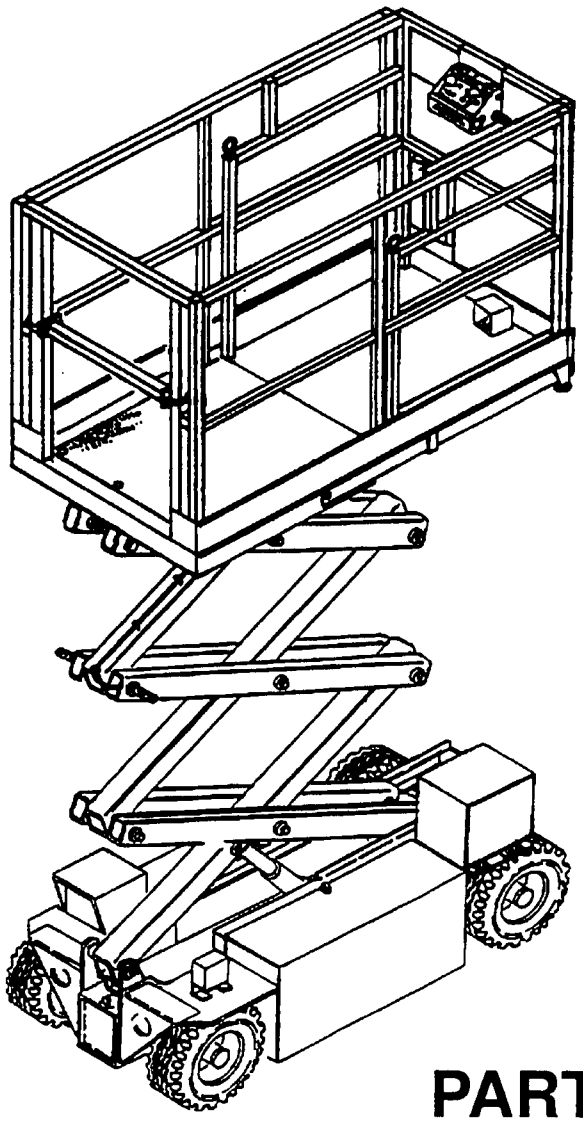
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SCISSOR LIFT MODELS:

J14EP
J14EPI/TUV

Starting with Machines Produced after Jan 1 1995



PARTS MANUAL

MARK INDUSTRIES
106 12th Street S.E.
Waverly, Iowa 50677-4207
(319) 352-3920
(319) 352-5727 FAX

Issued: 1 Feb 94
Revised: April 96

P/N 17237

SECTION 1 CONTAINS:

PAGE	TITLE
1.1	NOTICE TO USERS
1.2	TABLE OF CONTENTS
1.3	HOW TO USE THE PARTS MANUAL
1.4	HOW TO ORDER PARTS

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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1.2	TABLE OF CONTENTS
1.3	HOW TO USE THE PARTS MANUAL
1.4	HOW TO ORDER PARTS

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8.1	NUMERICAL PARTS LIST

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HOW TO USE THE PARTS MANUAL

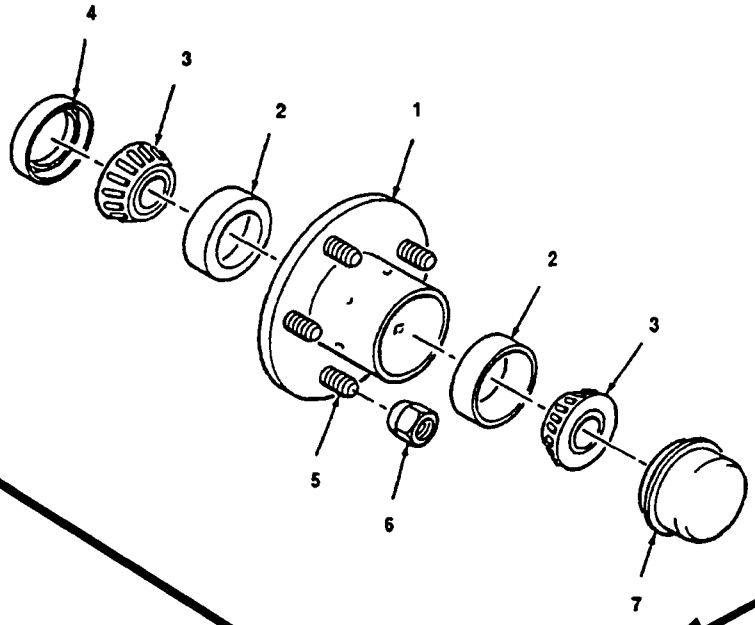
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Mark Industries

HUB ASSEMBLY

Models CH20NEP/WEP
CH26NEP/WEP
Issued 2-94

3
3.11 Page



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 colmun 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 use 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

HOW TO ORDER PARTS

Mark Industries

1B

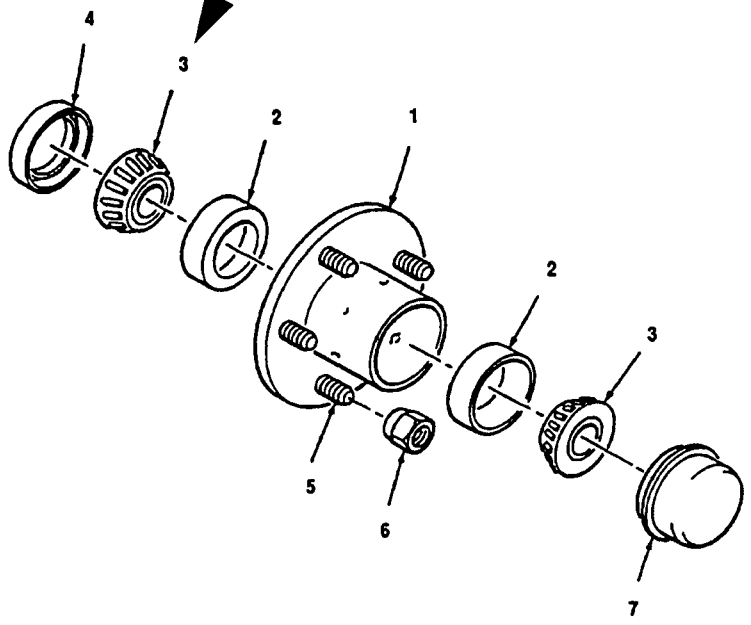
1A

Mark Industries

HUB ASSEMBLY

Models CH20NEP/WEP
CH26NEP/WEP
Issued 2-94

3
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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 withthe 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
Waverly, IA 50677 - 4207

ABBREVIATONS 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	STD	STANDARD
GR	GRADE	T	TOOTH
GSK	GASKET	THK	THICK
HD	HEAD	THRU	THROUGH
HEX	HEXAGON	TEMP	TEMPERATURE
HP	HORSEPOWER	V	VOLT
HSG	HOUSING	VAC	VOLTS ALTERNATING CURRENT
HT	HEAT TREATED	VARI	VARIABLE
HYD	HYDRAULIC	VS	VARIABLE SPEED
HZ	HERTZ	W/	WITH
ID	INSIDE DIAMETER	W/0	WITHOUT
INCL	INCLUDES		

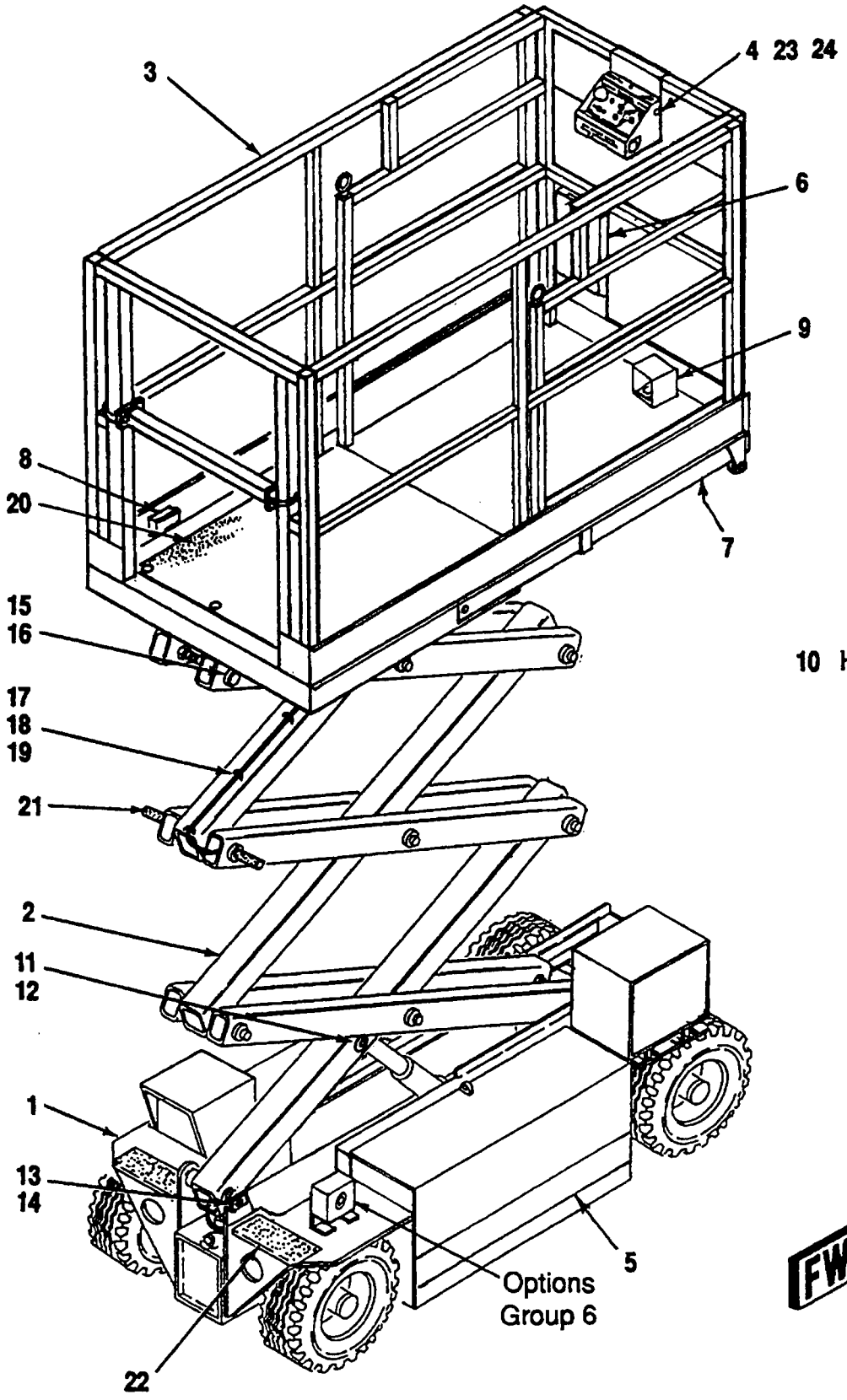
SECTION 2 CONTAINS:

PAGE	TITLE
2.2	FINAL ASSEMBLY
2.4	MANUAL HOLDER
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2.13	HYDRAULIC ASSEMBLY
2.16	DECALS & PAINT

