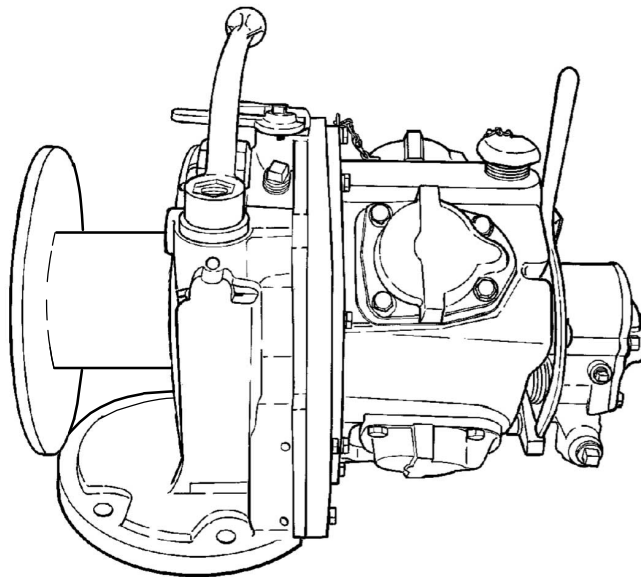


Product Parts Information



EU AND EUL AIR WINCHES



(Dwg. MHP1234)



Save These Instructions

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	MHD56250	Product Maintenance Information Manual	MHD56464
Product Information Manual	MHD56383		

TABLE OF CONTENTS

Description	Page No.	Dwg. Name	Page No.
Parts Ordering Information	3		
Winch Assembly Drawing	4	(Dwg. MHP1214)	4
Winch Assembly Parts List	5		
Winch Assembly Parts List (Continued)	6		
Winch Assembly Parts List (Continued)	7	(Dwg. MHP2409)	7
Automatic Brake Assembly Drawing	8	(Dwg. MHP1215)	8
Automatic Brake Assembly Parts List	9		
Pendant Assembly Drawing	10	(Dwg. MHP2346)	10
Pendant Assembly Parts List	11		
Discontinued Pendant Assembly Drawing	12	(Dwg. MHP1340)	12
Discontinued Pendant Assembly Parts List	13		
Pilot Air Valve Assembly Drawing	14	(Dwg. MHP1278)	14
Pilot Air Valve Assembly Parts List	15		
Full Flow Remote Control Assembly Drawing	16	(Dwg. MHP1220)	16
Full Flow Remote Control Assembly Parts List	17		
Pilot Air Control Valve Assembly Drawing and Parts List	18	(Dwg. MHP3137)	18
Drum Guard Drawing and Parts List	19	(Dwg. MHP3123)	19
Construction Cage Drawing	20	(Dwg. MHP2431)	20
Construction Cage Parts List	21		
Labels and Tags Assembly Drawing and Parts List	22	(Dwg. MHP1379)	22
Shut-off Valve Drawing and Parts List	23	(Dwg. MHP2958)	23
Kits, Special Tools and Accessories	23		

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: (206) 624-6265

or

Ingersoll Rand

Douai Operations

529, Avenue Roger Salengro

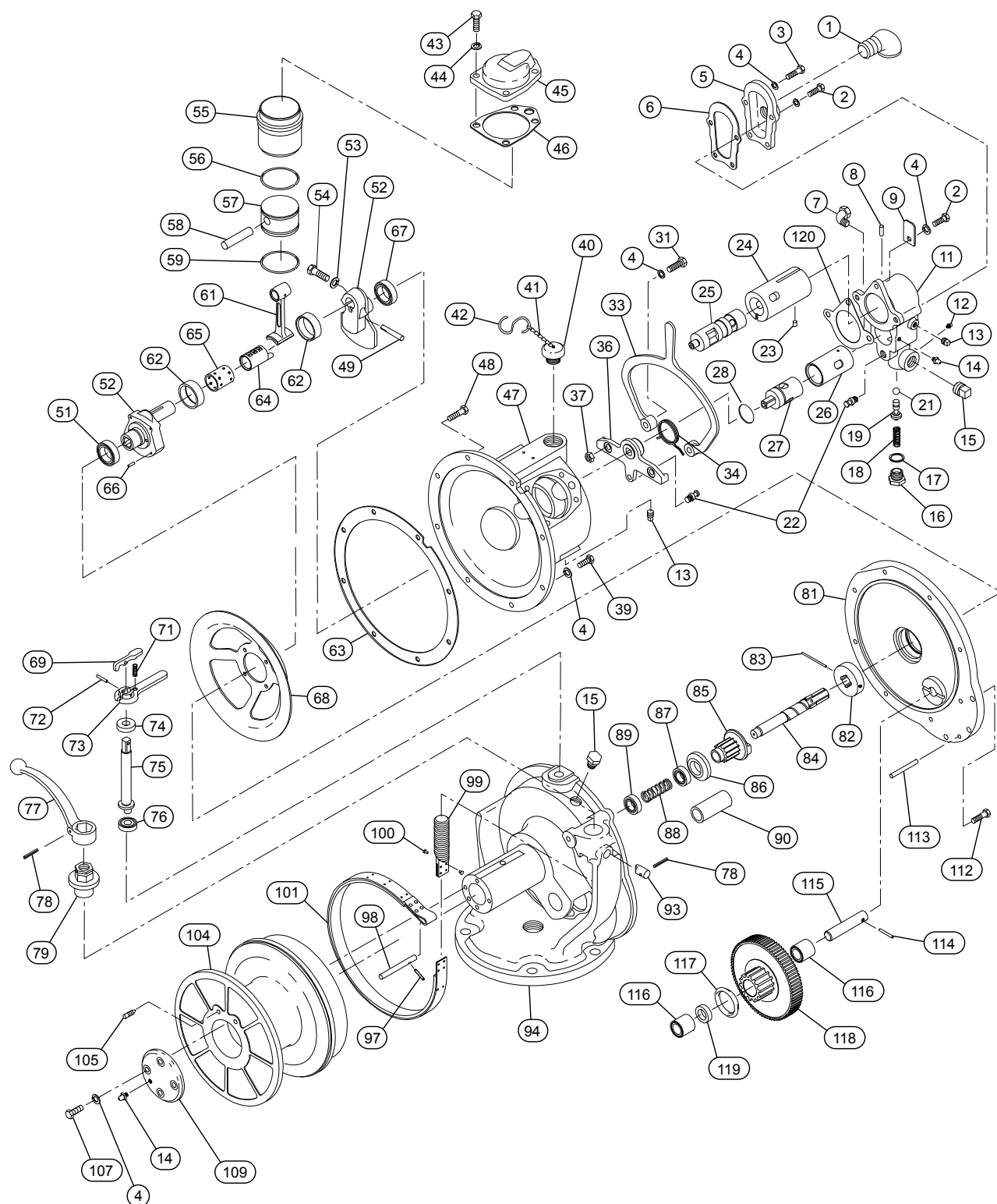
59450 Sin Le Noble, France

Phone: (33) 03-27-93-08-08

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

WINCH ASSEMBLY DRAWING

EU Model



(Dwg. MHP1214)

