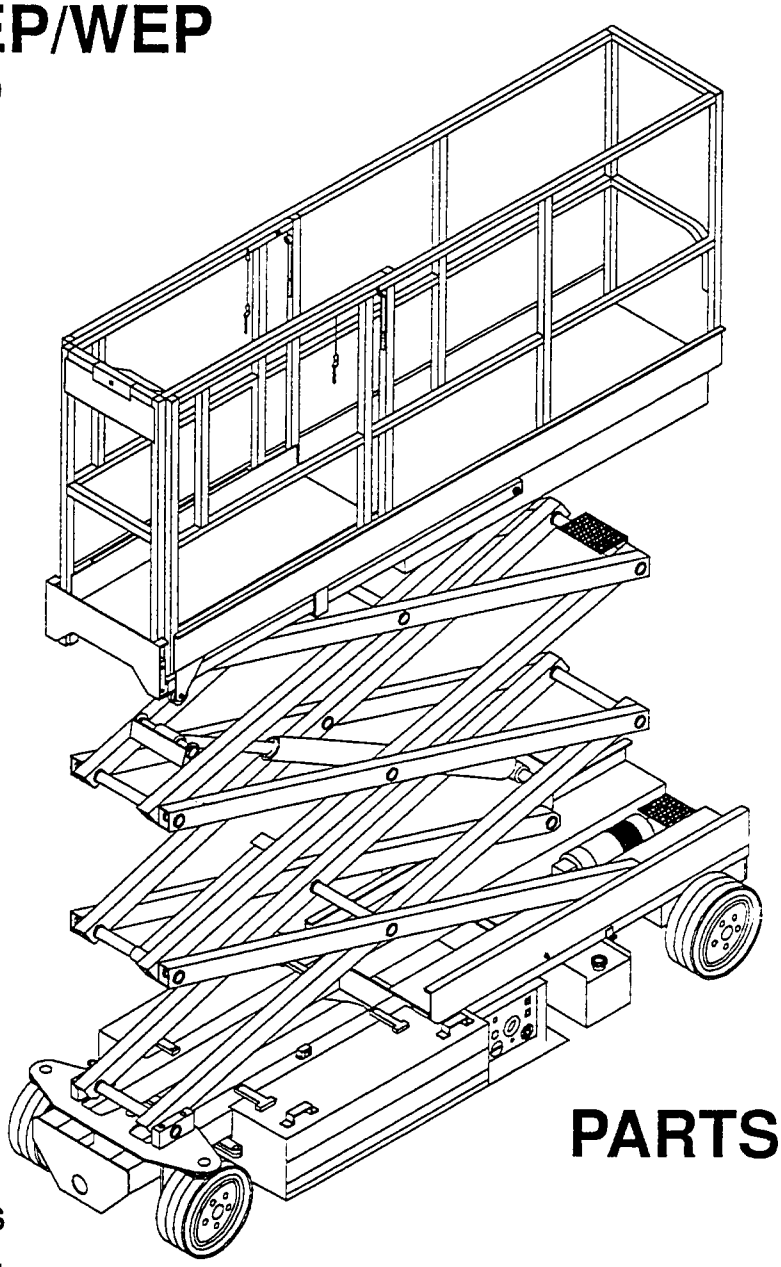
Mark Industries

SCISSOR LIFT
MODELS:

CH20NEP/WEP
CH26NEP/WEP
CH30EP



PARTS MANUAL

MARK INDUSTRIES
106 12th Street S.E.
Waverly, Iowa 50677
(319) 352-3920
(319) 352-5727 FAX

Issued: Dec 95
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P/N 17242

SECTION 1 CONTAINS:

PAGE	TITLE
1.1	NOTICE TO USERS
1.2	TABLE OF CONTENTS
1.6	HOW TO USE THE PARTS MANUAL
1.8	HOW TO ORDER PARTS
1.10	ABBREVIATIONS AND SYMBOLS

DISCLAIMER

MARK INDUSTRIES strives to include in the Parts Manual, information and illustrations that are accurate, complete, and current. Due to on-going changes and revisions by our many suppliers, it is often impossible to show all variations of a given assembly. Therefore, this information is subject to change without notice.

NOTICE

The Parts Manual, though sometimes helpful in the process of assembly/disassembly, is NOT intended to be assembly/disassembly instructions.

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3.40	CONTROL VALVE ASSEMBLY - CH20WEP, CH26NEP/WEP
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SECTION 7 "ALPHABETICAL LIST" CONTAINS:

PAGE	TITLE
7.2	ALPHABETICAL PARTS LIST

HOW TO USE THE PARTS MANUAL

Mark Industries

1

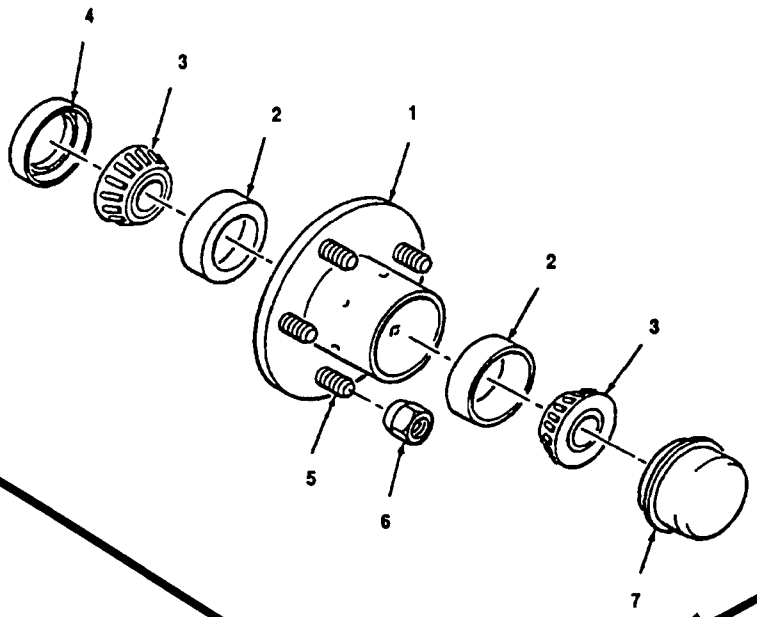
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HUB ASSEMBLY

Models CH20NEP/WEP
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3
3.11 Page

2



5
4
3
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8

Ref.	Part No.	Description	Qty	Remarks
-	134	Assembly, Hub (Studs in Assembly are not used)	Ref.	Incl. items 1 thru 7 To order complete assembly, order P/N 134 Hub & 5 each of 160681 Stud.
1	65684	Hub	1	
2	65686	Race, Bearing	2	
3	65059	Bearing	2	
4	66113	Seal, Grease	1	
5	65685	Studs, Wheel (Not used on machine - See Note)	5	Replace with item 8.
6	61316	Nut, Lug	5	
7	137	Dust Cap	1	
8	160681	Studs, Wheel (Used on machine)	5	(Qty 10 per machine)

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PART REQUIRED

PARTS MANUAL FORMAT

1. **SECTION** refers to the major divisions of the Parts Manual.

2. **PAGE** indicates the page number of the illustration or parts list.

3. The **REF.** number shown in the first column of the parts list corresponds to the callout in the illustration on the same page or facing page.

4. The Mark Industries **PART NUMBER** is shown in the second column for items that are serviceable.

5. **DESCRIPTION** of the part or assembly is shown in the third column.

6. **QUANTITY** indicates the quantity of items used in the assembly or sub-assembly directly above.

   A. Ref. indicates the item is not serviceable or is part of another assembly.

   B. AR indicates the item is used as required. Some quantities may be specified "For Machine".

7. Indented Items are items that are included in the subassembly directly above. See the example below for the indenture system used in this manual.

   EXAMPLE:

Ref.	Part No.	Description	Qty
	123456	Assembly	Ref.
1	234567	Part of Assembly	1
2	345678	Subassembly	1
	456789	Part of Subassembly	2

8. Common abbreviations and symbols that are used throughout this manual are shown on page 1.10 for reference.

9. **REMARKS** are shown in the fifth or far right column. The Remark column will include page number references for more detailed breakdowns, keyed items included in Kits indicated by symbols * ^ , sizes & special information.

HOW TO ORDER PARTS

Mark Industries

1B

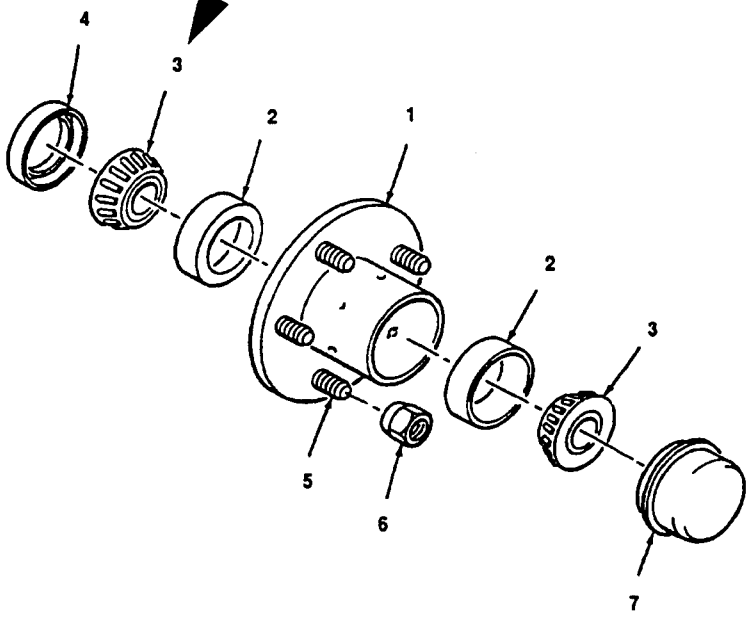
1A

Mark Industries

HUB ASSEMBLY

Models CH20NEP/WEP
CH26NEP/WEP
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1D

1C

Ref.	Part No.	Description	Qty	Remarks
-	134	Assembly, Hub (Studs in Assembly are not used)	Ref.	Incl. items 1 thru 7 To order complete assembly, order P/N 134 Hub & 5 each of 160681 Stud.
1	65684	Hub	1	
2	65686	Race, Bearing	2	
3	65059	Bearing	2	
4	66113	Seal, Grease	1	
5	65685	Studs, Wheel (Not used on machine - See Note)	5	Replace with item 8.
6	61316	Nut, Lug	5	
7	137	Dust Cap	1	
8	160681	Studs, Wheel (Used on machine)	5	(Qty 10 per machine)

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PART REQUIRED

1. **Find the Mark Industries Part Number.**

   A. Using the Table of Contents, find the Section and Page Number.

   B. Match the required part to the illustration and note the callout number.

   C. Find the corresponding Reference number in the parts list below the illustration or on the facing page.

   D. Use the Mark Industries Part Number listed next to the Ref. number when ordering.

   E. Always include the complete part number, as shown in the Parts Manual, along with the description of the part and specify the quantity of the part you wish to order.

   F. Anticipate your spare parts requirements.

   G. Place orders early in the day.

   H. Keep a supply of normal maintenance and recommended spare parts in stock.

   I. Obtain recommended parts stocking requirements from Mark Industries or your Mark Industries Distributor.

2. **Customer Ordering:**

   Genuine Mark Industries parts are available worldwide and must be ordered through your local Mark Industries Distributor. For your nearest Mark Industries Distributor, contact the Parts Sales Center at the numbers listed below.

3. **Distributor Ordering: Listed below in the respective order of preference, are the methods of ordering parts.**

   A. ON-LINE (Preferred)

   B. FAX: (601) 393-1751

   C. PHONE: (601) 393-1351

   D. MAIL: Terex – Southaven
   8800 Rostin Road
   P.O. Box 923
   Southaven, MS 38671–0923

   NOTE: If your Parts Department is not ON-LINE, contact the PARTS SALES CENTER for information on using this system.

4. Any errors, comments, or suggestions should be fowarded to the Director of Product Support at the following address:

   Mark Industries
   106 12th Street S.E.
   Waverly, IA 50677 – 4207

ABBREVIATIONS AND SYMBOLS

AC	ALTERNATING CURRENT	"	INCHES
ADPTR	ADAPTER	INT	INTERNAL
AMP	AMPERE	INV	INVERTED
APPROX	APPROXIMATELY	LG	LENGTH
AR	AS REQUIRED	LH	LEFT HAND
ASSY	ASSEMBLY	MAX	MAXIMUM
AVAIL	AVAILABLE	MIN	MINIMUM
BRG	BEARING	MM	MILLIMETER
BRKT	BRACKET	MTG	MOUNTING
CCW	COUNTER CLOCKWISE	P/N	PART NUMBER
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CHRG	CHARGING	NSS	NOT SOLD SEPARATELY
CTSK	COUNTERSUNK	OD	OUTSIDE DIAMETER
CVR	COVER	PTO	POWER TAKE-OFF
CW	CLOCKWISE	#	POUND
CYL	CYLINDER	QTY	QUANTITY
°	DEGREE	RD	ROUND
DC	DIRECT CURRENT	REF	REFERENCE
DIA	DIAMETER	RH	RIGHT HAND
DRV	DRIVE	ROT	ROTATION
ENG	ENGINE	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	SL	SLOTTED
EXT	EXTERNAL	SM	SMALL
FT	FEET	SPD	SPEED
GAL	GALLON	SS	STAINLESS STEEL
GR	GRADE	STD	STANDARD
GSK	GASKET	T	TOOTH
HD	HEAD	THK	THICK
HEX	HEXAGON	THRU	THROUGH
HP	HORSEPOWER	TEMP	TEMPERATURE
HSG	HOUSING	V	VOLT
HT	HEAT TREATED	VAC	VOLTS ALTERNATING CURRENT
HYD	HYDRAULIC	VARI	VARIABLE
HZ	HERTZ	VS	VARIABLE SPEED
ID	INSIDE DIAMETER	W/	WITH
INCL	INCLUDES	W/0	WITHOUT

SECTION 2 CONTAINS:

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2.2	FINAL ASSEMBLY
2.4	PROXIMITY SWITCHES
2.5	SERVICE STAND
2.6	MANUAL PLATFORM LOWERING VALVE ASSEMBLY
2.6	ELECTRICAL RECEPTACLE, POWER TO PLATFORM
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2.16	AERIAL CONTROL BOX
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2.22	HYDRAULIC ASSEMBLY - CH20WEP, CH26NEP/WEP
2.24	HYDRAULIC ASSEMBLY - CH30EP
2.28	DECALS & PAINT

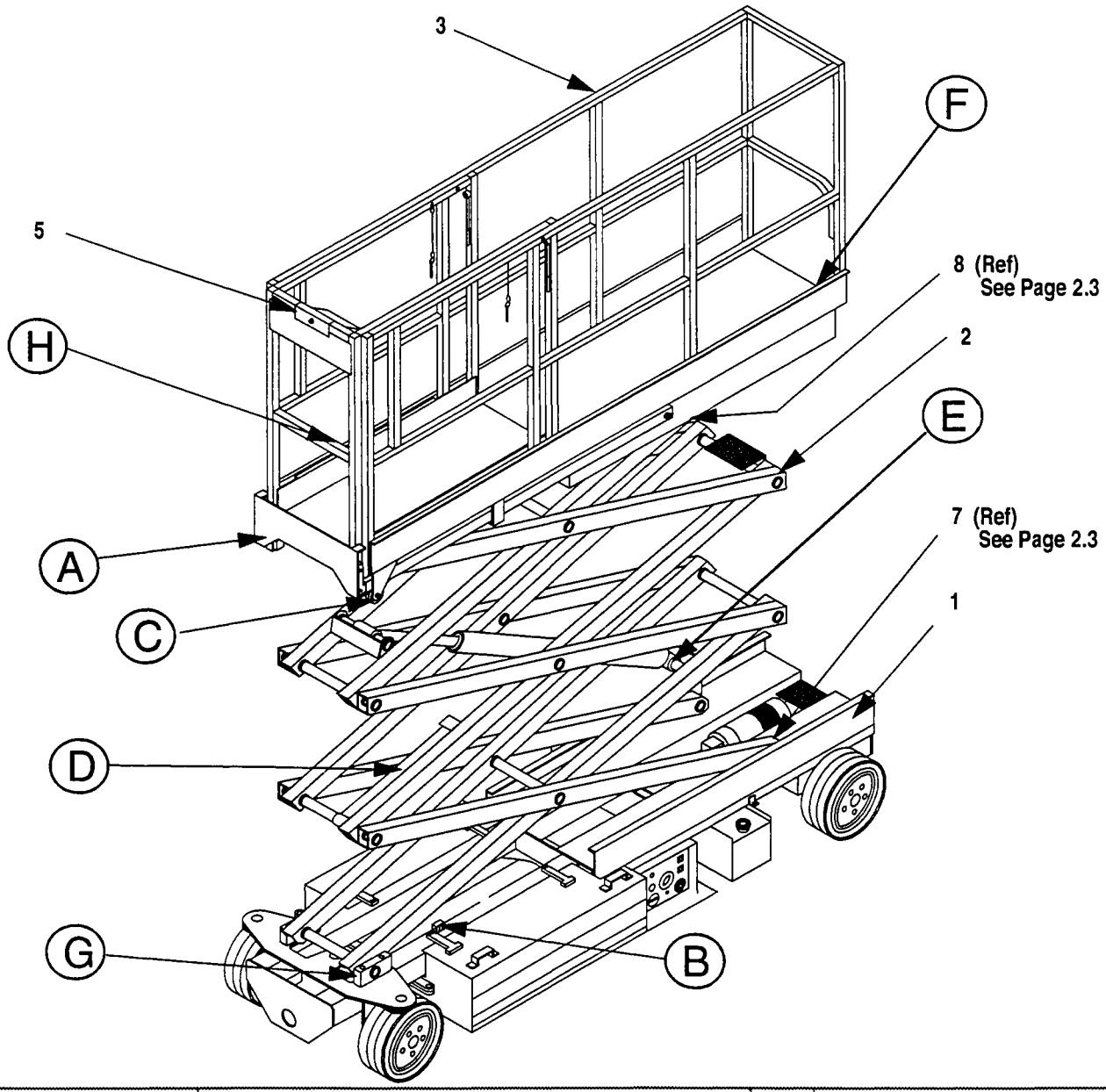
Models CH20NEP/WEP
CH26NEP/WEP
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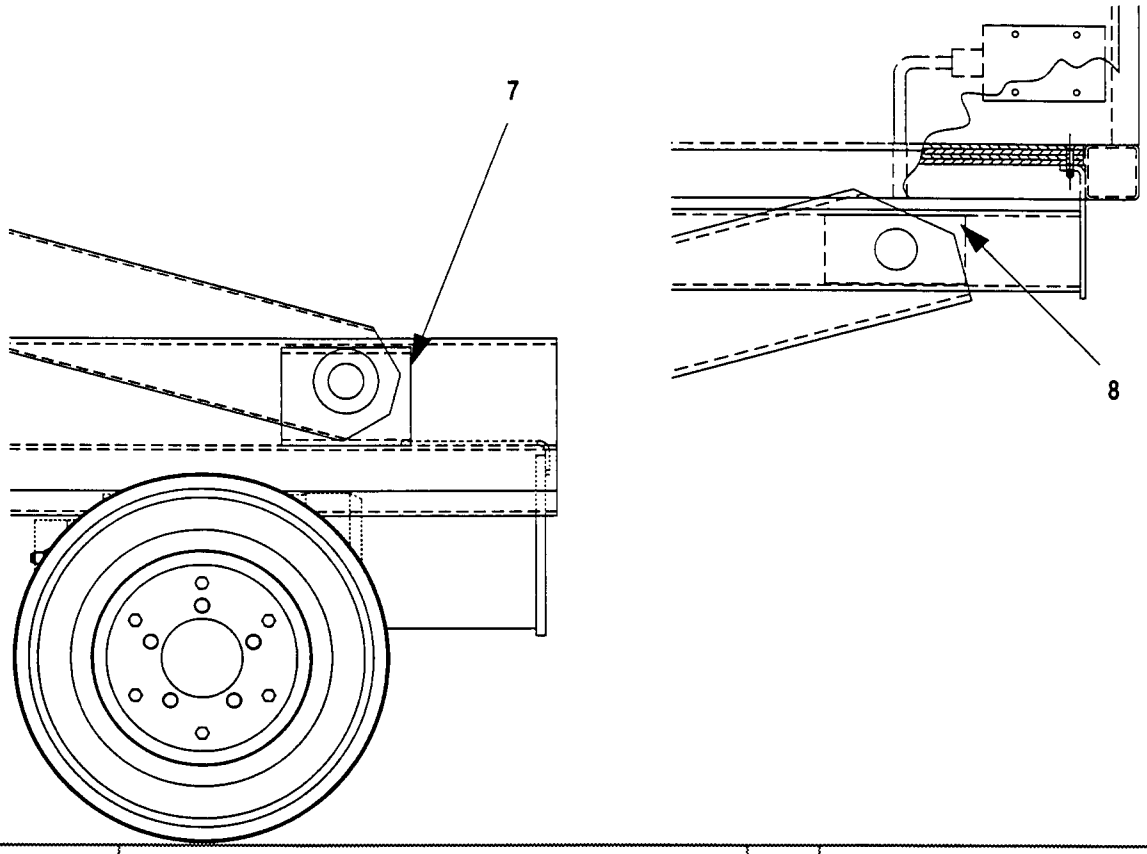
FINAL ASSEMBLY

CH20NEP/WEP, CH26NEP/WEP

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
-	130099	Assembly, Final - CH20NEP	Ref.	Incl. 1 thru 38
	130094	Assembly, Final - CH20WEP		
	130095	Assembly, Final - CH26NEP		
	130096	Assembly, Final - CH26WEP		
A	(Detail "A")	Proximity Switch, Mounted on Platform	Ref.	See Page 2.4 for Details.
B	(Detail "B")	Proximity Switch, Mounted on Base	Ref.	See Page 2.4 for Details.
C	(Detail "C")	Pin Assembly	Ref.	See Page 2.5 for Details.
D	(Detail "D")	Service Stand Assembly	Ref.	See Page 2.5 for Details.
E	(Detail "E")	Manual Platform Lowering Assembly	Ref.	See Page 2.6 for Details.
F	(Detail "F")	Electrical Receptacle, Power to Platform	Ref.	See Page 2.6 for Details.
G	(Detail "G")	Trunnion Assembly	Ref.	See Page 2.7 for Details.
H	(Detail "H")	Manual Holder Assembly	Ref.	See Page 2.7 for Details.



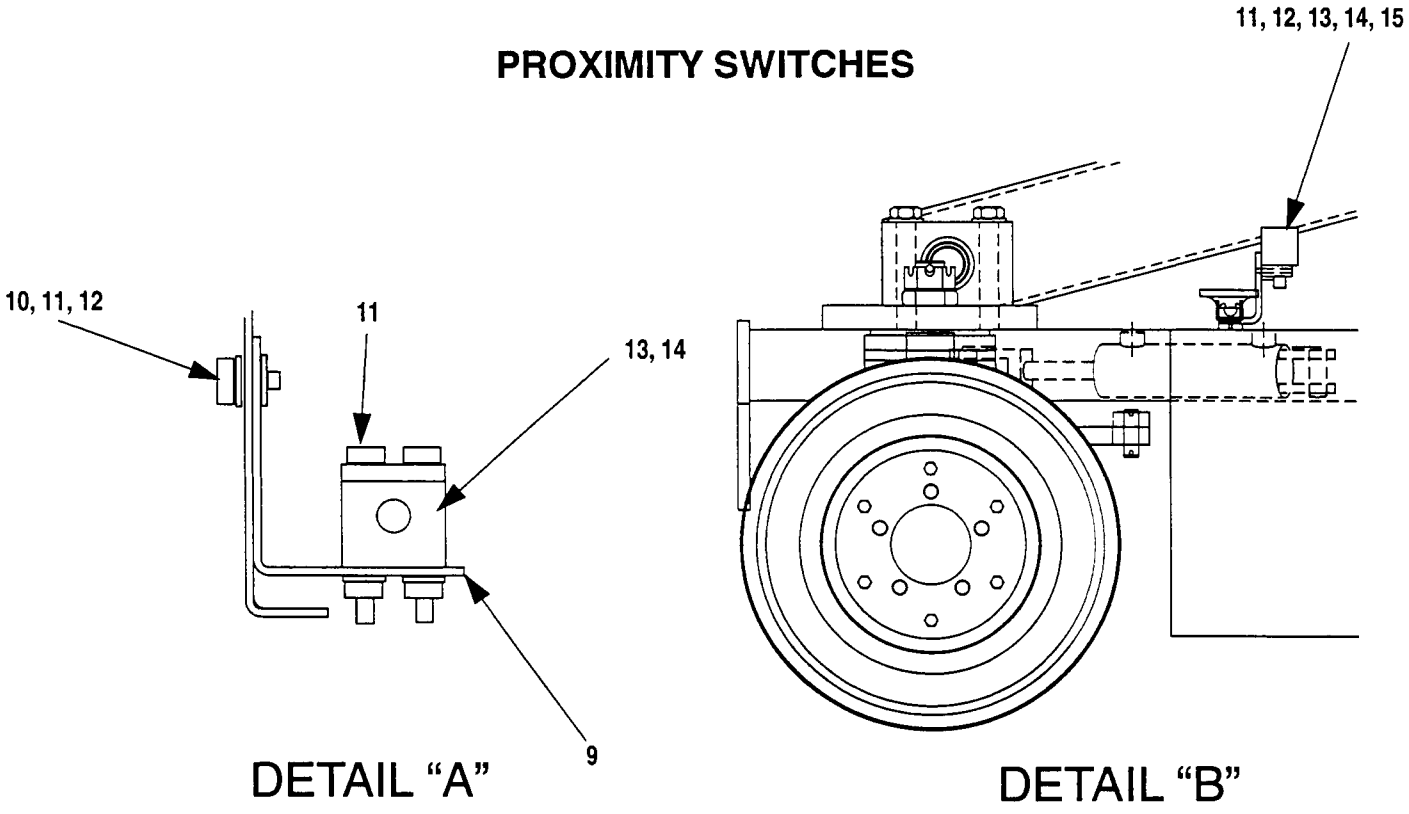
Ref.	Part No.	Description	Qty	Remarks
1	135704	Assembly, Base - CH20NEP	1	See Section 3 for Details.
	135618	Assembly, Base - CH20WEP, CH26NEP	1	See Section 3 for Details.
	135741	Assembly, Base - CH26WEP	1	See Section 3 for Details.
2	135102	Assembly, Scissor - CH20NEP	1	See Section 4 for Details.
	135616	Assembly, Scissor - CH20WEP	1	See Section 4 for Details.
	135581	Assembly, Scissor - CH26NEP, CH26WEP	1	See Section 4 for Details.
3	135202	Assembly, Platform - CH20NEP	1	See Section 5 for Details.
	135619	Assembly, Platform - CH20WEP, CH26NEP	1	See Section 5 for Details.
	135563	Assembly, Platform - CH26WEP	1	See Section 5 for Details.
4	135705	Hydraulic Ass'y - CH20NEP	1	See Page 2.18 for Details.
	135620	Hydraulic Ass'y - CH20WEP, CH26NEP/WEP	1	See Page 2.22 for Details.
5	135765	Aerial Control Box Ass'y	1	See Page 2.16 for Details.
7	135119	Wear Pad - CH20NEP	2	
	135538	Wear Pad - CH20WEP, CH26NEP/WEP	2	
8	135333	Wear Pad	2	
9	135304	Bracket, Proximity Switch	1	

FINAL ASSEMBLY

CH20NEP/WEP, CH26NEP/WEP

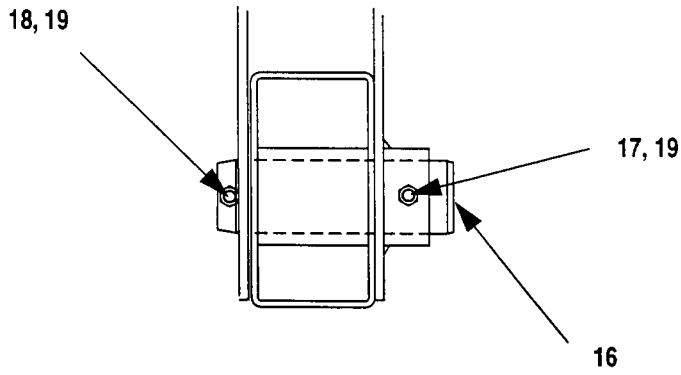
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PROXIMITY SWITCHES

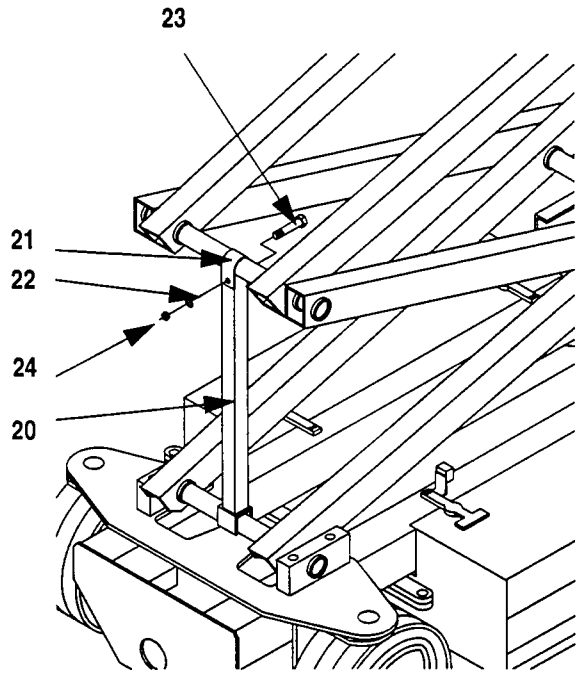


Ref.	Part No.	Description	Qty	Remarks
10	1233-37	Machine Screw, #8-32 x 1/2	2	
11	62632	Machine Screw, #8-32 x 2-1/4	4	
	63412	Flat Washer, #8	6	
	61325	Hex Nut, Self Locking 8-32	6	
12	135344	Bracket, Proximity Switch - CH20NEP	1	
	135598	Bracket, Proximity Switch - CH26NEP, CH26WEP CH20NEP	1	
13	441 6834	Switch, Proximity	2	
14	441 6835	Cable, Proximity Switch	2	
15	331 1000	Flat Washer, #10	2	

SERVICE STAND



DETAIL "C"



DETAIL "D"

Ref.	Part No.	Description	Qty	Remarks
"C"	(Detail "C")	Pin Assembly		
16	135201	Pin	2	
17	1200-15	Capscrew,1/4NC x 2-1/2 GR5	2	
18	1200-11	Capscrew, 1/4 NC x 2 GR 5	2	
19	61312	Locknut, 1/4-20	4	
"D"	(Detail "D")	Service Stand Assembly		
20	135133	Service Stand	1	
21	135136	Clamp, Service Stand	1	
22	1209-4	Flat Washer, 3/8	2	
23	1200-71	Capscrew, 3/8-16 x 2-1/2 GR5	1	
24	1205-45	Locknut, 3/8-16	1	

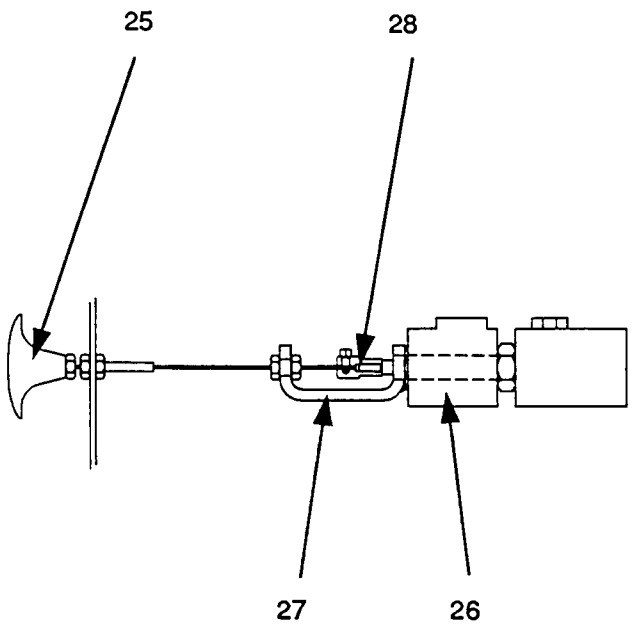
Models CH20NEP/WEP
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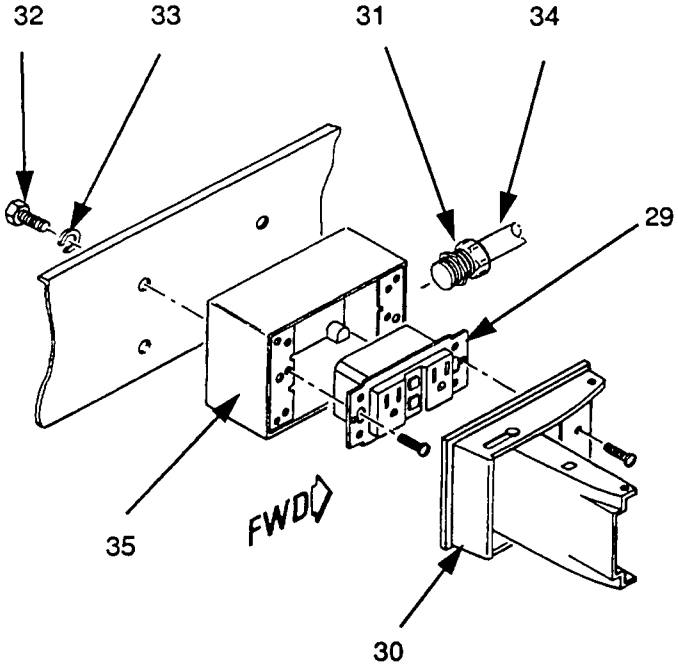
FINAL ASSEMBLY

CH20NEP/WEP,CH26NEP/WEP

Mark Industries

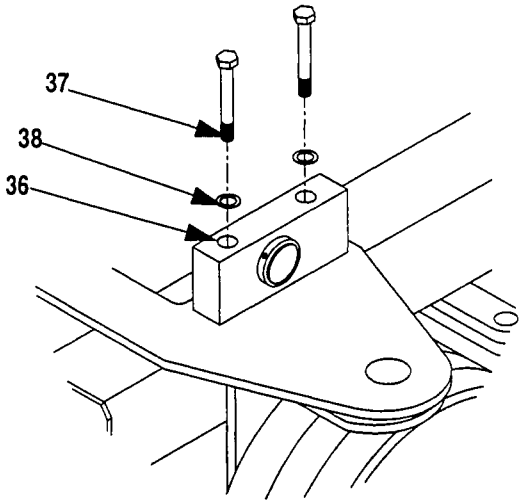


DETAIL "E"

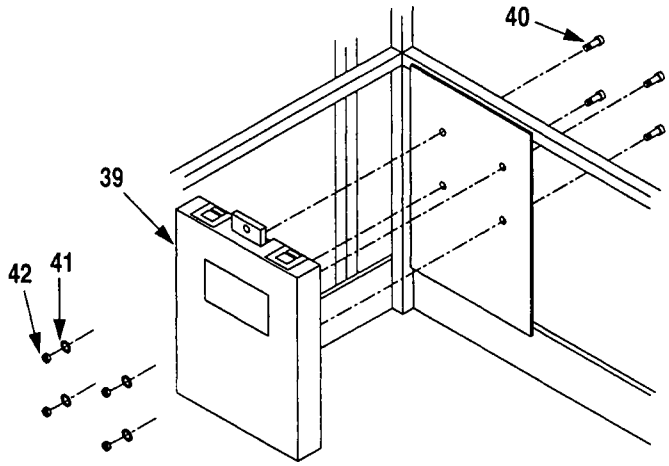


DETAIL "F"

Ref.	Part No.	Description	Qty	Remarks
"E"	(Detail "E")	Manual Platform Lowering Assembly	Ref.	Incl. items 25 thru 28
25	135245	Control Cable w/T-Handle	1	
	69351	Handle only	1	
26	135231	Solenoid Valve, Manual Lowering	1	
27	135230	Bracket, Cable Mount	1	
28	135244	Adapter, Set Screw	1	
"F"	(Detail "F")	Electrical Receptacle, Power to Platform	Ref.	Incl. items 29 thru 35
29	70391	Receptacle, Duplex (G.F.C.I.)	1	
30	70392	Cover, Snap	1	
31	2806	Strain, Relief	1	
32	1233-7	Screw, Machine #10-32 UNC x .75	4	
33	1210-7	Lockwasher, #10	4	
34	135782	Cable	50 ft.	
35	70262	Box, Universal	1	



DETAIL "G"



DETAIL "H"