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FINAL ASSEMBLY

Mark Industries



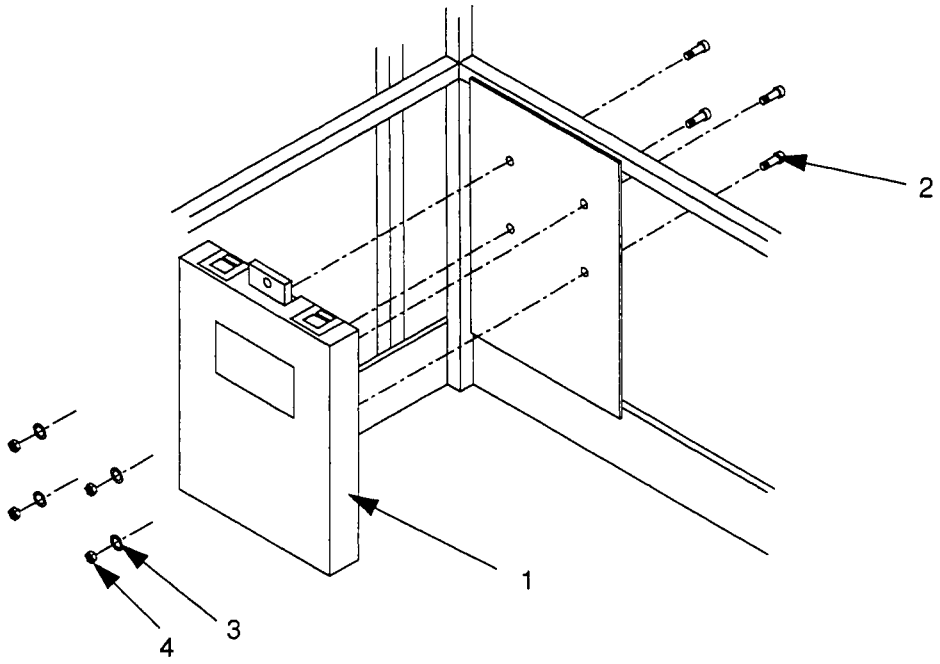
10 Hydraulic Hoses

Ref.	Part No.	Description	Qty	Remarks
	130098	Final Assembly - J14EP	Ref.	Domestic
	135385	Final Assembly - J14EPI	Ref.	International
	135402	Final Assembly - J14EPI/TUV	Ref.	International Special
1	130101	Frame Assembly - J14EP	1	See Page 3.2
	135477	Frame Assembly - J14EPI	1	
	135401	Frame Assembly - J14EPI/TUV		1
2	130141	Scissor Assembly - J14EP, J14EPI	1	See Page 4.2
	135444	Scissor Assembly - J14EPI/TUV		1
3	134824	Platform Assembly - J14EP	1	See Page 5.2
	135424	Platform Assembly - J14EPI	1	
	135425	Platform Assembly - J14EPI/TUV		1
4	135763	Aerial Control Box - J14EP	1	See Page 2.6
	135450	Aerial Control Box - J14EPI	1	See Page 2.8
	135339	Aerial Control Box - J14EPI/TUV	1	See Page 2.8
5	135478-1	Paint & Decals - J14EP	Ref.	See Page 2.16
		Paint & Decals - J14EPI/TUV	Ref.	See Page 2.18
6		Manual Holder	Ref.	See Page 2.4
7	135460	Proximity Switch	Ref.	See Page 2.5
8	134812	Platform Wiring Assembly (110v)	Ref.	See Page 6.10
	132009	Platform Wiring assembly (220v)	Ref.	Wire Only
9	141094	Foot Switch Assembly	1	See Page 5.7
10		Hydraulic Hose Diagram	Ref.	See Page 2.12
11	130233	Pin	1	
12	62203	Setscrew, Socket	1	
13	130182	Pin	1	
14	64206	Roll Pin	1	
15	130169	Pin	1	
16	64206	Roll Pin	1	
17	764	Clamp, Rubber	7	
18	1200-1	Capscrew	16	
19	255	Plastic Tie (Large)	40	
20	160659	Paint, Anti-Skid	AR	
21	130595	Foot Step, Anti-Skid	2	
22	130331	Foot Step, Anti-Skid	2	
23	17253	Maintenance Manual	1	
24	17421	Safety Manuall	1	
	134864	Hydraulic Schematic - J14EP	1	
	135365	Hydraulic Schematic - J14EPI/TUV		1
	134861	Electrical Schematic	1	
	65116	Hydraulic Oil		4.3 Gal.

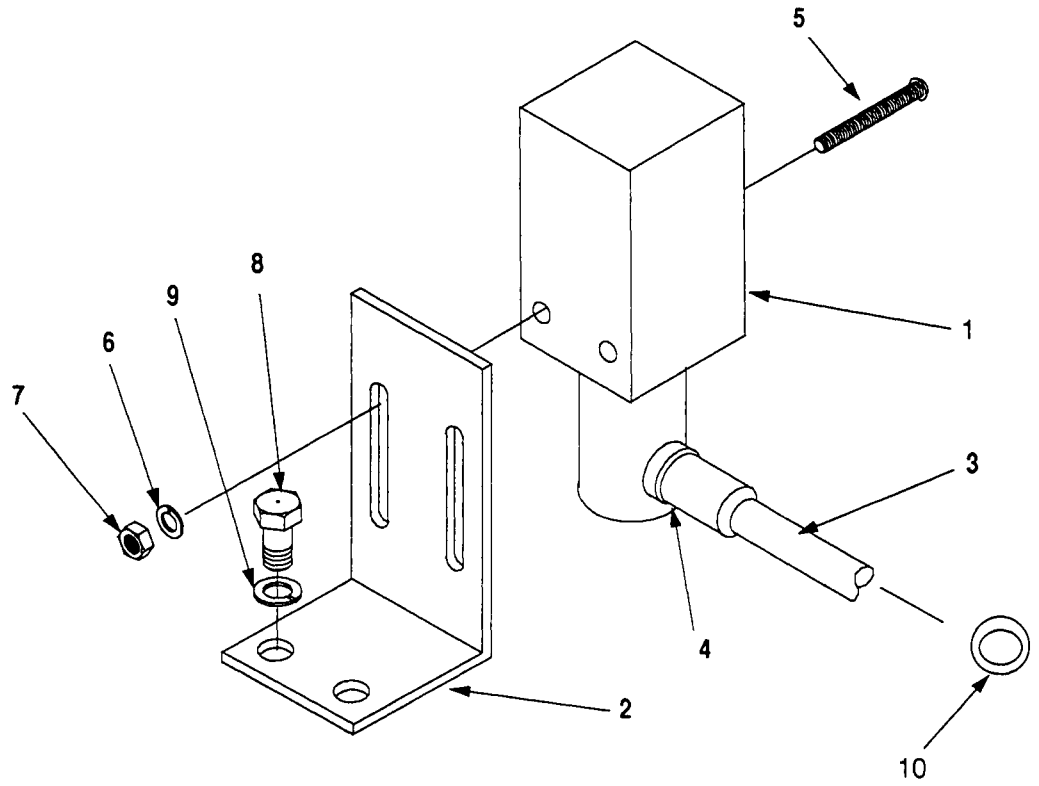
Models J14EP
J14EPI/TUV
Issued 4-96

FINAL ASSEMBLY CONTINUED

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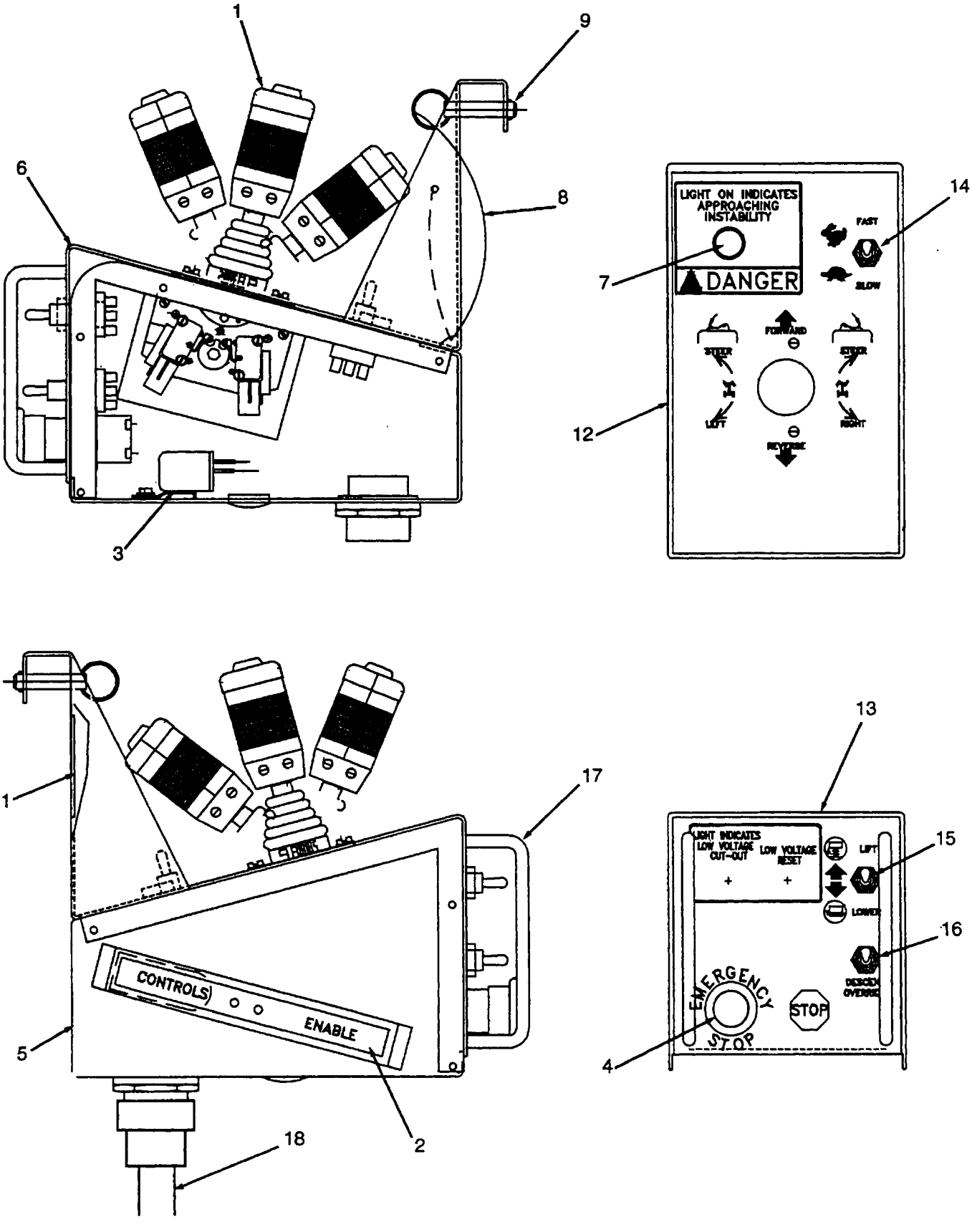
Ref.	Part No.	Description	Qty	Remarks
1	135322	Manual Box	1	
2	61921	Capscrew, 1/4C x 1/2	4	
3	1209-2	Washer	4	
4	1205-13	Nut	4	



Ref.	Part No.	Description	Qty	Remarks
	135460	Proximity Switch Ass'y	1	Incl. Items 1 thru 9
1	135438	Bracket	1	
2	441 6834	Switch, Proximity	1	
3	441 6835	Cable	1	
4	70807	Contact Socket	6	
5	62615	Machine Screw, #10-32	2	
6	1210-7	Lockwasher, #10	2	
7	1205-6	Nut, #10-32	2	
8	1200-309	Capscrew, 1/4C x 1/2	2	
9	1210-14	Lockwasher, 1/4	2	
10	70016	Grommet	1	

AERIAL CONTROL BOX ASSEMBLY

Mark Industries



AERIAL CONTROL BOX ASSEMBLY

Ref.	Part No.	Description	Qty	Remarks
	135763	Aerial Control Box Assembly	Ref.	Incl. Items 1 thru 17
1	69319	Controller	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	
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	135345-2	Cable	1	