WINCH ASSEMBLY PARTS LIST

Item No.	Description of Part	Total Qty	Part Number	
			Manual Brake	Automatic Brake
- - -	Motor Assembly (includes items 1-27 and 29-68)	1	EU-A501	- - -
	Motor Assembly (includes items 1-68, 112 and 120)		- - -	EU-A501AB
1	Exhaust Elbow	1	DU-587	
2	Capscrew (pack of 4)	1 pack	D02-506-4	
3	Capscrew	2	D10-548	
4	Lockwasher (pack of 10)	1 pack	D02-321-10	
5	Valve Chest Cover	1	D10-546A	
• 6	Gasket	1	D10-928	
7	Inlet Elbow	1	DU-581	
8	Valve Bushing Key	1	B12-255	
9	Throttle Lever Guide	1	DU-596	
11	Valve Chest Assembly (includes items 8, 15, 22, 24 and 26)	1	D10-545A	
12	Grease Fitting	1	R1-188	
13	Plug	()	50822 (4)	50822 (3)
14	Grease Fitting	2	53095	
15	Valve Chest Plug	2	22SR-165	
16	Throttle Valve Cap	1	D02-943	
17	Washer	1	G601-411	
18	Throttle Valve Spring	1	B01-11	
19	Poppet Throttle Valve	1	D02-940	
21	Throttle Valve Ball	1	D10-280	
22	Throttle Spring Stop Pin	2	D02-553	
23	Felt Plug	1	JA4-75	
24	Rotary Valve Bushing	1	D10-525AS	
25	Rotary Valve	1	D10-526	
26	Reverse Valve Bushing	1	D10-945-5S	
27	Reverse Valve	1	EU-944	D10-944
28	Reverse Valve Seal	1	- - -	PS3-42
31	Throttle Lever Bolt	2	D02-411A	
33	Throttle Lever	1	EU-556	
34	Throttle Lever Spring	1	D02-412B	
36	Throttle Control Arm	1	D10-555	
37	Nut	2	50205	
39	Capscrew	2	D10-312A	
40	Vent Cap Assembly (includes items 41-42C)	1	26604	
41	Vent Cap Chain	1	Order Item 40	
42	'S' Hook			
42A	Vent Cap Screen*			
42B	Vent Cap Screen Retainer*			
42C	Pin, Cotter*			
43	Cylinder Head Capscrew	16	D10-506	
44	Washer (Copper)	16	D10-504	
45	Cylinder Head	4	D10-H505A	
• 46	Cylinder Head Gasket	4	D10-507	
47	Motor Case	1	D10-501	
48	Capscrew	6	D10-312	
49	Pin, Taper	1	D10-520	
51	Crank Valve End Bearing	1	D04-956	
52	Crank (includes item 65)	1	D10-K516	
52A	Crank Assembly (includes items 49, 51-54, 61, 62, 64, 66 and 68)	1	EU-A516	
53	Lockwasher	1	50181	
54	Capscrew	1	D10-521	
55	Cylinder Sleeve	4	D10-L505A	

* Not Illustrated

() Models with Automatic Brake only

• Recommended spare for one winch, 2 years of operation.

WINCH ASSEMBLY PARTS LIST (CONTINUED)

Item No.	Description of Part	Total Qty	Part Number	
			Manual Brake	Automatic Brake
56	Piston Ring (kit contains 5 rings)	4	D10-KRING	
57	Piston Assembly (includes items 56 and 59)	4	D10-A513B	
58	Piston Wrist Pin	4	D10-514	
59	Oil Regulating Piston Ring (kit contains 5 rings)	4	D10-KRING	
61	Connecting Rod	4	D10-509	
62	Retaining Ring	2	D10-510	
• 63	Gasket	1	D10-592	
64	Bushing	1	D10-511	
65	Crank Pin Sleeve	1	D10-519	
66	Rivet	4	D06-541	
67	Splined End Bearing	1	CE230-674	
68	Oil Splasher	1	D10-540	
69	Clutch Latch	1	DU-566	- - -
71	Spring	1	DU-567	- - -
72	Pin	1	DU-571	- - -
73	Clutch Lever	1	DU-565	- - -
74	Spacer	1	EU-599	- - -
75	Eccentric Clutch	1	DU-585A	- - -
76	Bearing	1	T03-33	- - -
77	Brake Lever	1	DU-570	- - -
78	Pin, Cotter	2	D02-438	- - -
79	Brake Adjusting Nut	1	DU-573	- - -
81	Motor Case Cover	1	EU-502	
82	Clutch Jaw	1	EU-568	
83	Pin	1	EU-569	
84	Motor Shaft Assembly (includes items 82 and 83)	1	EU-316	
85	Motor Shaft Pinion (includes item 86)	1	EU-319	
86	Clutch Release Collar	1	Included with Item 85	- - -
87	Thrust Bearing	1	D01-379A	- - -
88	Spring	1	DU-583	- - -
89	Bearing	1	R4-24	
90	Clutch Jaw Spacer	1	- - -	DU-712
93	Brake Screw Guide	1	DU-594	
94	Winch Base (EU Model)	1	EU-564A	
	Winch Base (EUL Model)	1	EU-K564A	
97	Pin, Cotter	1	51996	
98	Brake Band Pin	1	DU-579	
99	Brake Screw (includes item 100)	1	DU-K572	
100	Rivet	4	Included with item 99	
101	Brake Band Assembly (includes item 99)	1	DU-A574	DU-B574
104	Drum (EU Model)	1	EU-324	
	Drum (EUL Model)	1	EU-684	
105	Setscrew	2	HU-381	
107	Drum Cover Capscrew	4	51780	
109	Drum Cover	1	DU-580	
112	Motor Case Cover Screw	3	51597	
113	Dowel Pin	1	D02-347	
114	Intermediate Gear Shaft Pin	1	DU-368	
115	Intermediate Gear Shaft	1	DU-365	
116	Bearing	2	DU-366	
117	Intermediate Gear Packing	1	DU-600	