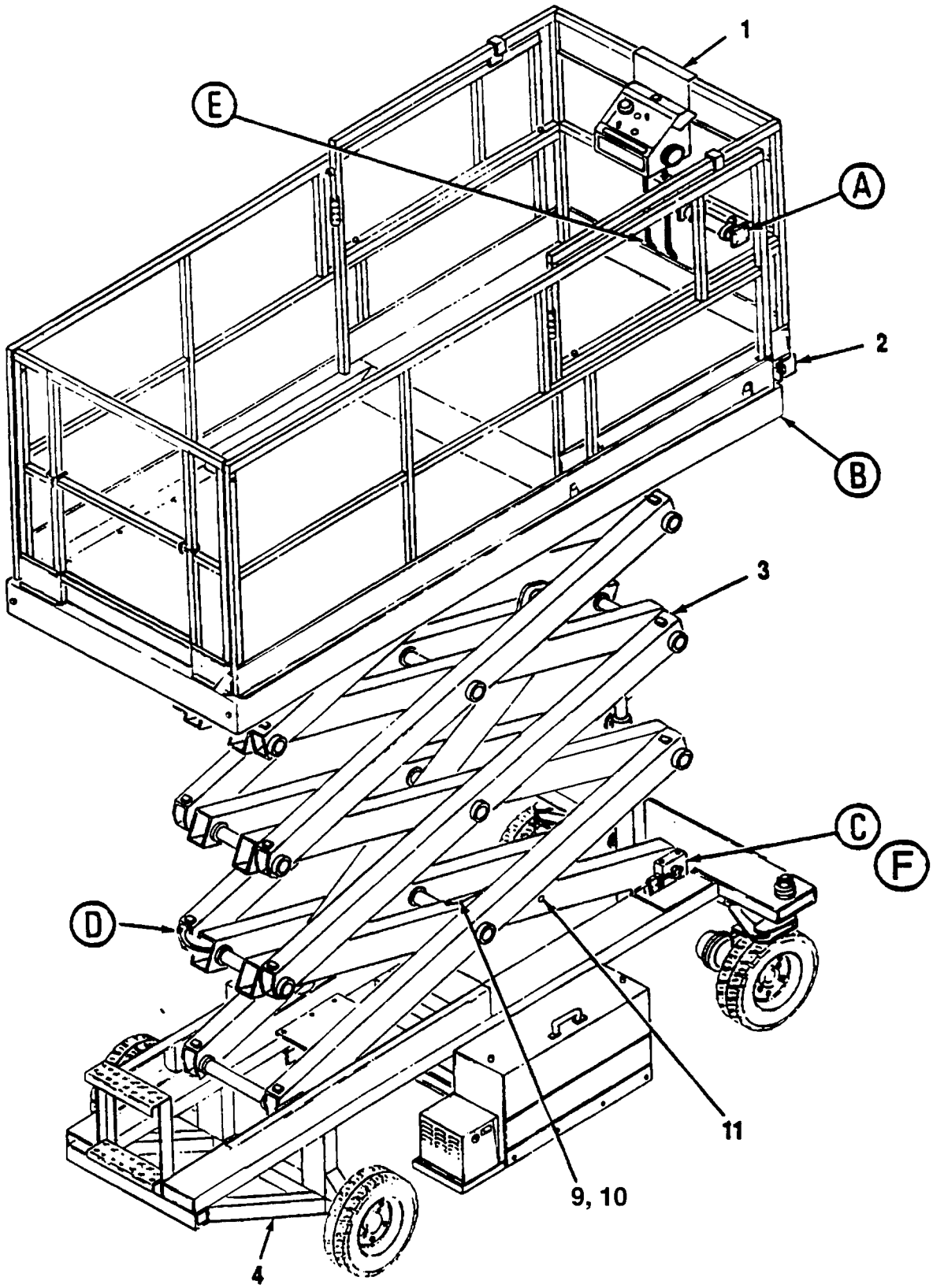
Ref.	Part No.	Description	Qty	Remarks
"G"	(Detail "G")	Trunnion Assembly	Ref.	Incl. items 36 thru 38
36	135123	Trunnion Assembly	2	Incl. Bushing
	64940	Bushing	1	* (Qty 2 per Machine)
37	1200-206	Capscrew, 3/4NC x 4-1/2	4	
38	331 2600	Washer	4	
"H"	(Detail "H")	Manual Holder Assembly	Ref.	Incl. items 39 thru 42
39	135322	Manual Holder	Ref.	
40	61921	Capscrew, Socket HD 1/4C x 1/2"	4	
41	1209-2	Flat Washer	4	
42	1205-13	Nut, 1/4C	4	

Models CH20NEP/WEP
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FINAL ASSEMBLY
CH30EP

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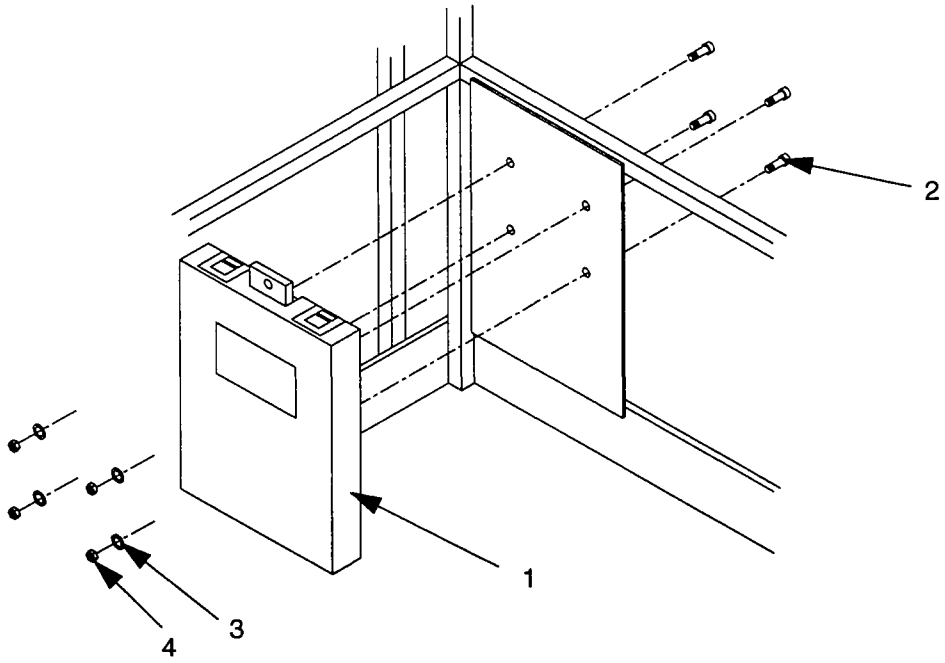
Ref.	Part No.	Description	Qty	Remarks
-	135789	Assembly, Final (1000 lb. capacity, 18' drive cutout)	Ref.	
	135824	Assembly, Final (700 lb. capacity, full elev. drive)	Ref.	
A	(Detail "A")	Assembly, Safety Manual Holder	Ref.	See Page 2.10 for Details.
B	(Detail "B")	Assembly, Pin Assembly	Ref.	See Page 2.11 for Details.
C	(Detail "C")	Proximity Switch and Trunnion	Ref.	See Page 2.11 for Details.
D	(Detail "D")	Assembly, Scissor Wiring	Ref.	See Page 2.12 for Details.
E	(Detail "E")	Proximity Switch, Platform	Ref.	See Page 2.12 for Details.
F	(Detail "F")	Assembly, Trunnion	Ref.	See Page 2.13 for Details.
G	(Detail "G")	Assembly, {Power to Platform	Ref.	See Page 2.15 for Details.
1	135765	Assembly, Aerial Control Box	1	See Page 2.16
2	133390	Assembly, Platform	1	See Section 5
3	134462	Assembly, Scissor	1	See Section 4
4	135794	Assembly, Base (1000 lb. capacity, 18' drive cutout)	1	See Section 3.
	135825	Assembly, Base (700 lb. capacity, full elev. drive)	1	See Section 3.
9	131766	Clamp, Service Stand	1	
10	131767	Arm, Service Stand	1	
11	1200-17	Screw, Cap	1	
	1210-14	Washer, Lock	1	
	1205-13	Nut, Hex	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

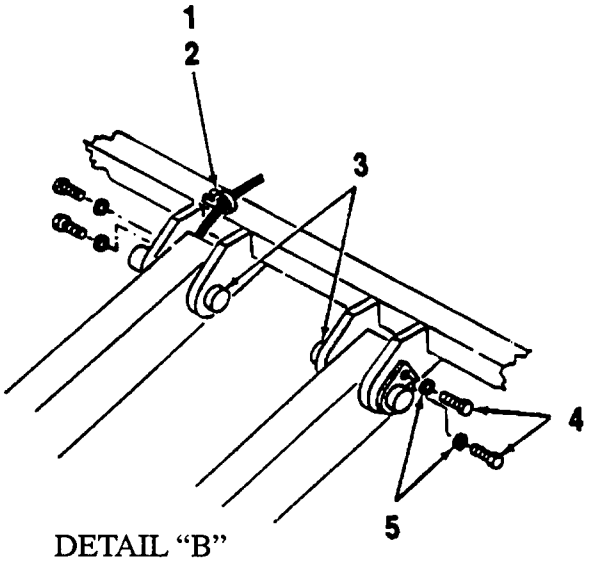
FINAL ASSEMBLY
CH30EP

Mark Industries

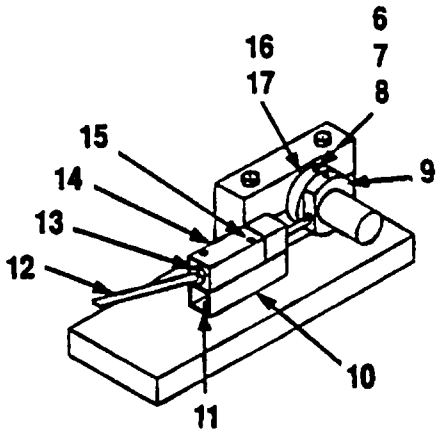


DETAIL "A"

Ref.	Part No.	Description	Qty	Remarks
"A"	(Detail "A")	Safety Manual Holder	Ref	Incl. Items 1 thru 4
1	135322	Manual Box	1	
2	61921	Capscrew, 1/4C x 1/2	4	
3	1209-2	Washer	4	
4	1205-13	Nut	4	



DETAIL "B"



DETAIL "C"

(1000 lb. Capacity, 18' Drive Cutout Machines Only)

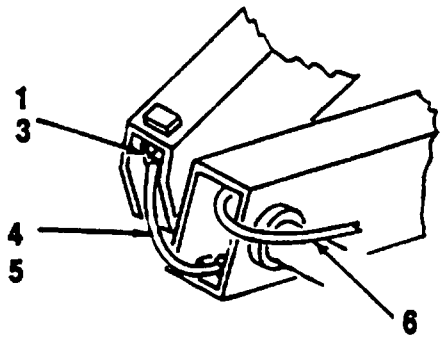
Ref.	Part No.	Description	Qty	Remarks
"B"	(Detail "B")	Pin Assembly	Ref	
1	764	Clamp, Rubber	1	
2	1200-334	Screw, Cap	1	
	1210-14	Washer, Lock	1	
3	131692	Pin, Platform Arm	2	
4	1200-309	Screw, Cap 1/4 X 1/2	4	
5	1210-14	Washer, Lock	4	
"C"	(Detail "C")	Proximity Switch and Trunnion	Ref	
		(1000 lb. Capacity, 18' Drive Cutout Machines Only)		
6	160407	Bearing	2	
7	62238	Screw, Set	2	
8	65577	Collar, Shaft	2	
9	133918	Cam, Limit Switch	2	
10	133697	Base	2	
11	1200-29	Screw, Hex	4	
	1209-46	Washer, Flat	4	
12	70423	Cable, 12-3	15 ft	
13	2806	Relief, Strain (1/2")	2	
14	70619	Switch, Limit	3	
15	62714	Screw, Cap	4	
	1210-7	Washer, Lock	4	
16	133918	Cam, Limit Switch	2	
17	62640	Screw, Machine	2	
	1210-14	Washer, Lock	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

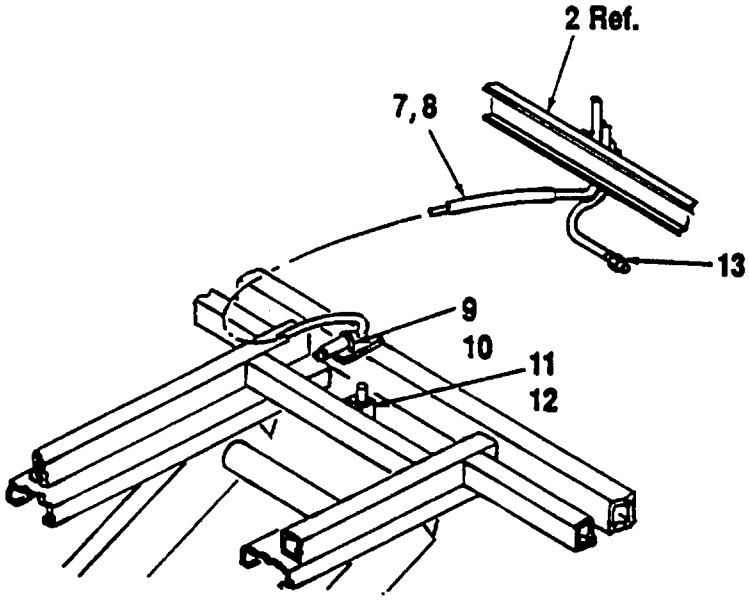
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FINAL ASSEMBLY
CH30EP

Mark Industries

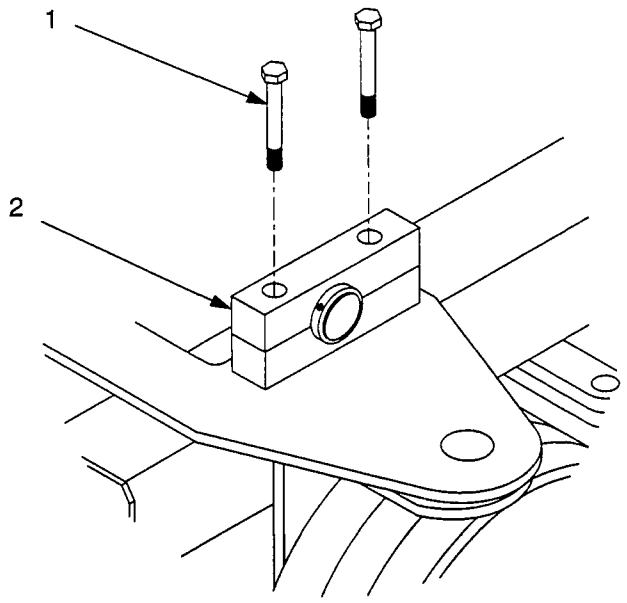


DETAIL "D"



DETAIL "E"

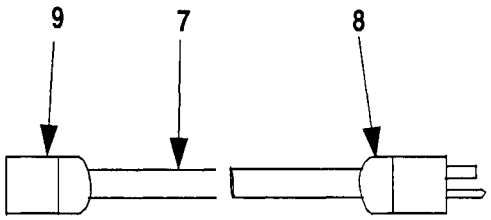
Ref.	Part No.	Description	Qty	Remarks
"B"	(Detail "D")	Scissor Wiring	Ref.	
1	764	Clamp, Rubber	2	
2		Assembly, Extendable Platform	Ref.	See Section 5 for Details.
3	1200-1	Screw, Cap	2	
	60711	Nut, Hex	2	
4	255	Tie, Cable	2	
5	63654	Rivet, Pop	2	
6	134466	Diagram, Hydraulic Hose	1	
"E"	(Detail "E")	Proximity Switch	Ref.	
7	133290	Hose, Hydraulic	1	
8	65451	Clamp, Hose	1	
9	160509	U-Bolt	1	
10	61318	Nut, Lock	2	
11	70619	Switch, Limit	1	
12	62714	Screw, Machine	4	
	61241	Nut, Lock	4	
13	2806	Relief, Strain	4	
	2807	Relief, Strain	4	

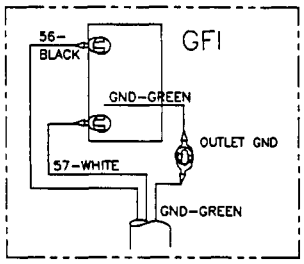


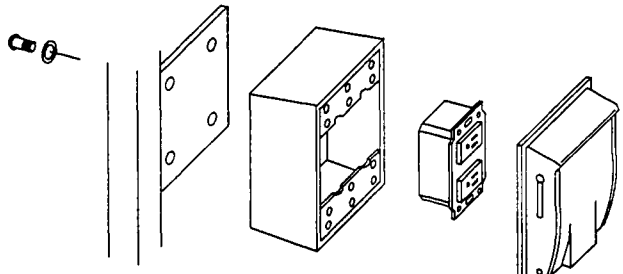
DETAIL "F"

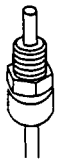
Ref.	Part No.	Description	Qty	Remarks
"F"	(Detail "F")	Trunnion Assembly	Ref.	
1	60639	Screw, Cap	4	
2	131662	Machining, Trunnion Mount	2	
	160407	Bearing	1	

NOTES









DETAIL "G"

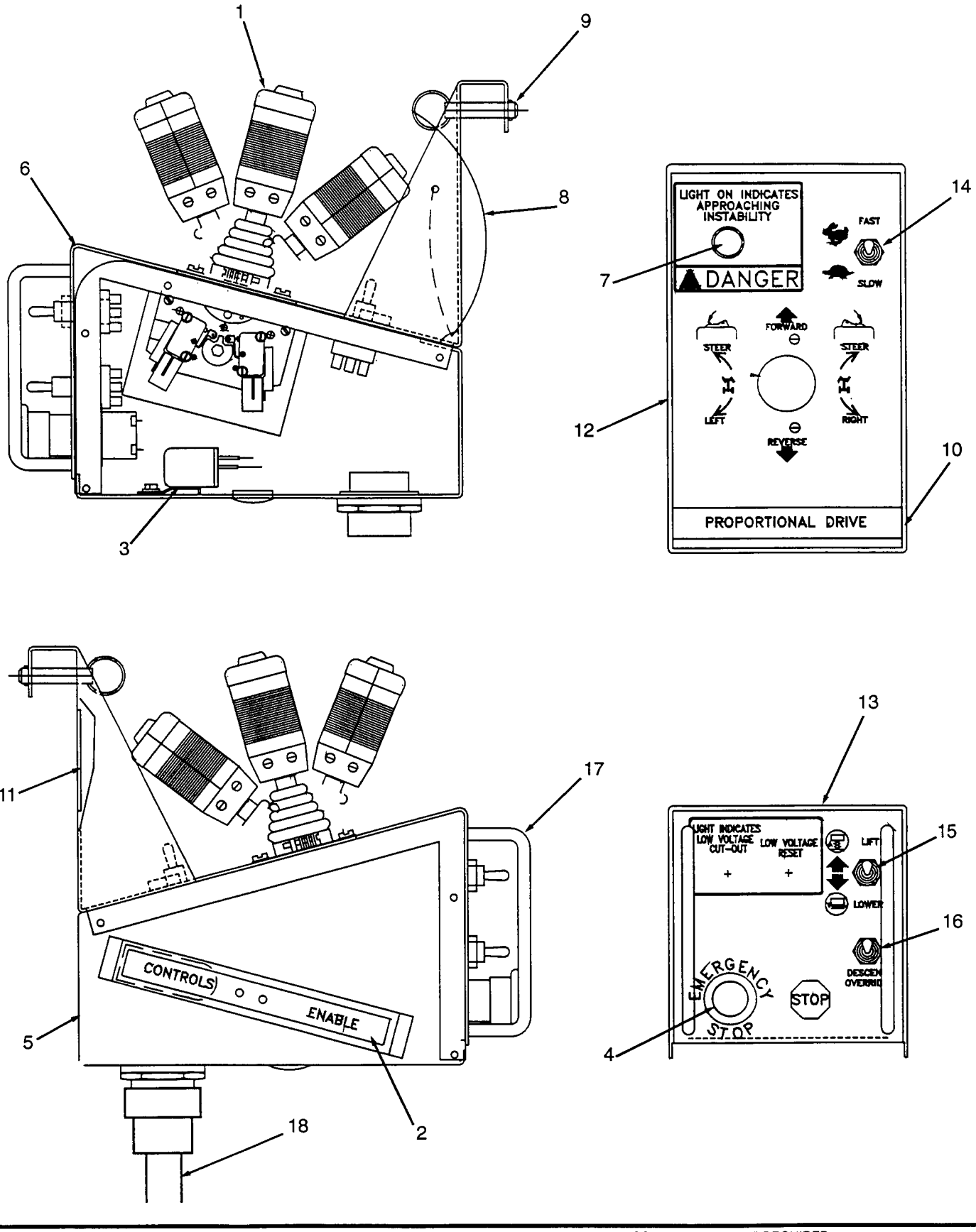
Ref.	Part No.	Description	Qty	Remarks
"G"	(Detail "G")	Platform Wiring		
	135626-1	Platform Wiring Assembly (110V)	Opt.	Incl. Items 1 thru 6
1	70391	Receptacle	1	
2	70392	Cover, Receptacle	1	
3	70262	Box, Universal	1	
4	2806	Strain Relief	1	
5	1233-7	Screw	4	
5A	1210-7	Washer, Lock	4	
6	135782-1	Cable, 12 - 3	1	
	135627-1	Platform Wiring Assembly (220V)	Opt.	Incl. Item 7
7	135782-1	Cable	1	
		Plugs are supplied by end user		

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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AERIAL CONTROL BOX

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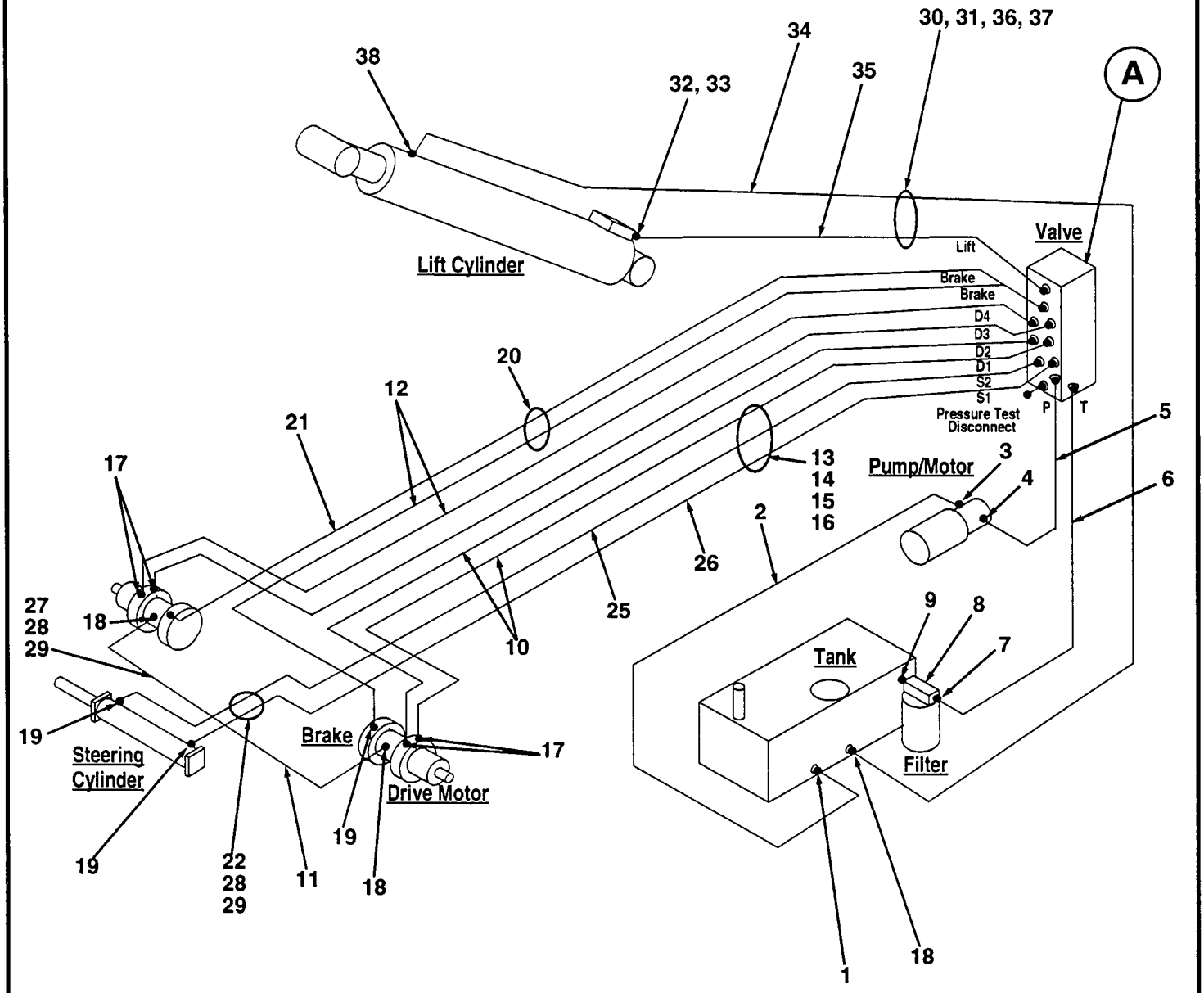
Ref.	Part No.	Description	Qty	Remarks
	135765	Aerial Control Box Assembly	Ref.	Incl. Items 1 thru 17
1	69142	Controller, Proportional Drive	1	
2	69145	Handle, Control Enable	1	
3	70259	Buzzer	1	
4	69166	Switch	1	
5	69150	Enclosure (Base)	1	
6	69109	Enclosure (Cover)	1	
7	69144	Lamp Base	1	
	69146	Bulb	1	
	69143	Lens, Red	1	
8	69148	Cable	1	
9	69149	Pin	1	
10	182837	Decal (Proportional Drive)	1	
11	181329	Decal, Warning	1	
12	185726	Decal	1	
13	185727	Decal	1	
14	69162	Switch	1	
15	69163	Switch	1	
16	66164	Switch	1	
17	69147	Handle	2	
18	135345-1	Cable CH20NEP, CH20WEP	1	
	135345-3	Cable CH26NEP, CH26WEP	1	
	135345-4	Cable CH30EP	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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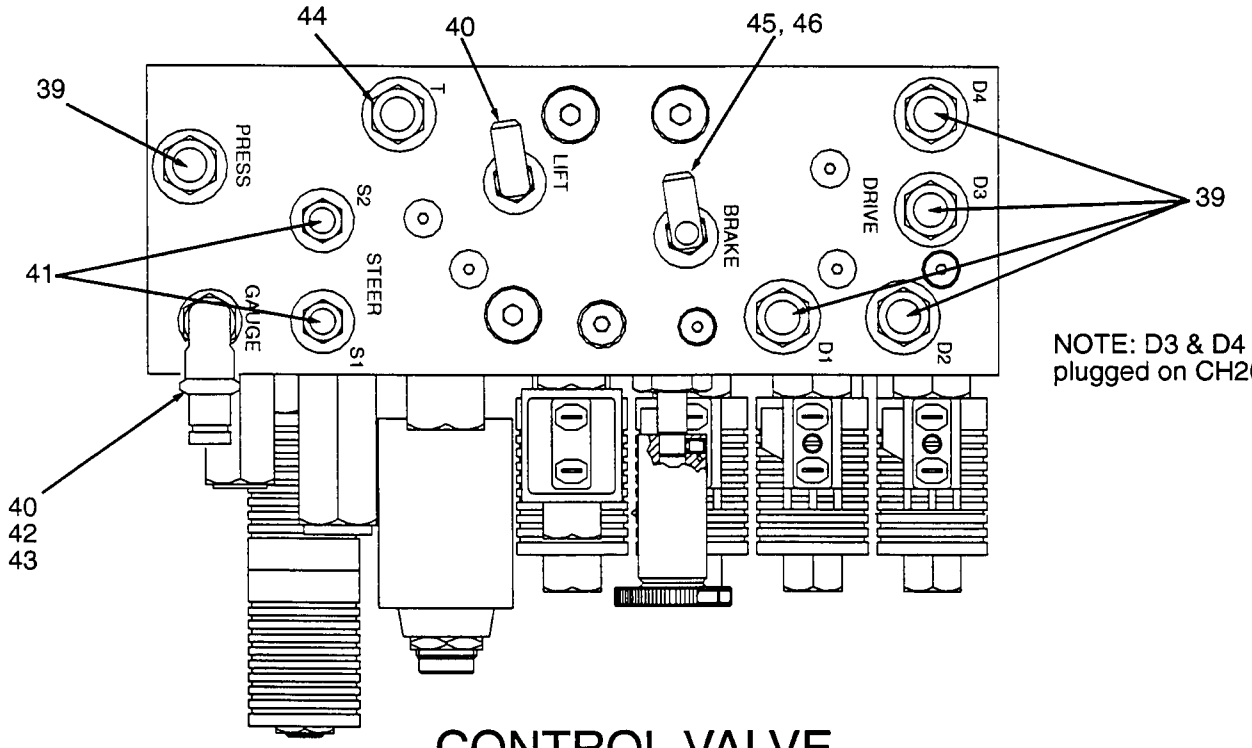
HYDRAULIC ASSEMBLY
CH20NEP

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
-	135705	Hydraulic Assembly - CH20NEP	Ref.	Incl. items 1 thru 42
"A"	(Detail "A")	Fittings, Control Valve	Ref.	Items 39 thru 47
1	1219-283	Adapter	1	
2	212109-24	Hose	1	
3	1219-446	Adapter	1	
4	1219-776	Adapter	1	
5	212110-43	Hose	1	
6	212095-28	Hose	1	
7	1219-916	Adapter	1	
8	81450	Filter Assembly	1	See Page 3.33 for Details.
9	12019-292	Adapter, Union	1	
10	212110-61	Hose	2	
11	212378-48	Hose	1	
12	212110-64	Hose	2	
13	200B2007-15	Clamp	1	
14	1200-59	Capscrew, 3/8 NC x 1 GR5	1	
15	1209-4	Flat Washer, 3/8	1	
16	1205-194	Locknut, 3/8-16	1	
17	1219-978	Adapter	4	
18	1219-959	Adapter	3	
19	12019-548	Adapter, 90°	3	
20	1222-202	Cable Tie, Large	5	
21	212112-73	Hose	1	
22	16268	Clamp, Hose	1	
23	411-7	Rubber Molding, 7"	1	Not Shown
24	411-12	Rubber Molding, 12"	1	Not Shown
25	212112-34	Hose	1	
26	212112-29	Hose	1	
27	65655	Clamp, Cushioned	1	
28	1205-13	Nut, 1/4	2	
29	1200-1	Capscrew, 1/4NC x 3/4 GR5	2	
30	65655	Clamp, Cushioned	2	
31	1222-184	Cable Tie, Small	25	
32	80058-03	Reducer	1	
33	80018-03	Elbow, 45°	1	
34	212114-240	Hose	1	
35	212113-180	Hose	1	
36	1205-13	Nut, 1/4	2	
37	1200-1	Capscrew, 1/4NC x 3/4 GR5	2	
38	12019-264	Adapter	1	

NOTES



NOTE: D3 & D4 plugged on CH20NEP

CONTROL VALVE DETAIL "A"

Ref.	Part No.	Description	Qty	Remarks
"A"	(Detail "A")	Control Valve Fittings	Ref.	
39	1219-605	Adapter	5	
40	1219-548	Adapter	1	
41	1219-959	Adapter	1	
42	12019-557	Quick Disconnect, Male Half (pressure test)	1	See item 47 for Female Half
43	12019-558	Dust Cap	1	
44	1219-598	Adapter	1	
45	12019-427	Adapter	1	
46	1219-813	Cap	1	
47	12019-556	Quick Disconnect, Female Half (pressure test)	1	Not Illustrated - ref. only

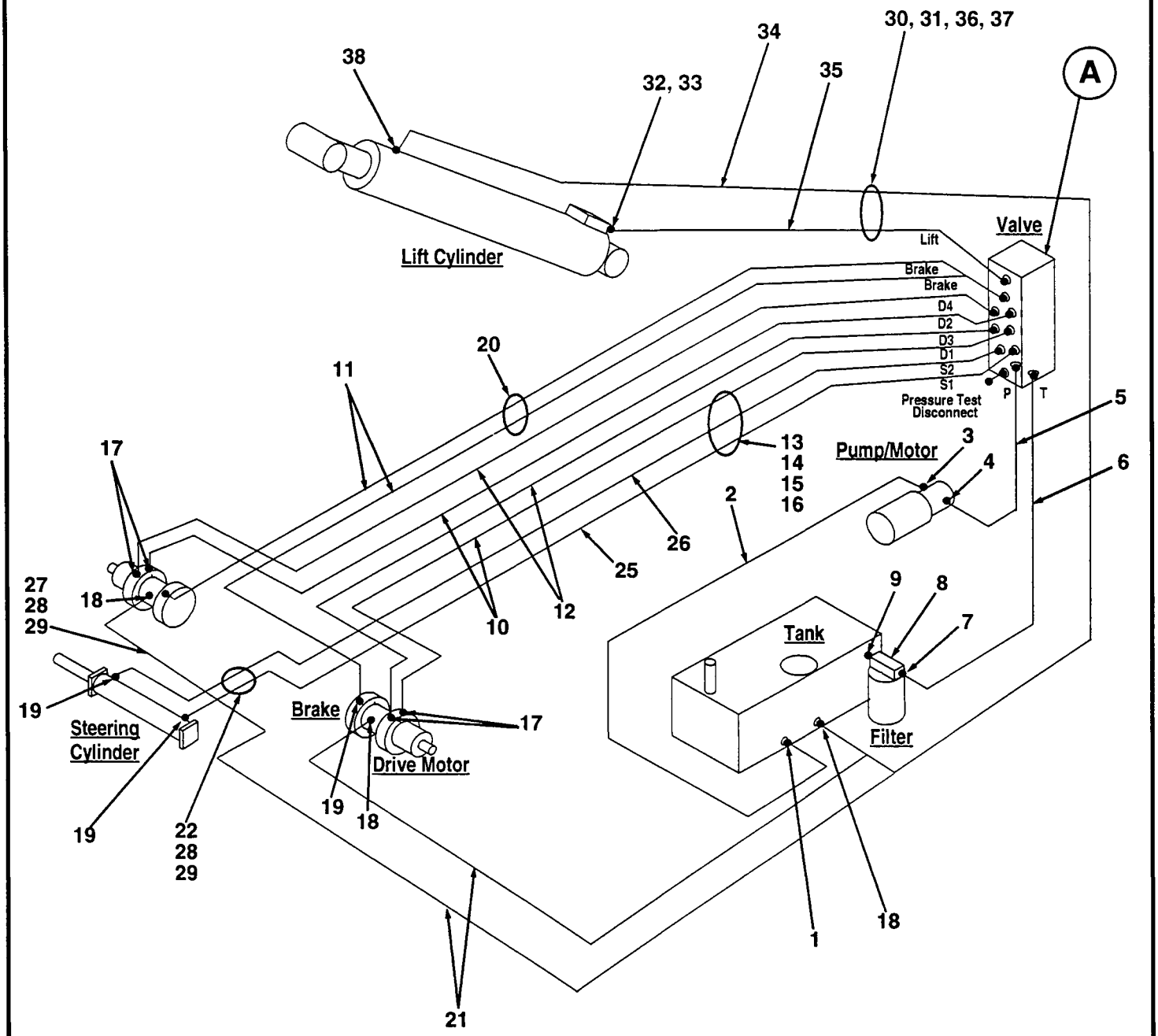
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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HYDRAULIC ASSEMBLY

CH20WEP, CH26NEP/WEP

Mark Industries



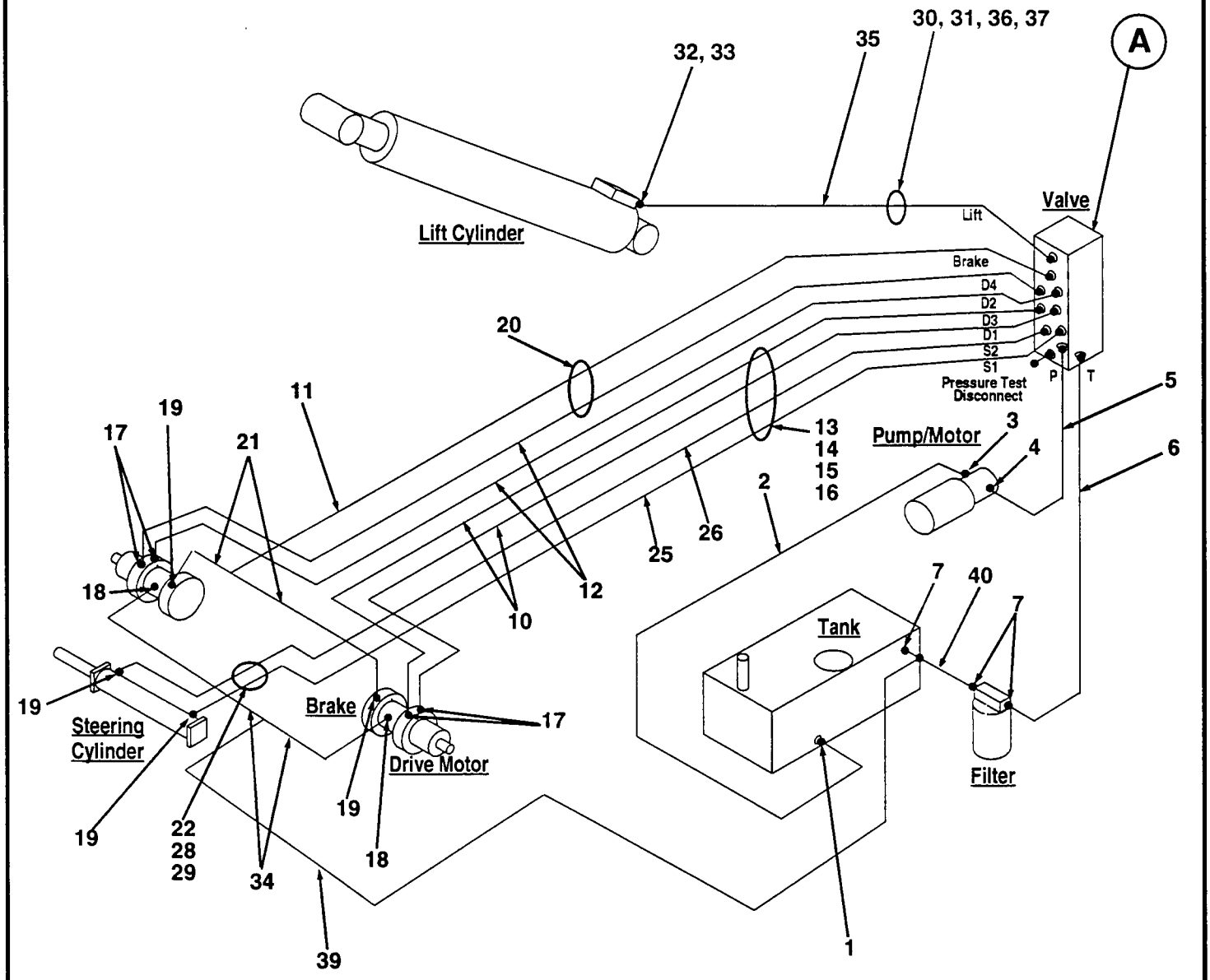
Ref.	Part No.	Description	Qty	Remarks
-	135620	Hydraulic Assembly - CH20WEP, CH26NEP/WEP	Ref.	Incl. items 1 thru 42
"A"	(Detail "A")	Fittings, Control Valve	Ref.	See Page 2.21
1	1219-283	Adapter	1	
2	212109-24	Hose	1	
3	1219-446	Adapter	1	
4	1219-776	Adapter	1	
5	212110-84	Hose	1	
6	212095-28	Hose	1	
7	1219-916	Adapter	1	
8	81450	Filter Assembly	1	See Page 3.33 for Details.
9	12019-292	Adapter, Union	1	
10	212110-67	Hose	2	
11	212386-84	Hose	2	
12	212110-64	Hose	2	
13	200B2007-15	Clamp	1	
14	1200-59	Capscrew, 3/8 NC x 1 GR5	1	
15	1209-4	Flat Washer, 3/8	1	
16	1205-194	Locknut, 3/8-16	1	
17	1219-978	Adapter	4	
18	1219-959	Adapter	3	
19	12019-548	Adapter, 90°	3	
20	1222-202	Cable Tie, Large	5	
21	212113-63	Hose	2	
22	16268	Clamp, Hose	1	
23	411-7	Rubber Molding, 7"	1	Not Shown
24	411-12	Rubber Molding, 12"	1	Not Shown
25	212378-30	Hose	1	
26	212378-36	Hose	1	
27	65655	Clamp, Cushioned	1	
28	1205-13	Nut, 1/4	2	
29	1200-1	Capscrew, 1/4NC x 3/4 GR5	2	
30	65655	Clamp, Cushioned	2	
31	1222-184	Cable Tie, Small	25	
32	80058-03	Reducer	1	
33	80018-03	Elbow, 45°	1	
34	212114-240	Hose	1	
35	212113-180	Hose	1	
36	1205-13	Nut, 1/4	2	
37	1200-1	Capscrew, 1/4NC x 3/4 GR5	2	
38	12019-264	Adapter	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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HYDRAULIC ASSEMBLY
CH30EP