Models J14EP
J14EPI/TUV
Issued 4-96

NOTES

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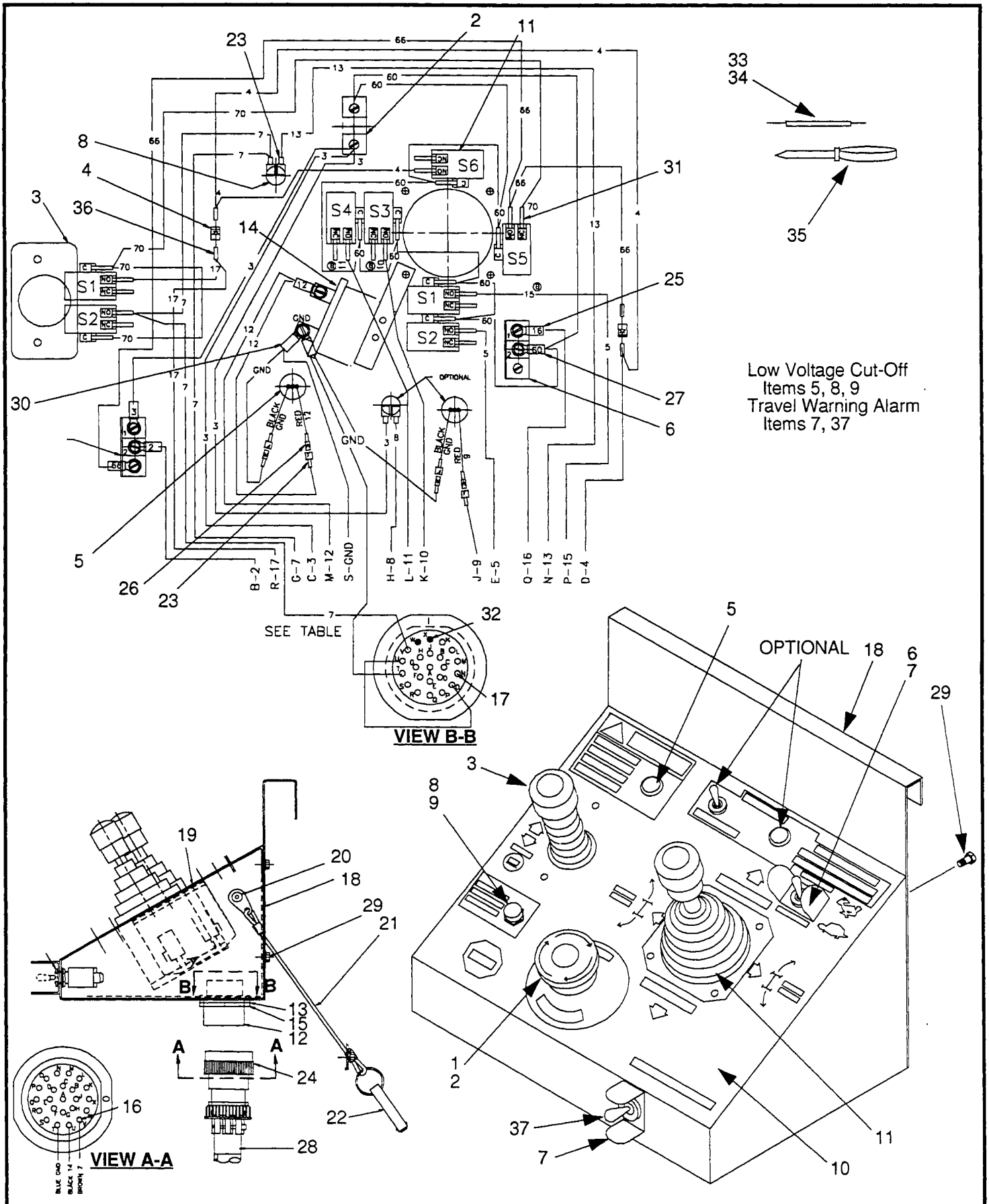
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Models J14EP
J14EPI/TUV
Issued 4-96

AERIAL CONTROL BOX
(J14EPI/TUV)

Mark Industries



AERIAL CONTROL BOX (J14EPI/TUV)

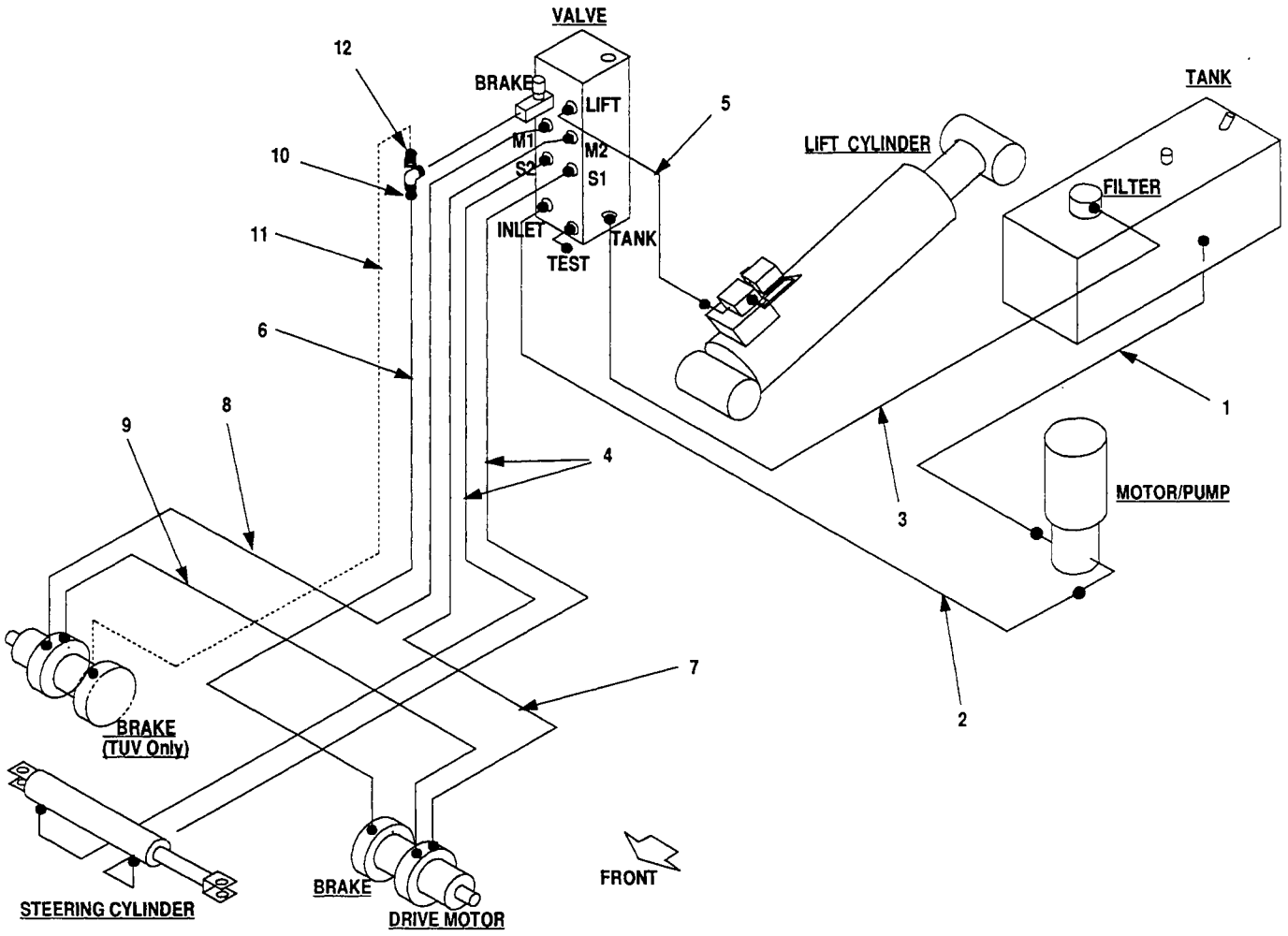
Models J14EP
J14EPI/TUV
Issued 4-96

Ref.	Part No.	Description	Qty	Remarks
	135450	Aerial Control Box - J14EP	Ref.	Incl. Items 1 thru 37
	135339	Aerial Control Box - J14EPI/TUV	Ref.	Incl. Items 1 thru 37
1	70645	Emergency Stop Mushroom	1	
2	70646	Contacts (N.C.)	1	
3	70853	Joystick (Single Axis)	1	Lift/Lower
4	70442	Diode	2	
5	70781	Light, Red	1	Unstable Condition
6	20482	Switch, Toggle	1	
7	70783	Guard, Switch	1	
8	4011	Switch, Push Button	1	Descent Override
9	70373	Boot, Push Button	1	
10	135451	Decal - J14EP	1	
	135341	Decal - J14EPI/TUV		
11	70852	Joystick, Dual Axis	1	Steer/Drive
12	70845	Connector, Receptacle	1	
13	70847	Lockwasher	1	
14	70333	Buzzer, 12V	1	
15	70848	Nut, Panel	1	
16	70806	Pin, Contact	3	
	69835	Crimp Tool	AR	Installation
17	70807	Socket, Contact	21	
18	135087	Back, Panel	1	
19	135362	Box, Control	1	
20	63651	Rivet, 1/8 x 1/2	1	
21	65669	Cable Ass'y	1	
22	65124	Pin (3/8" x 2")	1	
23	70500	Terminal, Female Disconnect	8	
24	135345-2	Cable Ass'y	Ref.	
25	70149	Ring Terminal (Pink)	7	
26	70501	Terminal, Male Disconnect	4	
27	2859	Ring Terminal (Blue)	1	
28	441 6835	Cable w/Connectors	Ref.	
29	310 1500	Capscrew, #10-24 x 1/2 Socket Head	8	
30	117-C	Ring Terminal (Blue)	3	
31	70782	Spade, Female	13	
32	70805	Plug, Sealing	2	
33	2990	Wire, White - 18 Ga.	AR	
34	70008	Wire, Yellow/Green - 18 Ga.	AR	
35	256	Cable Tie	AR	
36	70069	Butt Connector	4	
37	70057	Switch, Toggle (Momentary-on/off/on)	1	Opt. Travel Warning Alarm