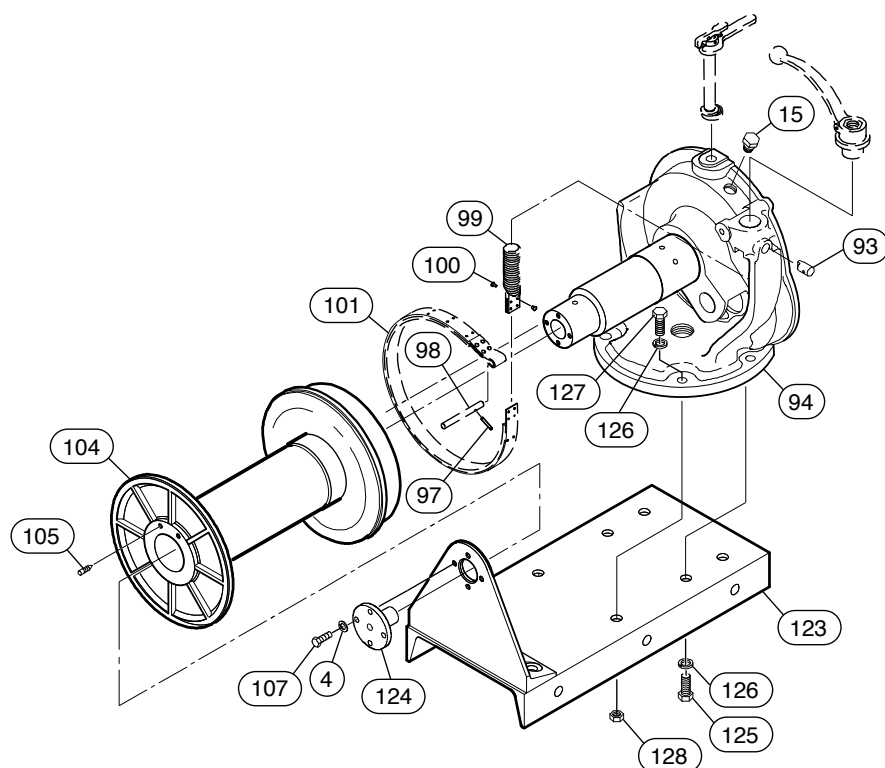
• Recommended spare for one winch, 2 years of operation.

WINCH ASSEMBLY PARTS LIST (CONTINUED)

Item No.	Description of Part	Total Qty	Part Number	
			Manual Brake	Automatic Brake
118	Intermediate Gear	1	EU-364	
119	Bearing Spacer	1	DU-593	
120	Gasket	1	D10-128	
123	Base, Outboard Support	1	EU-677	
124	Hub Bushing	1	EU-678	
125	Capscrew	2	52829	
126	Lockwasher	4	D01-692	
127	Capscrew	2	EU-775	
128	Locknut	2	DU-562	
• - -	Brake Relining Kit (refer to MHD56142 for installation instructions)	1	DU-K575	

• Recommended spare for one winch, 2 years of operation.

EUL Model



(Dwg. MHP2409)

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The main assembly is shown in the center, with various parts numbered for identification. The components include:

- 97**: A circular flange or cover plate.
- 98**: A curved bracket or arm.
- 99**: A small pin or screw.
- 100**: A small rectangular plate or washer.
- 101**: A small circular washer or gasket.
- 161**: A small cylindrical pin or plug.
- 162**: A small rectangular plate or washer.
- 152**: A long cylindrical shaft or rod.
- 153**: A coiled spring.
- 154**: A small circular washer or gasket.
- 155**: A cylindrical component, possibly a piston or plunger.
- 156**: A small square block or plug.
- 157**: A cylindrical component, possibly a piston or plunger.
- 158**: A small cylindrical pin or plug.
- 159**: A small circular washer or gasket.
- 144**: A small cylindrical pin or plug.
- 145**: A small rectangular plate or washer.
- 146**: A small rectangular plate or washer.
- 147**: A small rectangular plate or washer.
- 148**: A cylindrical component, possibly a piston or plunger.
- 137**: A small cylindrical pin or plug.
- 140**: A small rectangular plate or washer.
- 141**: A small cylindrical pin or plug.
- 142**: A small cylindrical pin or plug.

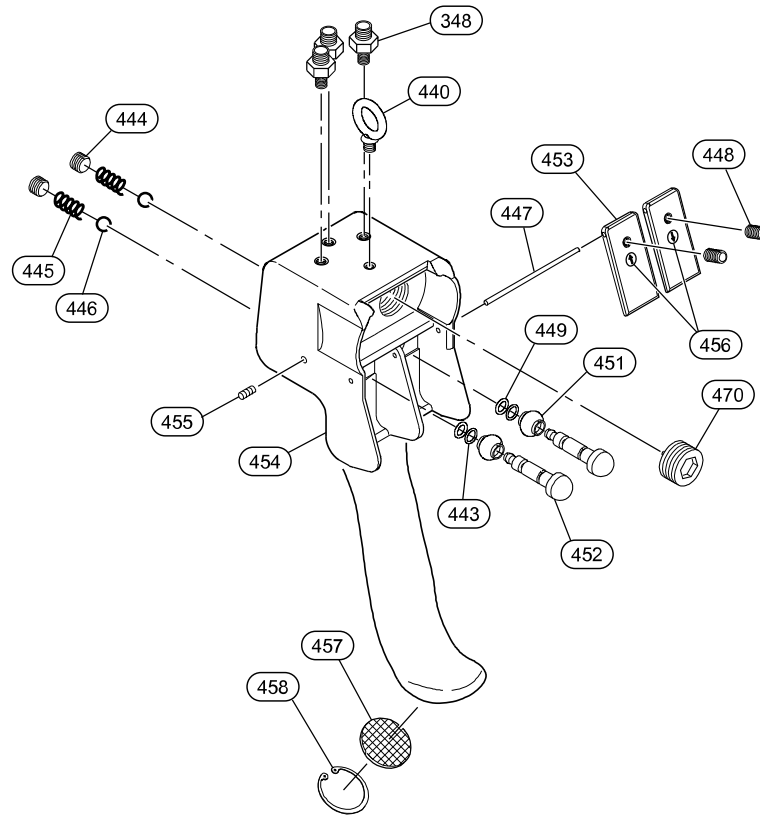
(Dwg. MHP1215)