Mark Industries



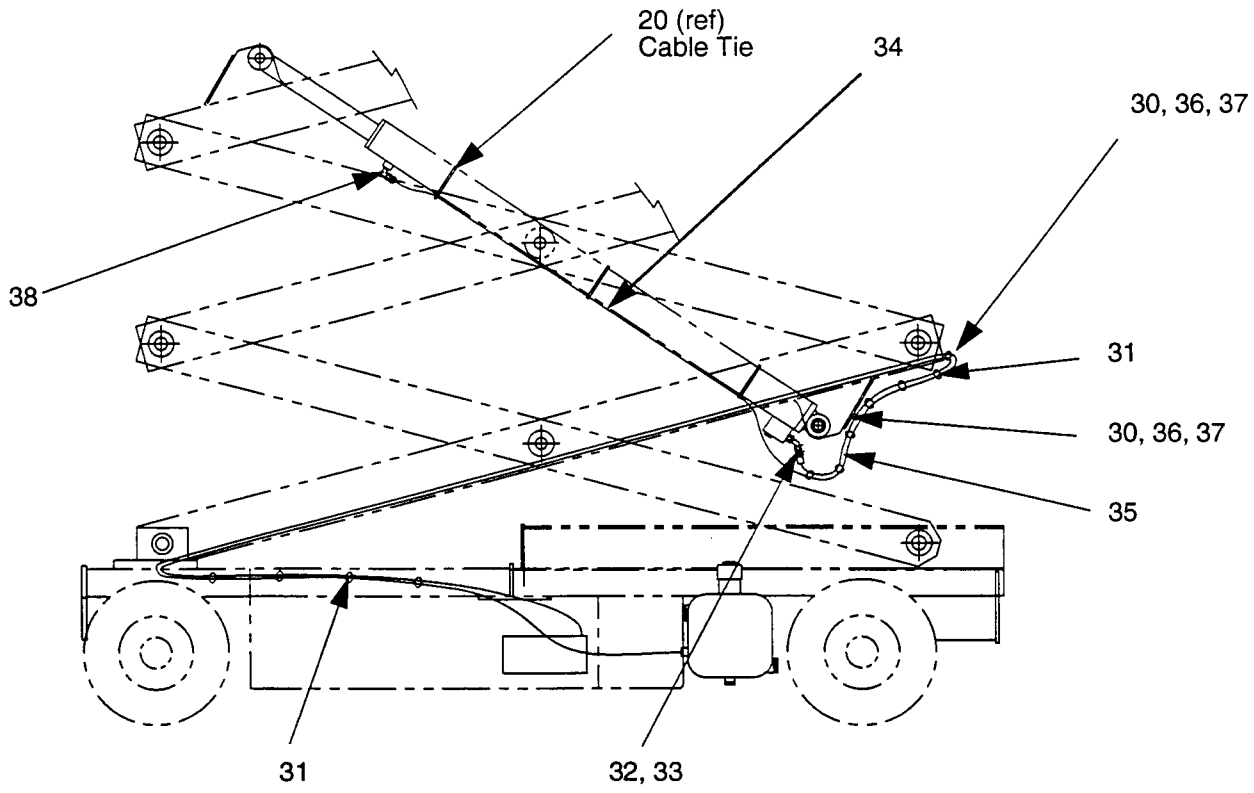
Ref.	Part No.	Description	Qty	Remarks
	135796	Hydraulic Assembly - CH30EP	Ref.	Incl. items 1 thru 42
"A"	(Detail "A")	Fittings, Control Valve	Ref.	See Page 2.21
1	1219-283	Adapter	1	
2	135796-15	Hose	1	
3	1219-446	Adapter	1	
4	1219-776	Adapter	1	
5	135796-16	Hose	1	
6	135796-13	Hose	1	
7	1219-916	Adapter	1	
8	81450	Filter Assembly	1	See Page 3.33 for Details.
9	12019-292	Adapter, Union	1	
10	135796-3	Hose	2	
11	135796-9	Hose	1	
12	135796-4	Hose	2	
13	200B2007-15	Clamp	1	
14	1200-59	Capscrew, 3/8 NC x 1 GR5	1	
15	1209-4	Flat Washer, 3/8	1	
16	1205-194	Locknut, 3/8-16	1	
17	1219-978	Adapter	4	
18	1219-959	Adapter	3	
19	12019-548	Adapter, 90°	3	
20	1222-202	Cable Tie, Large	5	
21	135796-7	Hose	2	
22	16268	Clamp, Hose	1	
23	411-7	Rubber Molding, 7"	1	Not Shown
24	411-12	Rubber Molding, 12"	1	Not Shown
25	135796-1	Hose	1	
26	135796-2	Hose	1	
27	65655	Clamp, Cushioned	1	
28	1205-13	Nut, 1/4	2	
29	1200-1	Capscrew, 1/4NC x 3/4 GR5	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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HYDRAULIC ASSEMBLY
CH30EP

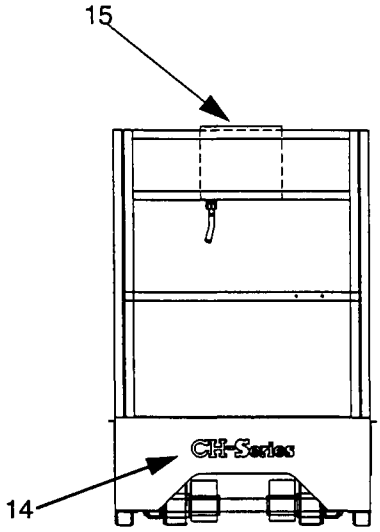
Mark Industries



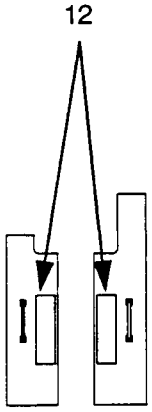
Ref.	Part No.	Description	Qty	Remarks
30	65655	Clamp, Cushioned	2	
31	1222-184	Cable Tie, Small	25	
32	80058-03	Reducer	1	
33	80018-03	Elbow, 45°	1	
34	135796-10	Hose	2	
35	135796-17	Hose	1	
36	1205-13	Nut, 1/4	2	
37	1200-1	Capscrew, 1/4NC x 3/4 GR5	2	
38	12019-264	Adapter	1	
39	135796-12	Hose	1	(Not Shown)
40	135796-14	Hose	1	(Not Shown)

DECALS & PAINT

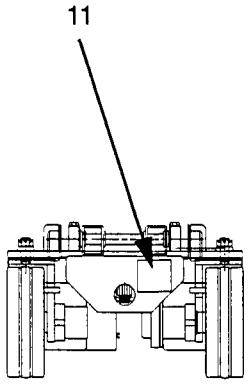
Mark Industries



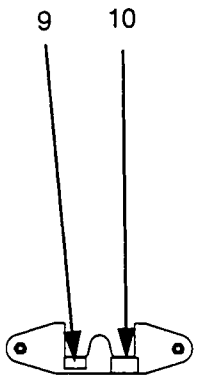
PLATFORM (FRONT VIEW)



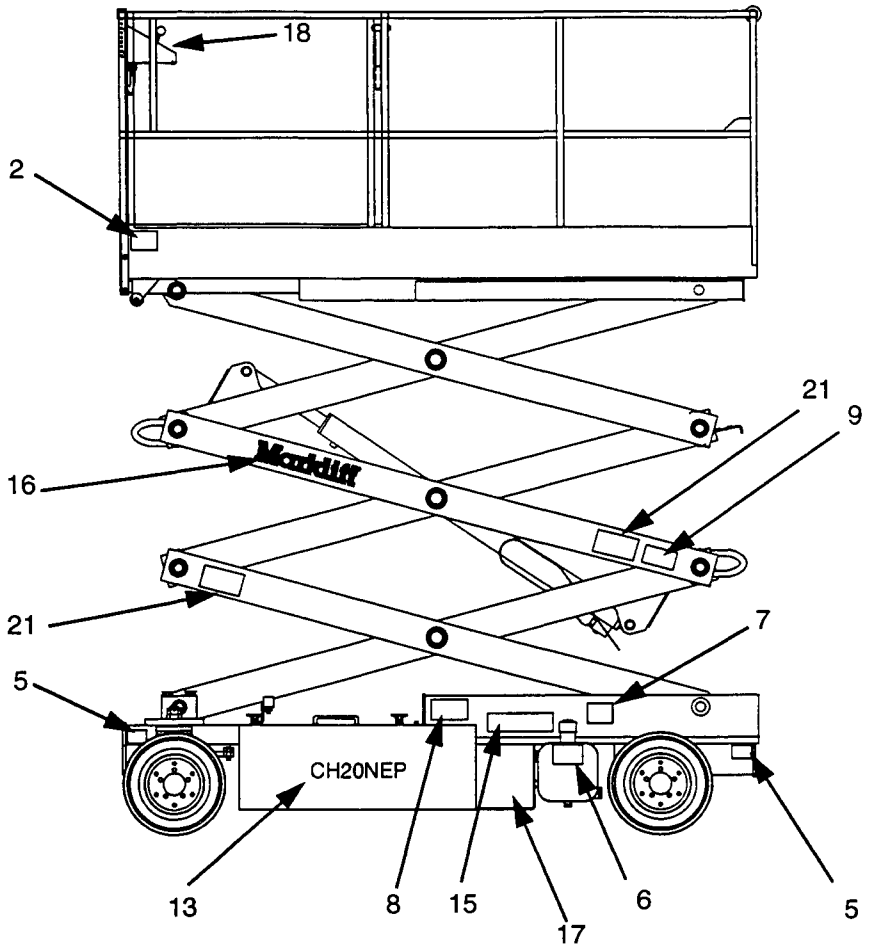
BATTERY BOX COVERS

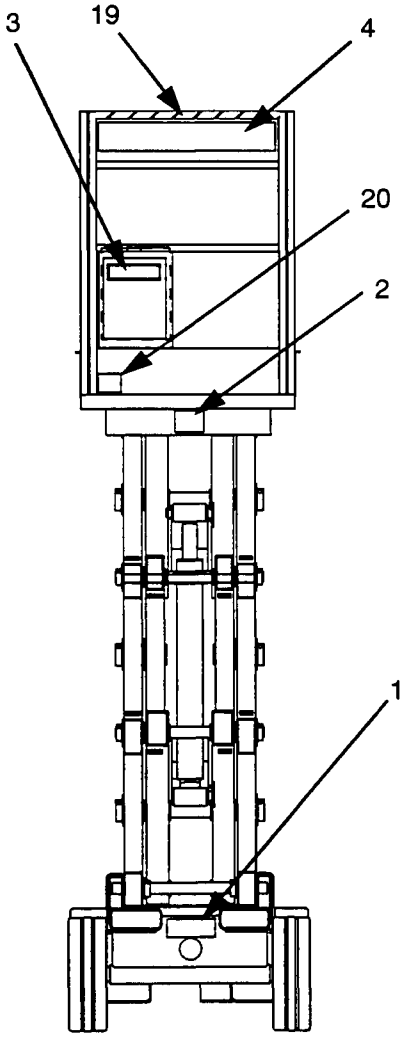


BASE (FRONT VIEW)



FRONT AXLE

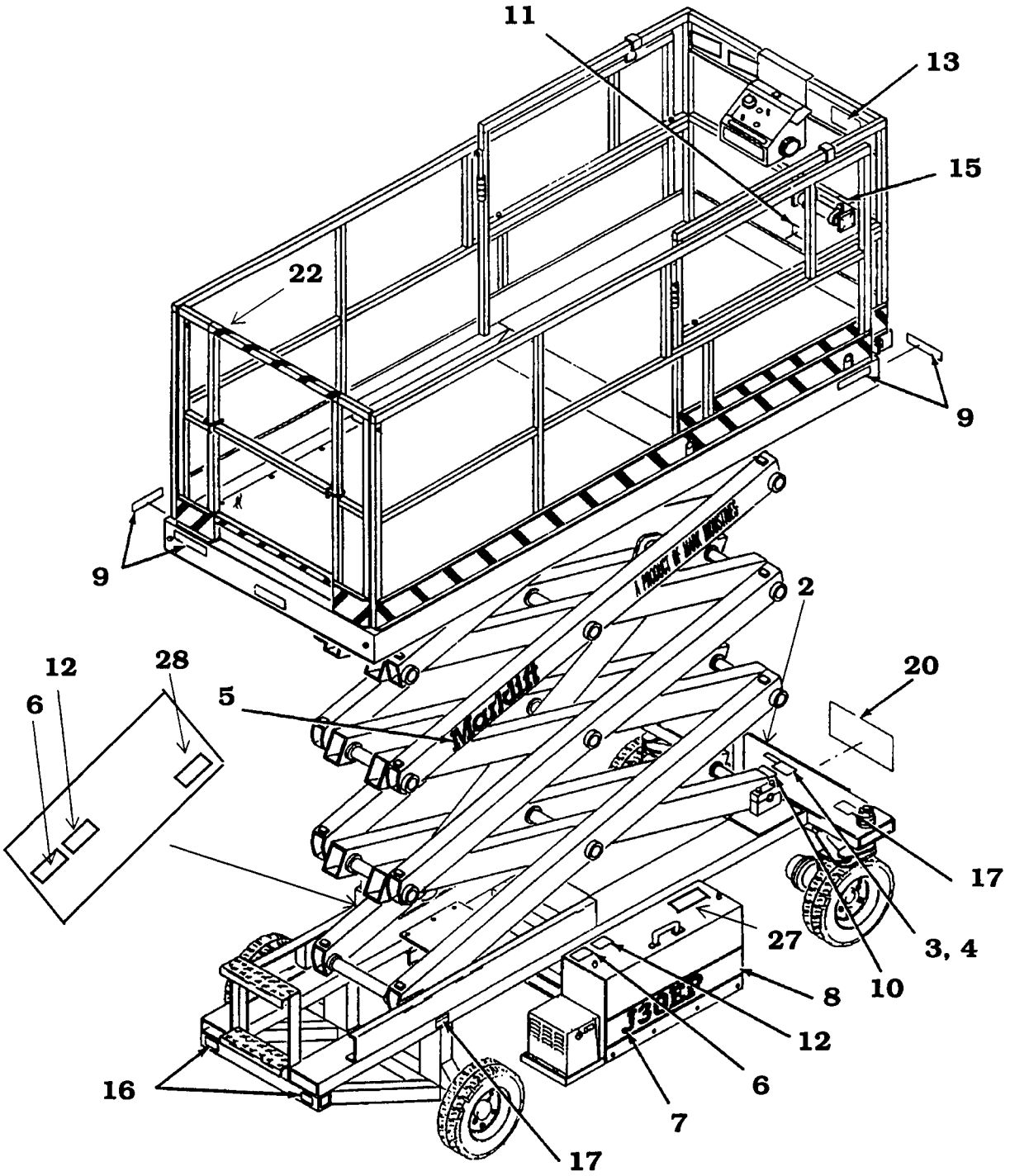




Ref.	Part No.	Description	Qty	Remarks
-	135309	Decals & Paint, CH20NEP	Ref.	Incl. items 1 thru 21
	135691	Decals & Paint, CH20WEP		
	135625	Decals & Paint, CH26NEP		
	135725	Decals & Paint, CH26WEP		
1	181824	Decal, Forklift Boot	1	
2	181312	Decal, Rated Work Load (CH20NEP)	3	
	181327	Decal, Rated Work Load (CH20WEP, CH26NEP)	3	
	181326	Decal, Rated Work Load (CH26WEP)	3	
3	181113	Decal, Operation & Safety Handbook	1	
4	181121	Decal, EP Deck (CH20NEP)	1	
	181122	Decal, EP Deck (CH20WEP, CH26NEP)	1	
	181123	Decal, EP Deck (CH26WEP)	1	
5	130949	Decal, Tire Replacement	4	
6	183402	Decal, Hydraulic Fluid	1	
7	12400-570	Decal, American Flag	2	
8	181314	Decal, Parking Brake	1	
9	181313	Decal, Service Stand	3	
10	181825	Decal, Emergency Lowering Valve	1	
11	181952	Name Plate ID, CH20NEP	1	
	181953	Name Plate ID, CH20WEP, CH26WEP	1	
	181971	Name Plate ID, CH26NEP	1	
12	181112	Decal, Battery Box	2	
13	181946	CH20NEP	2	Both Sides
	181966	CH20WEP	2	Both Sides
	181947	CH26NEP	2	Both Sides
	181967	CH26WEP	2	Both Sides
14	181933	Decal, CH Series	1	
15		See Aerial Control Box Assembly	Ref.	
16	181935	Decal, Marklift	2	
17		See Ground Control Box Assembly	Ref.	
18	182815	Decal, Aerial Control Box	1	
19	160137	Tape, Warning	2.28'	
20	185724	Decal, 110 VAC	1	
21	181328	Decal, Warning "Pinch Point..."	4	Both Sides
22	3900-146	Paint, White - Gallon	AR	3 Gal. Req'd
23	3900-130	Paint, Blue - Gallon	AR	1 Gal. Req'd
24	3900-115	Paint, White - Touch-Up	AR	
25	3900-131	Paint, Blue - Touch-Up	AR	

DECALS & PAINT

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	135790	Set, Decal (1000 lb. capacity, 18' drive cutout)	Ref.	
	135827-1	Set, Decal I (700 lb. capacity, full elev. drive)	Ref	
1	182778	Decal, Ground Control Panel	1	
2	181953	Name Plate	1	
3	181328	Decal, Pinch Point	4	
4	181301	Decal, Warning	1	
5	181935	Decal, Marklift	2	
6	181112	Decal, Battery Box	2	
7	181973	Decal, Machine Designation	2	
8	181313	Decal, Service Stand	2	
9	181325	Decal, Load Capacity (1000 lb. capacity Machines)	4	
	181331	Decal, Load Capacity (700 lb. capacity Machines)	4	
10	183402	Decal, Hydraulic System	1	
11	181314	Decal, Parking Brake	1	
12	181113	Decal, Operation & Maintenance	1	
13	181125	Decal, E.P. Deck (1000 lb. capacity Machines)	1	
	181127	Decal, E.P. Deck (700 lb. capacity Machines)	1	
15	185724	Decal, 110 VAC	1	
16	181824	Decal, Forklift Boot	1	
17	130949	Decal, 'Danger, This is a Solid...'	4	
20	130933	Decal,CH Series	1	
22	160137	Tape, Warning (Blue w/Yellow Stripe)	1	2.3 Ft. Long
27	12400-570	Decal, Flag	1	
28	181825	Decal, Emergency Valve	1	

NOTES

SECTION 3 CONTAINS:

PAGE	TITLE
3.2 & 3.10	BASE ASSEMBLY
3.4	CONTROL BOX
3.5	COMPONENT BOX
3.6	STEERING & DRIVE MOTOR ASSEMBLY
3.8	PUMP/MOTOR MOUNTING
3.9	TIRE & WHEEL ASSEMBLY
3.15	HUB ASSEMBLY
3.21	DRIVE MOTOR ASSEMBLY WITH BRAKE ASSEMBLY - CH20NEP
3.22	DRIVE MOTOR ASSEMBLY - CH20NEP
3.24	DISC BRAKE
3.26	PUMP/MOTOR ASSEMBLY - CH20WEP, CH26NEP/WEP, CH30EP
3.27	PUMP/MOTOR ASSEMBLY - CH20NEP
3.28	STEERING CYLINDER
3.33	FILTER ASSEMBLY
3.34	GROUND CONTROL PANEL ASSEMBLY
3.36	BATTERY CHARGER
3.39	BATTERY CABLE KIT
3.40	CONTROL VALVE ASSEMBLY - CH20WEP, CH26NEP/WEP
3.44	DRIVE MOTOR & BRAKE ASS'Y - CH20WEP, CH26NEP/WEP, CH30EP

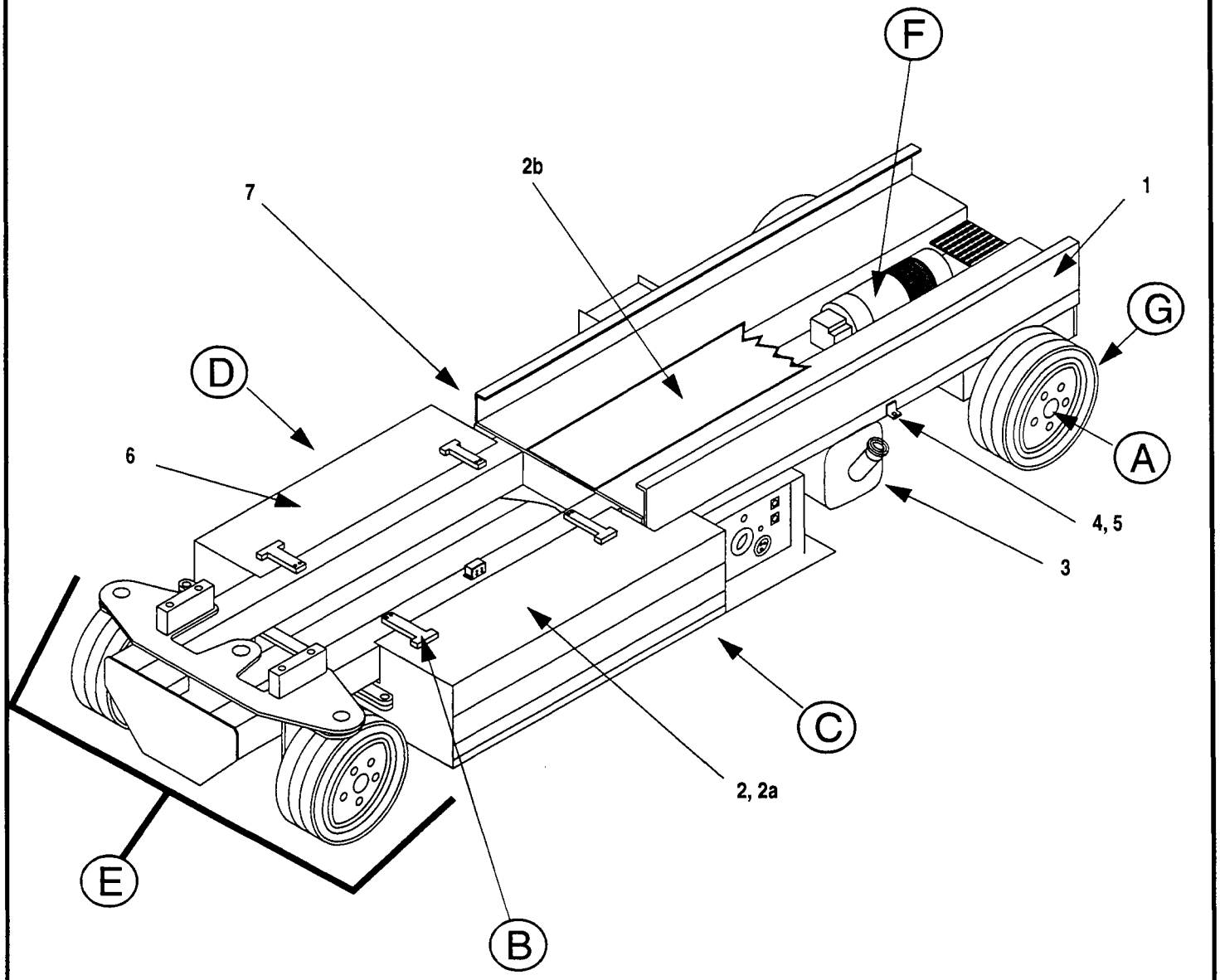
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

BASE ASSEMBLY

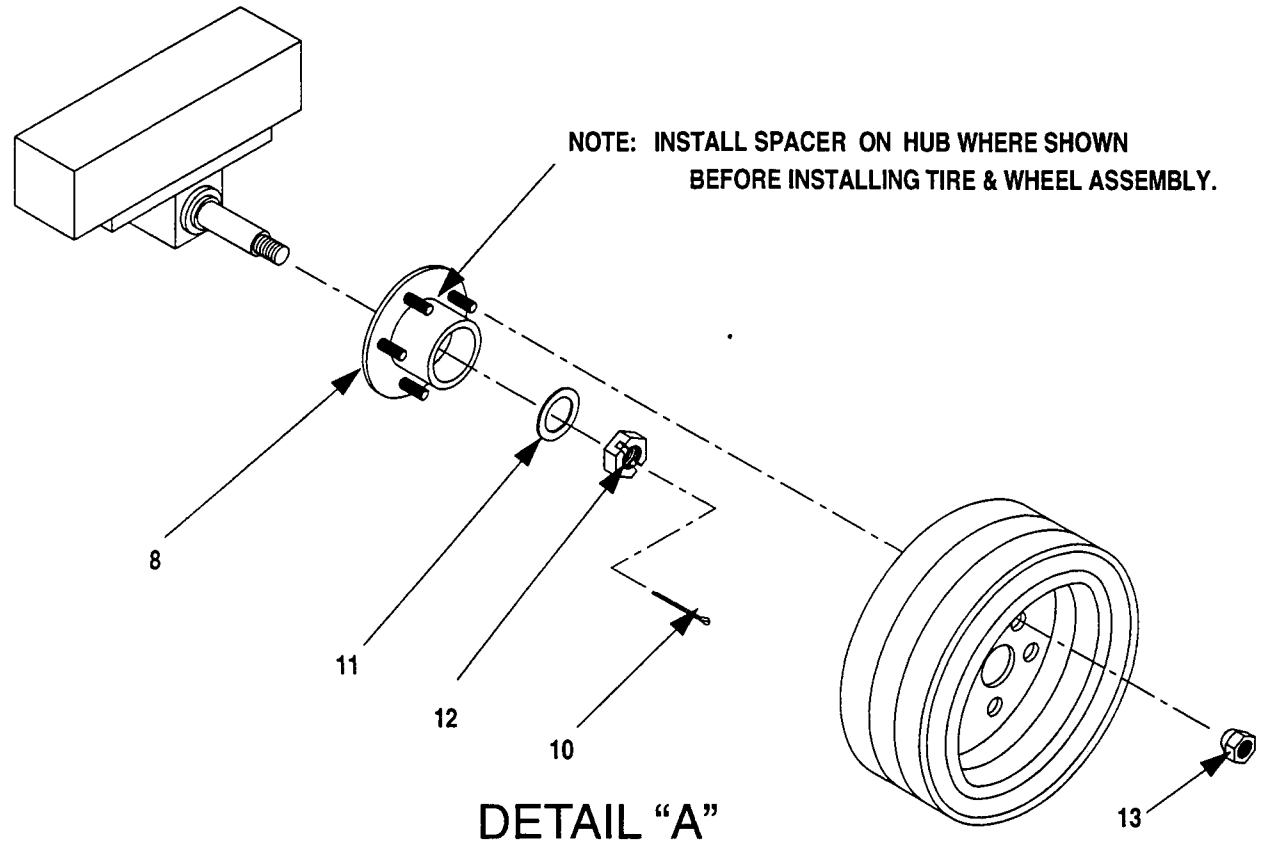
CH20NEP/WEP, CH26NEP/WEP

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
-	135704	Assembly, Base - CH20NEP	Ref.	Incl. 1 thru 69
	135618	Assembly, Base - CH20WEP, CH26NEP		
		Assembly, Base - CH26WEP	Ref.	
"A"	(Detail "A")	Hub Assembly	Ref.	See Page 3.3 for Details.
"B"	(Detail "B")	Latch Assembly	Ref.	See Page 3.4 for Details.
"C"	(Detail "C")	Control Box Assembly	Ref.	See Page 3.4 for Details
"D"	(Detail "D")	Component Box Assembly	Ref.	See Page 3.5 for Details
"E"	(Detail "E")	Steering & Drive Assembly	Ref.	See Page 3.6 for Details.
"F"	(Detail "F")	Pump/Motor Mounting Assembly	Ref.	See Page 3.8 for Details.
"G"	(Detail "G")	Wheel & Tire Assembly	Ref.	See Page 3.9 for Details.

BASE ASSEMBLY



DETAIL "A"

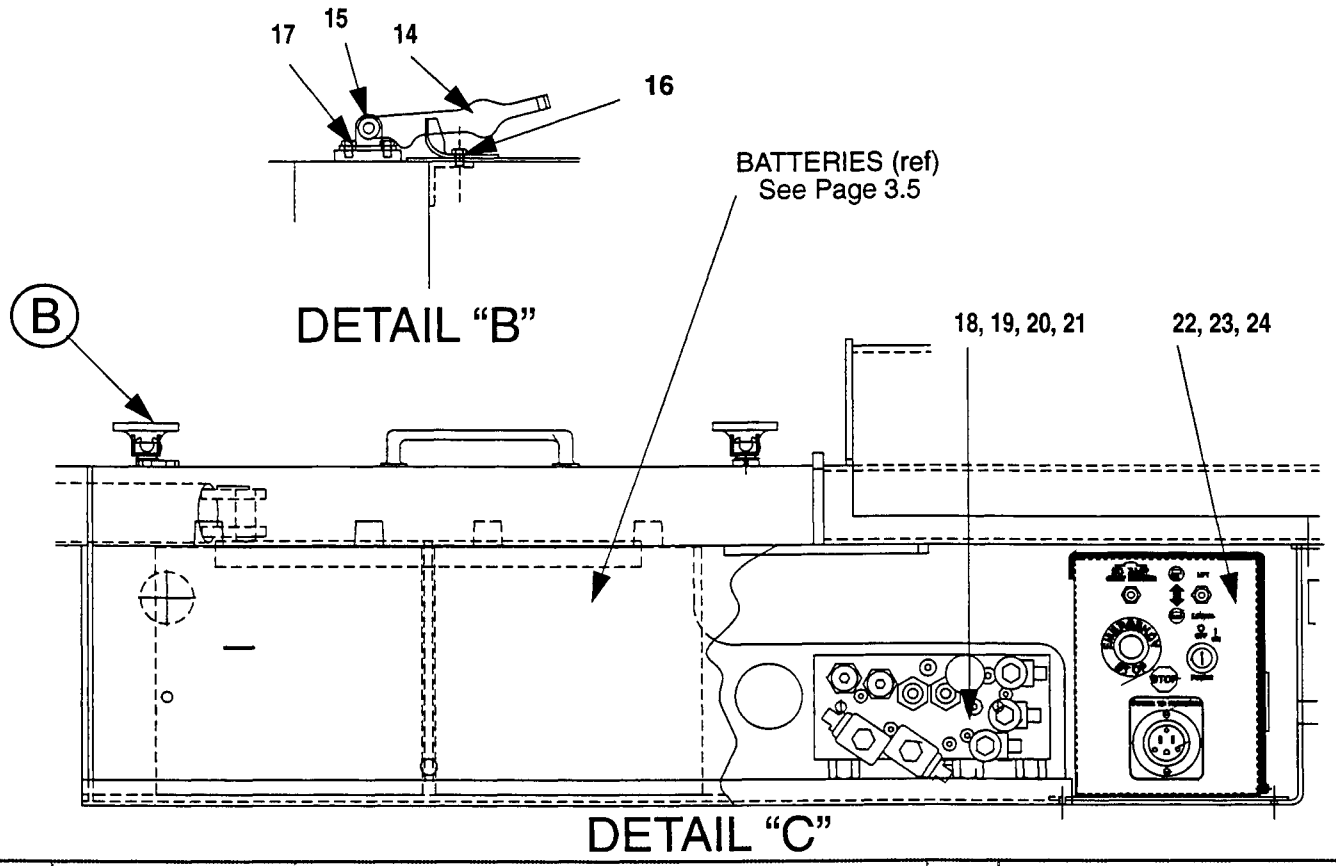
Ref.	Part No.	Description	Qty	Remarks
"A"	(Detail "A")	Hub Assembly	Ref.	
1	135260	Weldment, Base - CH20NEP	1	
	135603	Weldment, Base - CH20WEP, CH26NEP	1	
	135560	Weldment, Base - CH26WEP	1	
2	135283	Valve Cover, LH - CH20NEP	1	
	135594	Valve Cover, LH - CH20WEP, CH26NEP	1	
2a	135766	Wire Harness	1	
2b	135635	Cover - CH20WEP, CH26NEP, CH26WEP	1	
3	135646	Hydraulic Tank	1	
	69952	Cap w/Dipstick	1	
	69953	Strainer	1	
4	135247	Tank Strap	2	
5	1205-194	Locknut, Hex 3/8-16	4	
6	135282	Battery Cover, RH - CH20NEP	1	
	135596	Battery Cover, RH - CH20WEP, CH26NEP	1	
7	70789	Battery Charger	1	See Page 3.36 for Details.
8	134	Assembly, Hub	2	See Page 3.15 for Details.
10	1207-15	Cotter Pin	2	
11	1209-30	Flat Washer, 1"	2	
12	60811	Nut, Castle, 1-14	2	
13	61316	Wheel Nut, 1/2-20 (Total of 20 per machine)	10	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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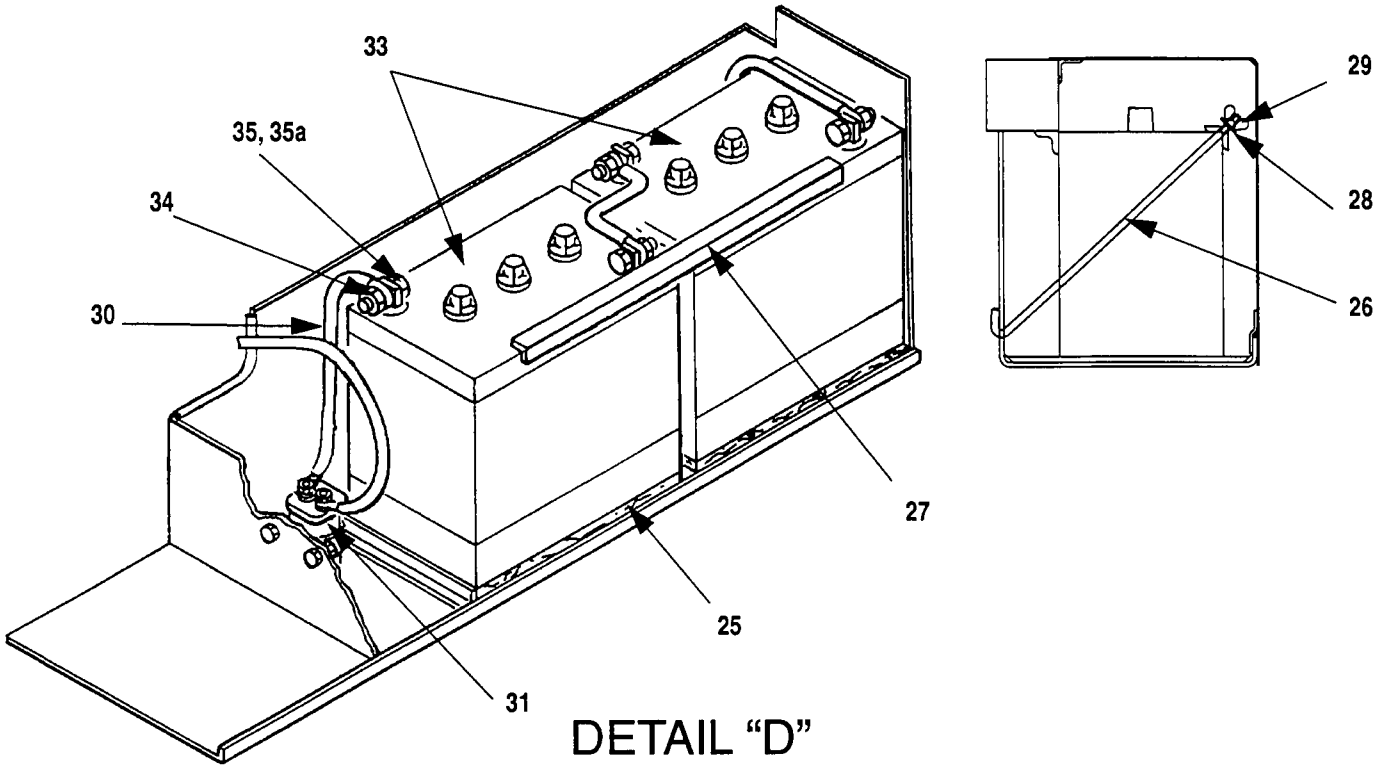
CONTROL BOX