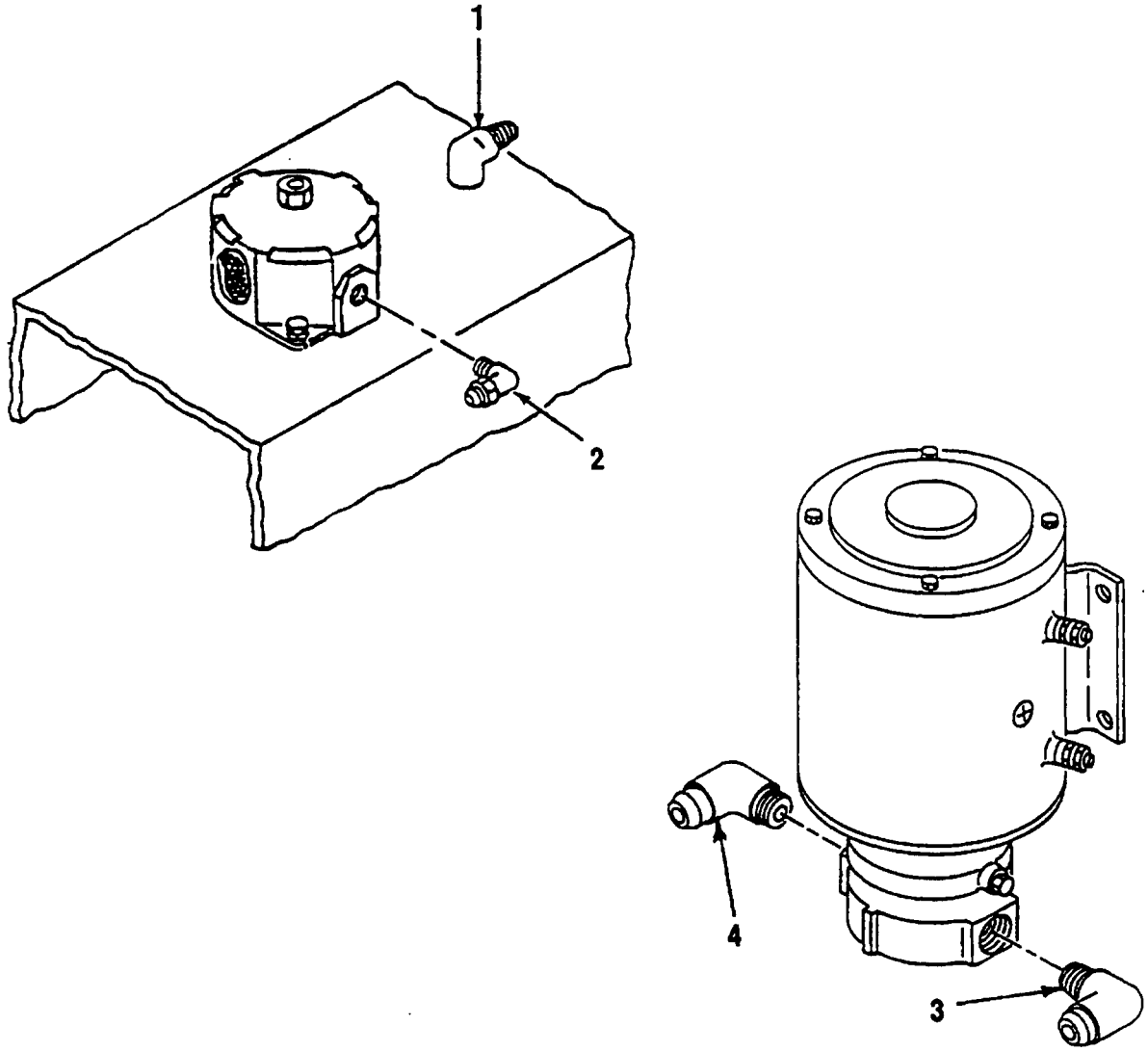
Models J14EP
J14EPI/TUV
Issued 4-96

HYDRAULIC HOSES

Mark Industries



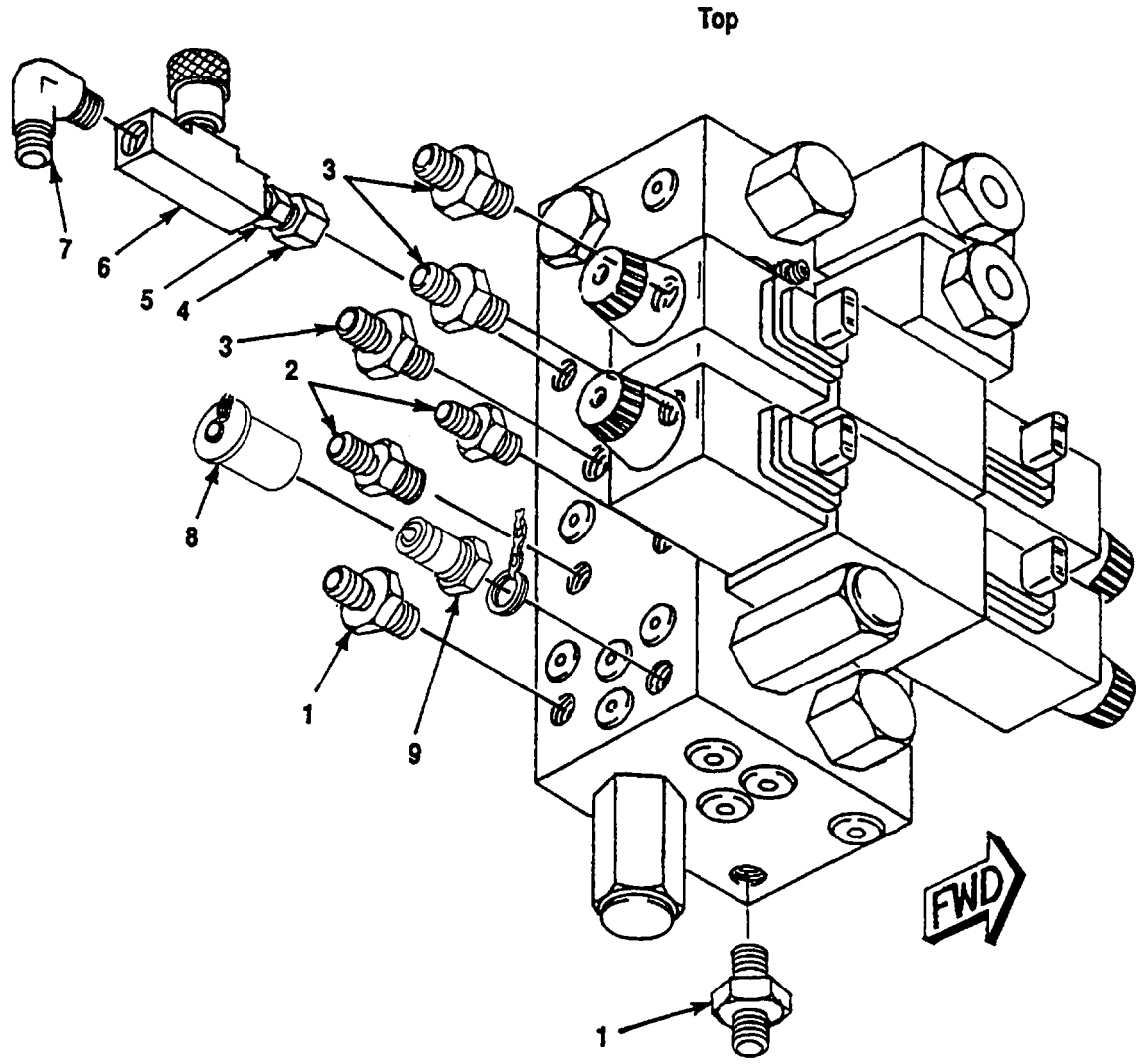
Ref.	Part No.	Description	Qty	Remarks
	133349	Hydraulic Hose Diagram - J14EP & J14EPI	Ref.	Incl. Items 1 thru 10
	135407	Hydraulic Hose Diagram - J14EPI/TUV	Ref.	Incl. Items 1 thru 9, 11,12
1	212095-9	Hose Ass'y	1	
2	212061-36	Hose Ass'y	1	
3	212095-20	Hose Ass'y	1	
4	212249-58	Hose Ass'y	2	
5	212249-38	Hose Ass'y	1	
6	212059-78	Hose Ass'y	1	
7	212252-78	Hose Ass'y	1	
8	212252-72	Hose Ass'y	1	
9	212250-58	Hose Ass'y	1	
10	1219-887	Elbow, Swivel	1	J14EP, J14EPI Only
11	212259-78	Hose Ass'y	1	J14EPI/TUV
12	80028-03	Tee, Swivel	1	J14EPI/TUV



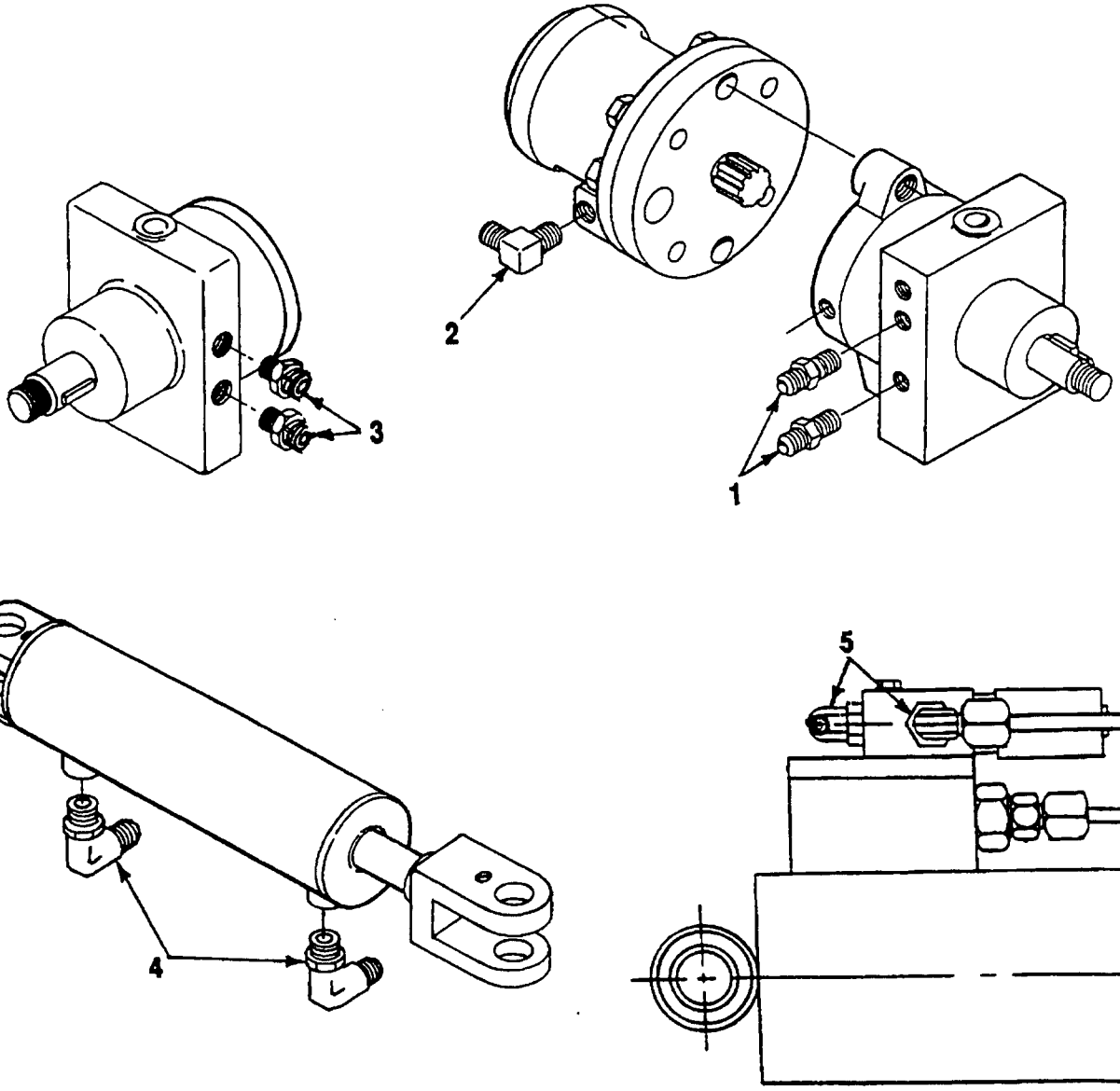
Ref.	Part No.	Description	Qty	Remarks
		Hydraulic Reservoir(Part of Frame) & Filter	Ref.	See Filter, Page 3.8
1	80021-03	Elbow, Straight	1	
2	80018-11	Elbow, Male	1	
	134929	Motor & Pump Ass'y	Ref.	See Page 3.19
3	80012-08	Elbow, Male	1	
4	80012-11	Connector, Male	1	