AUTOMATIC BRAKE ASSEMBLY PARTS LIST

Item No.	Description of Part	Total Qty	Part Number	Item No.	Description of Part	Total Qty	Part Number
97	Pin, Cotter	1	51996	• 147	Gasket	1	HU-507
98	Brake Band Pin	1	DU-579	148	Brake Cylinder Case	1	DU-709
99	Brake Screw (includes item 100)	1	DU-K572	152	Brake Screw Coupling	1	DU-708
100	Rivet	4	Included with Item 99	153	Brake Spring	1	DU-710
101	Brake Band Assembly	1	DU-B574	154	Brake Spring Washer	1	DU-703
102	Cylinder Assembly (includes items 137 and 144-159)	1	DU-A709	155	Cylinder Sleeve	1	HH5D-L505A
137	Fitting, Adapter	2	53939	156	Brake Trunnion	1	DU-702
141	Fitting, Hose End	2	51029	157	Piston (includes item 159 and 2 wrist pin retainer rings)	1	DU-A7138
142	Hose (Bulk)	Specify Length	50923	158	Piston Wrist Pin	1	HU-514A
144	Capscrew	4	D10-354	159	Piston Ring	2	HU-337
145	Lockwasher (Copper)	4	HU-504	161	Pipe Plug	1	51467
146	Cylinder Head	1	HH5D-H505A	162	Setscrew	1	HU-867

• Recommended spare for one winch, 2 years of operation.

PENDANT ASSEMBLY DRAWING



(Dwg. MHP2346)

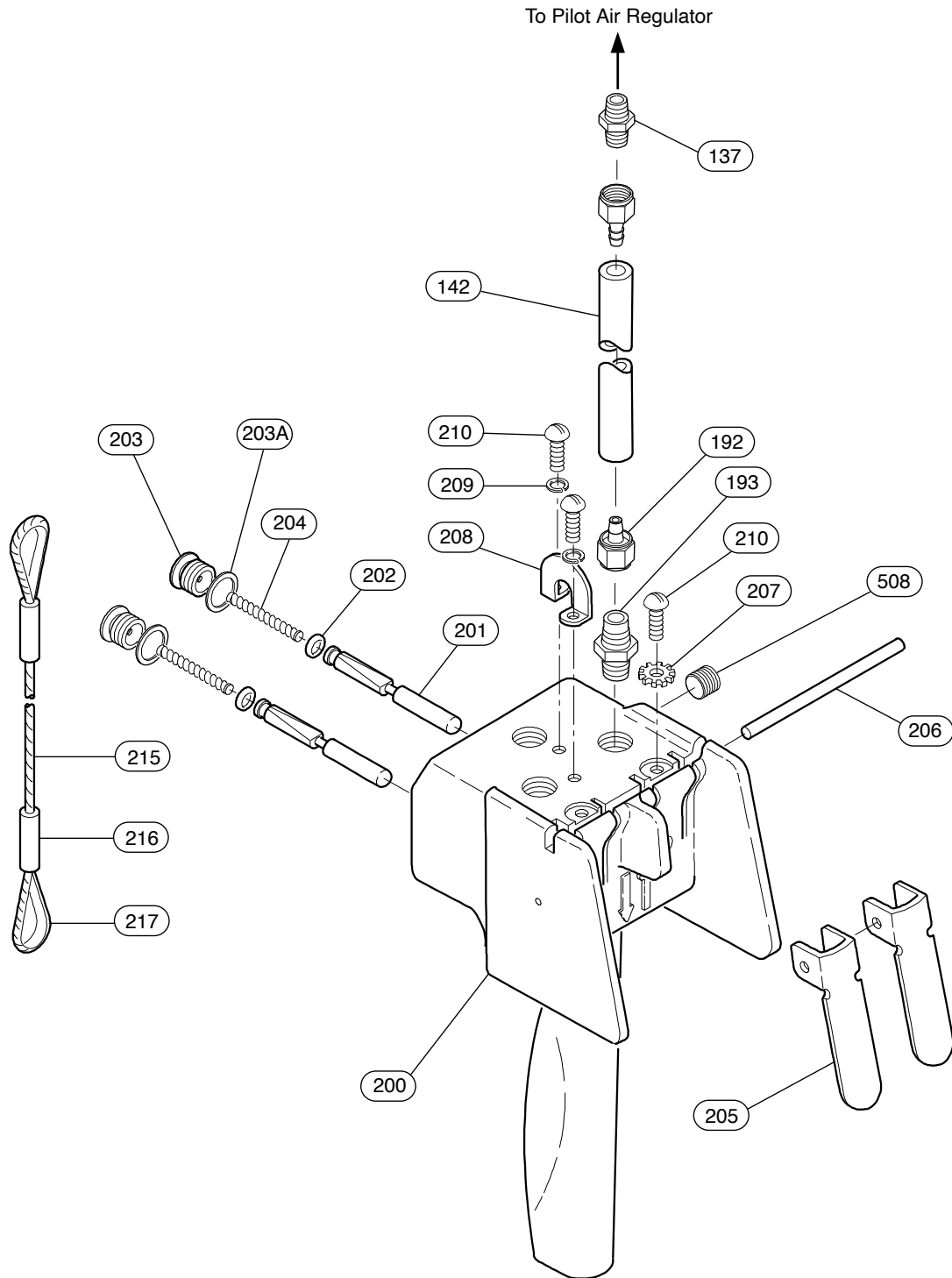
PENDANT ASSEMBLY PARTS LIST

Item No.	Description of Part	Total Qty	Part Number
353	Pendant Assembly*	1	PHS2E
348	Fitting, Adapter	3	71048268
440	Lifting Eye	1	64222332
• 443	'O' Ring	2	58209229
444	Plug	2	54292
445	Spring	2	69128541
446	Ball	2	69401625
447	Pin	1	95790040
448	Setscrew	2	42008607
• 449	'O' Ring	2	58235329
451	Protector	2	95790107
452	Valve	2	95790104
453	Lever	2	95790122
454	Pendant Handle	1	order item 353
455	Setscrew	3	71078158
456	Label Kit	1	95790111
457	Exhaust Washer	1	95790114
458	Retainer Ring	1	47713030
470	Plug	1	65129541

* Pendant Assembly includes items 440-449 and 451-458.

• Recommended spare for one winch, 2 years of operation.