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
"B"	(Detail B")	Latch Assembly	Ref.	
14	372 3041	Latch, Flexible Draw - CH20NEP	4	
	160697	Latch, Flexible Draw - CH20WEP, CH26NEP	4	
15	160698	Keeper - CH20WEP, CH26NEP	4	
	160700	Pin -CH20WEP, CH26NEP	4	
	160701	Cotter Pin - CH20WEP, CH26NEP	4	
16	1233-70	Capscrew, #10-32 x 3/8	8	
	1205-155	Locknut, Hex #10-32	16	
17	311 1635	Screw, Machine - CH20NEP	8	
"C"	(Detail "C")	Control Box Assembly	Ref.	
18	81478	Control Valve	1	See Page 3.40 for Details.
19	1210-20	Lockwasher, 3/8	2	
20	1200-57	Capscrew 3/8NC x .75	2	
21	1209-4	Flat Washer, 3/8	2	
22	135764	Assembly, Ground Control Panel	1	See Page 3.34 for Details.
23	1210-14	Lockwasher, 1/4	4	
24	1200-1	Screw, Machine 1/4 x .75	4	

COMPONENT BOX



DETAIL "D"

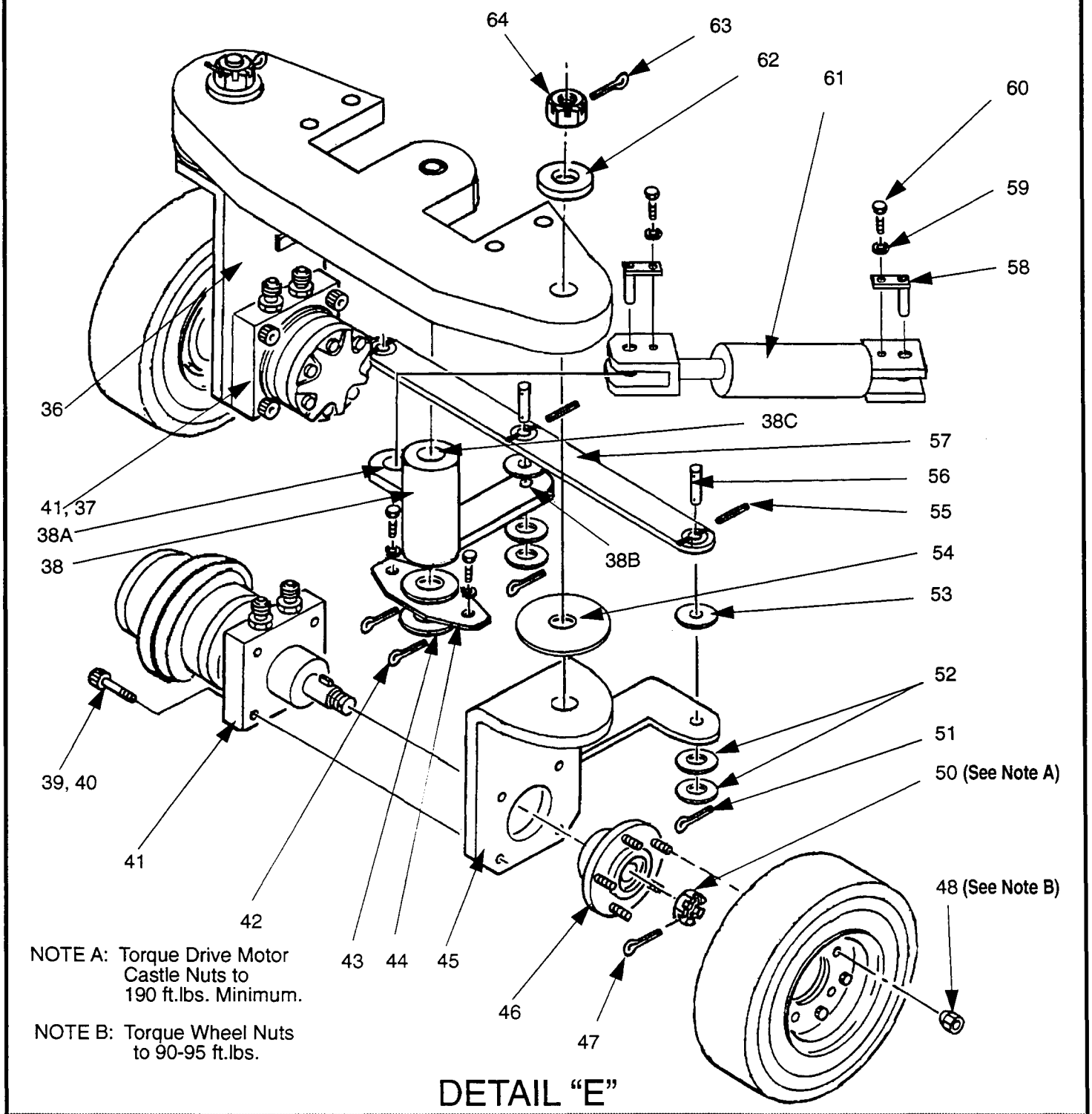
Ref.	Part No.	Description	Qty	Remarks
"D"	(Detail "D")	Component Box Assembly	Ref.	
25	131570	Plywood Base, Battery	4	
26	135298	Hook Bolt, Battery Hold Down	2	
27	135299	Battery Hold Down (Angle)	2	
28	330 1802	Flat Washer	2	
29	1231-2	Wing Nut, 5/16-18	2	
30	70819	Battery Cable Kit	1	See Page 3.39 for Details.
31	70362	Relay	1	
32	70812	Battery Boot, Red (Not Shown)	10	
33	70818	Battery, 6V 220 AMP - CH20NEP	4	See Note Below.
	4007	Battery, 6V 250 AMP - CH20WEP, CH26NEP/WEP	4	See Note Below.
	NOTE:	Batteries may only be shipped "dry". Electrolite must be added at time of installation.		
34	61246	Locknut, 5/16-18 Nylon Insert	8	
35	63205	Capscrew, Square Head 6-18 UNC x 1	8	
35a	65681	Washer, Star	8	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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STEERING & DRIVE ASSEMBLY

Mark Industries



NOTE A: Torque Drive Motor Castle Nuts to 190 ft.lbs. Minimum.

NOTE B: Torque Wheel Nuts to 90-95 ft.lbs.

DETAIL "E"

Ref.	Part No.	Description	Qty	Remarks
"E"	(Detail "E")	Steering and Drive Assembly	Ref.	
36	135278	Steering Bracket. R.H. - CH20NEP	1	
	135278-2	Steering Bracket. R.H. - CH20WEP,CH26NEP/WEP	1	
37	135143	Drive Motor - (CH20NEP only)	1	See Page 3.22 for Details.

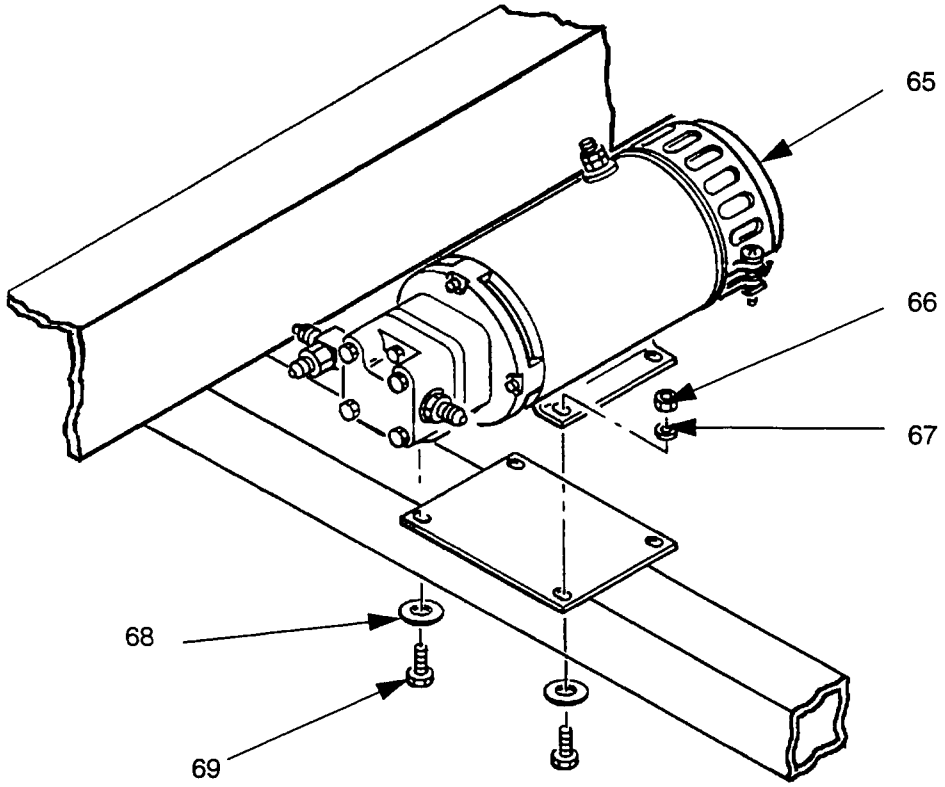
Ref.	Part No.	Description	Qty	Remarks
38	135301	Bell Crank	1	Incl. Items 38A, 38B, 38C.
38A	64941	Bushing, Bell Crank (short ear)	1	
38B	64939	Bushing, Bell Crank (long ear)	1	
38C	1214-131	Bushing, Bell Crank	2	
39	1200-110	Capscrew, .50 UNC x 2.50	8	
40	1210-26	Lockwasher, .50	8	
41	135297	Drive Motor w/Brake - CH20NEP	1	See Page 3.21 for Details.
	81477	Drive Motor w/Brake	2	See Page 3.44 for Details.
		CH20WEP, CH26NEP/WEP		(Used on both sides)
41A	135702	Guard - CH20WEP, CH26NEP, CH26WEP	2	
42	1207-43	Cotter Pin, .25 x 2.25	2	
43	1208-36	Bushing, Machine	1	
44	135286	Plate	1	
45	135254	Steering Bracket, L.H. - CH20NEP	1	
	135254-2	Steering Bracket, L.H. - CH20WEP,CH26NEP/WEP	1	
46	135294	Assembly, Drive Hub	2	Incl. Studs * & Hub *
	30309	Stud, Wheel	5	* (Qty 5 per Drive Hub)
	135287	Hub, Less Studs	1	*
47	1207-15	Cotter Pin	2	
48	61316	Wheel Nut, 1/2-20 (Total of 20 per machine)	10	
50	65174	Nut, Castle, 1-20	2	
51	1207-12	Cotter Pin, 1/8 x 1	3	(Qty 1 each location)
52	1208-3	Bushing, Machinery	6	(Qty 2 each location)
53	401 6419	Thrust Washer	3	(Qty 1 each location)
54	135183	Thrust Washer	2	(Qty 1 each location)
55	1227-153	Roll Pin, 5/32 x 1-3/8	3	
56	135280	Pin	3	
57	135281	Link - CH20NEP	1	
	135628	Link - CH20WEP, CH26NEP	1	
	135729	Link - CH26WEP	1	
58	20252	Pin, Steering Cylinder	2	
59	1210-14	Lockwasher, 1/4	2	
60	1200-309	Capscrew, 1/4-20 x .5	2	
61	135666	Cylinder,Steering	1	See Page 3.28 for Details.
62	400 7427	Bearing, Thrust	2	
63	1207-58	Cotter Pin	2	
64	1205-163	Nut, Slotted Hex	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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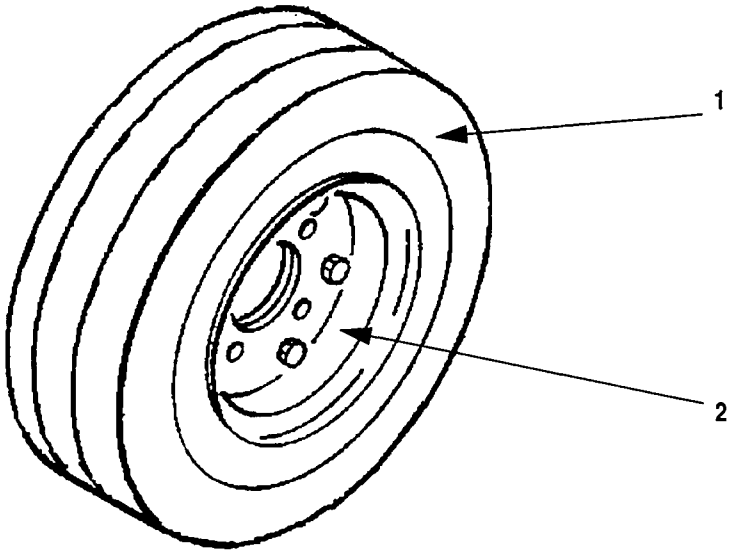
PUMP/MOTOR MOUNTING

Mark Industries



DETAIL "F"

Ref.	Part No.	Description	Qty	Remarks
"F'	(Detail "F")	Pump/Motor Mounting Assembly	Ref.	
65	81311	Pump/Motor - CH20NEP	1	See Page 3.27 for Details.
	81479	Pump/Motor - CH2OWEP, CH26NEP/WEP	1	See Page 3.26 for Details.
66	1205-36	Nut, Hex 3/8NC	4	
67	1210-20	Lockwasher, 3/8	4	
68	1209-4	Flat Washer, 3/8	4	
69	1200-57	Capscrew 3/8NC x .75	4	



DETAIL "E" (CH30EP)
DETAIL "G" (CH20NEP/WEP, CH26NEP/WEP)

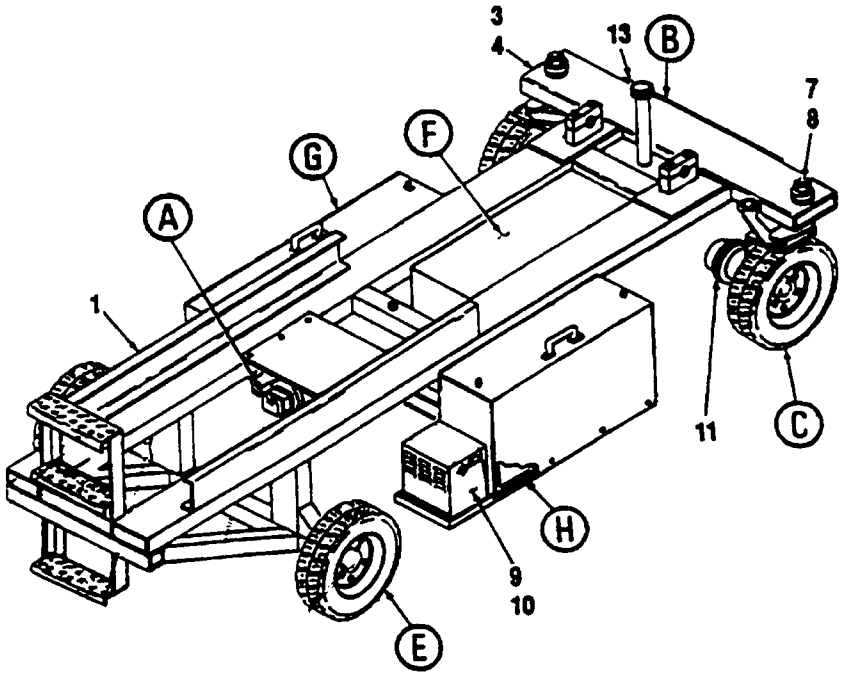
Ref.	Part No.	Description	Qty	Remarks
"G"	(Detail "G")	Wheel & Tire Assembly	Ref.	
Ref.	135235 - 1	Assembly, Tire & Wheel (Standard)	4	Incl. items 1 & 2.
1	135234	Tire	1	(Qty 1 Per Assembly)
2	131631	Wheel	1	(Qty 1 Per Assembly)
Ref.	135235-2	Ass'y, Tire & Wheel (Non-Marking, Optional)	4	Incl. items 1 & 2.
1	135318	Tire (Non-Marking)	1	(Qty 1 Per Assembly)
2	131631	Wheel	1	(Qty 1 Per Assembly)

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

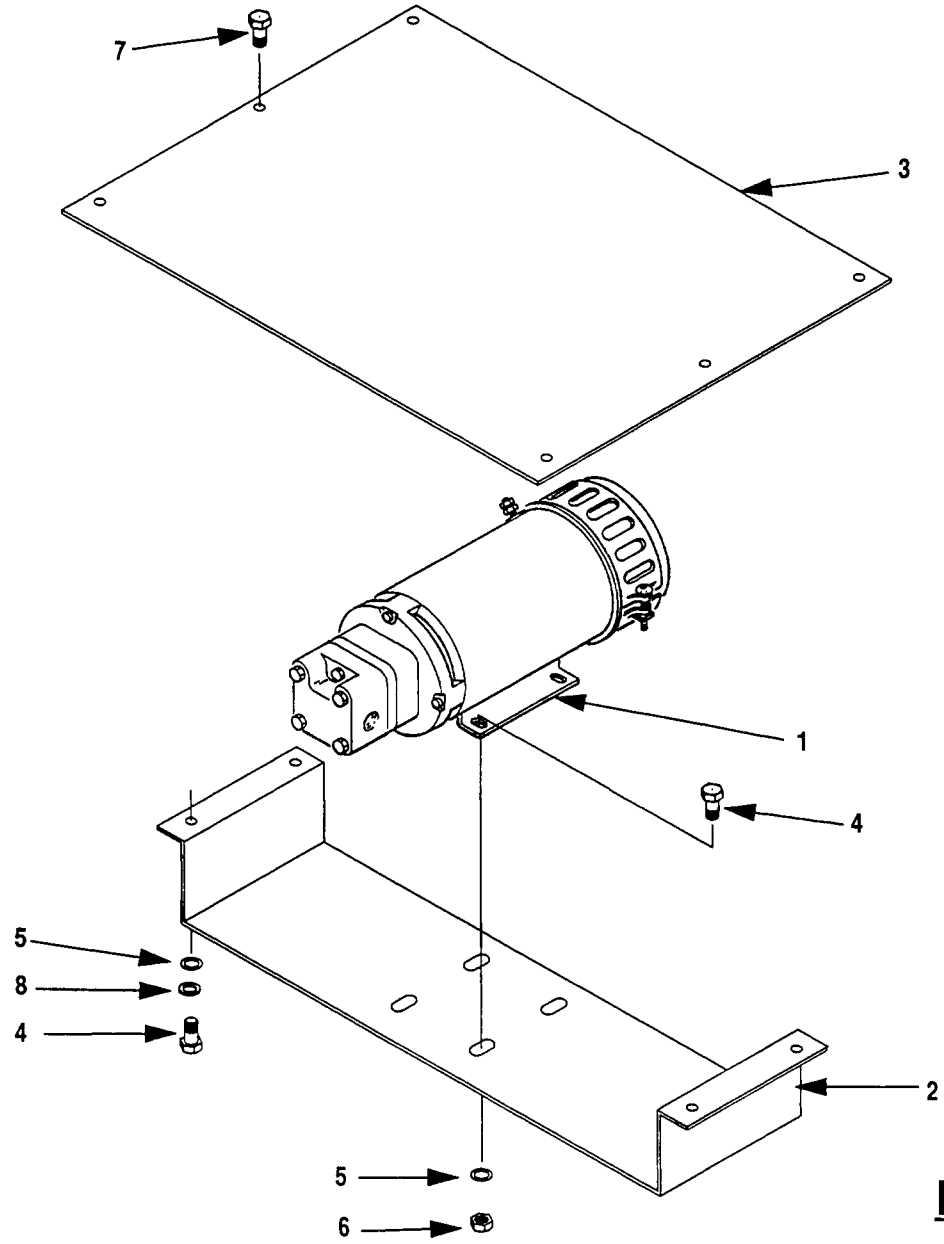
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BASE ASSEMBLY

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
-	135794	Assembly, Frame (1000 lb. capacity, 18' drive cutout)	Ref	
-	135825	Assembly, Frame (700 lb. capacity, full elev. drive)	Ref	
A	(Detail "A")	Pump and Motor Assembly	Ref.	See Page 3.11
B	(Detail "B")	Steering and Drive Assembly	Ref.	See Page 3.12
C	(Detail "C")	Front and Rear Hub	Ref.	See Page 3.15
D	(Detail "D")	Assembly, Battery	Ref.	See Page 3.20
E	(Detail "E")	Tire and Wheel	Ref.	See Page 3.9
F	(Detail "F")	Hydraulic Tank	Ref.	See Page 3.17
G	(Detail "G")	Assembly, Control Box	Ref.	See Page 3.18
H	(Detail "H")	Assembly, Component Box	Ref.	See Page 3.19
1	134458	Weldment, Frame(1000 lb. capacity, 18' drive cutout)	1	
	135826	Weldment, Frame (700 lb. capacity, full elev. drive)	1	
4	160158	Bearing	4	
7	131670	Washer, Spindle	2	
8	61310	Locknut	2	
9	70789	Charger, Battery	1	See Pages 3.36
10	61239	Locknut	4	
	1209-44	Flatwasher	4	
11	81477	Brake, Multiple Disc	Ref.	See Pages 3.24



DETAIL "A"

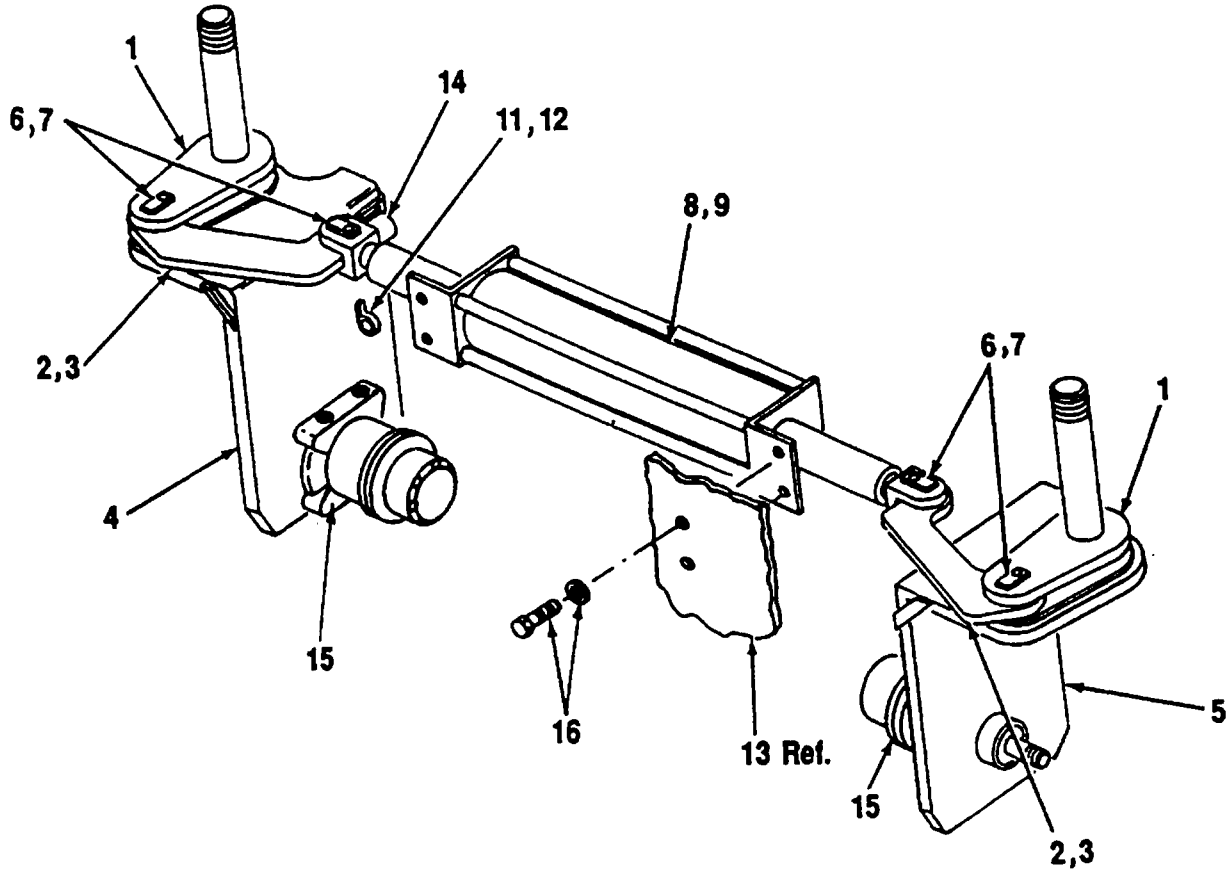
Ref.	Part No.	Description	Qty	Remarks
"A"	(Detail "A")	Pump & Motor Assembly	Ref.	
1	81479	Pump/Motor	1	See Page 3.26
2	133461	Bracket	1	
3	133462	Cover	1	
4	1200-31	Capscrew, 5/16C x 1	8	
5	1209-46	Flatwasher, 5/16	8	
6	61246	Locknut, 5/16C	4	
7	1200-309	Capscrew, 1/4C x 1/2	6	
8	1210-17	Lockwasher	4	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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STEERING AND DRIVE ASSEMBLY

Mark Industries



DETAIL "B"

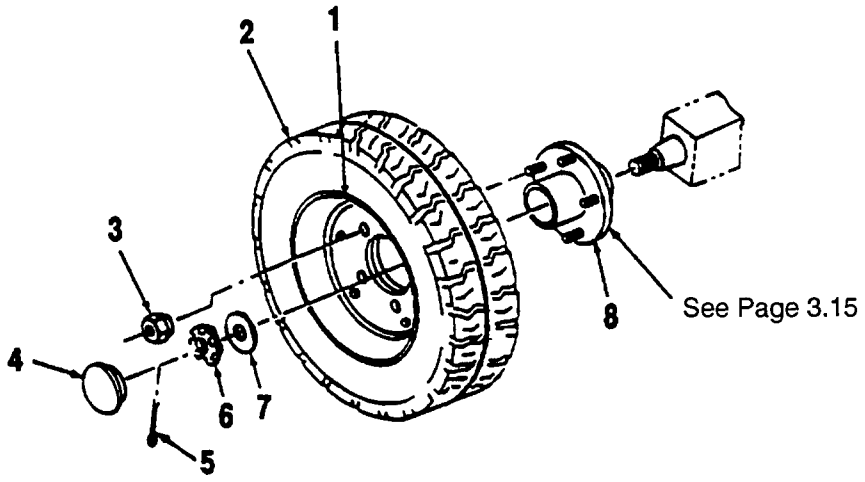
Ref.	Part No.	Description	Qty	Remarks
"B"	(Detail "B")	Steering & Drive Assembly	Ref.	
1	131669	Spindle, Bearing Thrust	2	
2	133469	Machining, Arm Linkage with Bushing	2	
3	160161	Bushing	4	
4	135805	Weldment, Steering Lever (L.H.)	1	
5	135806	Weldment, Steering Lever (R.H.)	1	
6	131616	Pin, Steering	4	
7	1200-314	Capscrew	4	
	63302	Lockwasher	4	
8	133451	Cylinder, Steering Assembly	1	See Page 3.28
9	67866	Clevis, Rod	2	
11	160203	Clip, Wire Loom	2	
12	1200-334	Capscrew	2	
13	133458	Weldment, Front Plate	Ref.	See page 3.3
14	131860	Cover, Steering Bracket	2	
15	62005	Capscrew	8	
	362 2610	Nut	8	
16	310 2861	Capscrew	2	
	1210-26	Lockwasher	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

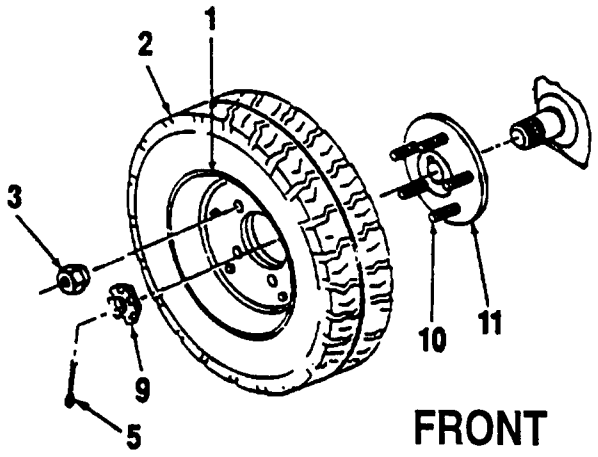
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TIRE & WHEEL ASSEMBLY

Mark Industries



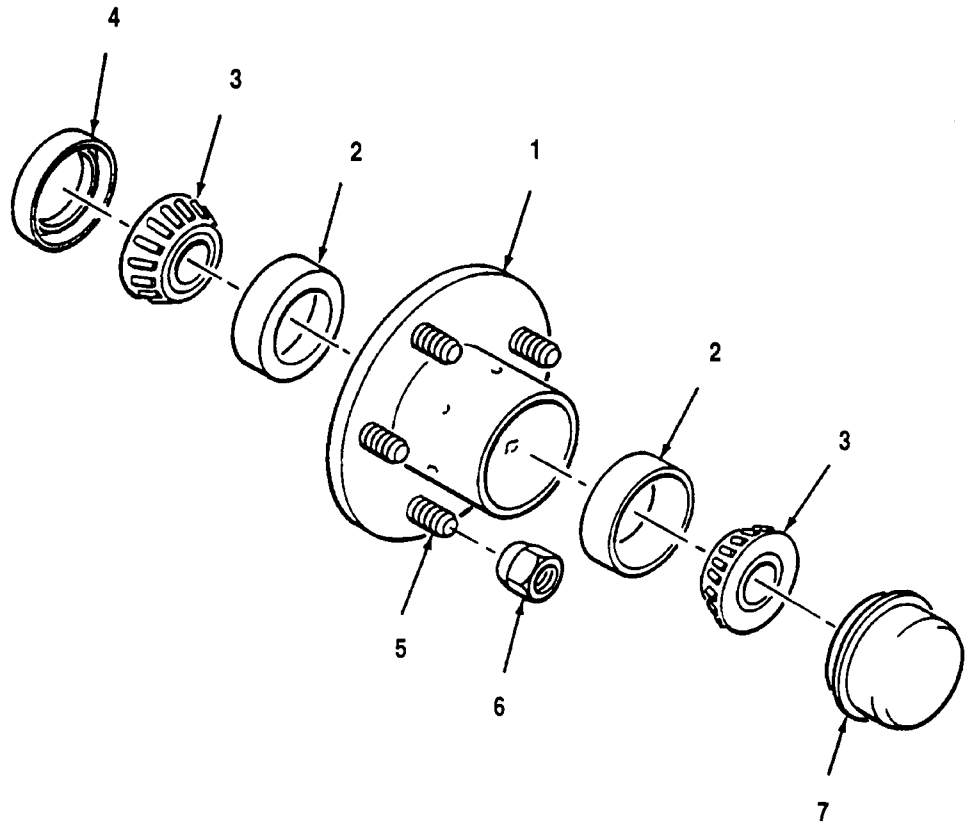
REAR



DETAIL "C"

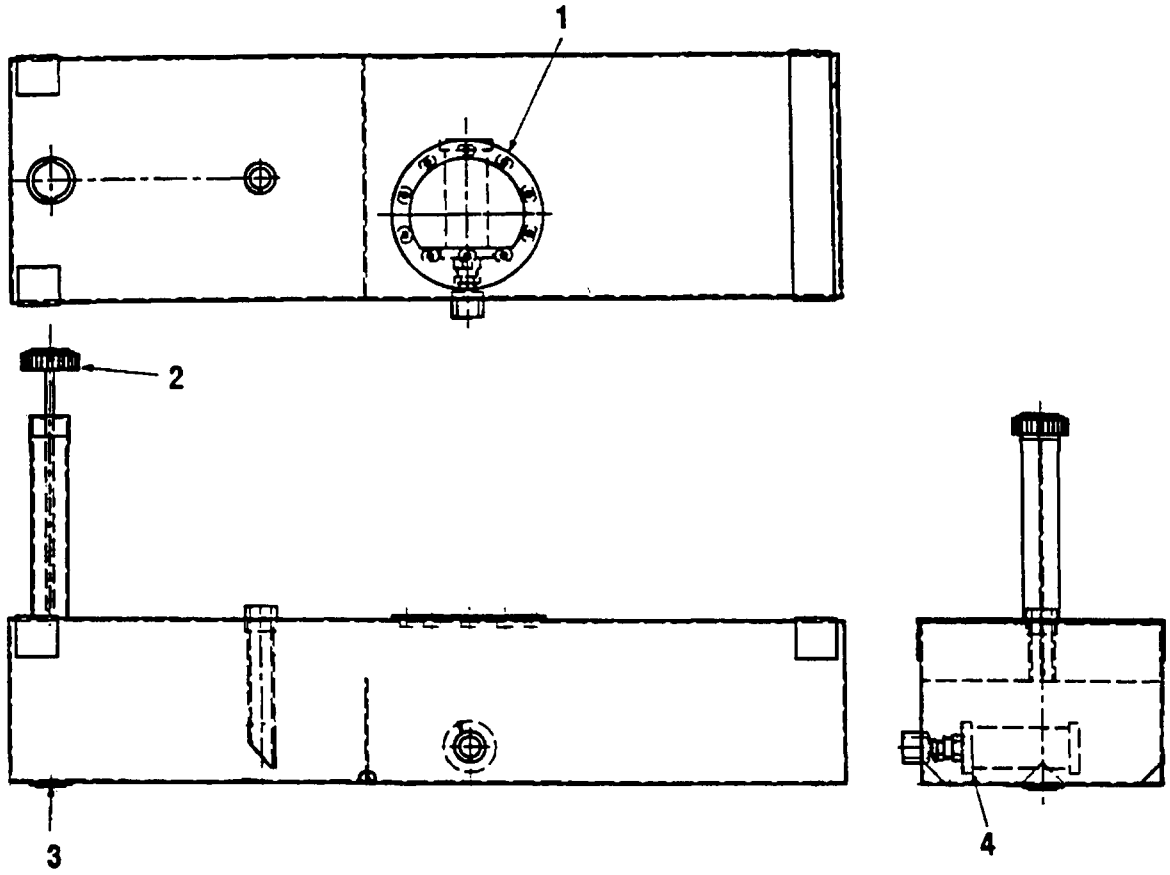
FRONT

Ref.	Part No.	Description	Qty	Remarks
"C"	(Detail "C")	Front & Rear Hub	Ref.	
1		Wheel	4	
2		Tire	4	See Page 3.9
3	61316	Nut, Wheel	20	
4	137	Cap, Dust	2	
5	1207-15	Pin, Cotter	4	
6	60811	Nut, Hex	2	
7	1209-30	Washer, Flat	2	
8	134	Assembly, Hub	2	See Page 3.15
9	65174	Nut, Jam	2	
10	30309	Stud, Wheel	20	
11	135294	Hub, Drive	2	



Ref.	Part No.	Description	Qty	Remarks
-	134	Assembly, Hub	Ref.	Incl. items 1 thru 7
1	65684	Hub	1	
2	65686	Race, Bearing	2	
3	65059	Bearing	2	
4	66113	Seal, Grease	1	
5	65685	Studs, Wheel	5	
6	61316	Nut, Lug	5	
7	137	Dust Cap	1	

NOTES



DETAIL "F"