HYDRAULIC SYSTEM

Mark Industries



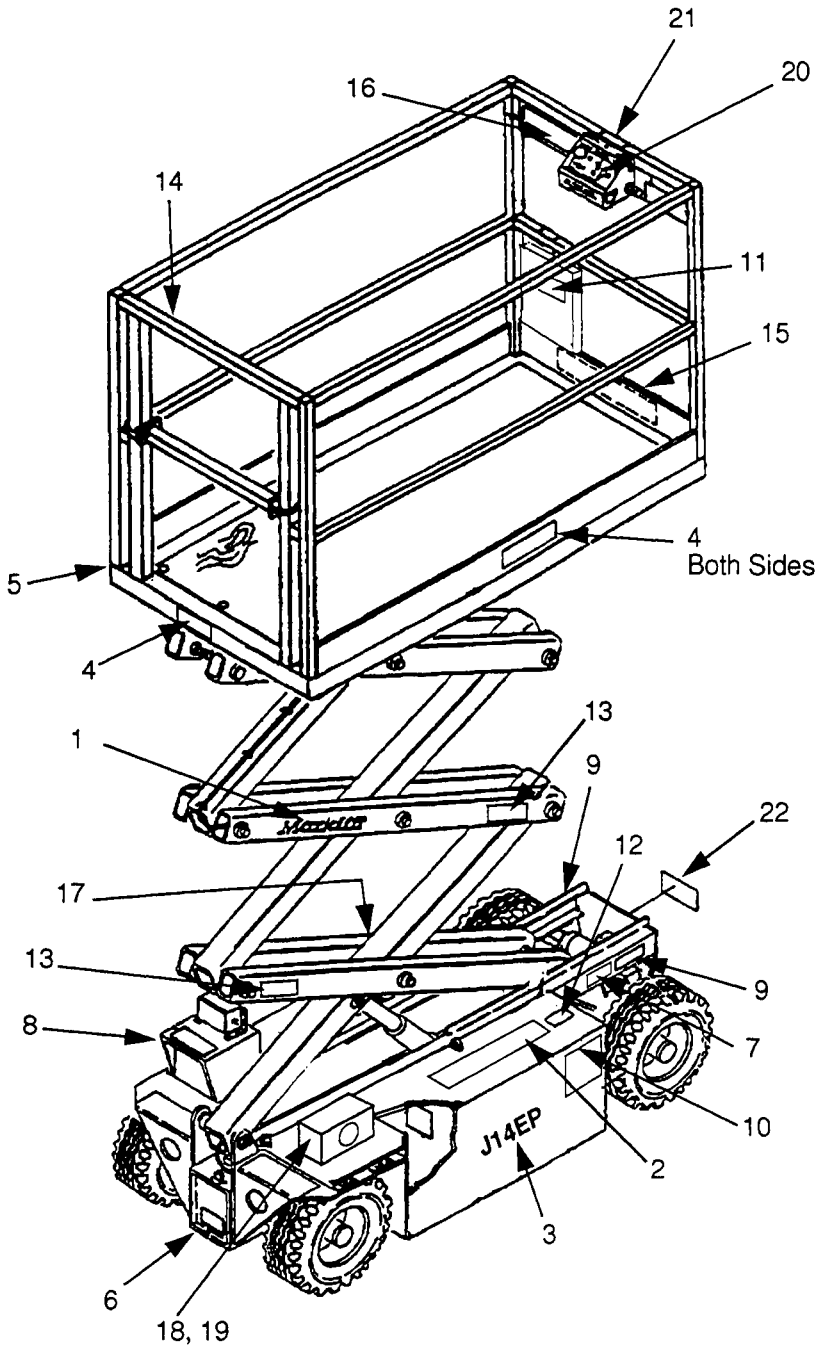
Ref.	Part No.	Description	Qty	Remarks
	134866	Control Valve Ass'y	Ref.	See Page 3.30
1	80004-08	Connector, Straight Thread	2	1219-605
2	80004-03	Connector, Straight Thread	2	1219-959
3	80004-05	Connector, Straight Thread	3	12019-205
4	51903	Adapter, Pipe Female	1	
5	80052-02	Nipple, Pipe	1	12019-327
6	30884	Valve, Flow Control	1	
7	80008-03	Elbow, Male	1	1219-943
8	12019-558	Cap, Dust	1	
9	375 6203	Coupling, Quick Disconnect	1	



Ref.	Part No.	Description	Qty	Remarks
	130239	LH Drive Motor & Parking Brake Ass'y	Ref.	See Page 3.13
1	80004-05	Connector, Straight Thread	2	
2	80004-03	Connector, Straight Thread	1	
	130238	RH Drive Motor Ass'y	Ref.	See Page 3.13
3	80004-05	Connector, Straight Thread	2	
	130237	Steering Cylinder Ass'y	Ref.	See Page 3.20
4	80004-03	Connector, Straight Thread	2	
	130236	Lift Cylinder Assembly	Ref	See Page 4.5
5	80012-05	Elbow, Straight Thread	2	

DECALS & PAINT

Mark Industries

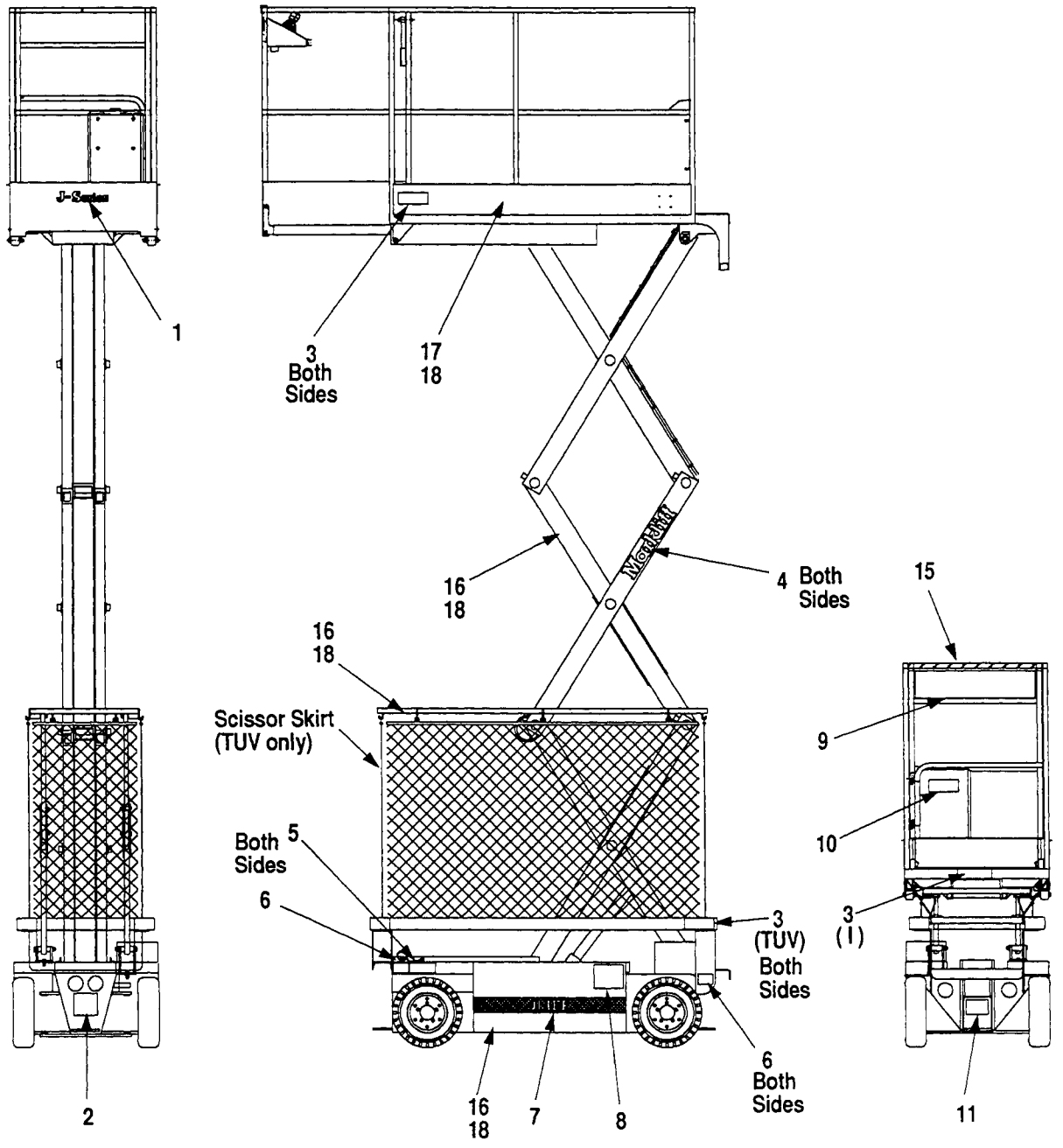


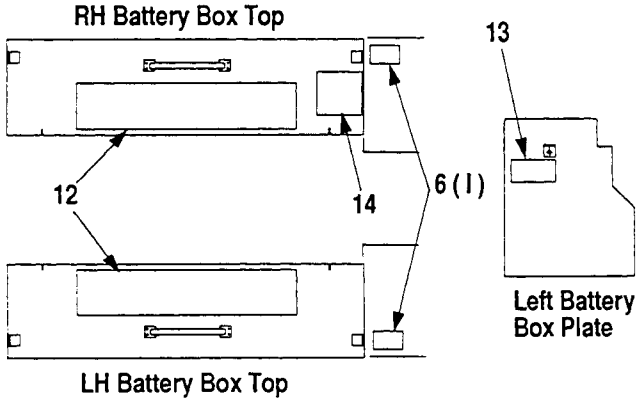
Ref.	Part No.	Description	Qty	Remarks
	135478-1	Paint & Marking Assembly	REF	
1	181935	Decal, Marklift	2	
2	181112	Decal, Battery Cover	2	
3	181965	Decal, J14EP	2	
4	181324	Decal, Load Capacity	3	
5	185724	Decal, 110 VAC	1	
6	183402	Decal, Hydraulic System Fluid	1	
7	183101	Decal, Tire Replacement	4	
8	135449	Decal, Ground Control Panel	1	
9	181303	Decal, Service Lock	2	
10	12400-570	Decal, American Flag	1	
11	181113	Decal, Operation & Maintenance Manuals	1	
12	181323	Decal, Parking Brake	1	
13	181328	Decal, Pinch Point	4	
14	160137	Tape, Warning	2.28'	
15	130937	Decal, J-Series	2	
16	181120	Decal, Control Box Location/E.P. Deck	1	
17	181825	Decal, Emergency Cable	1	
18	185702	Decal, Circuit Breaker 110 VAC	1	
19	185707	Decal, Power to Platform	1	
20	182815	Decal, Aerial Control Box	1	
21	181315	Decal, Upper Control Box	1	
22	181954	Name Plate	1	
	3900-115	Paint, White - Touch-Up	AR	
	3900-146	Paint, White - Gallon	AR	2 Gal. Req'd
	3900-131	Paint, Blue - Touch-Up	AR	
	3900-130	Paint, Blue - Gallon	AR	1/2 Gal. Req'd

Models J14EP
J14EPI/TUV
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DECALS & PAINT
(J14EPI/TUV)

Mark Industries





Ref.	Part No.	Part No.	Description	Qty	Remarks
	J14EPI	**J14EPI/TUV**			
	135478	135442	Paint & Marking Assembly	Ref.	Incl. Items 1 thru 18
1	130937	130937	Decal, J Series	1	
2	181939	181936	Nameplate, Identification	1	
3	181324	181316	Decal, Rated Work Load	3/4	
4	181935	181935	Decal, Marklift	2	
5	183303	184204	Decal, Service Stand	2	
6	183101	184004	Decal, Tire Replacement	4	
7	181940	181940	Decal, J14EP	2	
8	12400-570	12400-570	Decal, American Flag	1	
9	181116	181114	Decal, EP Deck	1	
10	184458	184458	Decal, Operation/Safety Manual	1	
11	183402	183403	Decal, Hydraulic	1	
12	181112	181115	Decal, Battery Cover	2	
13	181825	181827	Decal, Emergency Cable	1	
14	181323	184205	Decal, Parking Valve	1	
15	160137	160137	Tape, Warning	2.28'	
16	3900-114	3900-114	Paint, White	AR	2 Gallon Req'd.
	3900-115	3900-115	Paint, White - Aerosol	Ref.	
17	3900-130	3900-130	Paint, Blue	AR	1 Gallon Req'd.
	3900-131	3900-131	Paint, Blue - Aerosol	Ref.	
18	3900-109	3900-109	Primer	AR	1 Gallon Req'd.