DISCONTINUED PENDANT ASSEMBLY DRAWING



(Dwg. MHP1340)

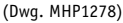
DISCONTINUED PENDANT ASSEMBLY PARTS LIST

Item No.	Description of Part	Total Qty	Part Number
137	Fitting	3	53939
142	Hose (Bulk)	Specify Length	50923
192	Fitting, Hose End	6	51029
193	Fitting, Adapter	3	71048268
200	Pendant Assembly (includes items 200-210 and 220)	1	MLK-A269C
201	Pendant Throttle Valve	2	MLK-K264B
• 202	Throttle Valve Face	2	R000BR1C-283
203	Pendant Throttle Valve Cap	2	MLK-K266A
203A	Valve Cap Gasket	2	MLK-239
• 204	Pendant Throttle Valve Spring	4	MLK-51A
205	Pendant Throttle Lever	2	MLK-273
206	Throttle Lever Pin	1	DLC-120A
207	Lockwasher	2	D02-138
208	Strain Relief Support	1	MLK-450
209	Relief Support Lockwasher (pack of 10)	1 pack	H54U-352-10
210	Screw	4	HRE20-68
- - -	Strain Relief Assembly (includes items 215-217)	1	MLK-LWR3A
215	Strain Relief Cable	Specify Length	BWR3A
216	Clamping Sleeve	2	MLK-521
217	Clamping Thimble	2	MLK-602
508	Plug	1	54247
*	Hose Tie	As req'd	HRE20A-283

* Not Illustrated

• Recommended spare for one winch, 2 years of operation.

PILOT AIR VALVE ASSEMBLY DRAWING

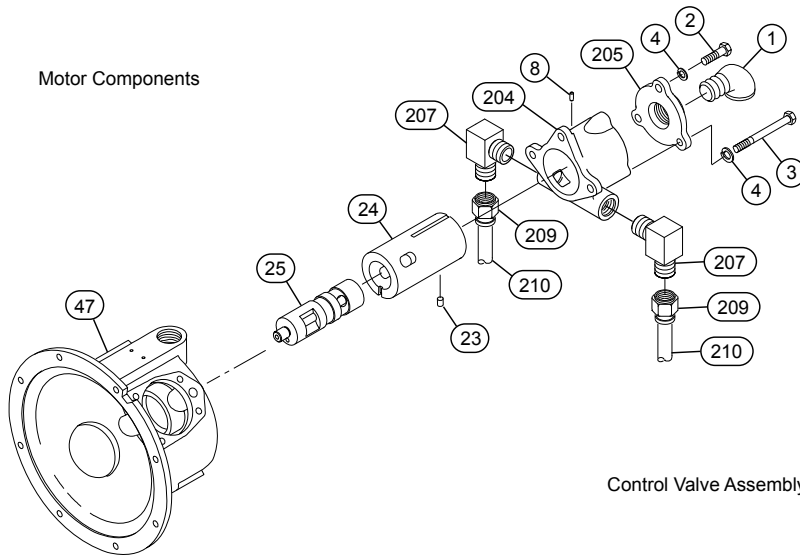


PILOT AIR VALVE ASSEMBLY PARTS LIST

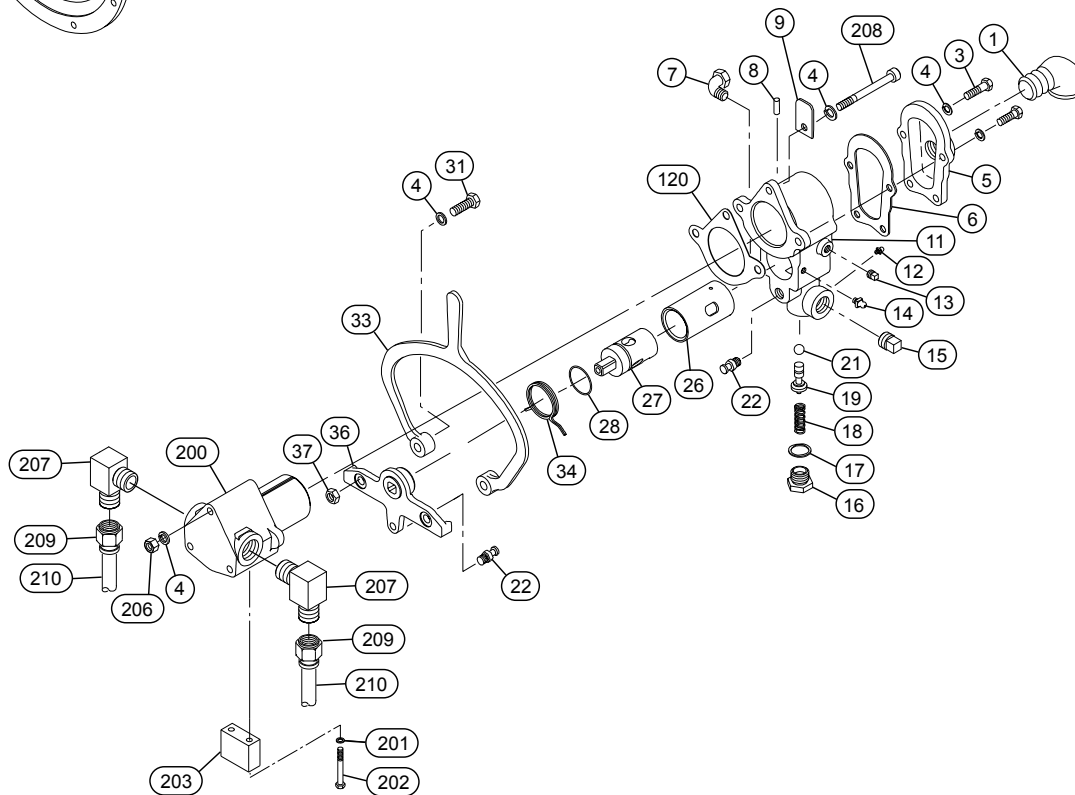
Item No.	Description of Part	Total Qty	Part Number
1	Exhaust Elbow	1	DU-587
2	Capscrew (pack of 4)	1 pack	D02-506-4
3	Capscrew	2	D10-548
4	Lockwasher (pack of 10)	1 pack	D02-321-10
8	Valve Bushing Key	1	B12-255
137	Fitting, Adapter	5	53939
140	Fitting, Elbow	1	52182
141	Fitting, Hose End	8	51029
142	Bulk Hose, 2 ft to Brake and Control Valve (1 each req'd), 6.5 ft to Pendant (3 req'd)	Specify Length	50923
204	Valve Chest	1	C10-545
205	Valve Chest Cover	1	C10-546
501	Hose Assembly	1	HU-925
506	Fitting, Tee	2	K6U-927
507	Regulator	2	K6U-200
508	Fitting, Connector	2	54267
509	Dump Valve	2	KU-939
514	Fitting, Connector	2	HHM-286
517	Fitting, Bushing	1	D01-705
518	Fitting, Elbow	1	54869
521	Fitting, Nipple	2	51034
522	Control Valve	1	50277
525	Vented Plug	1	PAK-943
526	Valve	1	HU-264-4
528	Fitting, Tee	1	51812