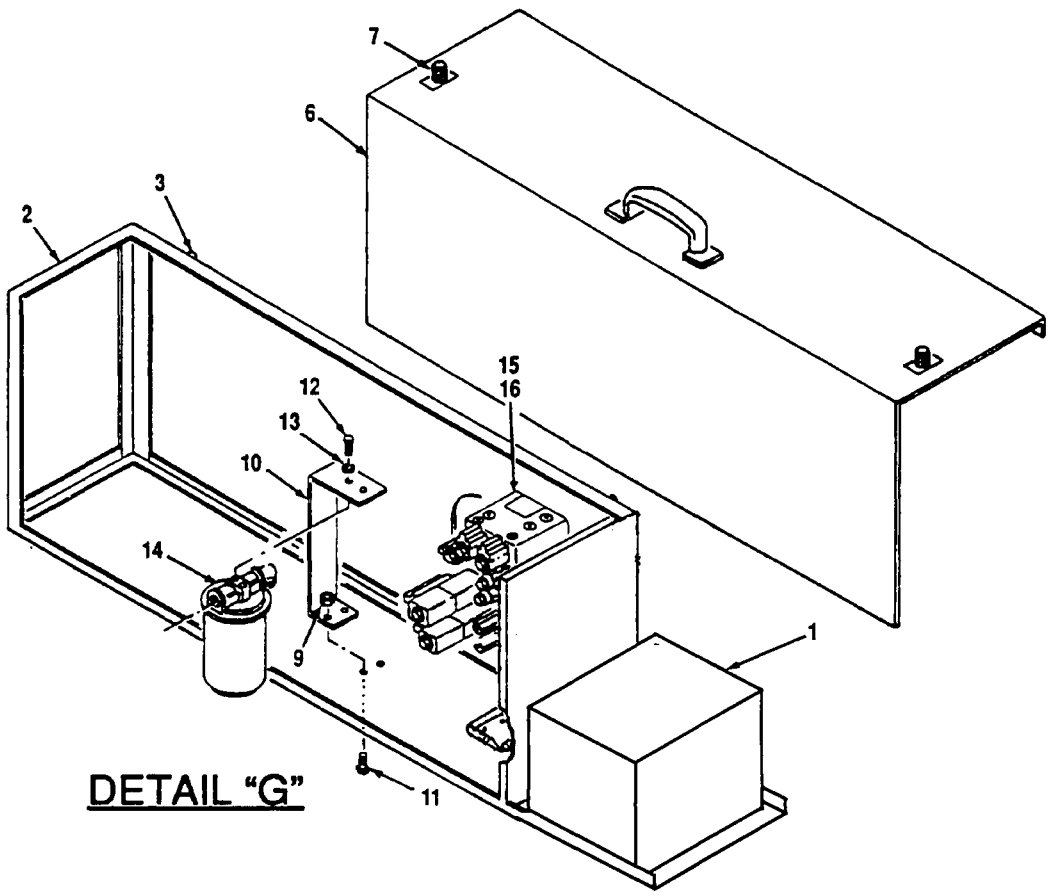
Ref.	Part No.	Description	Qty	Remarks
"F"	(Detail "F")	Hydraulic Tank	Ref.	
	133468	Tank, Hydraulic - Complete	1	Incl. Items 1 thru 4
1	600401	Plate, Cover	1	
2	600402	Fill Cap w/Dipstick	1	
3	600403	Plug, Magnetic	1	
4	69858	Strainer	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

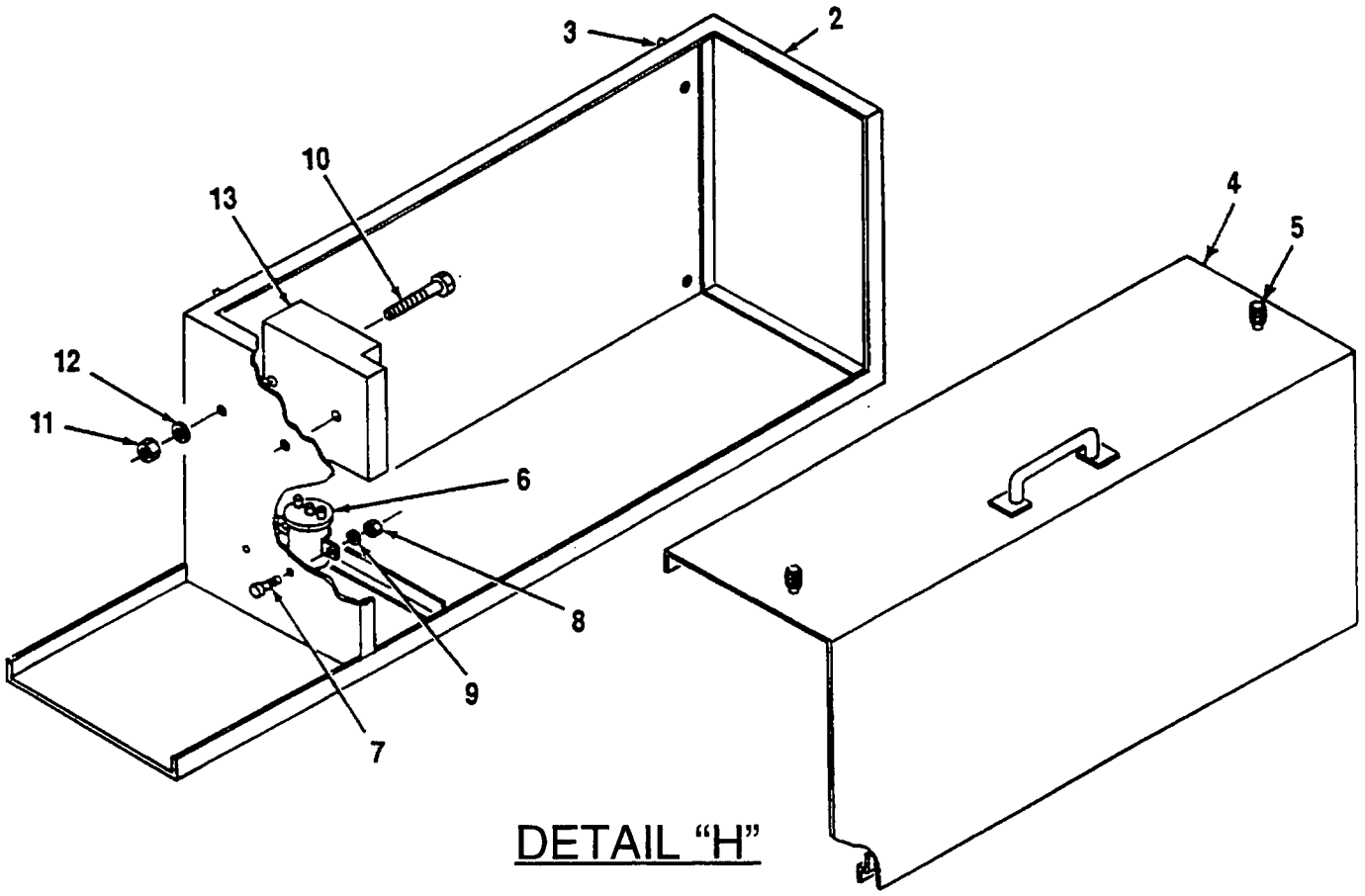
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CONTROL BOX

Mark Industries



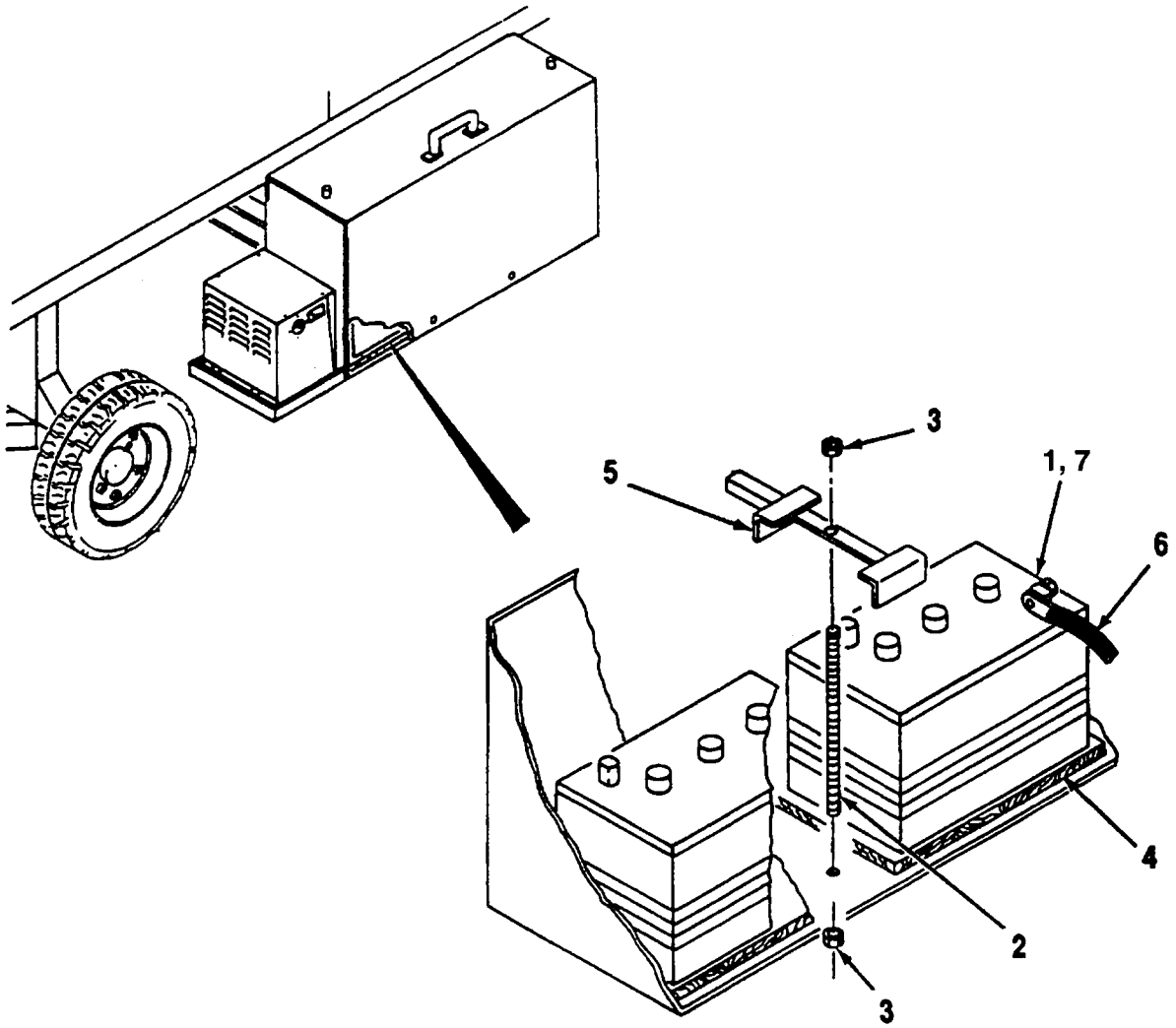
Ref.	Part No.	Description	Qty	Remarks
"G"	(Detail "G")	Control Box Assembly		
	135804	Control Box Assembly	Ref.	Incl. Items 1 thru 16
1	135764	Ground Control Box Assembly	1	See Page 3.34
2	135800	Weldment, Control Box	1	
3	160172	Pin, Clevis	2	
6	133495	Weldment, Cover	1	
7	160121	Latch (Adjustable Grip)	2	
10	131739	Bracket, Filter Mounting	1	
11	1200-1	Capscrew	2	
12	1200-334	Capscrew	2	
13	1210-14	Lockwasher	1	
14	81450	Filter, Hydraulic	1	See Page 3.33
15	81478	Valve, Control	1	See Page 3.40
16	1200-315	Capscrew, Valve Mounting	2	



DETAIL "H"

Ref.	Part No.	Description	Qty	Remarks
"H"	(Detail "H")	Component Box Assembly	Ref.	
2	135803	Weldment, Box	1	
3	160172	Pin, Clevis	2	
4	133487	Weldment, Box Cover	1	
5	160121	Latch (Adjustable Grip)	2	
6	70362	Relay (N.O.)	1	
7	1200-1	Capscrew, 1/4C x 3/4	2	
8	61312	Nut, 1/4C Self-Locking	4	
9	1209-44	Flatwasher	4	
10	60434	Capscrew, #10-32	2	
11	61324	Nut, #10 Self-Locking	2	
12	331 1000	Flatwasher, #10	2	
13	70617	Interrupt, Low Voltage	1	
14	70769	Cable, 12-3	5 Ft.	
15	2991	Wire, White - 12 Ga.	2 Ft.	
16	70098	Wire, Yellow - 12 Ga.	1 Ft.	
17	70162	Connector, Butt	1	
18	16213	Terminal, Ring (Yellow)	2	

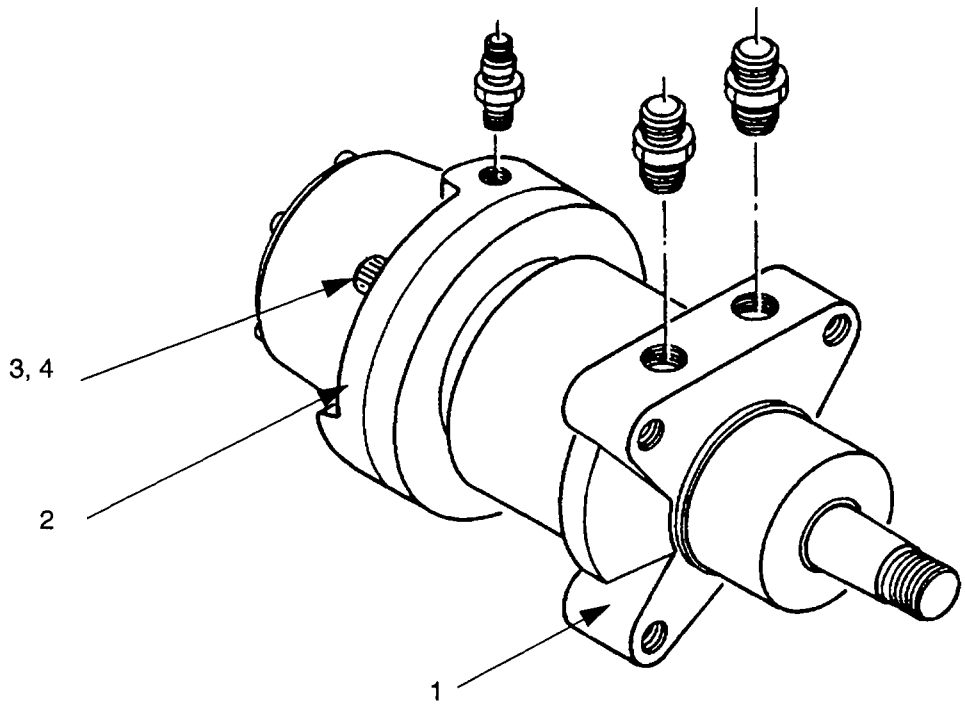
BATTERIES



DETAIL "D"

Ref.	Part No.	Description	Qty	Remarks
"D"	(Detail "D")	Battery Assembly		
1	4007	Battery (6-Volt)	4	4007-A (Dry)
2	160155	Rod, Threaded	2	
3	61239	Locknut	8	
4	131570	Plywood, Battery Base	4	
5	133316	Weldment, Battery Retainer	2	
6	133454	Kit, Battery Cable	1	See Page 3.39
7	70812	Battery Boot, Red	4	

DRIVE MOTOR WITH BRAKE ASSEMBLY
CH20NEP



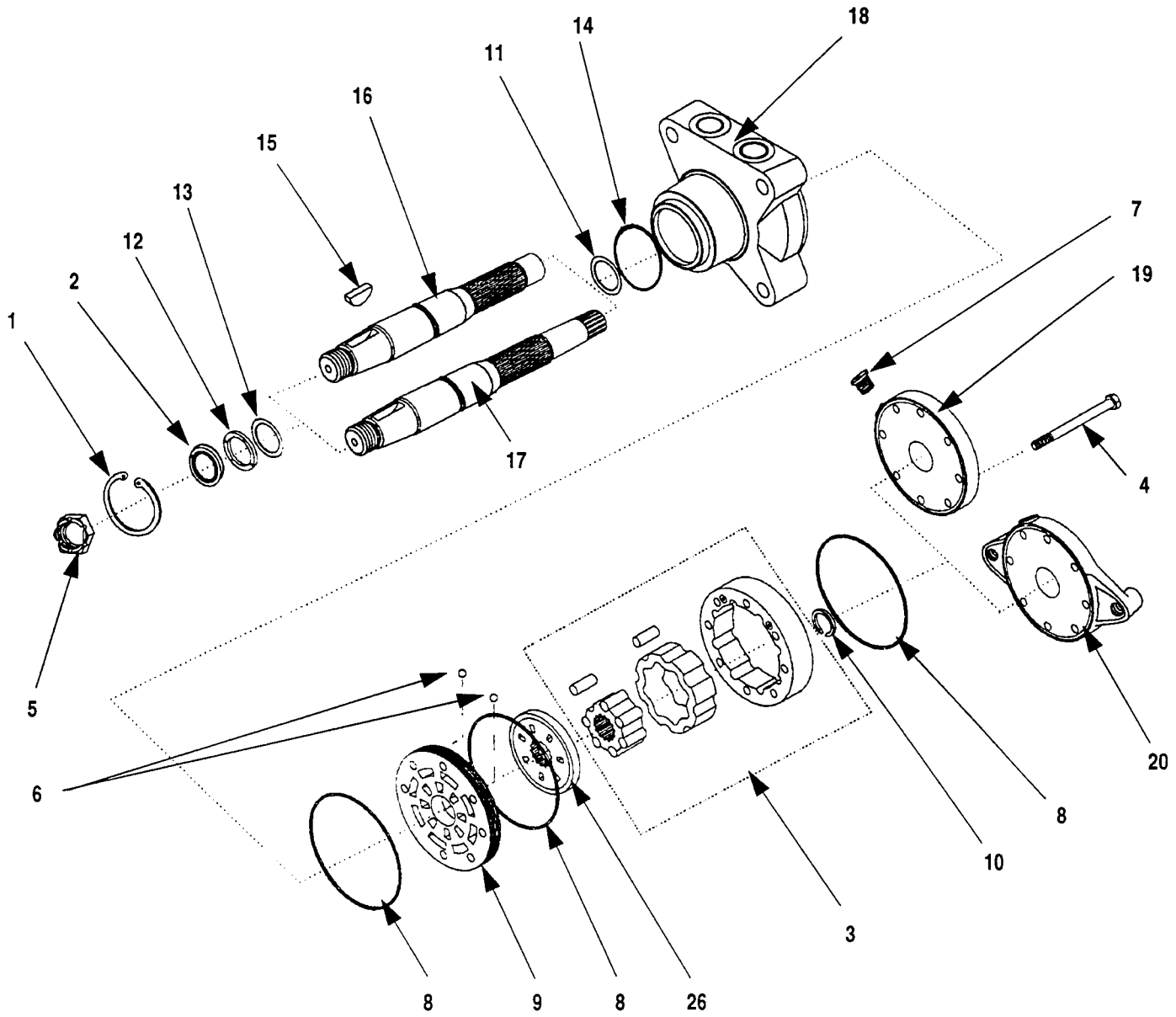
Ref.	Part No.	Description	Qty	Remarks
-	135297	Assembly, Drive Motor with Brake - CH20NEP	Ref.	Incl. items 1 thru 4
1	135144	Drive Motor	1	See Page 3.22 for Details.
	135143	Drive Motor (without brake) Not Shown	Ref.	See page 3.22 for Details.
2	135204	Disc Brake	1	See Page 3.24 for Details.
3	1210-26	Lockwasher, 1/2"	2	
4	1200-110	Capscrew, 1/2 NC x 2-3/4 GR5	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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DRIVE MOTOR ASSEMBLY
CH20NEP

Mark Industries



DRIVE MOTOR ASSEMBLY CH20NEP

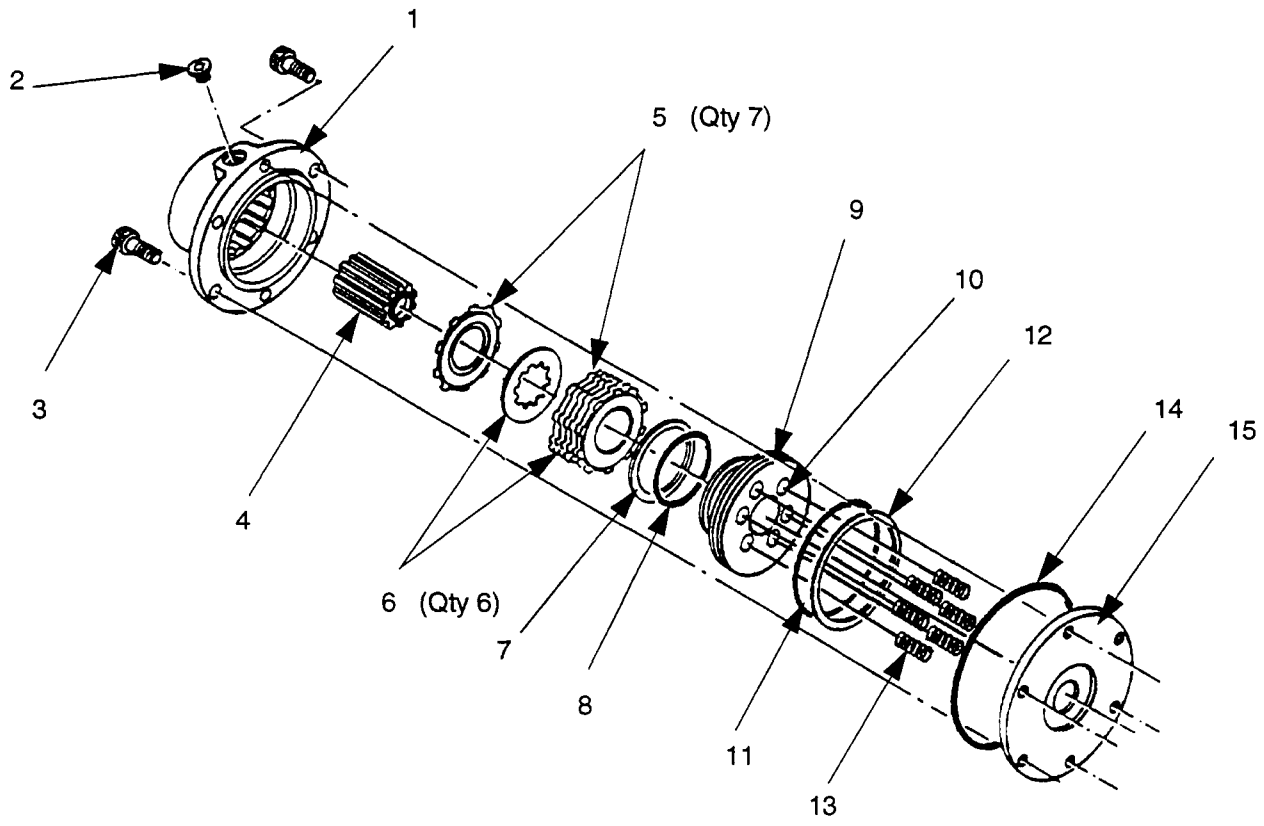
Ref.	Part No.	Description	Qty	Remarks
	135143	Assembly, Drive Motor - CH20NEP	Ref.	Incl. items With *
	135144	Ass'y, Drive Motor w/ Thru Shaft - CH20NEP (Used with Drive Motor/Brake Ass'y)	Ref.	Incl. items With ^
	69752	Kit, Seal (Use for P/N 135143 Drive Motor)		
	69753	Kit, Seal (Use for P/N 135144 Drive Motor)		(Thru shaft motor for brake)
1	68520	Snap Ring	1	* ^
2	68524	Assembly, Seal/Retainer	1	* ^
3	68552	Assembly, IGR	1	* ^
4	69754	Bolt, Hex 5/16-24	8	* ^
5	68540	Nut, Slotted 1-20	1	* ^
6	68525	Check Valve Ball	2	* ^
7	68526	Plug, Vent w/O-Ring 7/16-20	1	* ^
8	68527	Square Ring Seal	3	* ^
9	69670	Commutator Plate	1	* ^
10	68531	Snap Ring	1	* ^
11	68094	Washer, Thrust	1	* ^
12	69755	Washer, Thrust	1	* ^
13	69756	Washer, Thrust	1	* ^
14	68528	O-Ring	1	* ^
15	68539	Key, Woodruff	1	* ^
16	69757	Shaft, 1.25" J501 Taper	1	* (Used with P/N 135143)
17	69758	Shaft, 1.25 J501 Taper Thru	1	^ (Used with P/N 135144)
18	69759	Body	1	* ^
19	68533	Cover/Bearing Assembly	1	* (Used with P/N 135143)
20	68534	Cover/Bearing Assembly (Thru Shaft)	1	^ (Used with P/N 134144)

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

DISC BRAKE
CH20NEP

Mark Industries



DISC BRAKE
CH20NEP

Ref.	Part No.	Description	Qty	Remarks
	135204	Assembly, Disc Brake - CH20NEP	Ref.	Incl. items 1 thru 15
	600533	Kit, Seal	Ref.	
	600534	Kit, Lining	Ref.	
	600535	Kit, Spring	Ref.	
1	68378	Housing	1	
2	68390	Bleeder Screw	1	
3	68126	Bolt, Washer Head	4	
4	68375	Shaft	1	
5	68379	Plate, Friction	7	
6	68391	Plate, Separator	6	
7	68395	Back-Up Ring	1	
8	68392	O-Ring	1	
9	68377	Piston	1	
10	68389	Spring Guide	1	
11	68394	O-Ring	1	
12	68393	Back-Up Ring	1	
13	68449	Spring	6	
14	68396	Seal, Case	1	
15	68376	Cover	1	

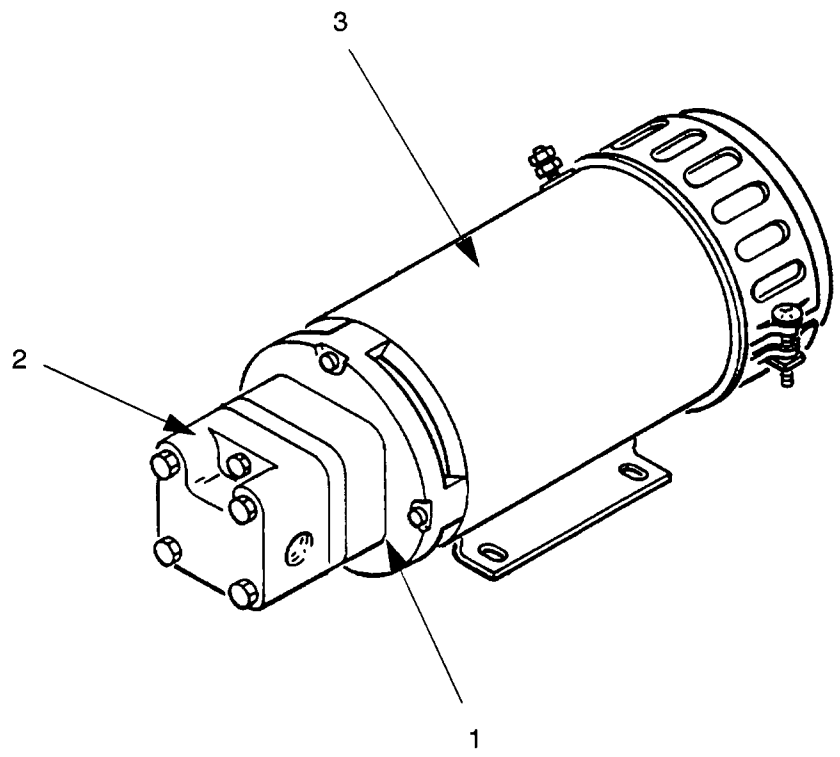
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

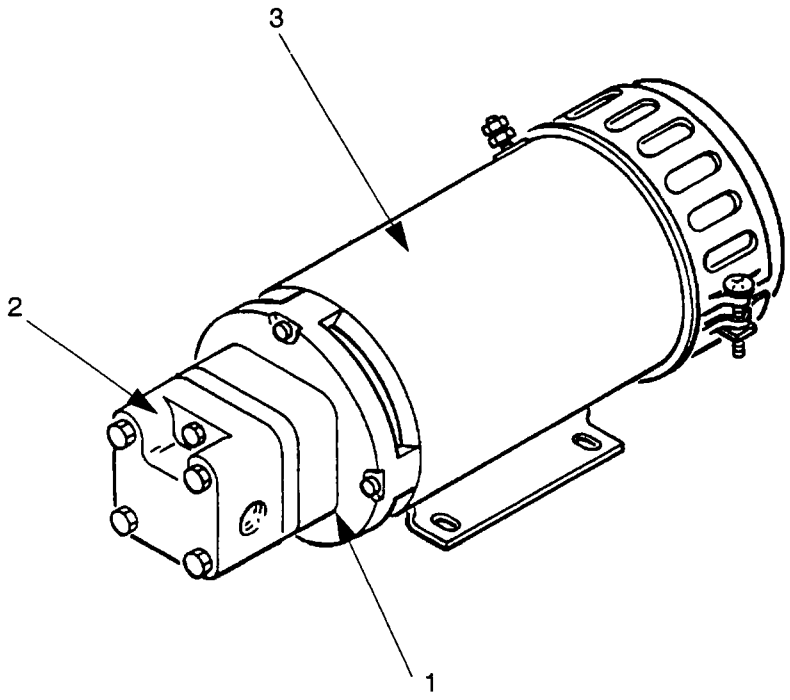
PUMP/MOTOR ASSEMBLY

CH20WEP, CH26, CH30

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
-	81479	Pump/Motor Assembly - CH20WEP, CH26, CH30	Ref	Incl. items 1 thru 3
1	68911	Assembly, Coupling (Pump to Motor)	1	
	68912	Gasket, Mounting	1	
2	68909	Pump	1	
	68913	Kit, Seal	1	
3	68910	Motor	1	
	68268	Brush, Electric Motor	4	
	68269	Spring, Brush	4	



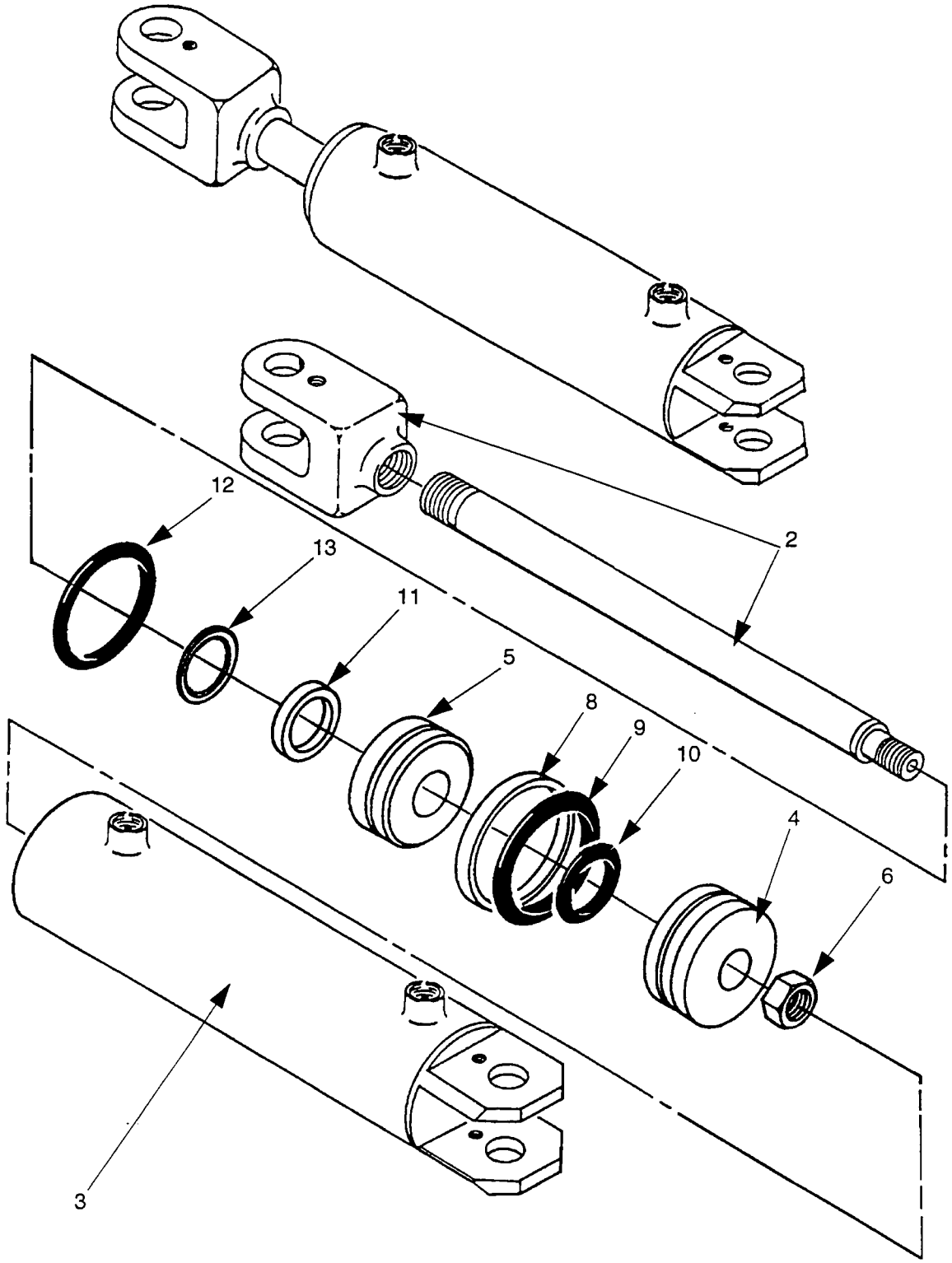
Ref.	Part No.	Description	Qty	Remarks
-	81311	Pump/Motor Assembly - CH20NEP	Ref.	Incl. items 1 thru 3
1	67014	Coupling, Pump to Motor	1	
2	67835	Pump	1	
	68518	Kit, Seal (Universal)	1	
	68171	Shaft, Pump	1	
3	67836	Motor	1	
	68164	Brush Set, Electric Motor	2	(2 sets required per motor)

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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STEERING CYLINDER
ROSENBOOM

Mark Industries



STEERING CYLINDER
ROSEN BOOM

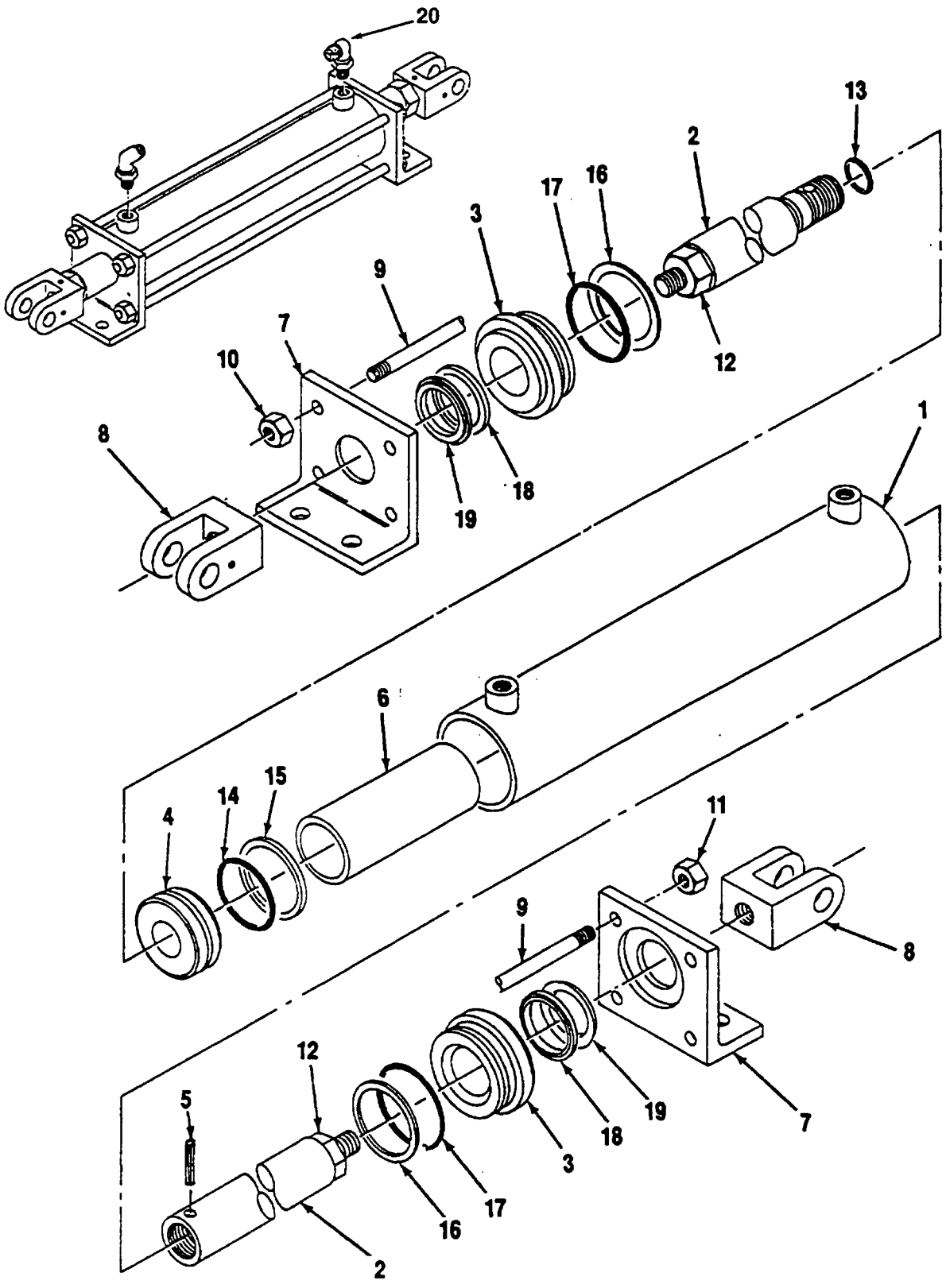
Ref.	Part No.	Description	Qty	Remarks
-	135666	Steering Cylinder (Rosenboom)	Ref.	Incl. items 2 thru 13
1	68948	Seal Kit	1	Incl. items 8 thru 13
2	68952	Assembly, Rod	1	
3	68949	Barrel	1	
4	68951	Piston	1	
5	68953	Gland	1	
6	68950	Locknut	1	
8	69960	Seal, Teflon	1	
9	69961	O-Ring (expander)	1	
10	69962	O-Ring (static seal)	1	
11	69963	U-Cup (rod seal)	1	
12	69964	O-Ring (static seal)	1	
13	69965	Wiper	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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STEERING CYLINDER
CH30EP