NOTES

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SECTION 3 CONTAINS:

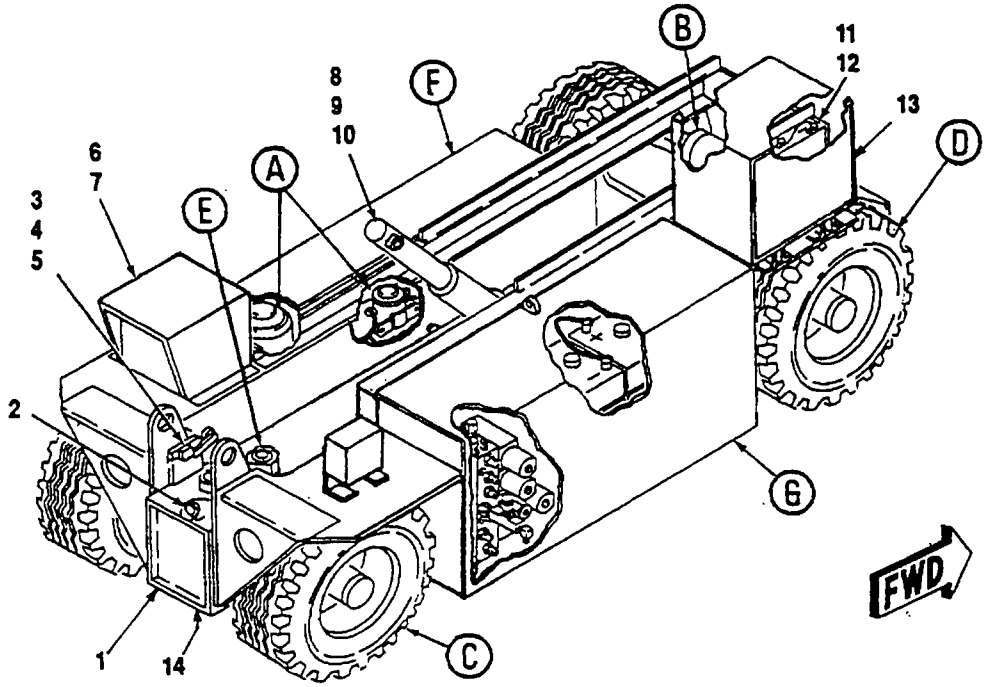
PAGE	TITLE
3.2	BASE ASSEMBLY
3.3	PUMP/MOTOR MOUNTING
3.4	STEERING & DRIVE MOTOR ASSEMBLY
3.6	TIRE & WHEEL ASSEMBLY
3.8	HYDRAULIC FILTER
3.9	TIE ROD ASSEMBLY
3.11	BATTERY BOX WITH MOTOR
3.12	BATTERY BOX WITH VALVE
3.13	DRIVE MOTOR WITH BRAKE ASSEMBLY
3.14	DRIVE MOTOR
3.16	DISC BRAKE
3.19	PUMP/MOTOR
3.21	STEERING CYLINDER
3.22	GROUND CONTROL - J14EP Prior to S/N 23546
3.24	GROUND CONTROL - J14EP Starting S/N 23546 & International
3.28	TILT SWITCH
3.29	SLOPE SENSOR
3.30	CONTROL VALVE
3.34	BATTERY CHARGER
3.39	BATTERY CABLE KIT

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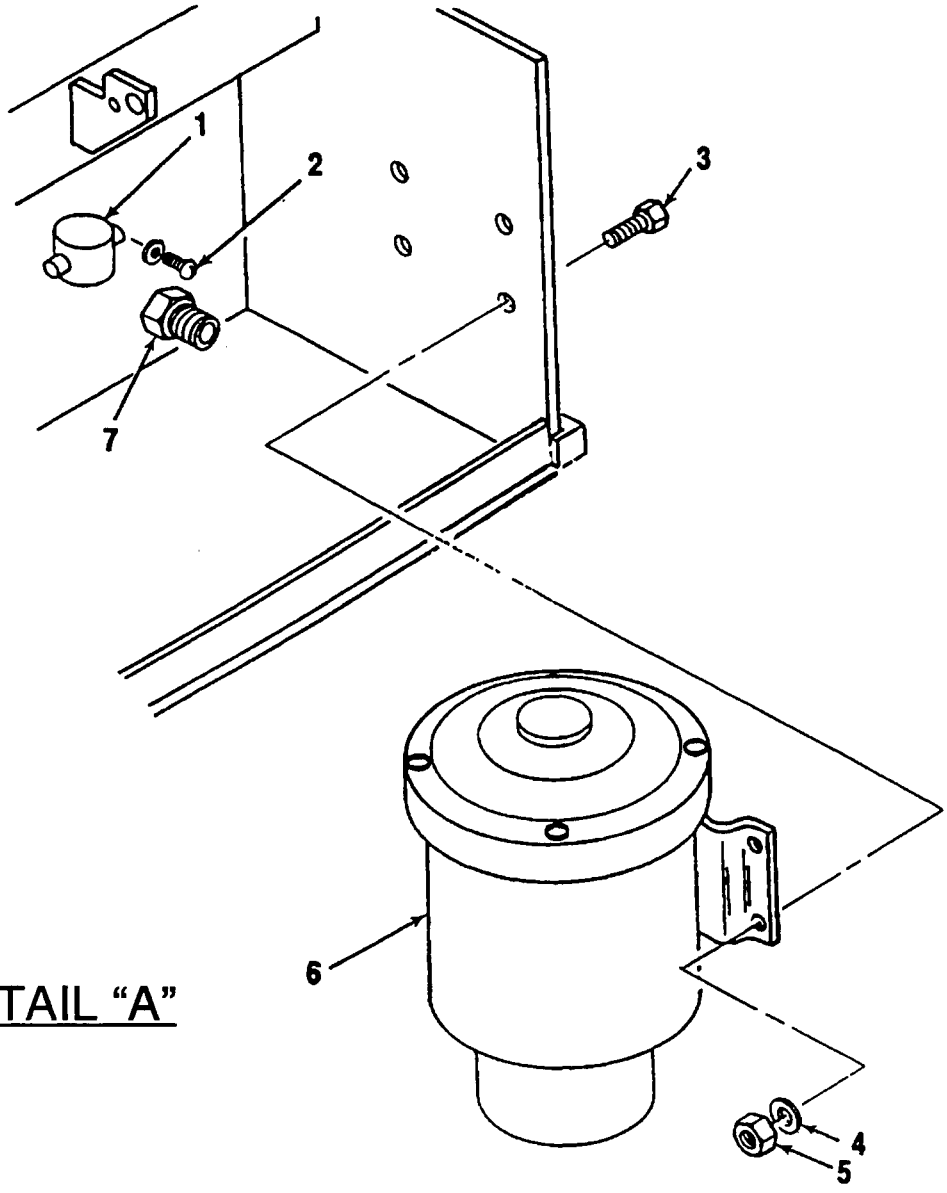
Models J14EP
J14EPI/TUV
Issued 4-96

BASE ASSEMBLY

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	130101	Assembly, Frame	Ref.	J14EP
	135477	Assembly, Frame	Ref.	J14EPI
	135401	Assembly, Frame	Ref.	J14EPI/TUV
A	(Detail "A")	Pump and Motor Assembly	Ref.	See Page 3.3
B	(Detail "B")	Steering and Drive Assembly	Ref.	See Page 3.4
C	(Detail "C")	Tire and Wheel Assembly	Ref.	See Page 3.6
D	(Detail "D")	Wheel and Tire	Ref.	See Page 3.7
E	(Detail "E")	Filter Assembly	Ref.	See Page 3.8
F	(Detail "F")	Battery Box with Motor	Ref.	See Page 3.11
G	(Detail "G")	Battery Box with Valve	Ref.	See Page 3.12
1	130103	Weldment, Frame	1	J14EP
	135479	Weldment, Frame	1	J14EPI
	135400	Weldment, Frame	1	J14EPI/TUV
2	130230	Weldment, Dipstick	1	
3	70235	Lever, Limit Switch	1	
4	70234	Mini-Switch	1	
5	62620	Screw, Machine (Attaching Part)	2	
6	134862	Ground Control Box, Assembly	1	See Page 3.22
7	60309	Capscrew	2	
	63301	Lockwasher	2	
	60701	Nut, Hex	2	
8	135227	Lift Cylinder, Assembly	1	See Page 4.5
9	130171	Pin	1	
10	60322	Capscrew	1	
	63302	Lockwasher	1	
11	130690	Pin, Ball-Lock Detent	2	
12	375	Rivet, Pop	2	
13		Battery Charger, Assembly	1	See Pages 3.32-*3.38*
14	3027	Magnetic Drain Plug	1	



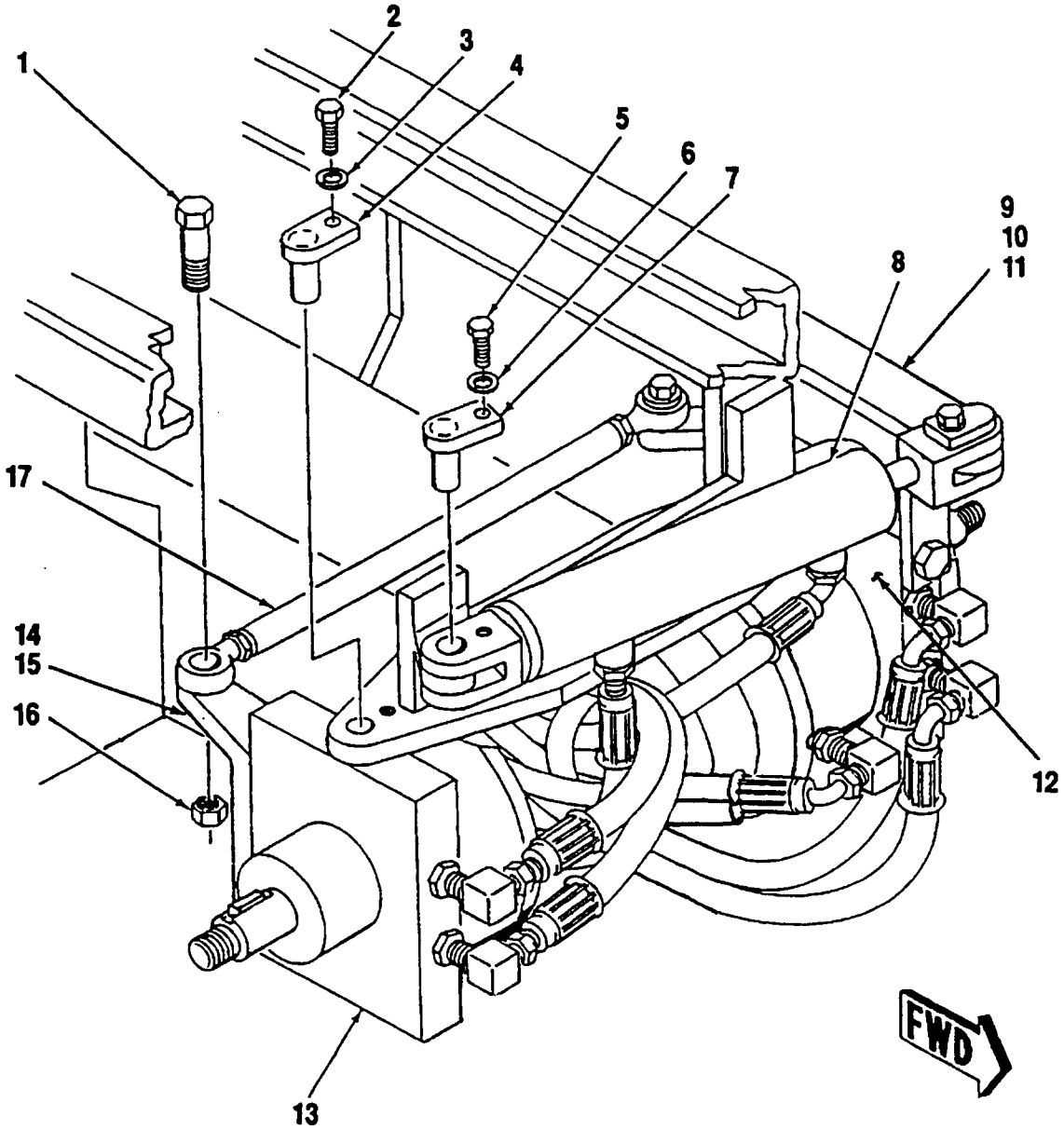
DETAIL "A"