FULL FLOW REMOTE CONTROL ASSEMBLY DRAWING

Motor Components



Control Valve Assembly



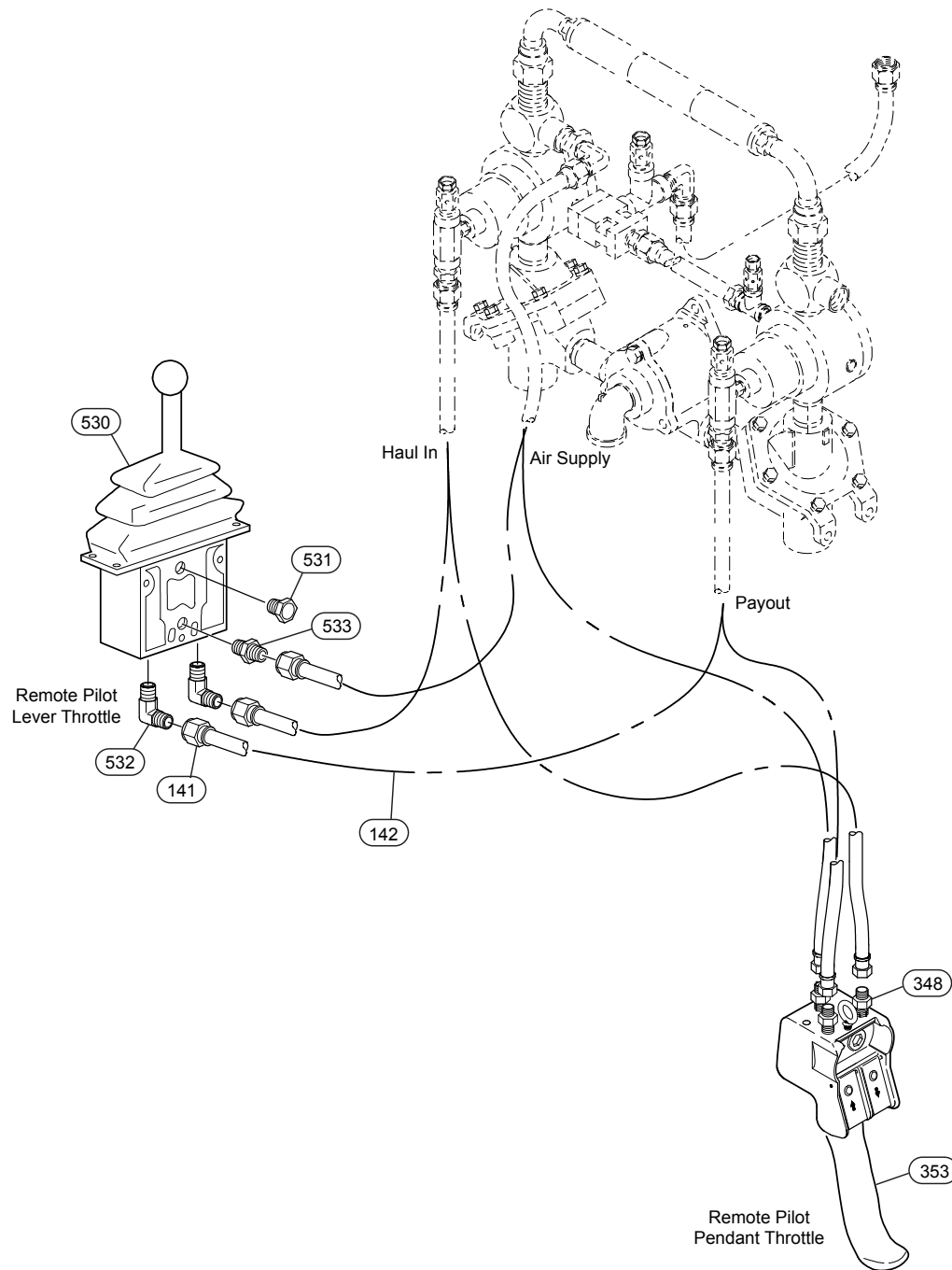
(Dwg. MHP1220)

FULL FLOW REMOTE CONTROL ASSEMBLY PARTS LIST

Item No.	Description of Part	Total Qty	Part Number	
			Manual Brake	Automatic Brake
1	Exhaust Elbow	1	DU-587	
2	Capscrew (pack of 4)	1 pack	D02-506-4	
3	Capscrew	4	D10-548	
4	Lockwasher (pack of 10)	1 pack	D02-321-10	
5	Valve Chest Cover	1	D10-546A	
6	Gasket	1	D10-928	
7	Inlet Elbow	1	DU-581	
8	Pin	1	B12-255	
9	Throttle Lever Guide	1	DU-596	
11	Valve Chest	1	D10-545A	
12	Grease Fitting	1	R1-188	
13	Plug, Pipe	2	50822	
14	Grease Fitting	2	53095	
15	Valve Chest Plug	2	22SR-165	
16	Throttle Valve Cap	1	D02-943	
17	Washer	1	G601-411	
18	Throttle Valve Spring	1	B01-11	
19	Poppet Throttle Valve	1	D02-940	
21	Throttle Valve Ball	1	D10-280	
22	Throttle Spring Stop Pin	2	D02-553	
23	Felt Plug	1	JA4-75	
24	Rotary Valve Bushing	1	D10-525AS	
25	Rotary Valve	1	D10-526	
26	Reverse Valve Bushing	1	D10-945-5S	
27	Reverse Valve	1	EU-944	D10-944
28	Reverse Valve Seal	1	- - -	PS3-42
31	Throttle Lever Bolt	2	D02-411A	
• 33	Throttle Lever	1	EU-556	
34	Throttle Lever Spring	1	D02-412B	
36	Throttle Control Arm	1	D10-555	
37	Nut	2	D02-418	
47	Motor Case	1	D10-501	
120	Gasket	1	D10-128	
200	Remote Control Block	1	D10-685	
201	Lockwasher (pack of 5)	1 Pack	T11-58-5	
202	Capscrew	2	23-717	
203	Control Arm Retainer	1	D02-687	
204	Valve Chest	1	C10-545	
205	Valve Chest Cover	1	C10-546	
206	Nut	1	50198	
207	Fitting, Elbow	2	54259	
208	Capscrew	1	51488	
209	Fitting, Hose	4	54125	
210	Hose, Bulk	Specify Length	50766	
- - -	Control Valve Assembly (includes items 1, 2, 4-21, 26, 27, 31, 33, 34, 36, 37, 200, 206 and 208)	1	D10-A685	

• Recommended spare for one winch, 2 years of operation.