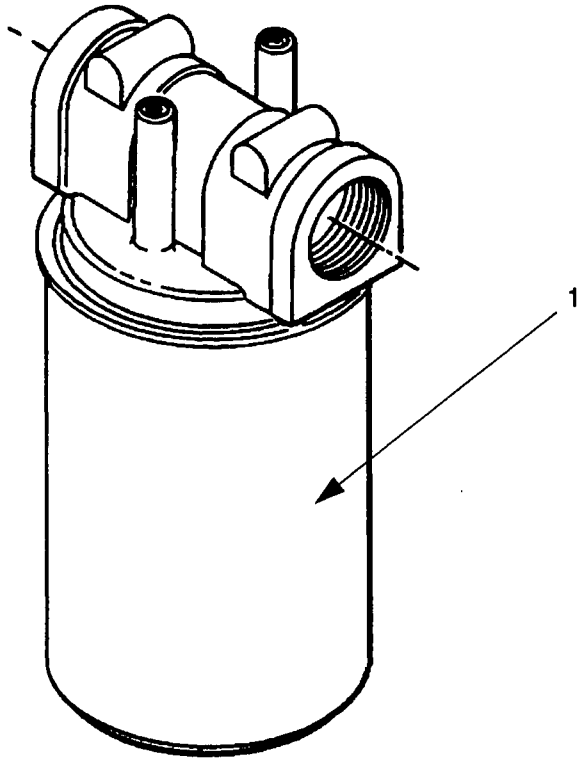
Mark Industries



STEERING CYLINDER

Ref.	Part No.	Description	Qty	Remarks
	133451	Cylinder Assembly	Ref.	Incl. Items 1 thru 20
	133467	Steering Cylinder	1	Incl. Items 1 thru 19
	67842	Kit, Seal (Texas Hyds.)	1	Incl. Items *
1	69859	Tube Assembly	1	
2	69860	Rod Assembly	1	Incl. Items ^
3	67859	Head	2	
4	67856	Piston	1	^
5	20609	Roll Pin	2	^
6	67863	Spacer	1	
7	67865	Foot Mount	2	
8	67866	Rod Clevis	2	
9	69870	Tie Rod	4	
10	69861	Nut	4	
11	69862	Locknut	4	
12	600347	Jam Nut	2	
13	69863	O-Ring (Static)	1	* ^
14	69864	O-Ring	1	*
15	69865	Cap Seal	1	*
16	69866	Back-Up Ring	2	*
17	69867	O-Ring	2	*
18	69868	U-Cup (Polypak)	2	*
19	69869	Wiper	2	*
20	12019-548	Elbow	2	

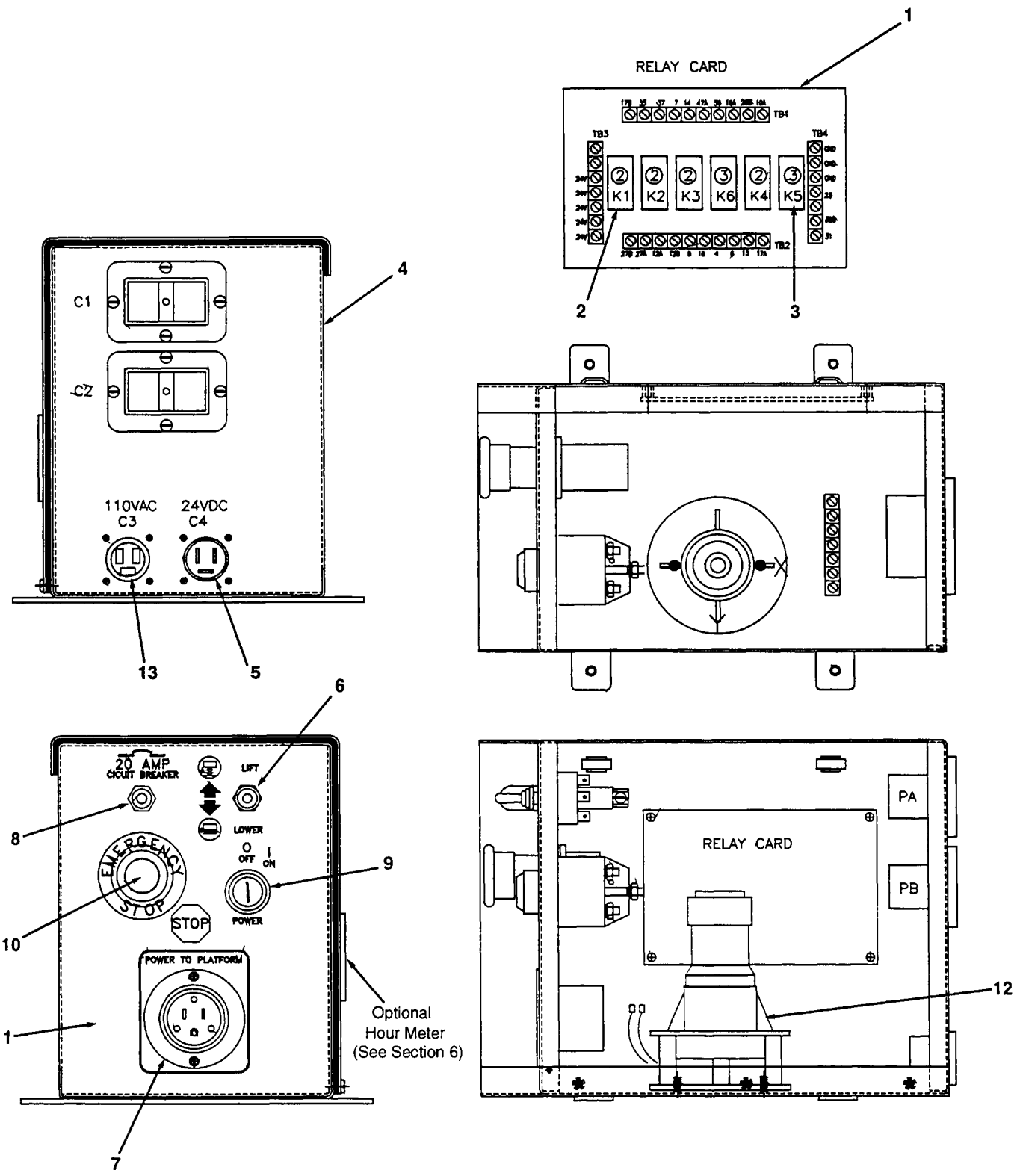
NOTES



Ref.	Part No.	Description	Qty	Remarks
-	81450	Assembly, Filter	Ref.	Includes item 1
1	69748	Element, Filter	1	

GROUND CONTROL PANEL ASSEMBLY

Mark Industries



GROUND CONTROL PANEL ASSEMBLY

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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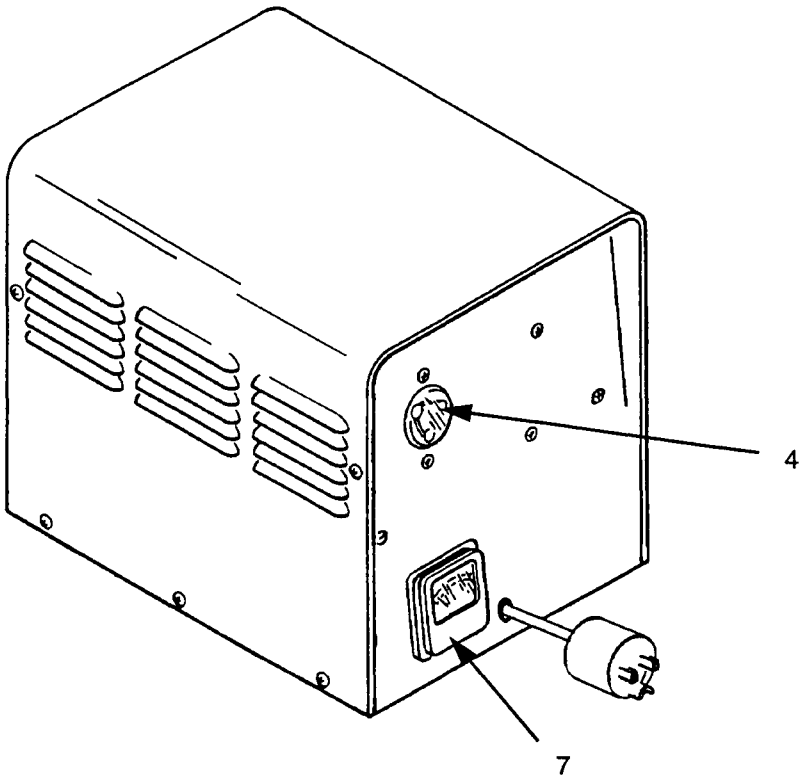
Ref.	Part No.	Description	Qty	Remarks
	135764	Assembly, Ground Control Panel	Ref.	
1	69167	Relay Card	1	
2	69168	Relay (K1, K2, K3 & K4)	4	
3	69169	Relay (K5 & K6)	2	
4	69170	Enclosure	1	
5	69175	Connector	1	
6	69164	Switch	1	
7	69171	Plug	1	
8	69172	Circuit Breaker	1	
9	2717	Ign. Switch	1	
10	69166	Switch	1	
11	185725	Decal (Front Face)	1	
	185728	Decal (Hour Meter)	1	
12	70886	Slope Sensor (SN 195 & Up)	1	
	70887	Slope Sensor (SN001-SN194)	1	
13	69174	Connector	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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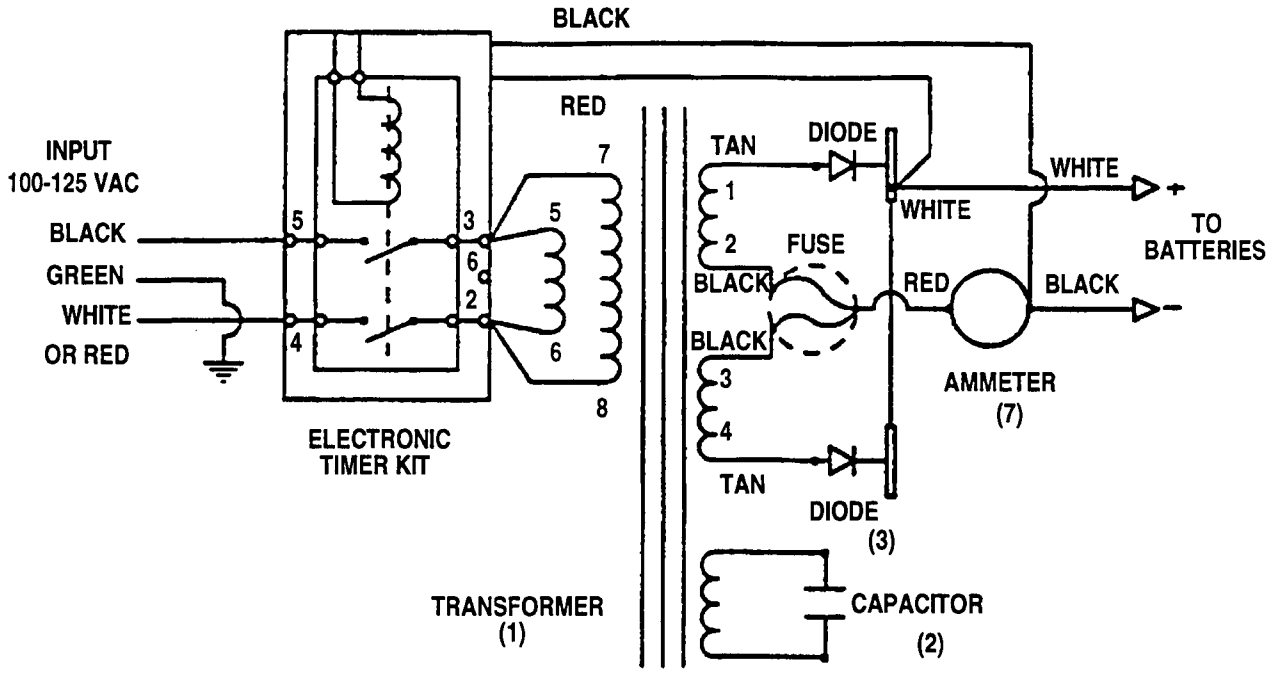
BATTERY CHARGER
100-125 VAC, 60 HZ

Mark Industries

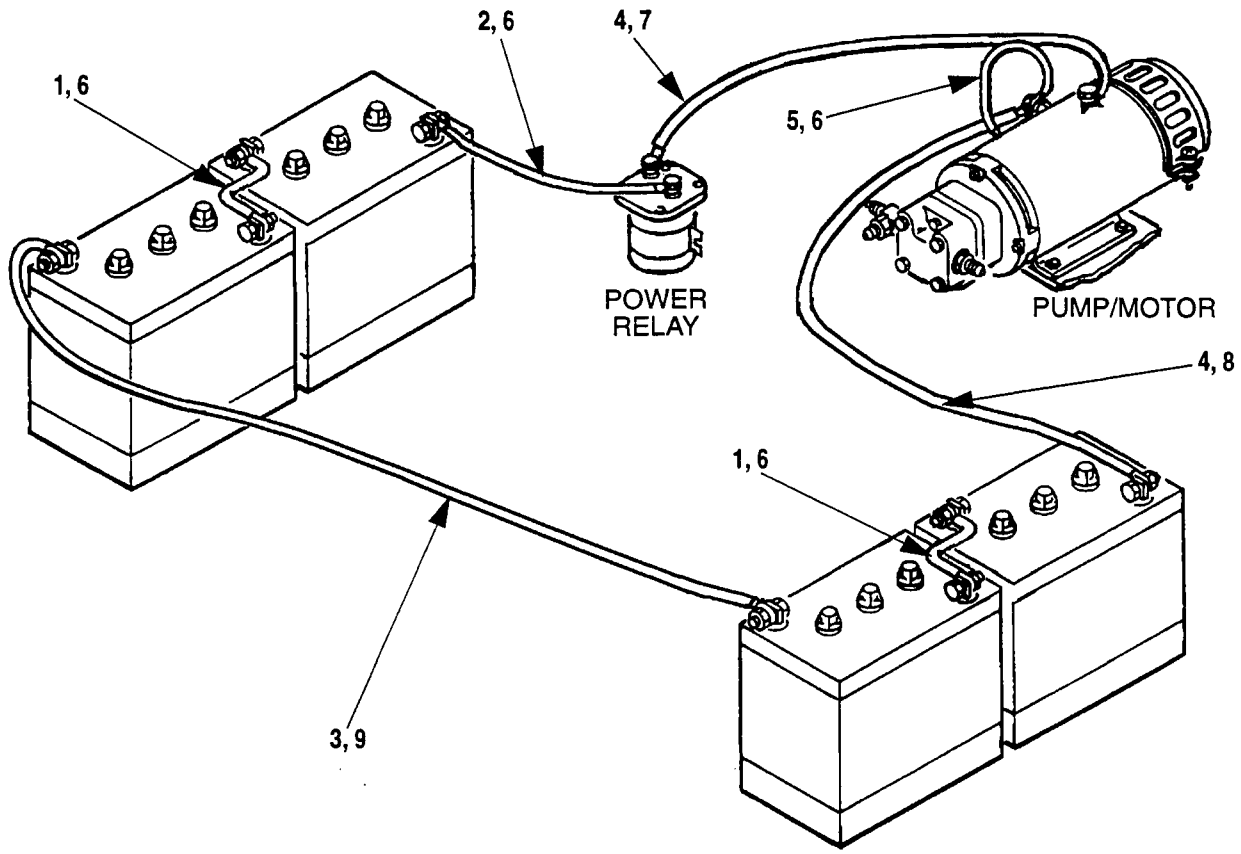


Ref.	Part No.	Description	Qty	Remarks
-	70789	Battery Charger, 100-125 VAC, 60 HZ	Ref.	
1	69732	Assembly, Transformer	1	
2	66750	Capacitor (6.0 MFD, 660 VAC)	1	
3	69733	Assembly, Heat Sink (With Diodes)	1	
4	66726	Assembly, Fuse	1	
5	69734	Kit, Electronic Timer	1	
6	600270	Relay	1	
7	66747	Ammeter	1	

FOR USE WITH 100-125 VAC



NOTES



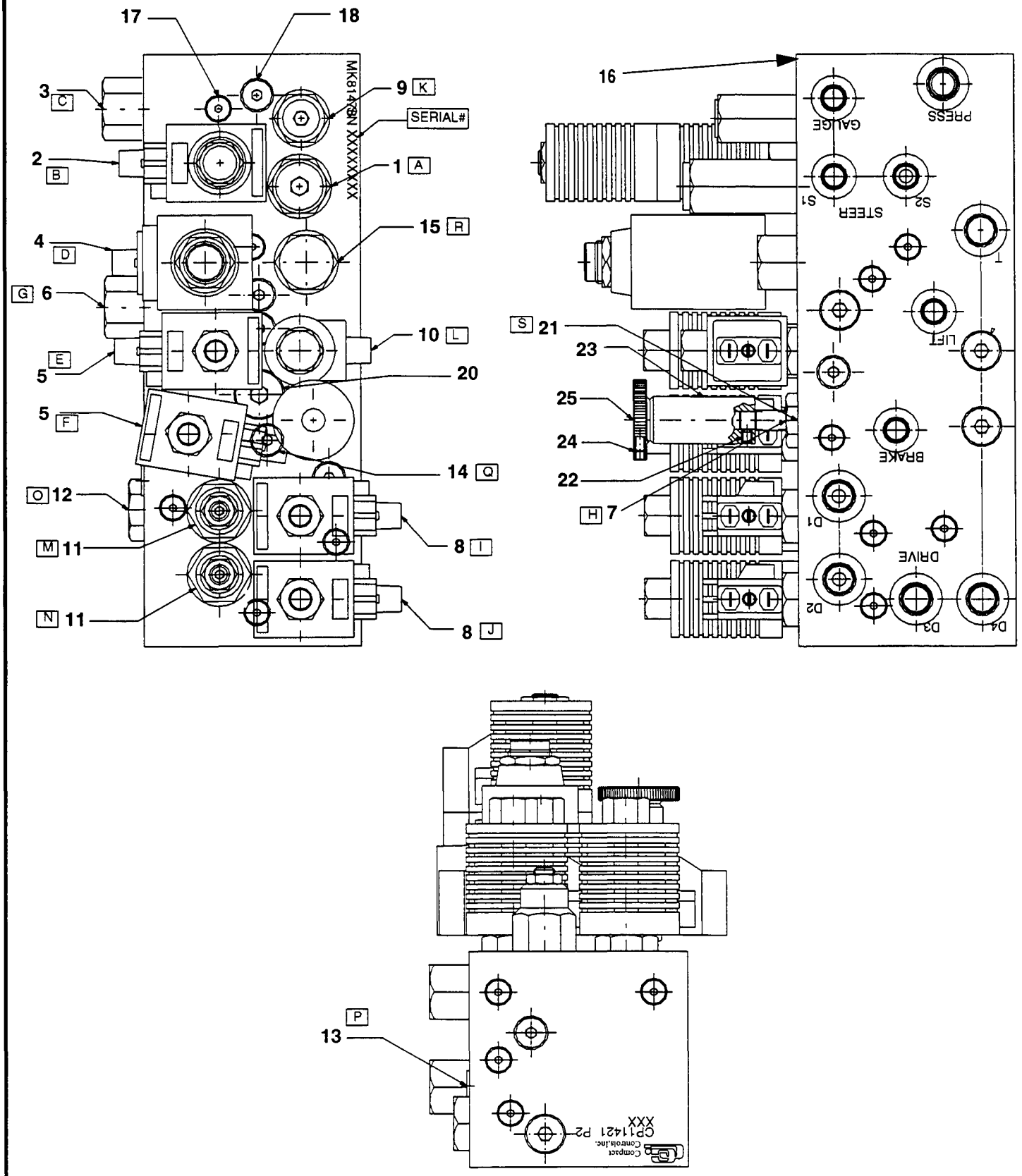
Ref.	Part No.	Descrip-	Qty	Remarks
-	70819	Kit, Battery Cable- CH20NEP/WEP CH26NEP/WEP	Ref.	Incl. items 1 thru 5
1	13226-0120	Assembly, Electrical Cable (12" Long)	2	
2	13226-0150	Assembly, Electrical Cable (15" Long)	1	
3	13226-0450	Assembly, Electrical Cable (45" Long)	1	
4	13226-0670	Assembly, Electrical Cable (67" Long)	2	
5	13241-012	Assembly, Electrical Cable (12" Long)	1	
	133454	Kit, Battery Cable - CH30EP	Ref.	Incl. items 6 thru 9
6	13226-0120	Assembly, Electrical Cable (12" Long)	4	
7	13226-0400	Assembly, Electrical Cable (40" Long)	1	
8	13226-0560	Assembly, Electrical Cable (56" Long)	1	
9	13226-1000	Assembly, Electrical Cable (100" Long)	1	

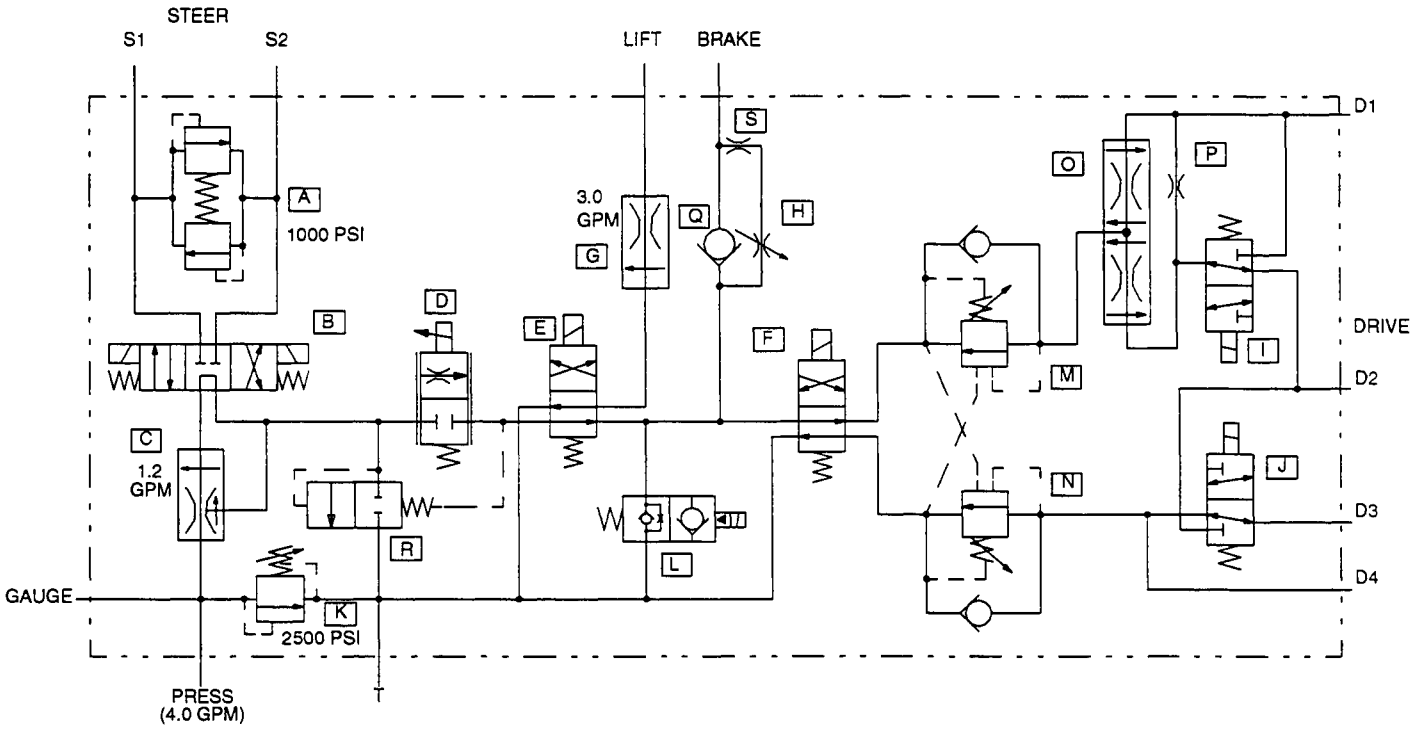
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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CONTROL VALVE ASSEMBLY

Mark Industries





Ref.	Part No.	Descrip-	Qty	Remarks
-	81478	Valve, Control	Ref.	Incl. items 2 thru 21
	68878	Kit, Seal		
1	67984	Valve, Relief (Steer)	1	
2	67341	Valve, Control (Directional Steer)	1	
3	67982	Regulator, Flow (1.2 GPM) "steer"	1	
4	68877	Valve, Proportional	1	
5	68876	2 Position 4 Way	2	
6	66841	Regulator, Flow (3.0 GPM) "platform lowering"	1	
7	68875	Valve, Needle	1	
8	67346	Valve, Solenoid	2	
	66865	Coil "square"	2	
9	67981	Valve, Relief (System)	1	
10	67986	Valve, Solenoid	1	
	600028	Coil "round"	1	
11	68874	Valve, Counterbalance	2	
12	68873	Flow Divider/Combiner	1	
13	67349	Orifice	1	

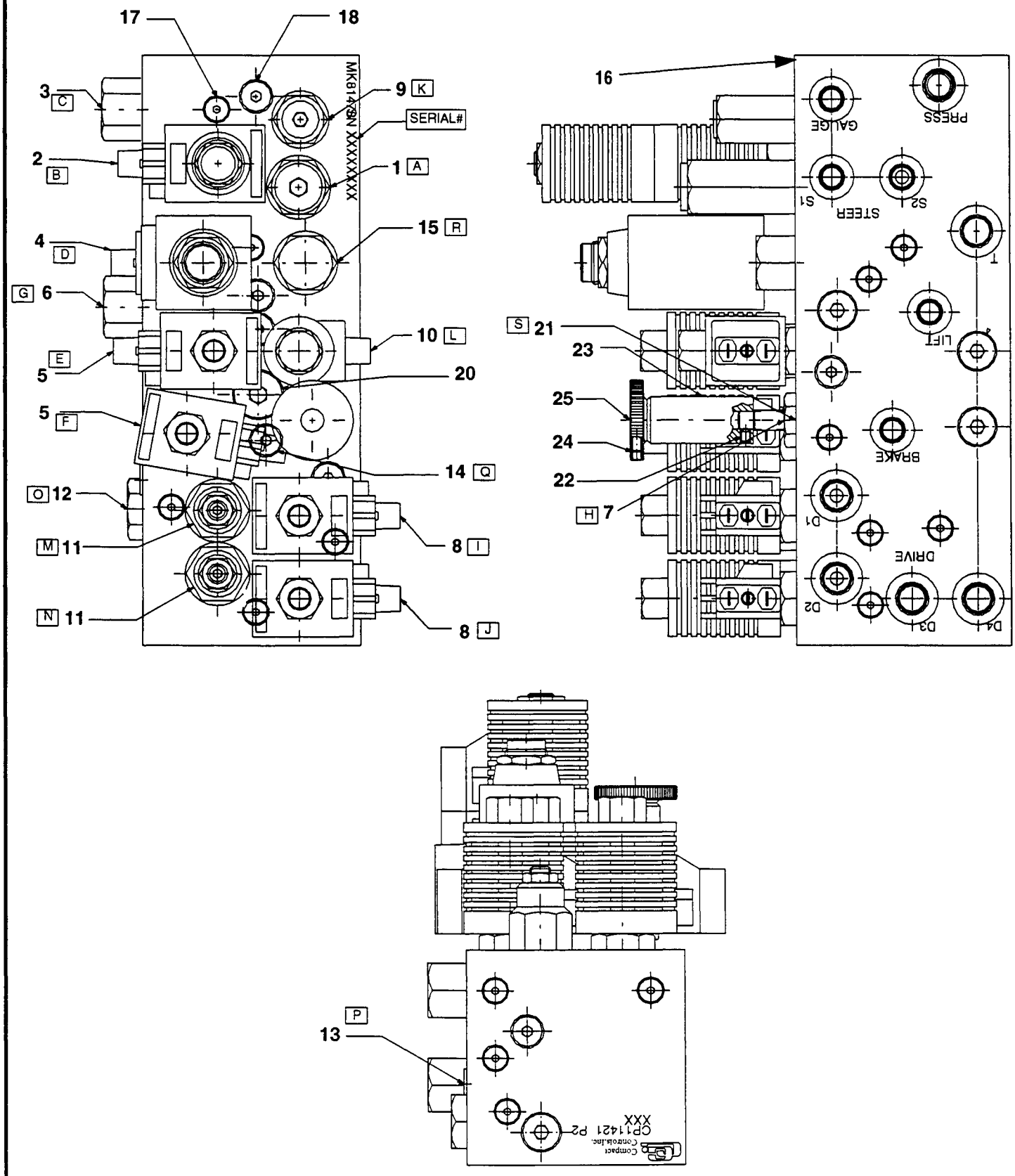
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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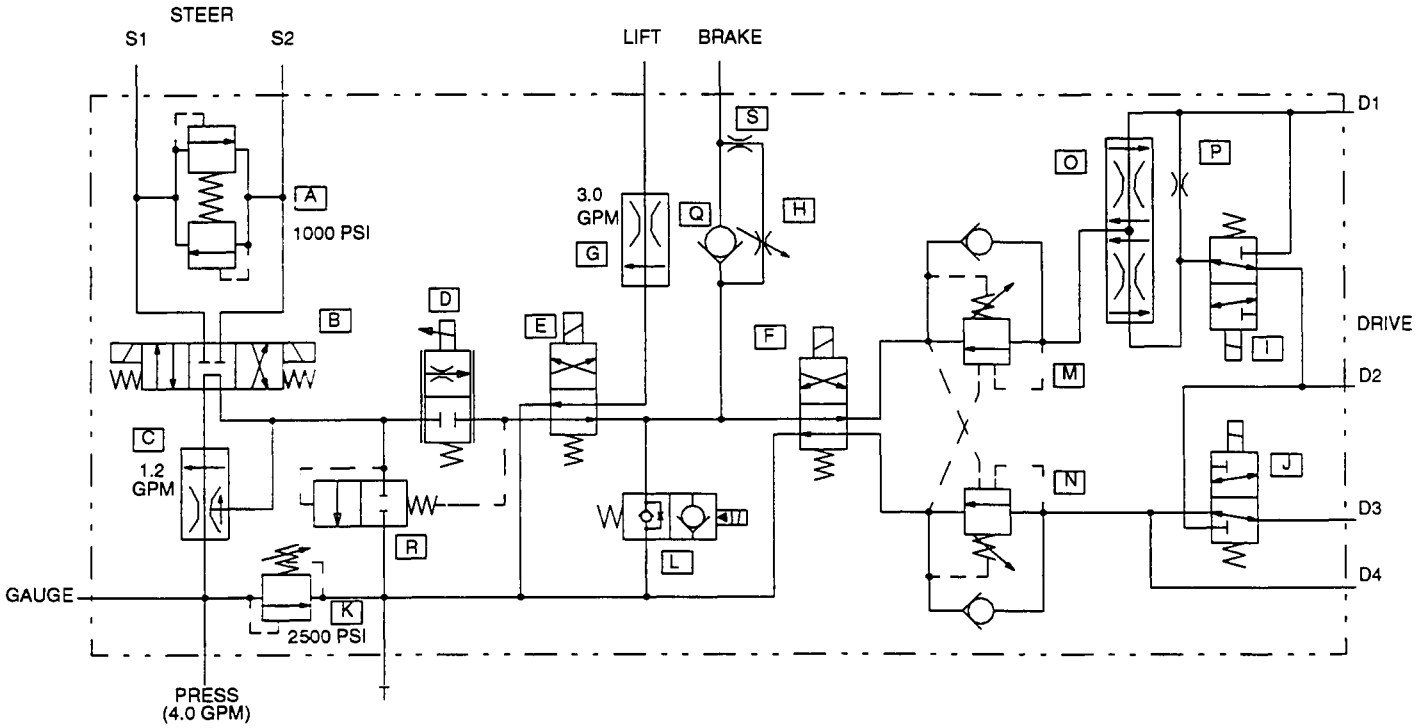
CONTROL VALVE ASSEMBLY
CH20WEP, CH26NEP/WEP

Mark Industries

PROPORTIONAL DRIVE



PROPORTIONAL DRIVE



Ref.	Part No.	Descrip-	Qty	Remarks
14	67988	Valve, Shuttle	1	
15	67024	Valve, Differential Sensing	1	
16	68872	Body	1	
17	NSS	Plug, No. 2 SAE	Ref.	
18	NSS	Plug, No. 4 SAE	Ref.	
19	NSS	Plug, No. 6 SAE	Ref.	
20	NSS	Plug, No. 8 SAE	Ref.	
21	68871	Orifice	1	
22	NSS	Set Screw #10-24 UNC x 1/4 (cone point)	1	
23	68870	Adapter	1	
24	NSS	Set Screw #10-24 UNC x 3/8	1	
25	600315	Knob, Extension	1	
	NOTE A:	PRIOR TO USE, RELIEF VALVES MUST BE ADJUSTED TO THE PRESSURE INDICATED ON THE HYDRAULIC SCHEMATIC.		