Ref.	Part No.	Description	Qty	Remarks
-	Detail "A"	Pump/Motor Mounting	Ref.	I
1	70362	Solenoid	1	
2	60309	Screw, Cap	2	
	63301	Washer, Lock	2	
3	60331	Screw, Cap	4	
4	63303	Washer, Lock	4	
5	60703	Nut, Hex	4	
6	134929	Pump/Motor, Assembly	Ref.	See Page 3.19 for Details
7	80001-15	Connector, Male	1	

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STEERING AND DRIVE ASSEMBLY

Mark Industries



DETAIL "B"

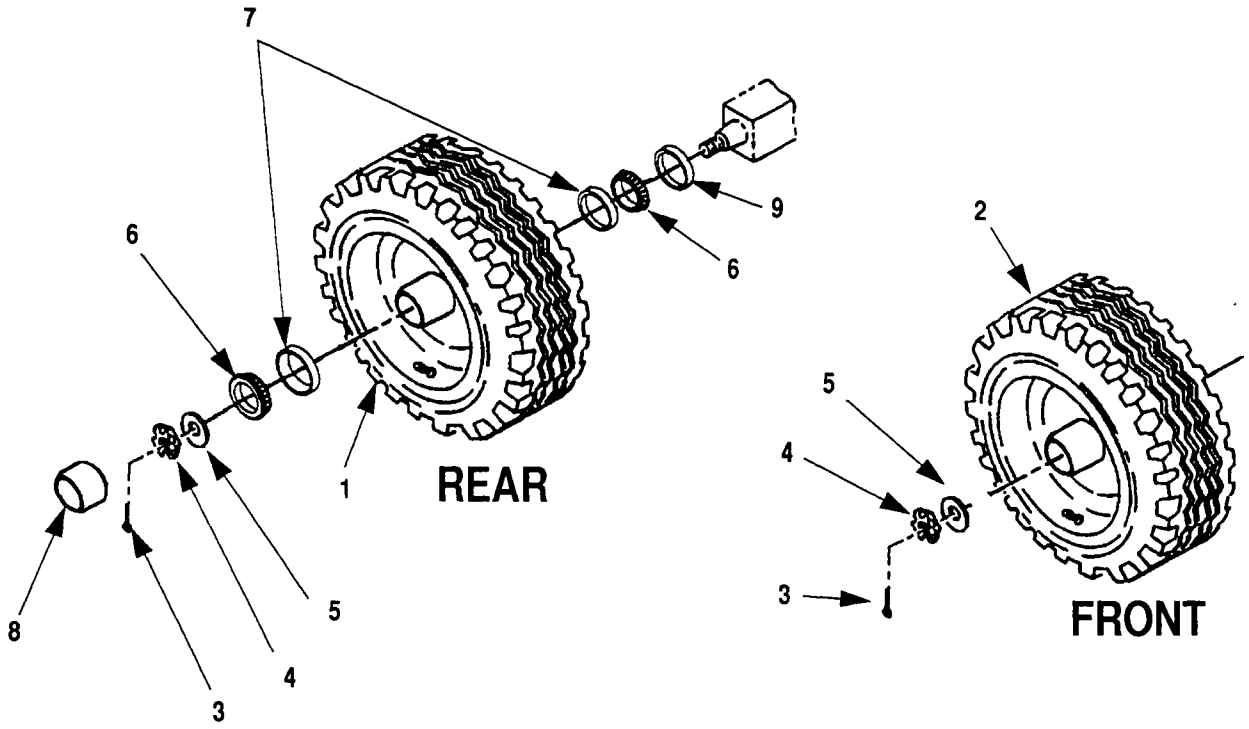
STEERING AND DRIVE ASSEMBLY

Ref.	Part No.	Description	Qty	Remarks
1	60393	Capscrew	2	
2	60338	Capscrew	4	
3	63302	Lockwasher	4	
4	130192	Steering Pin	4	
5	60353	Capscrew	2	
6	63301	Lockwasher	2	
7	20252	Pin, Steering Cylinder	2	
8	130237	Steering Cylinder Assembly	1	See Page 3.20 & 3.21
9	130167	Steering Lever (L.H.)	1	
	64903	Bushing	2	Lever & Frame
10	60610	Capscrew	1	
11	60602	Capscrew	1	
12	130239	Motor and Parking Brake, Assembly	1	See Page 3.13
13	130238	Motor Drive, Assembly	1	See Page 3.14 & 3.15
14	130166	Steering Lever (R.H.)	1	
15	60602	Capscrew	1	
16	61242	Locknut	2	
17	130163	Tie Rod, Assembly	1	See Page 3.9

Models J14EP
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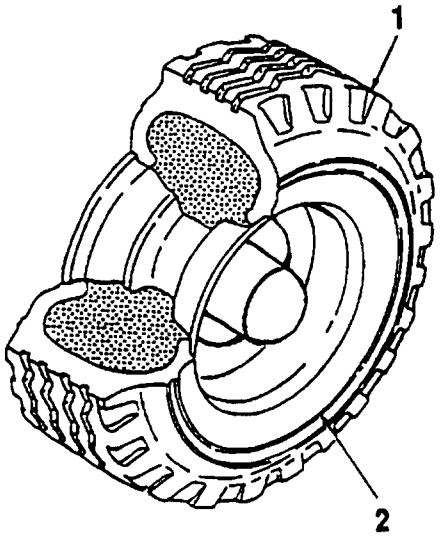
TIRE & WHEEL ASSEMBLY

Mark Industries



DETAIL "C"

Ref.	Part No.	Description	Qty	Remarks
1	130203	Tire and Wheel Idler	2	Incl. Items 3 thru 9
2	130843	Tire and Wheel/Drive	2	Incl. Items 3 thru 5
3	64306	Pin, Cotter	4	
4	61001	Nut, Slotted	4	
5	63421	Washer, Flat	4	
6	66803	Bearing	4	
7	66802	Cup Bearing	4	
8	66804	Cap, Dust	2	
9	66801	Seal	2	



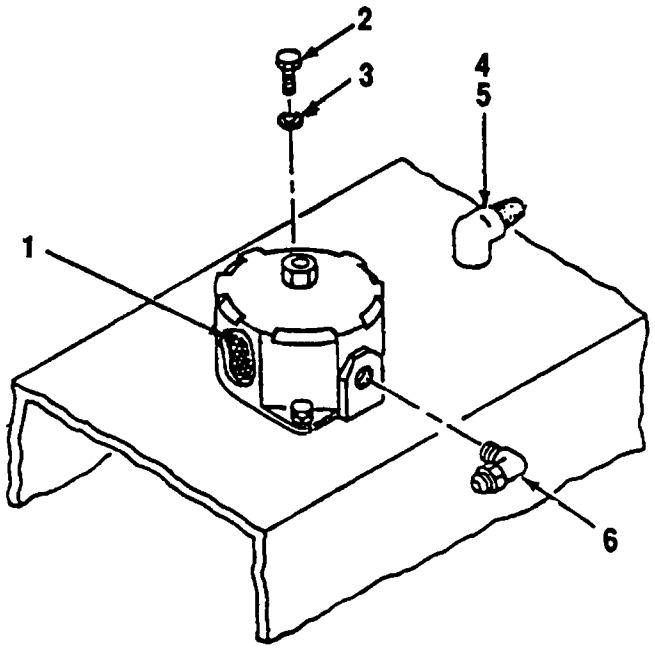
DETAIL "D"

Ref.	Part No.	Description	Qty	Remarks
	130843	Wheel Drive & Tire, Assembly	2	Incl. 2 Wheel & Tire Ass'ys
1	NNS	Tire	1	
2	NNS	Wheel	1	
	130203	Wheel Idler & Tire Assembly	2	Incl. 2 Wheel & Tire Ass'ys
1	NNS	Tire	1	
2	NNS	Wheel	1	

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FILTER ASSEMBLY

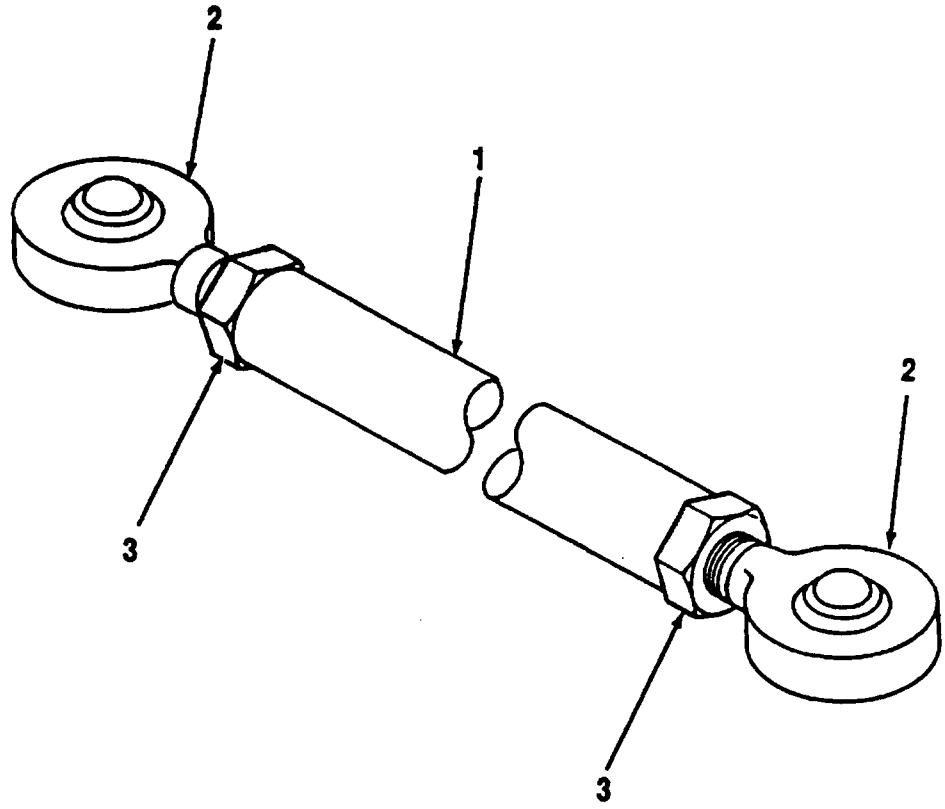
Mark Industries



DETAIL "E"