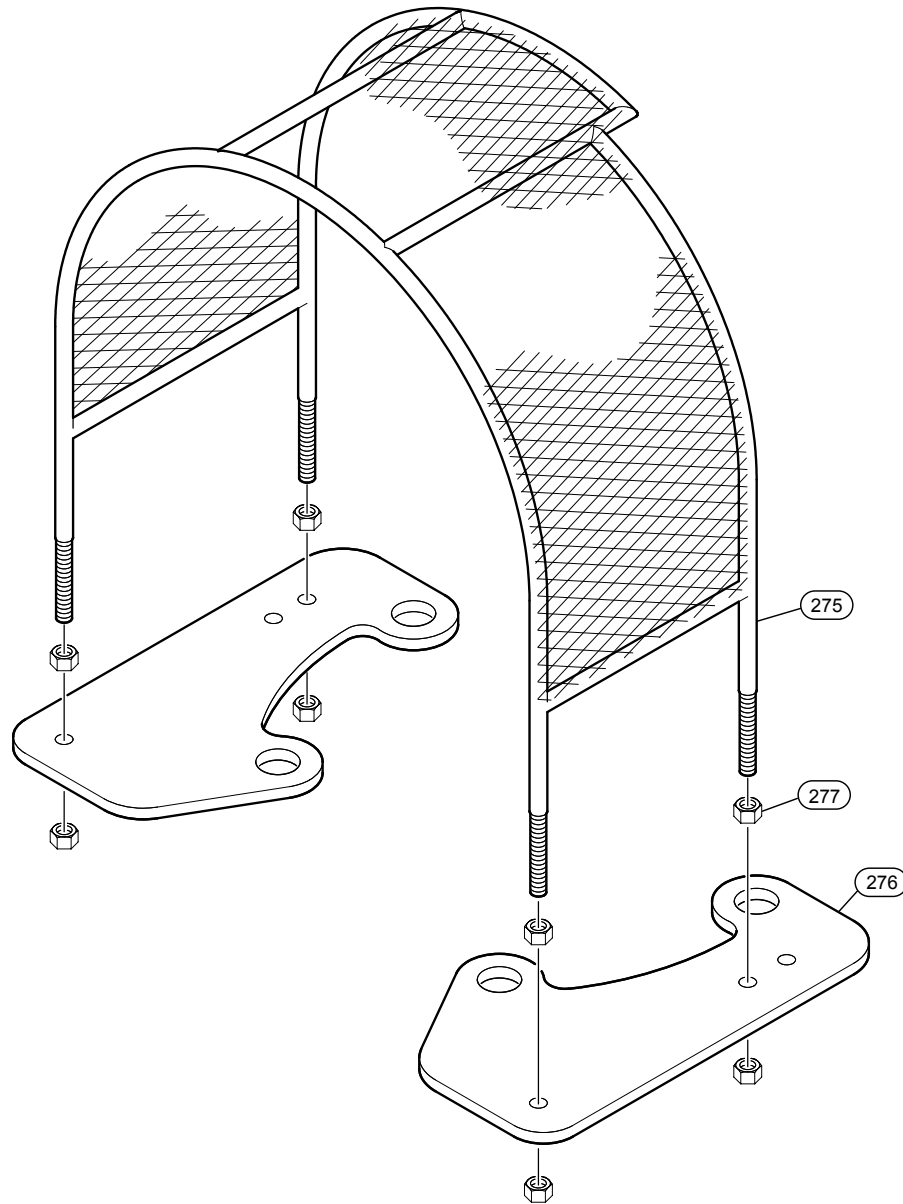
PILOT AIR CONTROL VALVE ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP3137)

Item No.	Description of Part	Total Qty	Part Number
141	Fitting, Hose End	6	51029
142	Hose (Bulk)	Specify Length	50923
348	Fitting, Adapter	3	71048268
353	Pendant Assembly	1	PHS2E
530	Throttle Valve	1	71386064
531	Breather	1	51559
532	Fitting, Elbow	2	51281
533	Fitting, Nipple	1	71048268