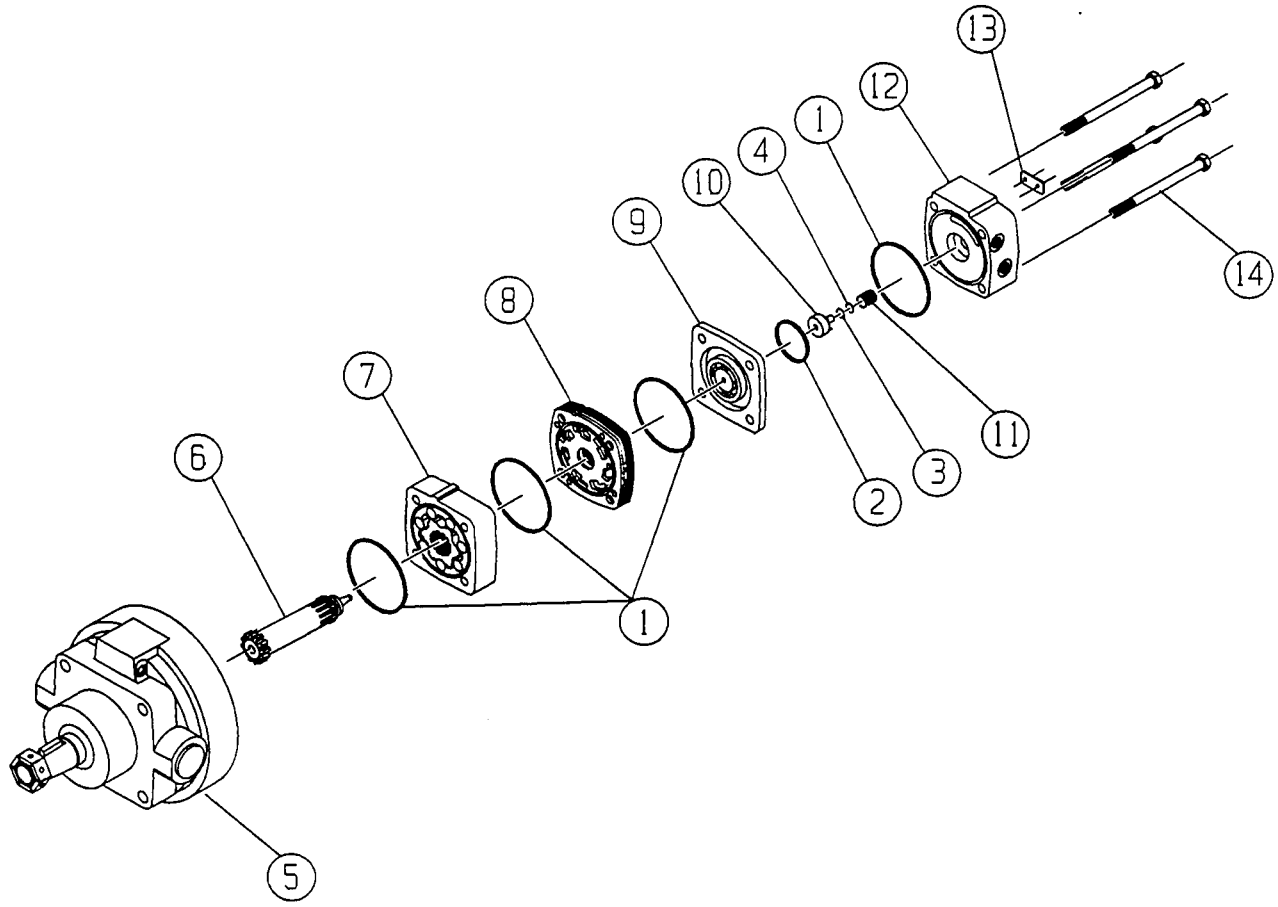
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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DRIVE MOTOR & BRAKE ASSEMBLY

CH20WEP, CH26NEP/WEP, CH30EP

Mark Industries



DRIVE MOTOR & BRAKE ASSEMBLY

Ref.	Part No.	Description	Qty	Remarks
-	81477	Assembly, Drive Motor & Brake CH20WEP, CH26NEP, CH26WEP, CH30EP	Ref.	Incl. items 1 thru 14
-	68898	Kit, Seal	1	Incl. items 1 thru 4
1	NSS	Seal, Body	4	
2	NSS	Seal, Commutator	1	
3	NSS	O-Ring	1	
4	NSS	Seal, Teflon Backup	1	
5	68899	Brake/Shaft Assembly	1	
6	68900	Drive Link	1	
7	68901	Rotor Assembly	1	
8	68902	Manifold	1	
9	68903	Commutor Assembly	1	
10	68904	End Cover Piston	1	
11	68905	Piston Spring	1	
12	68906	End Cover	1	
13	NSS	I.D. Tag	Ref.	
14	68907	Bolts	4	

NOTES

SECTION 4 CONTAINS:

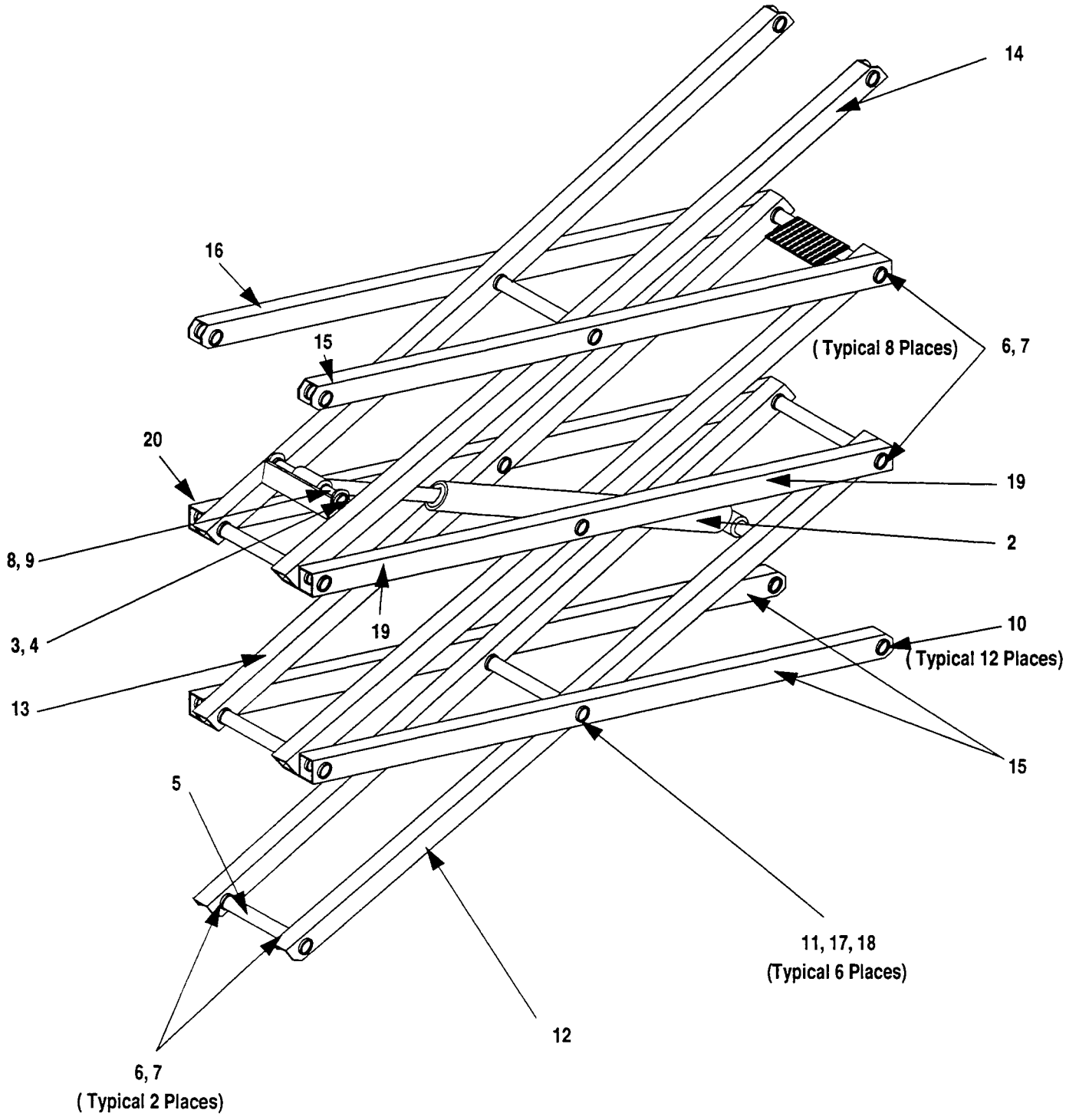
PAGE	TITLE
4.2	SCISSOR ASSEMBLY - CH20NEP
4.4	SCISSOR ASSEMBLY - CH20WEP
4.6	SCISSOR ASSEMBLY - CH26NEP, CH26WEP
4.8	SCISSOR ASSEMBLY - CH30EP
4.10	LIFT CYLINDER - CH20NEP
4.13	LIFT CYLINDER ASSEMBLY
4.15	LIFT CYLINDER - CH20WEP, CH26NEP, CH26WEP

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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SCISSOR ASSEMBLY
CH20NEP

Mark Industries



SCISSOR ASSEMBLY
CH20NEP

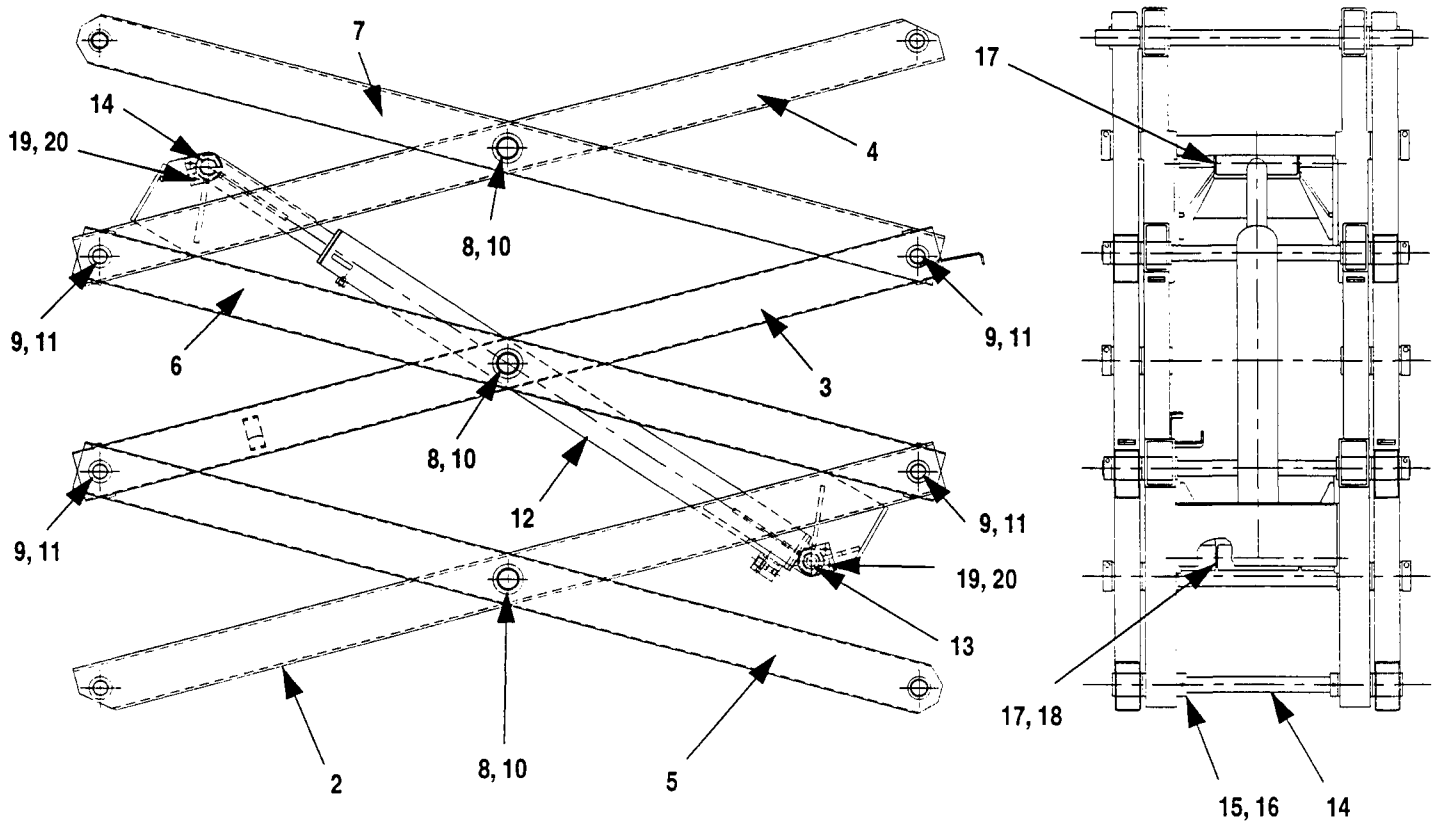
Ref.	Part No.	Description	Qty	Remarks
-	135102	Assembly, Scissor - CH20NEP	Ref.	Incl. 1 thru 20
1	135103	Sub Assembly, Scissor	1	Incl. 7 &12 thru 20
2	135096	Cylinder, Lift	1	See Page 4.13 for Details.
3	135197	Pin, Cylinder	2	
4	61828	Capscrew, 5/16-18 UNC x 3/4	4	
5	135121	Pin, Wear Pad	1	
6	65577	Collar, Shaft	10	
7	62238	Set Screw, .375-16 UNC	10	
8	64937	Bearing, Thrust	4	
9	1208-37	Bushing, Machinery	4	
10	160662	Bushing (Pivot End)	12	
11	160641	Bushing (Center Pivot)	6	
12	135104	Weldment, Inner Arm (1st Stage)	1	
13	135105	Weldment, Inner Arm (2nd Stage)	1	
14	135106	Weldment, Inner Arm (3rd Stage)	1	
15	135107-1	Assembly, Outer Arm (Top & Bottom)	3	
16	135107-2	Assembly, Outer Arm (Top)	1	
17	2214	Collar, 2" I.D. x 3" O.D. x 8.75 LG	6	
18	62237	Set Screw, .5-13 UNC	6	
19	135108-1	Assembly, Outer Arm (Middle)	1	
20	135108-2	Assembly, Outer Arm (Middle)	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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SCISSOR ASSEMBLY
CH20WEP

Mark Industries



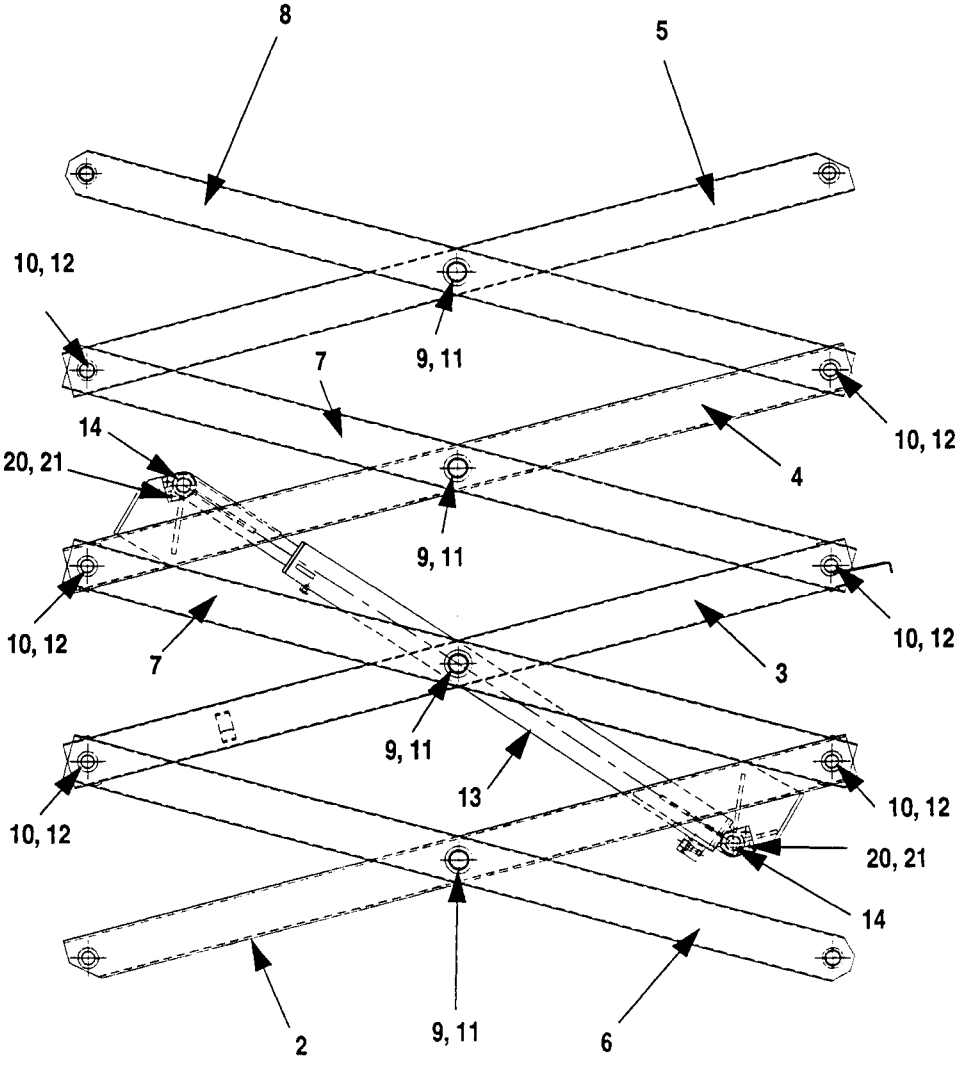
Ref.	Part No.	Description	Qty	Remarks
-	135616	Assembly, Scissor - CH20WEP	Ref.	Incl. 1 & 12 thru 20
1	135615	Sub Assembly, Scissor	1	Incl. 2 thru 11
2	135576	Weldment, Inner Arm (1st Stage)	1	
3	135577	Weldment, Inner Arm (2nd Stage)	1	
4	135698	Weldment, Inner Arm (3rd Stage)	1	
5	135107-1	Assembly, Outer Arm (1st Stage)	2	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
6	135555	Assembly, Outer Arm (2nd Stage)	2	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
7	135558	Assembly, Outer Arm (3rd Stage Near Side)	1	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
	135558-1	Assembly, Outer Arm (3rd Stage Far Side)	1	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
8	2214	Collar, 2" I.D. x 3" O.D. x 8.75 LG	6	
9	65577	Collar, Shaft	8	
10	62237	Set Screw, .5-13 UNC	6	
11	62238	Set Screw, .375-16 UNC	8	
12	135537	Cylinder, Lift	1	See Page 4.15 for Details.
13	135593	Pin, Cylinder	2	
14	135539	Pin, Lower Wear Pad	1	
15	65577	Collar, Shaft	2	
16	62238	Set Screw, .375-16 UNC	2	
17	64937	Bearing, Thrust	4	
18	1208-37	Bushing, Machinery	2	
19	61828	Capscrew, 5/16-18 UNC x 3/4	4	
20	511 2057	Loctite 242	AR	

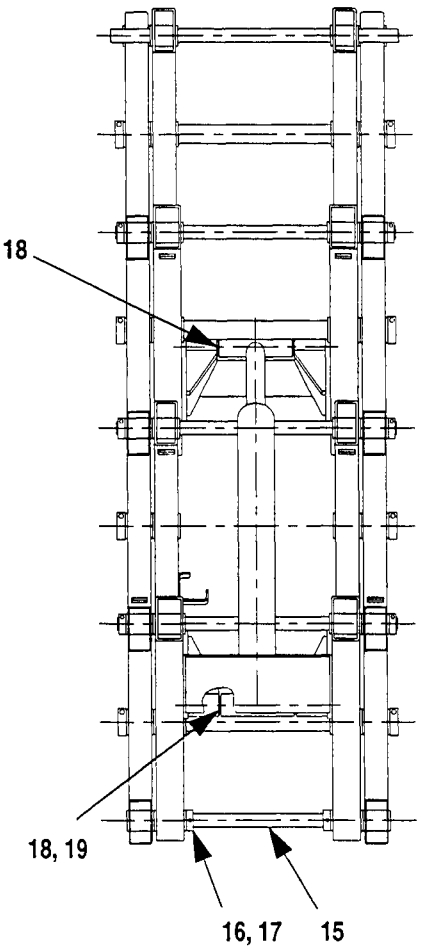
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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SCISSOR ASSEMBLY
CH26NEP/WEP

Mark Industries





SCISSOR ASSEMBLY
CH26NEP/WEP

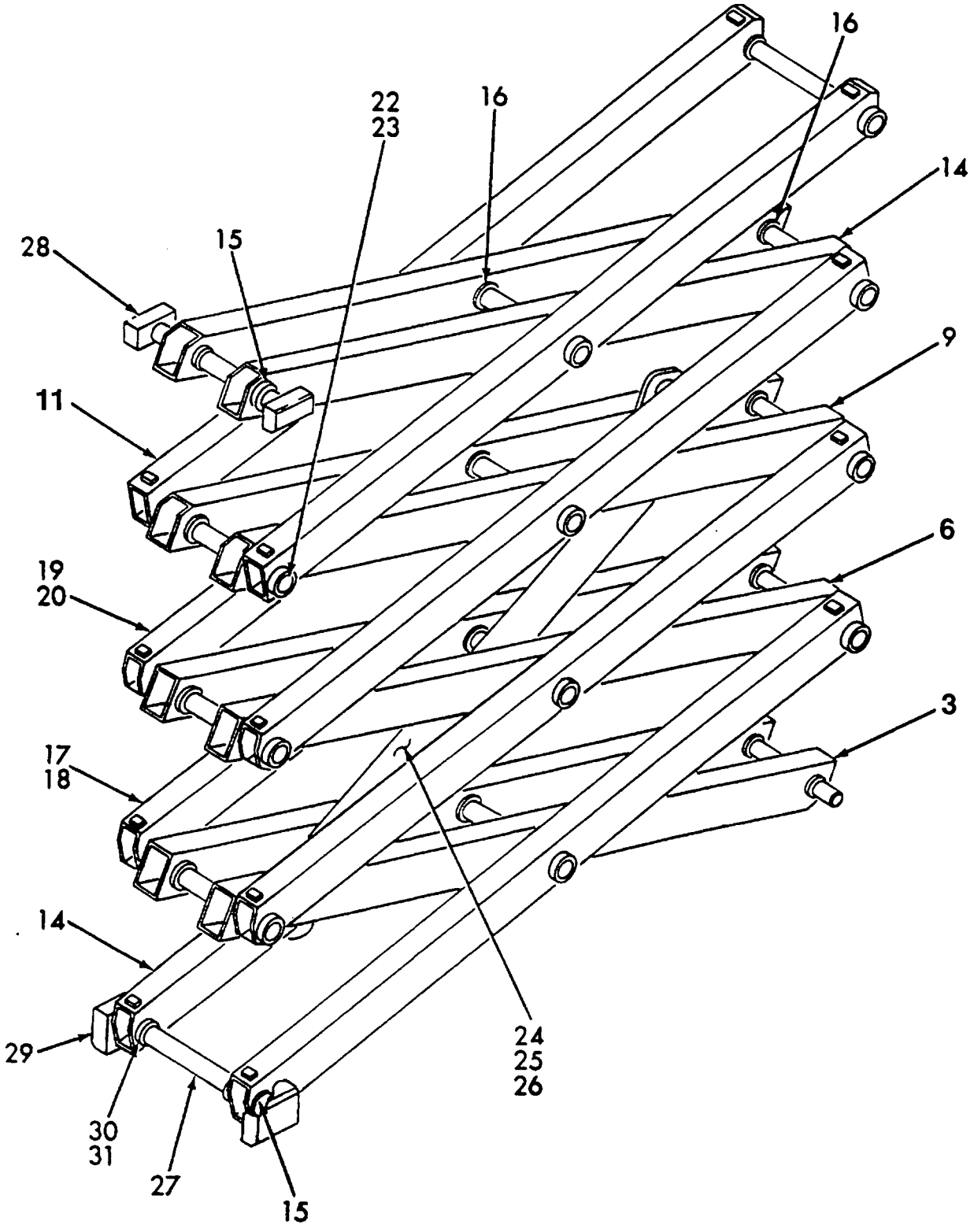
Ref.	Part No.	Description	Qty	Remarks
-	135581	Assembly, Scissor - CH26NEP/WEP	Ref.	Incl. 1 & 13 thru 21
1	135580	Sub Assembly, Scissor	1	Incl. 2 thru 12
2	135576	Weldment, Inner Arm (1st Stage)	1	
3	135577	Weldment, Inner Arm (2nd Stage)	1	
4	135578	Weldment, Inner Arm (3rd Stage)	1	
5	135579	Weldment, Inner Arm (4th Stage)	1	
6	135107-1	Assembly, Outer Arm (1st Stage)	2	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
7	135555	Assembly, Outer Arm (2nd & 3rd Stage)	4	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
8	135558	Assembly, Outer Arm (4th Stage)	2	
	160662	Bushing (Pivot End)	2	
	160641	Bushing (Center Pivot)	1	
9	2214	Collar, 2" I.D. x 3" O.D. x 8.75 LG	8	
10	65577	Collar, Shaft	12	
11	62237	Set Screw, .5-13 UNC	8	
12	62238	Set Screw, .375-16 UNC	12	
13	135537	Cylinder, LIft	1	See Page 4.15 for Details.
14	135593	Pin, Cylinder	2	
15	135539	Pin, Lower Wear Pad	1	
16	65577	Collar, Shaft	2	
17	62238	Set Screw, .375-16 UNC	2	
18	64937	Bearing, Thrust	4	
19	1208-37	Bushing, Machinery	2	
20	61828	Capscrew, 5/16-18 UNC x 3/4	4	
21	511 2057	Loctite 242	AR	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

SCISSOR ASSEMBLY
CH30EP

Mark Industries



SCISSOR ASSEMBLY CH30EP

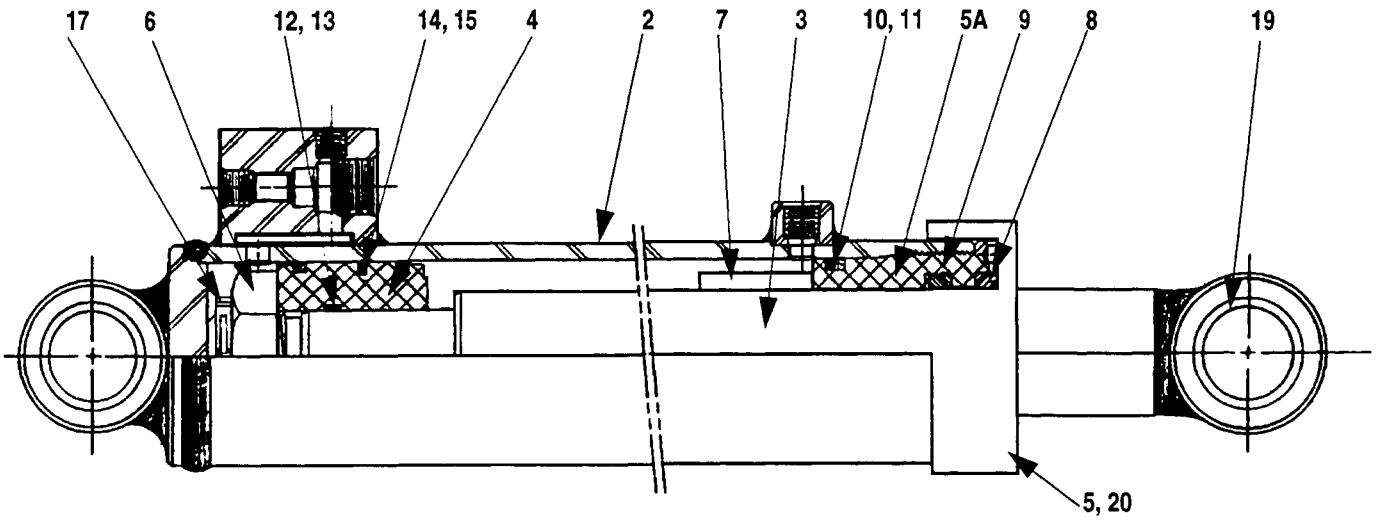
Ref.	Part No.	Description	Qty	Remarks
1	134462	Assembly, Scissor	Ref.	CH30EP
2	133579	Sub-Assembly, Scissor	1	Incl. Items 3 thru 23
3	133556	Weldment, Inner Arm (First Stage)	1	
6	133560	Weldment, Inner Arm (Second Stage)	1	
9	133565	Weldment, Inner Arm (Third Stage)	1	
11	133564	Weldment, Inner Arm (Fourth Stage)	1	
14	133505	Outer Arm	4	
15	160159	Bushing	4	
16	160641	Bushing	8	
17	133566	Outer Arm	2	
18	160641	Bushing	6	
19	133509	Outer Arm	2	
20	160641	Bushing	6	
22	2214	Collar	20	
23	62237	Setscrew	20	
24	134468	Lift Cylinder Assembly	1	See Page 4.13
25	133539	Weldment, Cylinder Pin	2	
26	61828	Screw, Cap	4	
27	133531	Pin, Wear Pad	1	
28	131694	Pad, Wear	2	
29	131693	Pad, Wear	2	
30	65577	Collar, Shaft	2	
31	62238	Screw, Set	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

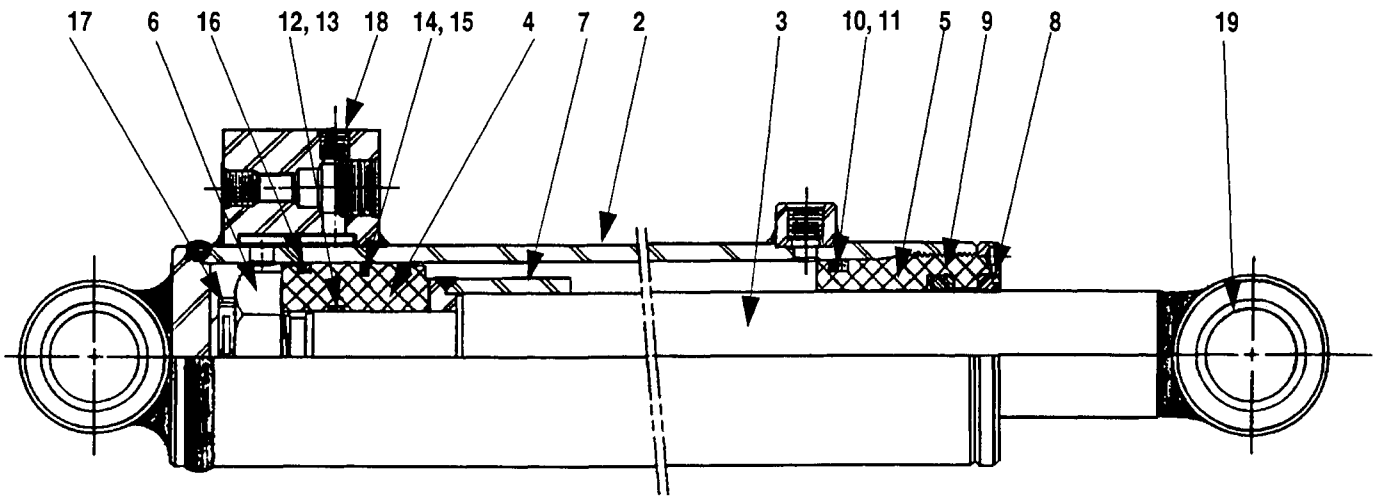
Issued 12-95

LIFT CYLINDER
CH20NEP

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	135096-2	Lift Cylinder (Rosen Boom)	Ref.	
1	69060	Kit, Seal (* Parts of Seal Kit)	1	Incl. items 8 thru 17
2	69059	Barrel	1	
3	69056	Rod, Piston	1	
4	69057	Piston	1	
5	69054	Head Gland Cap	1	
5A	69053	Head Gland	1	
6	69058	Nut, Piston	1	
7	69055	Spacer	1	
8	*	Wiper	1	
9	*	U-Cup	1	
10	*	O-Ring	1	
11	*	Back-Up Ring	1	
12	*	O-Ring	1	
13	*	Back-Up Ring	2	
14	*	Seal, Piston	1	
15	*	O-Ring	1	
17	*	Cotter Key	1	
19	*	Bushing, Oilite	4	
20	68882	Set Screw	1	

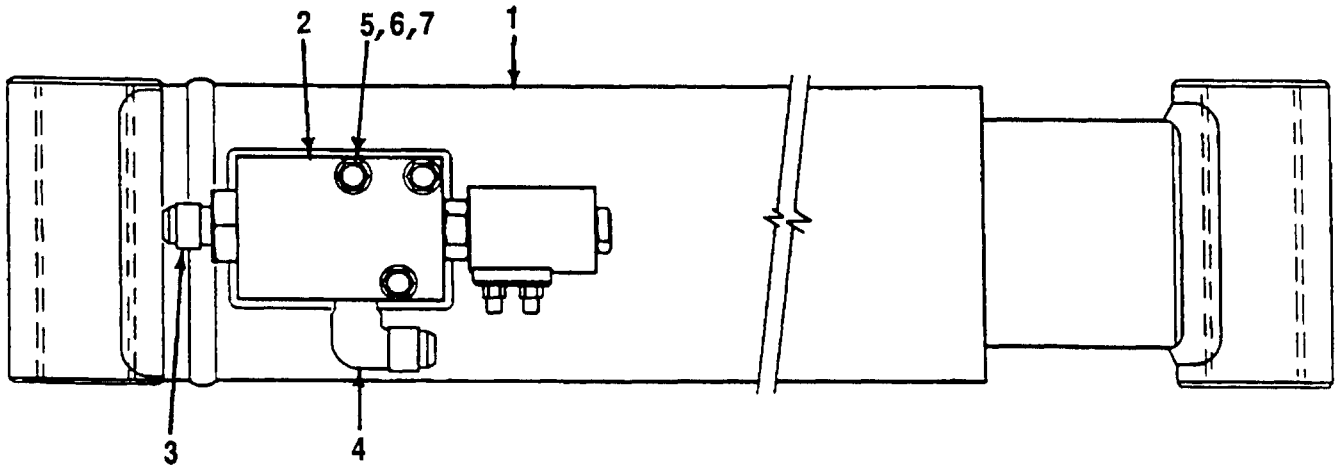


Ref.	Part No.	Description	Qty	Remarks
	135096-1	Lift Cylinder (Seabee)	Ref.	
1		Kit, Seal	1	Incl. items 15 & 17
2	69810	Barrel	1	
3	69811	Rod, Piston	1	
4	69812	Piston	1	
5	69813	Head Gland	1	
6	69814	Nut, Piston	1	
7	69815	Spacer	1	
8	69816	Wiper	1	
9	69817	U-Cup	1	
10	69818	O-Ring	1	
11	69819	Back-Up Ring	1	
12	69820	O-Ring	1	
13	69821	Back-Up Ring	2	
14	69822	Seal, Piston	1	
15	69823	O-Ring	1	
16	69824	Ring, Piston	2	
17	69825	Cotter Key	1	
18	69826	Plug, 7/16 - 20 SAE	1	
19	69827	Bushing, Oilite	4	

NOTE PAGE



Mark Industries



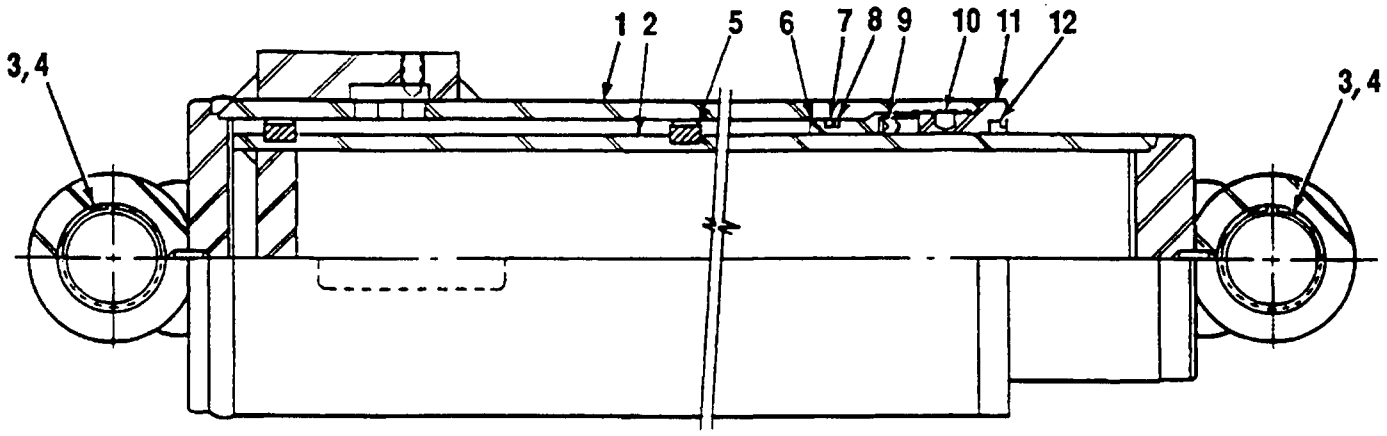
Ref.	Part No.	Description	Qty	Remarks
	134468	Lift Cylinder Assembly	1	Incl. Items 1 thru 7
1	133500	Lift Cylinder *Note: Due to dual Vendors, provide all numbers from the cylinder I.D. tag.*	1	See Pages 4.14 & 4.15
2	81492	Valve, Solenoid	1	
	68702	Coil	1	
	68703	Cartridge	1	
3	80050-03	Plug, Straight Thread	1	
4	80012-08	Elbow, Straight Thread	1	
5	60329	Capscrew	3	
6	63302	Lockwasher	3	
7	63402	Flatwasher	3	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

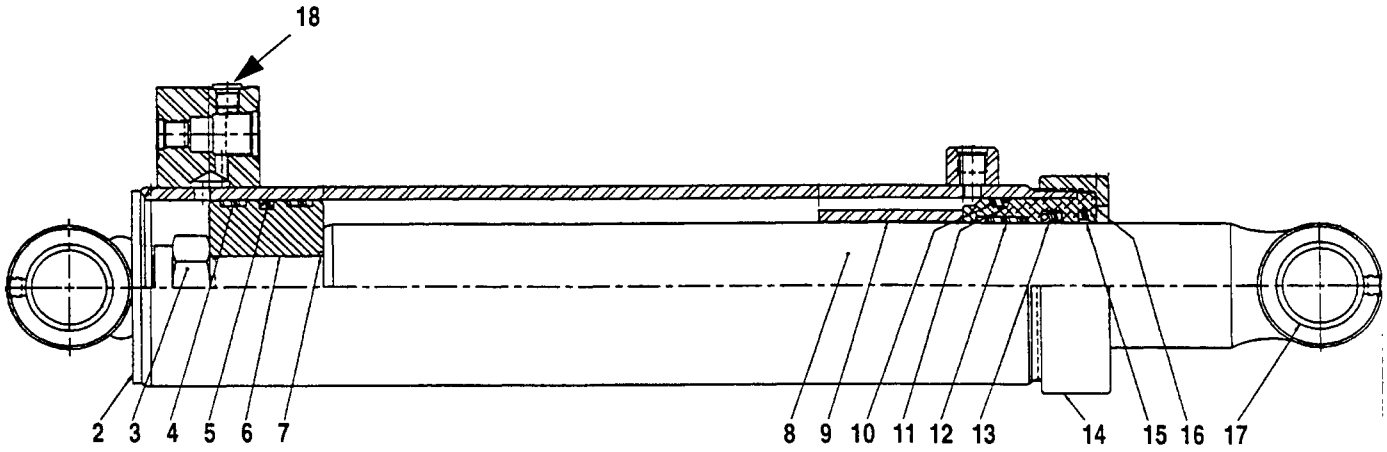
Issued 12-95

LIFT CYLINDER

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	133500	Lift Cylinder (GB)	1	Incl. Items 1 thru 12
	600367	Kit, Seal	1	Incl. Items w/Asterisk *
1	69847	Tube w/Bushing	1	
2	69848	Rod w/Bushing	1	
3	600368	Bushing	4	
4	69849	Spacer	2	
5	69850	Piston (Ring)	2	
6	69851	Bearing	1	*
7	69852	O-Ring	1	*
8	69853	Back-Up	1	*
9	69854	U-Ring	1	*
10	69855	Nylon Plug	1	*
11	69856	Retainer	1	
12	69857	Wiper	1	



Ref.	Part No.	Description	Qty	Remarks
	135537	Lift Cylinder (Rosenboom)	Ref.	
1	68897	Kit, Seal	1	
2	68888	Barrel	1	
3	68887	Nut, Piston	1	
4	68896	Wear Band	2	
5	68895	T-Seal	1	
6	68886	Piston	1	
7	68894	O-Ring	1	
8	68885	Rod, Piston	1	
9	68884	Spacer, Rod	1	
10	68893	O-Ring	1	
11	68892	Back-Up Ring	1	
12	68891	Wear Band	1	
13	68890	U-Cup (Polypak)	1	
14	68883	Cap, Head Gland	1	
	68882	Set Screw	1	
15	68889	Wiper, Rod	1	
16	68881	Head Gland	1	
17	68880	Bushing, Oilite	4	
18	68879	Plug, SAE No. 4 O-Ring	1	

NOTES

SECTION 5 CONTAINS:

PAGE	TITLE
5.2	PLATFORM ASSEMBLY - CH20NEP/WEP, CH26NEP/WEP
5.7	PLATFORM ASSEMBLY - CH30EP
5.9	FOLD DOWN SWING GATE

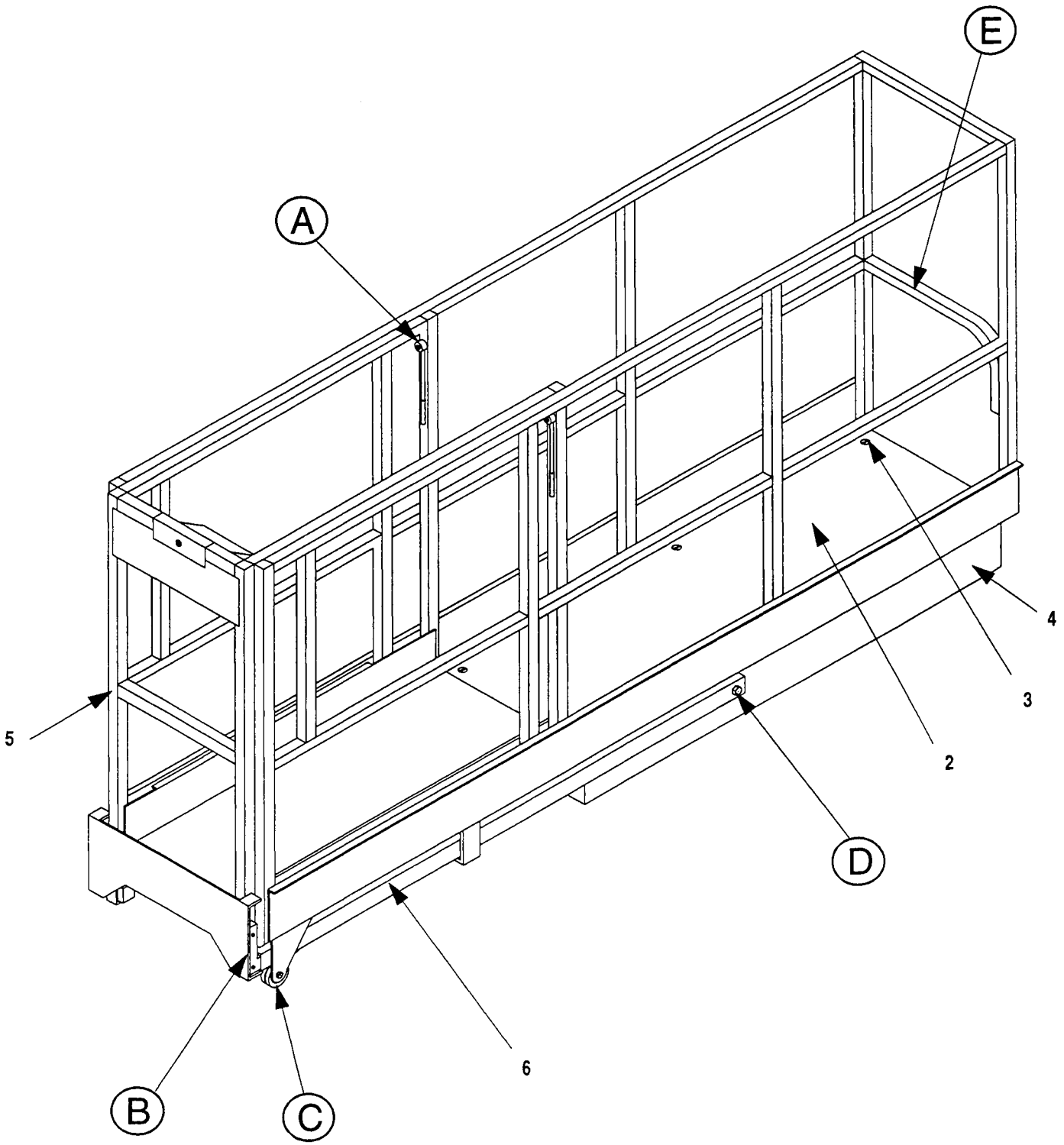
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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PLATFORM ASSEMBLY

CH20NEP/WEP, CH26NEP/WEP

Mark Industries



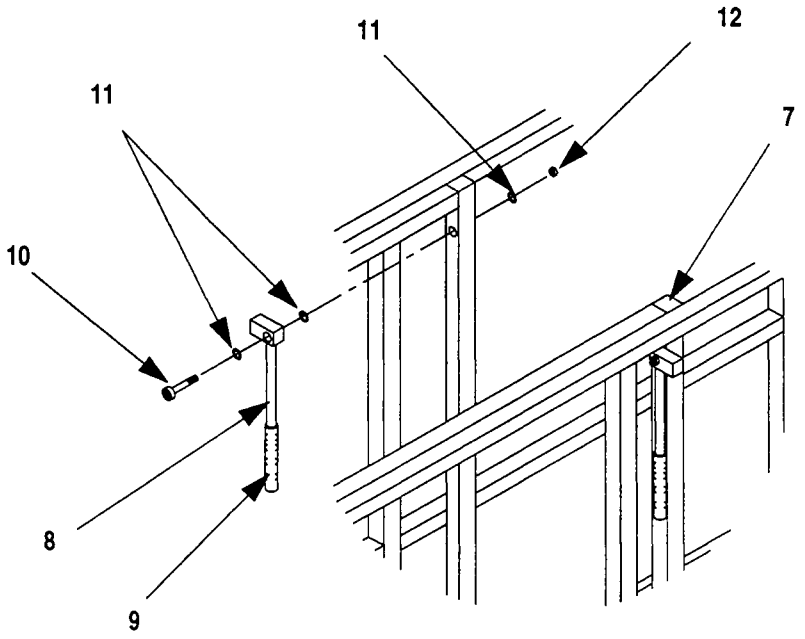
Ref.	Part No.	Description	Qty	Remarks
	135202	Assembly, Platform CH20NEP STD		Incl. Items 2 thru 31
	135653	Assembly, Platform W/Dry Wall Gate CH20NEP Option		Incl. Items 2 thru 31
	135619	Assembly, Platform W/Solid Rails CH20WEP/CH26NEP		Incl. Items 2 thru 31
	135645	Assembly, Platform W/Solid Rails CH26WEP		Incl. Items 2 thru 31
	135739	Assembly, Platform W/Fold Down Rails CH26WEP		Incl. Items 2 thru 31
	135682	Assembly, Platform W/Fold Down Rails CH20WEP/CH26NEP		Incl. Items 2 thru 31
A	(Detail "A")	Handle Assembly, Extendable Deck	Ref.	
B	(Detail "B")	Slide Assembly, Extendable Deck	Ref.	
C	(Detail "C")	Roller Assembly	Ref.	
D	(Detail "D")	Roller Assembly	Ref.	
E	(Detail "E")	Swing Gate Assembly	Ref.	
2	135752	Floor, Plywood W/135202 & 135653	1	
	135630	Floor, Plywood W/135619 & 135682	1	
	135740	Floor, Plywood W/135645 & 135739	1	
3	61713	Capscrew, Self Tapping	11	
4	135295	Weldment, Main Deck W/135202	1	
	135652	Weldment, Main Deck W/135653	1	
	135607	Weldment, Main Deck W/135619		
	135743	Weldment, Main Deck W/135645		
	135736	Weldment, Main Deck W/135739		
	135675	Weldment, Main Deck W/135682		
5	135290	Weldment, EP Deck W/135202 & 135653	1	
	135612	Weldment, EP Deck W/135619	1	
	135744	Weldment, EP Deck W/135645	1	
	135730	Weldment, EP Deck W/135739	1	
	135674	Weldment, EP Deck W/135682	1	
6	135289	Weldment, Slide	2	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

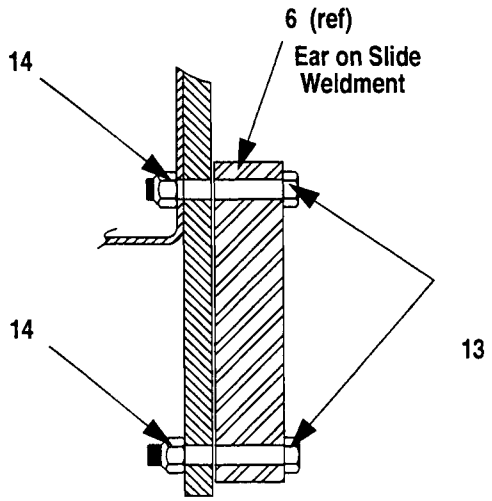
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PLATFORM ASSEMBLY

Mark Industries

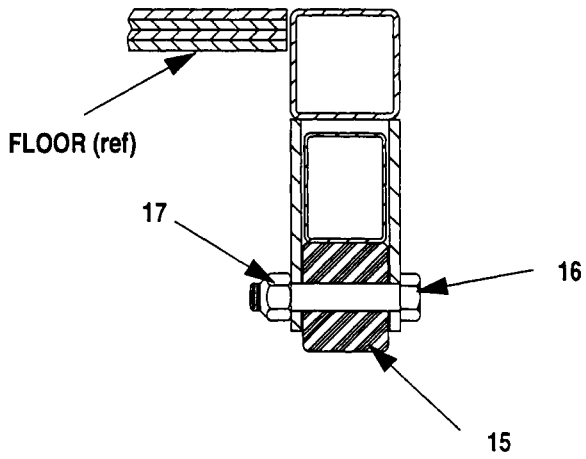


DETAIL "A"

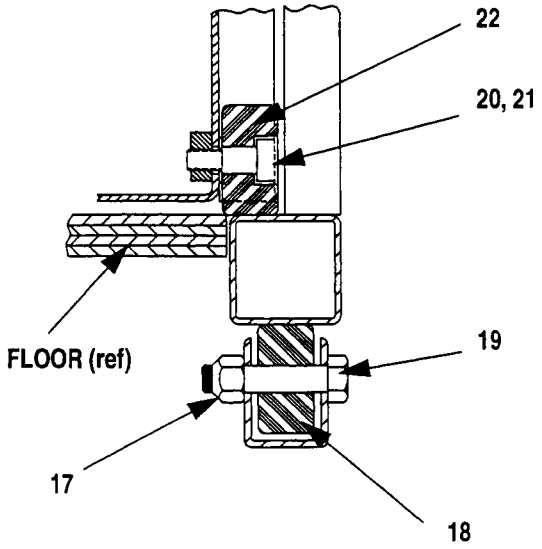


DETAIL "B"

Ref.	Part No.	Description	Qty	Remarks
"A"	(Detail "A")	Handle Assembly, Extendable Deck		
7	91541	Cap, Plug	8	
8	133119	Handle, Hand Rail	2	
9	160311	Grip, Handle	2	
10	160290	Screw, Shoulder	2	
11	1209-63	Flat Washer, 3/8	12	
12	61246	Locknut, 5/16-18 Nylon Insert	2	
"B"	(Detail "B")	Slide Assembly, Extendable Deck		
13	1200-71	Capscrew, 3/8-16 x 2-1/2 GR5	4	
14	1205-45	Locknut, Hex Head 3/8-16	4	



DETAIL "C"



DETAIL "D"

Ref.	Part No.	Description	Qty	Remarks
"C" "D"	(Detail "C" & "D")	Roller Assembly		
15	135206	Roller	2	
16	1200-110	Capscrew, 1/2NC x 2-3/4 GR5	2	
17	1205-67	Locknut, Hex Head 1/2-13	4	
18	130652	Roller	2	
19	1200-106	Capscrew, 1/2NC x 2-1/4 GR5	2	
20	62101	Screw, Socket Head	2	
21	331 2000	Flat Washer, 3/8	2	
22	31161	Roller	2	

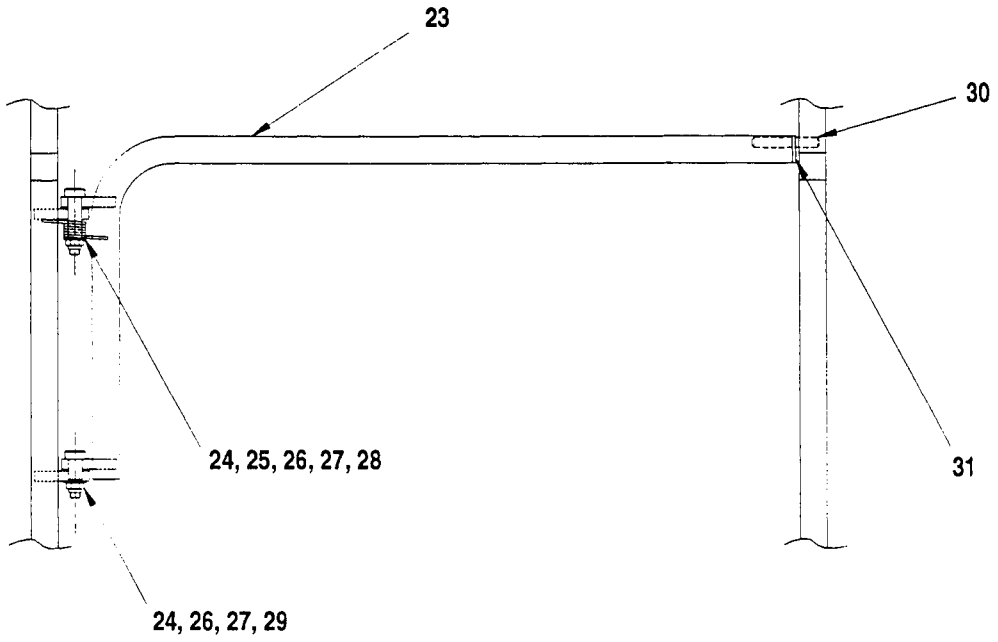
Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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PLATFORM ASSEMBLY

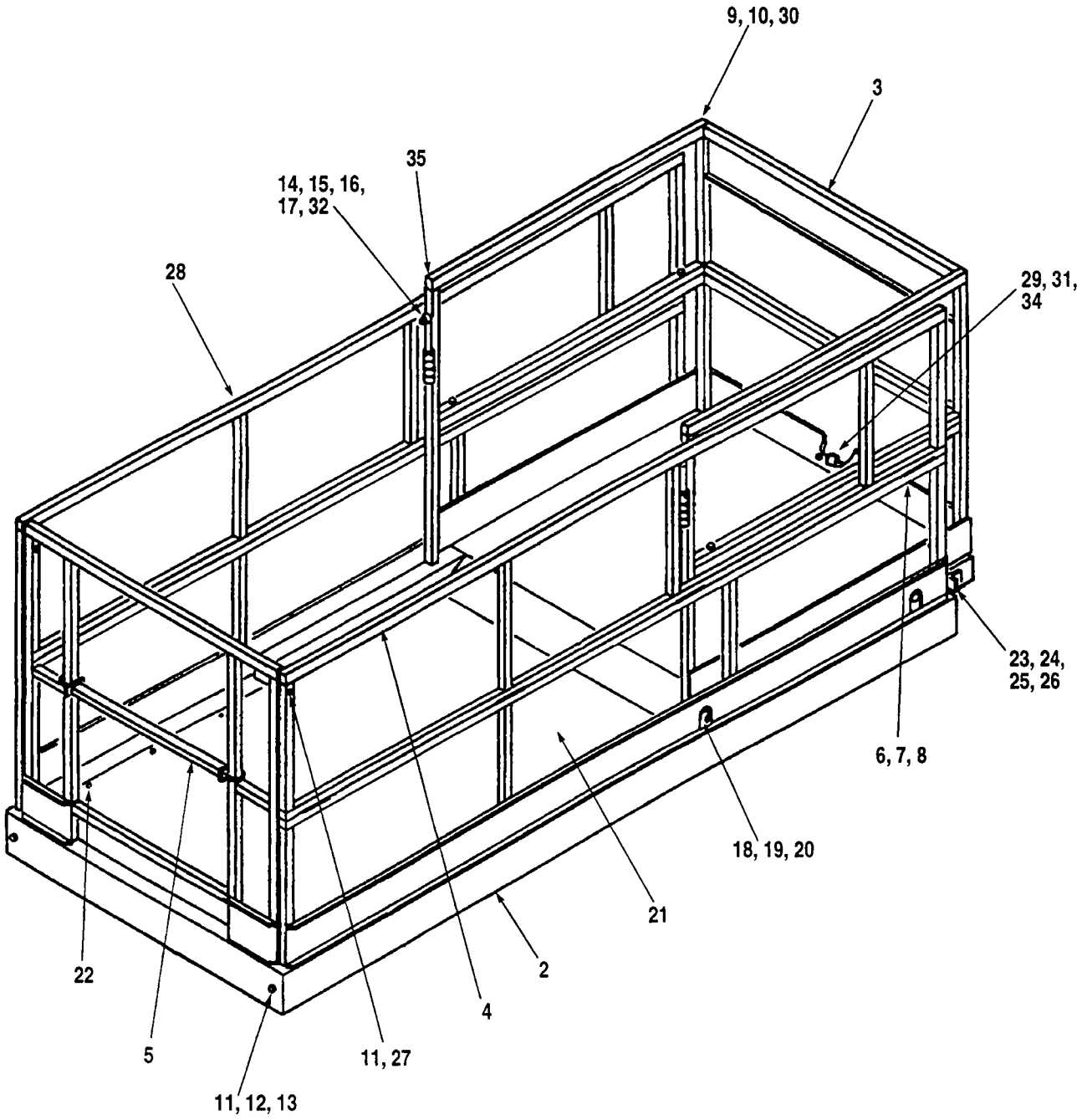
CH20NEP/WEP, CH26NEP/WEP

Mark Industries



DETAIL "E"

Ref.	Part No.	Description	Qty	Remarks
"E"	(Detail "E")	Swing Gate Assembly	Ref.	
23	135337	Gate (Standard) CH20NEP, CH20WEP	1	
	135654	Gate (Dry Wall) CH20NEP	1	
24	160643	Thrust Bearing	2	
25	1203-150	Bolt, Shoulder	1	
26	1209-4	Flat Washer	2	
27	1205-45	Locknut, .38 UNC	2	
28	135329	Spring, Gate	1	
29	315 6304	Bolt, Shoulder	1	
30	372 1535	Cap	1	
31	91541	Cap, Plug	1	


9, 10, 30
3
35
14, 15, 16,
17, 32
28
29, 31,
34
23, 24,
25, 26
6, 7, 8
18, 19, 20
21
2
4
22
5
11, 27
11, 12, 13

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

PLATFORM ASSEMBLY
CH30EP

Mark Industries

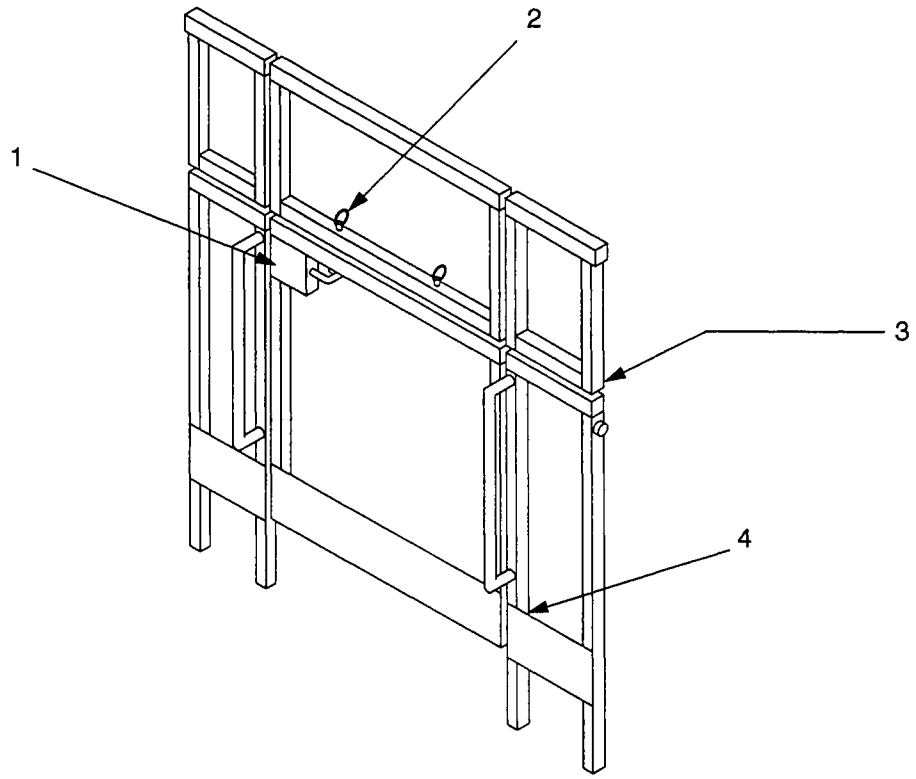
Ref.	Part No.	Description	Qty	Remarks
1	133390	Assembly, Extendable Platform	Ref	Incl. 2 - 4 & 6 - 35
2	133439	Weldment, Main Platform	1	
3	134445	Weldment, Extendable Platform	1	
4	134443	Rail, R.H. Side Guard	1	
5	133389	Fold Down Gate	1	See Page 5.8 For Details
6	134475	Bracket, Rail	1	
7	60324	Screw	2	
8	1210-17	Washer, Lock	2	
9	16217	Pop Rivet	4	
10	65795	Pin, Ball Lock	4	
11	1200-19	Screw, Cap	6	
12	1210-14	Washer, Lock	8	
13	1205-13	Nut, Hex	8	
14	133119	Weldment, Hand Rail Handle	2	
15	1209-63	Washer, Flat	6	
16	160290	Screw, Shoulder	2	
17	61322	Nut, Lock	2	
18	37808	Tube	4	
19	61232	Nut, Lock	4	
20	65555	Follower, Cam	4	
21	133476	Plywood, Floor	1	
22	61713	Screw, Self-Tapping	13	
23	133092	Bracket, Stop	2	
24	1200-59	Screw, Cap	4	
25	60333	Washer, Lock	4	
26	1205-36	Nut, Hex	4	
27	60711	Nut, Hex	2	
28	134440	Rail, L.H. Side Guard	1	
29	133135	Bracket, Cable	1	
30	65669	Lanyard	4	
31	63313	Washer, Lock	2	
32	160311	Grip, Handle	2	
33	1209-44	Flat Washer	2	
34	160292	Capscrew, Socket Button	2	
35	91541	Cap Plug, 1" Square	18	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

Issued 12-95

FOLD DOWN SWING GATE

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	133389	Swing Gate	Ref.	
1	16231	Latch Bolt	1	
2	30701	Ball-Lock	2	
3	12008	Hinge, Continuous	4	
4	12005	Hinge, Spring	2	

SECTION 6 CONTAINS:

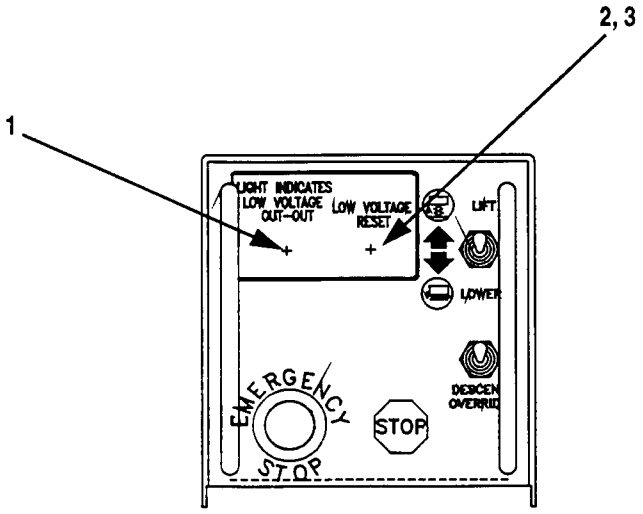
PAGE	TITLE
6.2	LOW VOLTAGE CUT-OFF
6.3	TRAVEL & ALL MOTION ALARM
6.4	AMBER BEACONS
6.5	PLATFORM LIGHT
6.6	METER, HOUR
6.7	BATTERY CHARGER, 200-250 VAC, 50 HZ

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

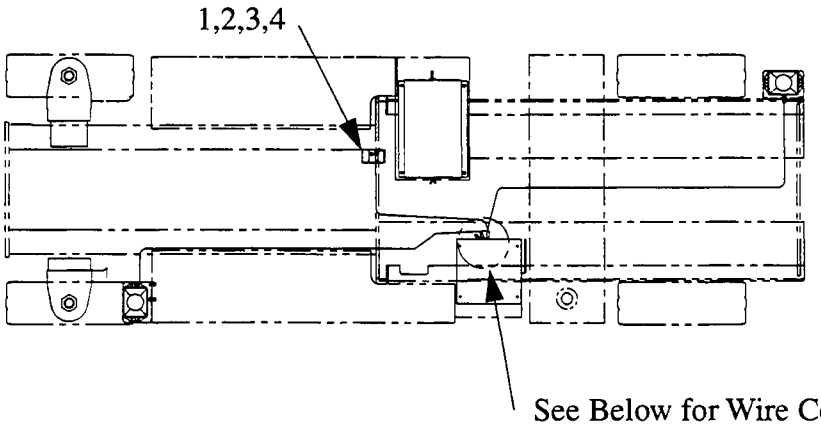
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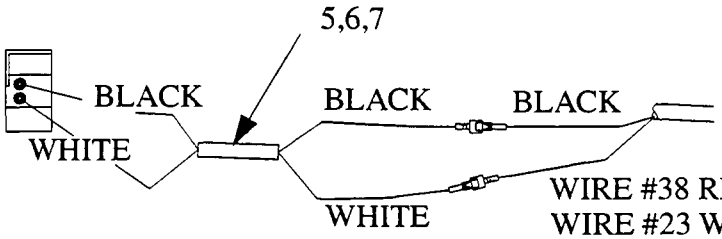
LOW VOLTAGE CUT-OFF

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	135777	Low Voltage Cut-Off (Optional)	Ref.	Incl. Items 1 thru 3
1	70781	Light, Red	1	
2	4011	Switch, Pushbutton	1	
3	70373	Boot, Pushbutton	1	

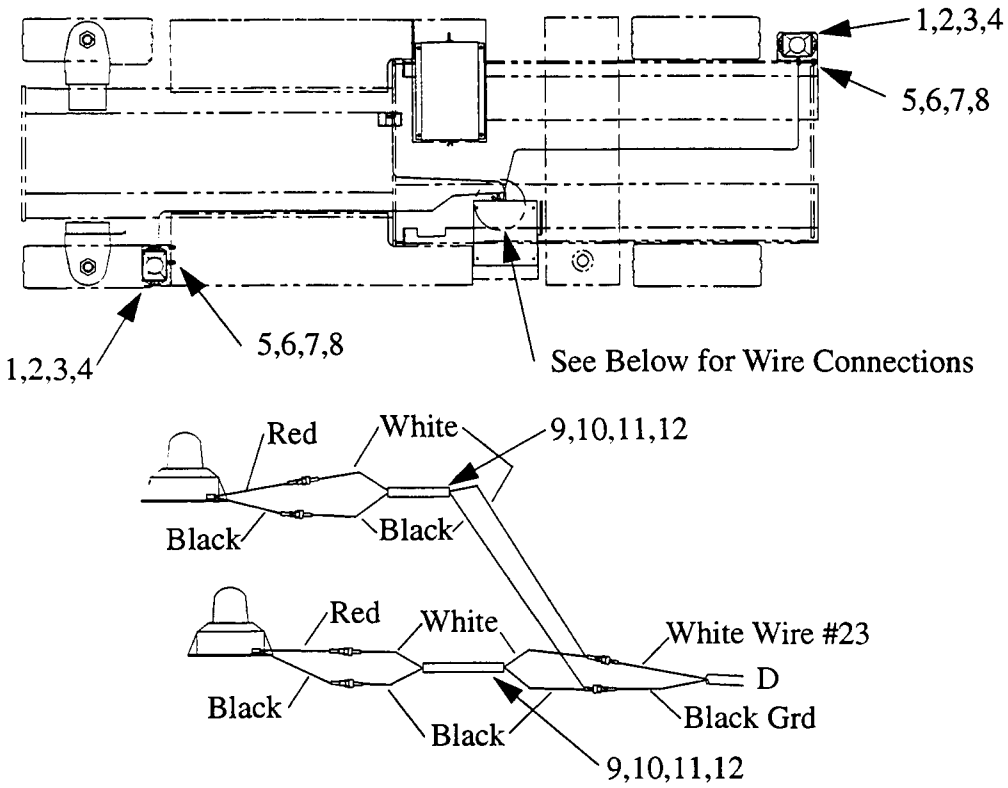




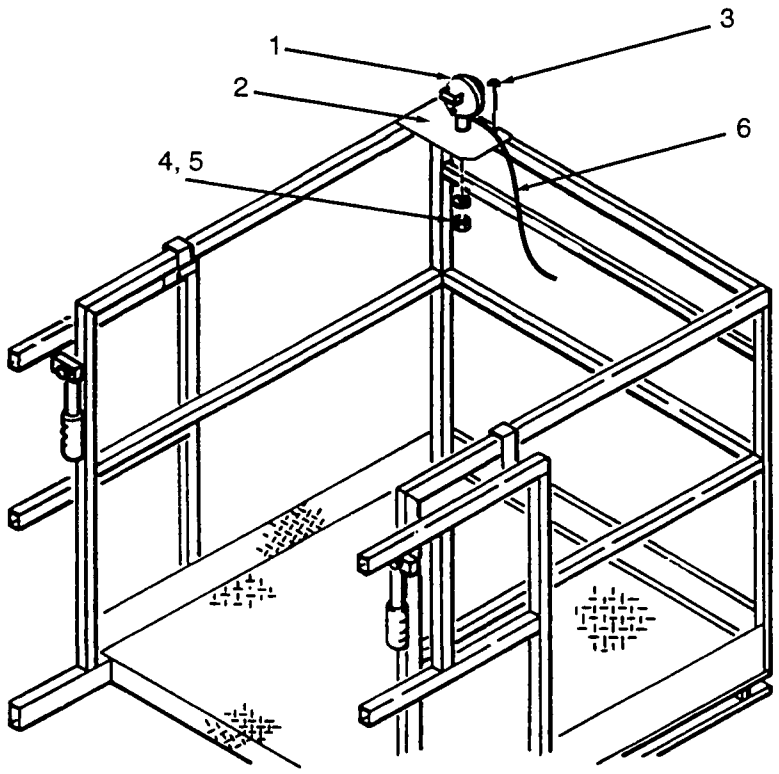
Ref.	Part No.	Description	Qty	Remarks
	135320-3	Travel Warning Horn Assembly	Ref.	Includes Items 1 thru 7
	135320-4	All Motion Horn	Ref.	Includes items 1 thru 7
1	70894	Horn	1	
2	1209-2	Flatwasher	2	
3	61312	Locknut	2	
4	1200-334	Capscrew	2	
5	70767	Wire	1	
6	70270	Terminal	2	
7	1222-184	Tie Wrap	6	

AMBER BEACONS

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	135320-2	Amber Beacon Assembly	Ref.	Incl. Items 1 thru 12
1	70837	Amber Beacon	2	
2	311 1637	Capscrew #10-32 x .50	4	
3	332 0900	Lockwasher	4	
4	1205-6	Nut	4	
5	135319	Bracket, Mounting	2	
6	1200-334	Capscrew .25c x .62	4	
7	1205-21	Nut .25c	4	
8	1210-14	Lockwasher	4	
9	70767	Wire, 12 Feet	1	
10	70501	Terminal	4	
11	70500	Terminal	4	
12	1222-184	Tie Wrap	8	



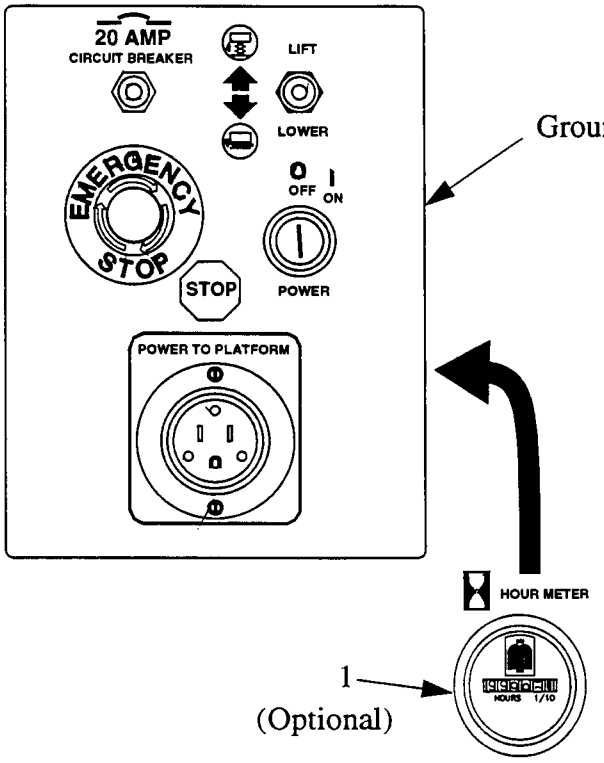
Ref.	Part No.	Description	Qty	Remarks
	132146	Platform Worklight Ass'y	Opt.	Incl. Items 1 thru 6
1	70878	Worklight	1	
2	135683	Bracket, Worklight	1	
3	63654	Pop Rivet	4	
4	1200-314	Capscrew	2	
5	1205-32	Locknut, 1/4C	2	
6	70767	Cable	1	

Models CH20NEP/WEP
CH26NEP/WEP
CH30EP

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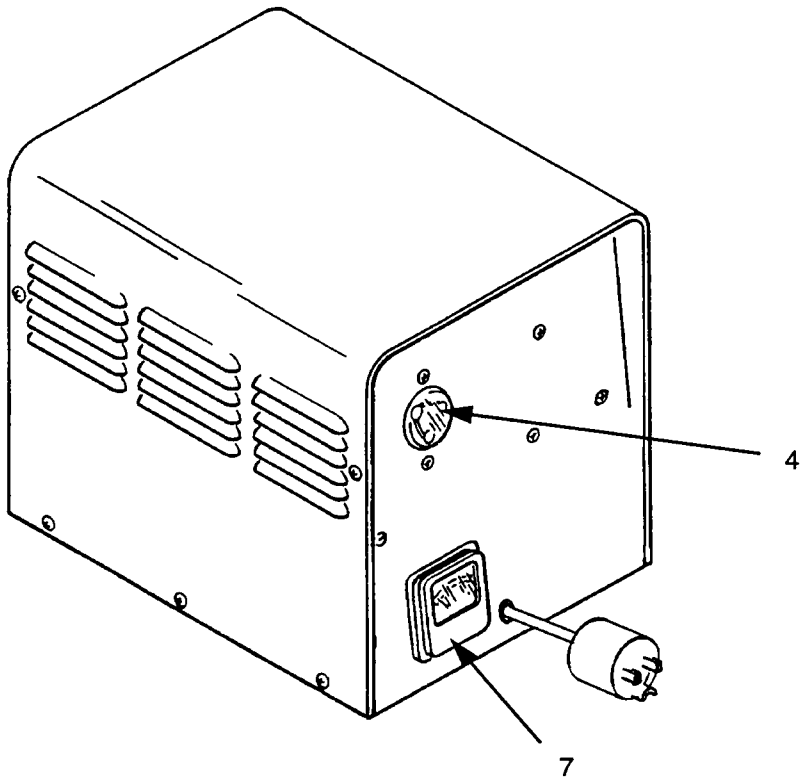
HOUR METER

Mark Industries



Hour meter located on side

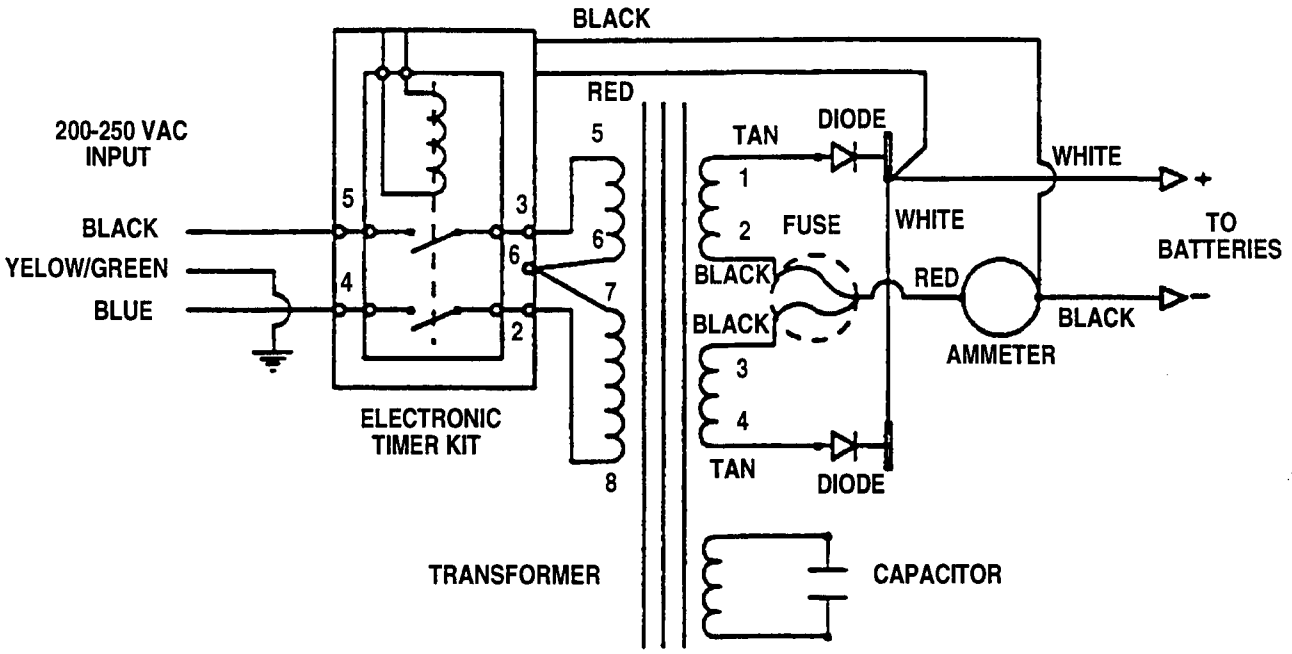
Ref.	Part No.	Description	Qty	Remarks
1	20571	Hour meter (Optional)	1	



Ref.	Part No.	Description	Qty	Remarks
-	70832	Battery Charger, 200-250 VAC, 50 HZ	Ref.	
1	69762	Assembly, Transformer	1	
2	66750	Capacitor (6.0 MFD, 660 VAC)	1	
3	69733	Assembly, Heat Sink (With Diodes)	1	
4	66726	Assembly, Fuse	1	
5	69734	Kit, Electronic Timer	1	
6	600270	Relay	1	
7	66747	Ammeter	1	

BATTERY CHARGER
200-250 VAC, 50 HZ

FOR USE WITH 200-250VAC



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ALPHABETICAL LIST

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