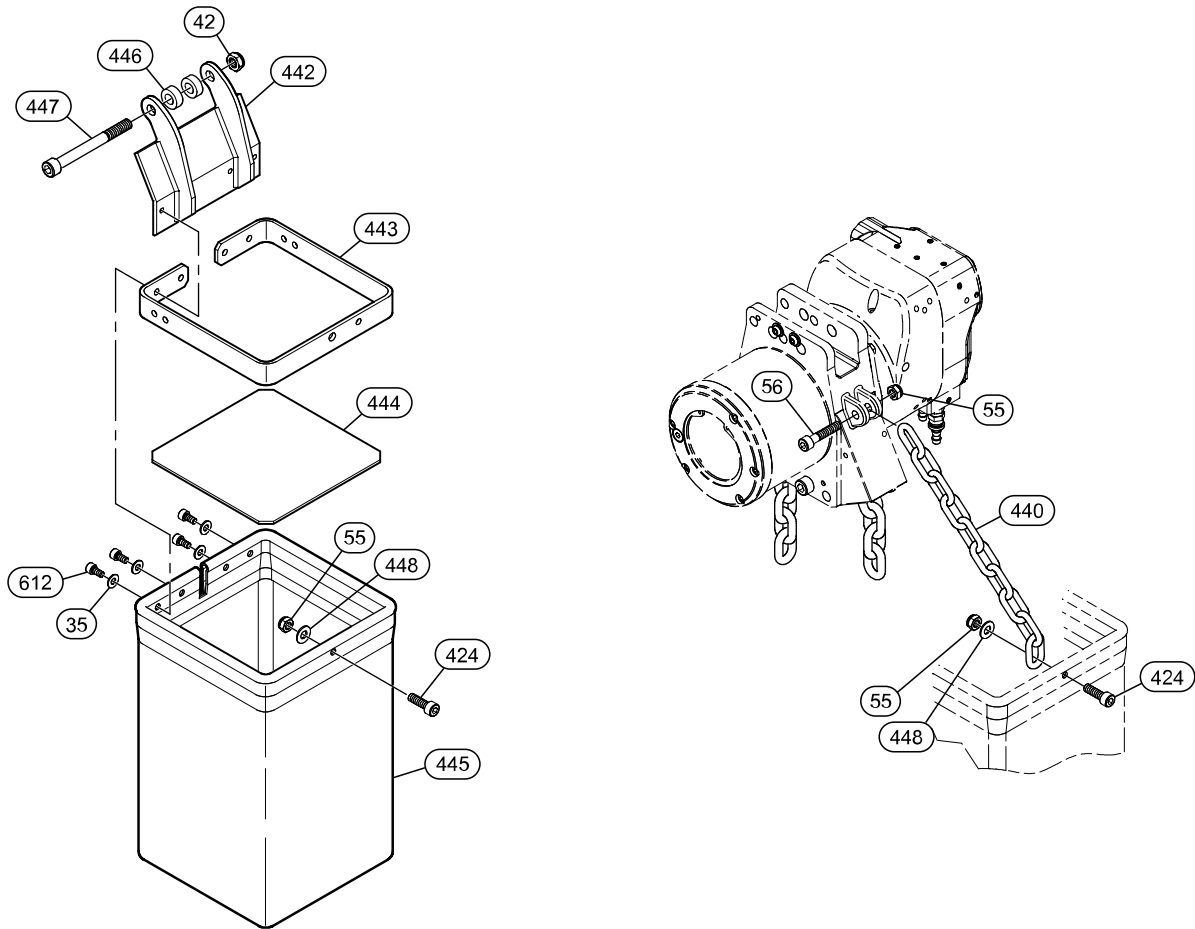
BOTTOM HOOK ACCESSORIES PARTS DRAWING AND PARTS LIST



(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.

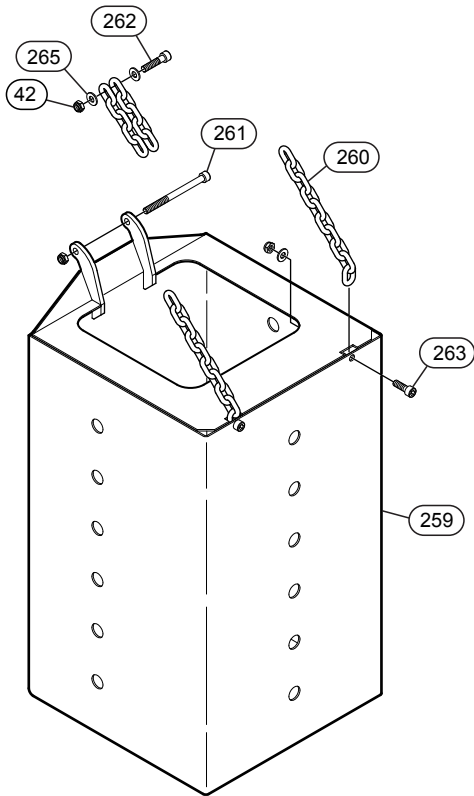
** Item not included in Non-Metallic Chain Container.

Chain Container Assembly Part Numbers

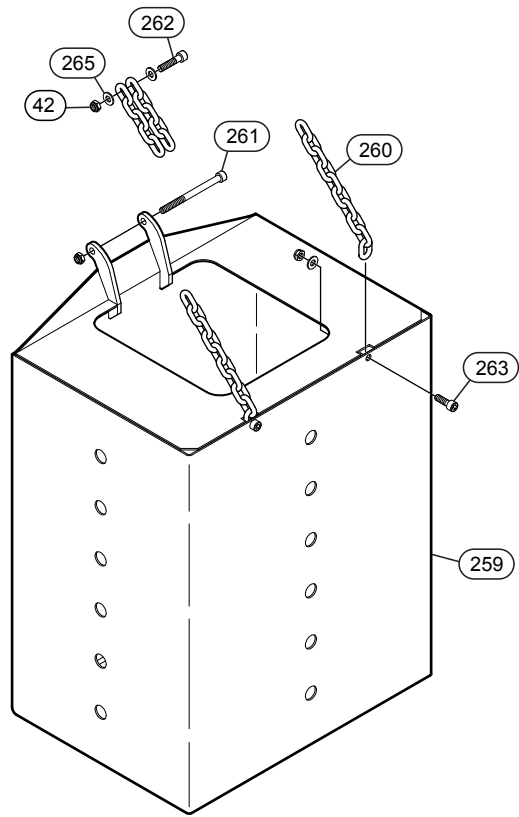
Hoist Model	Capacity		Container Part Number	
	ft	m	Non-metallic	Metallic
LC2H060S	39	12	CB2-120D-12M	---
LC2H120D	85	26	---	CB2-120D-24M
LC2H180T	131	40	---	CB2-120D-40M
LC2H250Q				

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	4133-3706	
262	Capscrew	1	4132-3306	
263	Capscrew	2	4102-0801	
265	Washer	4	4500-1110	

SERVICE NOTES

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