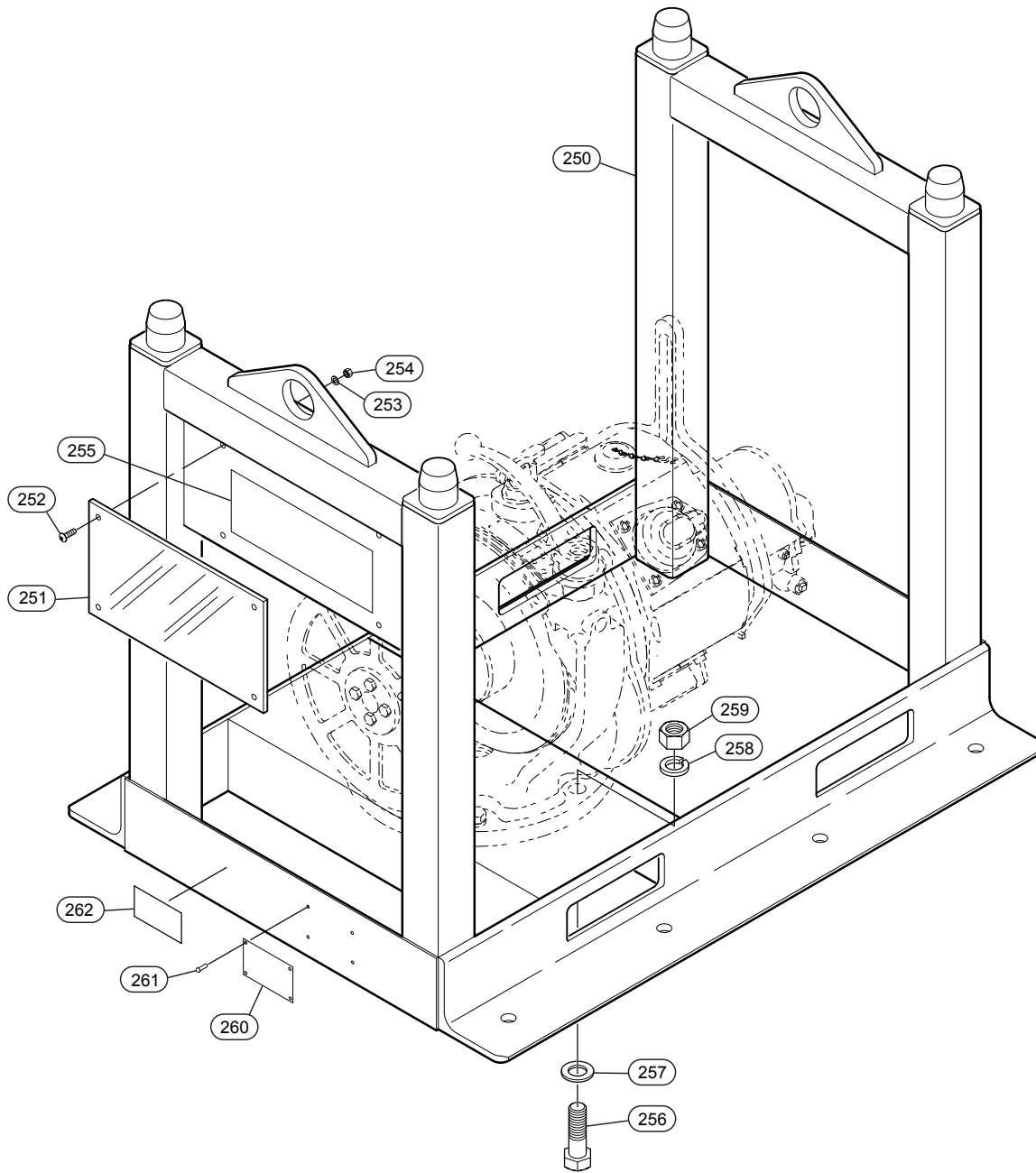
DRUM GUARD DRAWING AND PARTS LIST



(Dwg. MHP3123)

Item No.	Description of Part	Total Qty	Part Number	
			EU Winch	EUL Winch
275	Drum Guard Assembly (includes items 276 and 277)	1	EU-K298A	EUL-K298A
276	Plate	2	Order item 275	
277	Nut	8	Order item 275	

CONSTRUCTION CAGE DRAWING

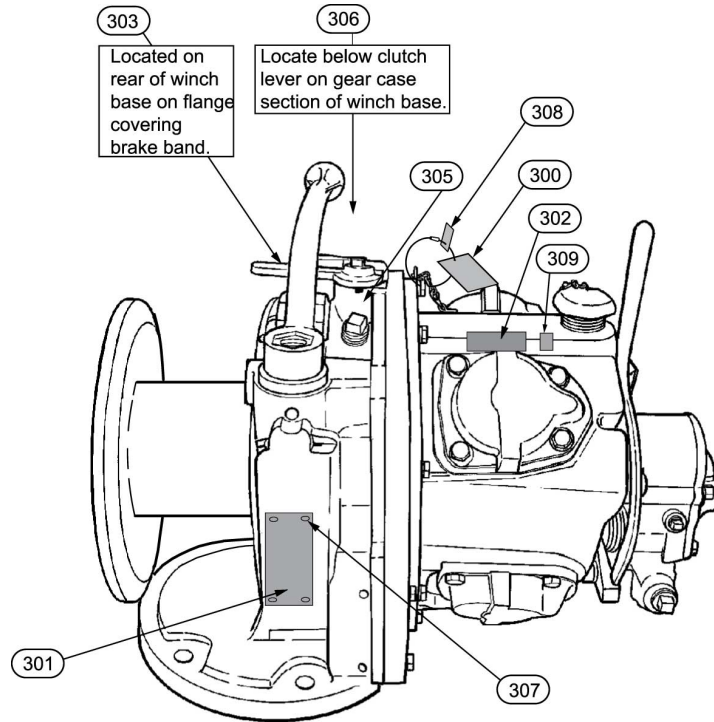


(Dwg. MHP2431)

CONSTRUCTION CAGE PARTS LIST

Item No.	Description of Part	Total Qty	Part Number	
			EU Winch	EUL Winch
- - -	Construction Cage Assembly	1	CC-EU	CC-EUL
250	Guard	1	27747-G	27801-G
251	Cover	1	27426	
252	Screw	4	71359129	
253	Washer	4	51831	
254	Nut	4	53390	
255	Label, Specification	1	71414718	
256	Capscrew	4	71368252	71414551
257	Washer	4	71343768	
258	Lockwasher	4	71316830	
259	Nut	4	71355846	
260	Nameplate	1	71106991	
261	Rivet	4	50915	
262	Label, Warning	1	71414700	

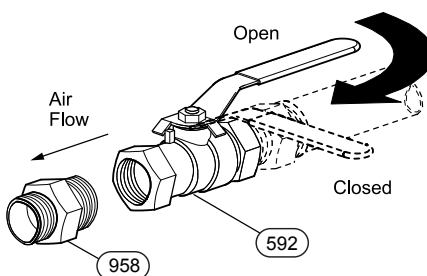
LABELS AND TAGS ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP1379)

Item No.	Description of Part	Total Qty	Part Number	
			Manual Brake	Automatic Brake
300	Warning Tag Kit (includes label, sleeve and wire tie)	1	29452	
301	Winch Nameplate	1	71067003-R	
302	Caution Plate - "Do Not Lift or Lower People"	1	71289326	
303	Warning - "Do Not Weld"	1	71270813	
304	Warning Tag - General	1	71056410	
305	Instruction Plate - Clutch "Engage-Disengage"	1	EU-94	- - -
306	Instruction Plate - "Apply Rope to Lift Winding this Direction"	1	DU-32	
307	Rivet	19	71028849	
308	Notice Tag - "Check Oil Level"	1	71107148	
309	Label, Oil Fill	1	71042204	

SHUT-OFF VALVE DRAWING AND PARTS LIST



(Dwg. MHP2958)

Item No.	Description of Part	Total Qty	Part Number
592	Valve, Shut-off	1	71404610
958	Fitting, Pipe Nipple	1	71404636

KITS, SPECIAL TOOLS AND ACCESSORIES

Description	Part Number
Piston Ring Compressor to compress Piston Rings (56) on Cylinder (57)	D10-933
Brake Adjusting Wrench	R55R-26
Jack Bolt	D02-932
Throttle Valve Stem Reamer	23470
Touch-up Paint (Yellow) 12 oz Spray Can	FAP-237Y
Wire Rope Lubricant 13 oz Spray Can	LUBRI-LINK-GREEN®
Drum Guard Kit (EU Model)	EU-K298A
Drum Guard Kit (EUL Model)	EUL-K298A
Auto Brake Kit (EU and EUL)	EU-C709
Air Strainer (3/4 inch)	HU-A267AT
Lubricator (3/4 inch)	L36461-110
Filter (3/4 inch)	F35461-410
Exhaust Muffler	50592
Regulator	R37461-600