Ref.	Part No.	Description	Qty	Remarks
1	81016	Filter, Hydraulic	1	
	66739	Element	1	
2	60309	Screw, Cap	2	
3	63301	Washer, Lock	2	
4	65213	Breather	1	
5	80021-03	Elbow, Straight	1	
6	80018-11	Elbow, Male	1	

TIE ROD ASSEMBLY



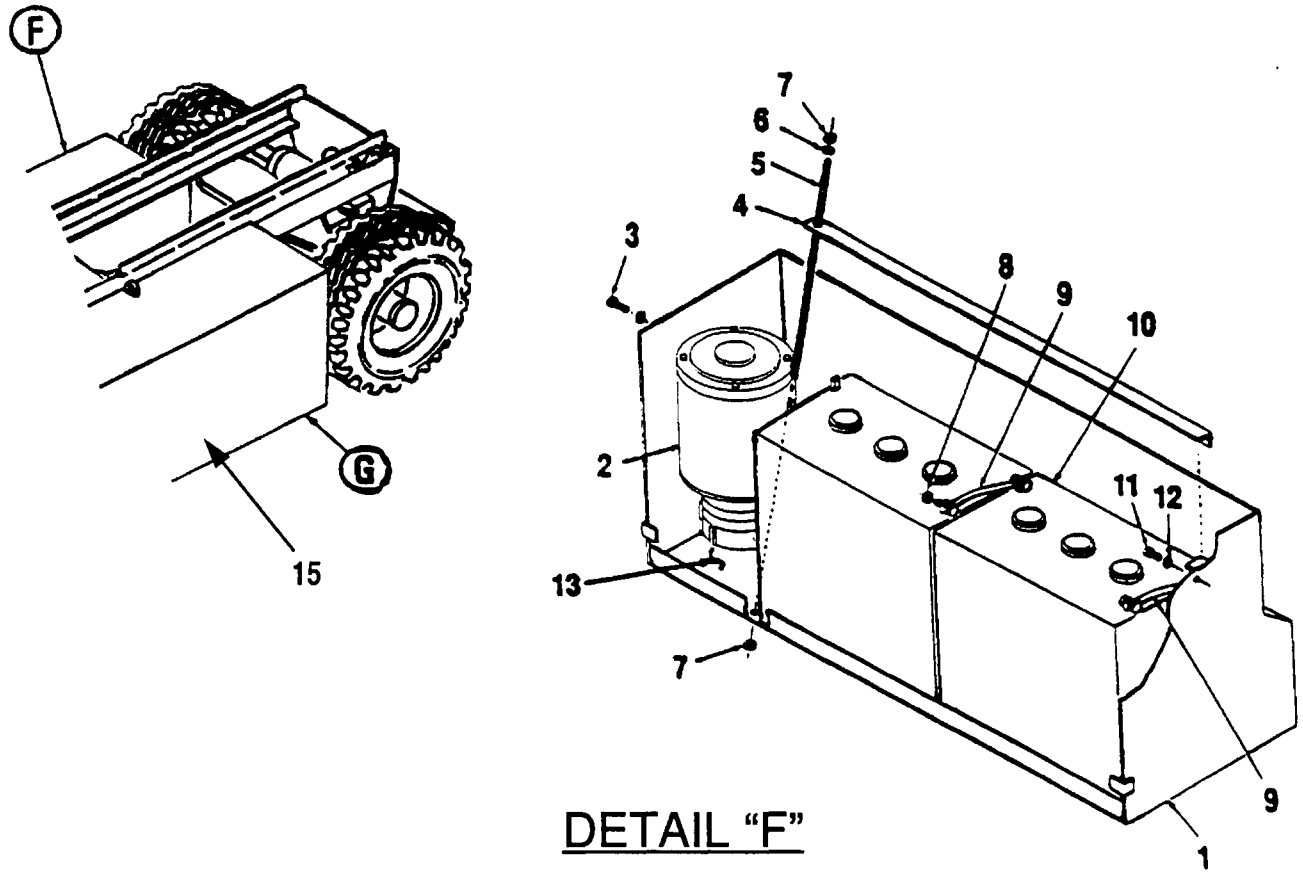
Ref.	Part No.	Description	Qty	Remarks
-	130163	Tie Rod, Assembly	Ref.	Incl. Items 1 thru 3
1	130303	Rod, Tie	1	
2	2274	End, Rod	2	
3	60901	Nut, Jam	2	

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BATTERY BOX WITH MOTOR

Models J14EP
J14EPI/TUV
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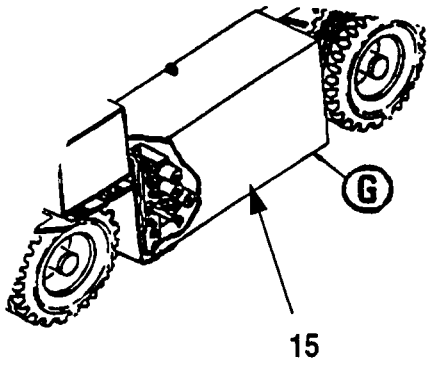
DETAIL "F"

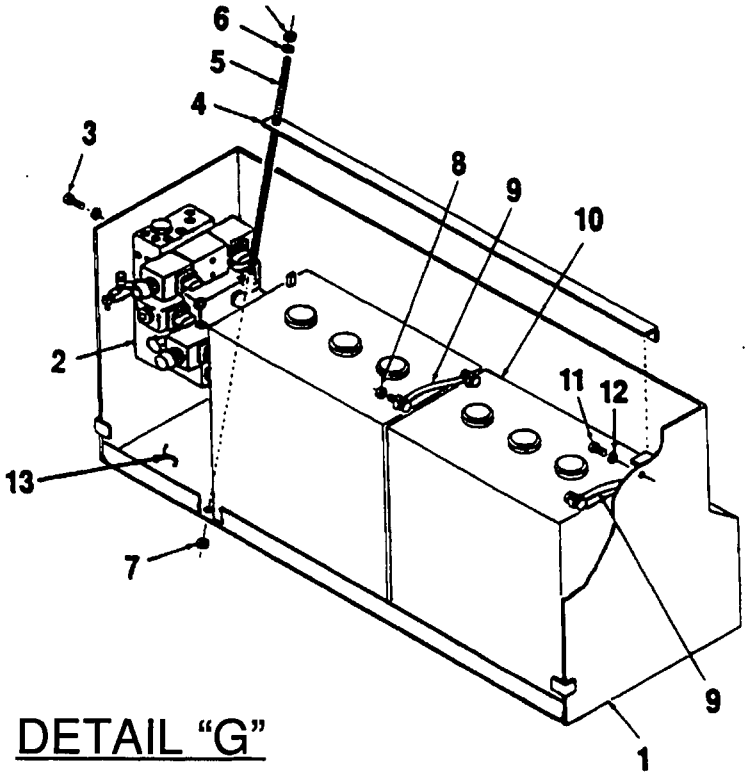
Ref.	Part No.	Description	Qty	Remarks
1	130103	Weldment, Frame	Ref.	See Page 3.2 for Details
2	81441	Pump/ Motor, Assembly	Ref.	See Page 3.3 for Details
3	60331	Screw Set	Ref.	See Page 3.3 for Details
4	135043	Hold-Down, Battery	1	
5	63670	Rod, Threaded	1	
6	63403	Washer, Flat	1	
7	61302	Nut, Lock	1	
8	61246	Nut, Lock	4	
9	135086	Battery Cable, Kit	1	See Page 3.39 for Details
10	70818	Battery	2	See Note Below.
	NOTE:	Batteries may only be shipped "dry". Electrolite must be added at time of installaton		
11	60324	Screw, Cap	1	
12	63302	Washer, Lock	1	
13	37754	Plywood	1	
14	411-28	Rubber Moulding (28 IN LG)	AR	
15	130214	Weldment, Cover	1	(2 per machine)

Models J14EP
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BATTERY BOX WITH VALVE

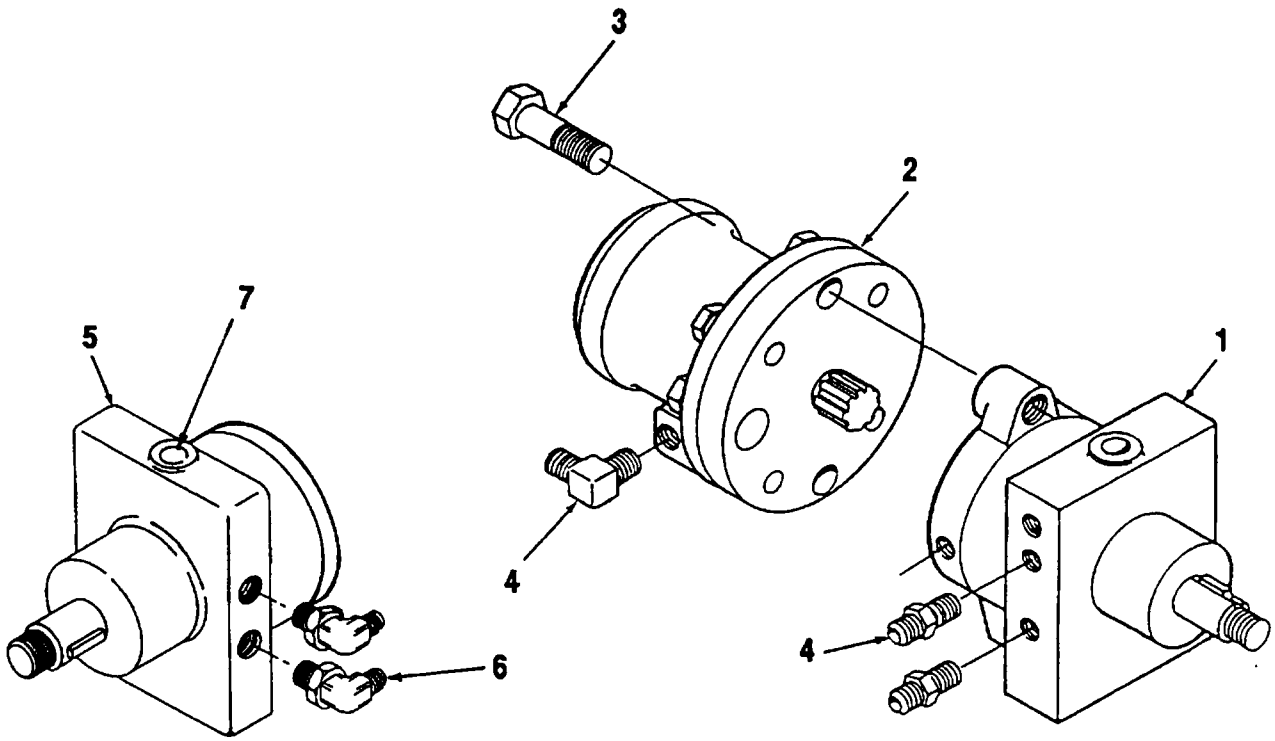
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DETAIL "G"

Ref.	Part No.	Description	Qty	Remarks
1	130103	Weldment, Frame	Ref.	See Page 3.2 for Details
2	134866	Control Valve, Assembly	Ref.	See Page 3.30 for Details
3	60732	Screw, Cap	2	
	63303	Washer, Lock	2	
4	135043	Hold-Down, Battery	1	
5	63670	Rod, Threaded	1	
6	63403	Washer, Flat	1	
7	61302	Nut, Lock	1	
8	61246	Nut, Lock	4	
9	135086	Battery Cable, Kit	1	See Page 3.39 for Details
10	70818	Battery	2	See Note Below.
	NOTE:	Batteries may only be shipped "dry". Electrolite must be added at time of installaton		
11	60324	Screw, Cap	1	
12	63302	Washer, Lock	1	
13	37754	Plywood	1	
14	411-28	Rubber Moulding (28 IN LG)	AR	
15	130214	Weldment, Cover	1	(2 per machine)

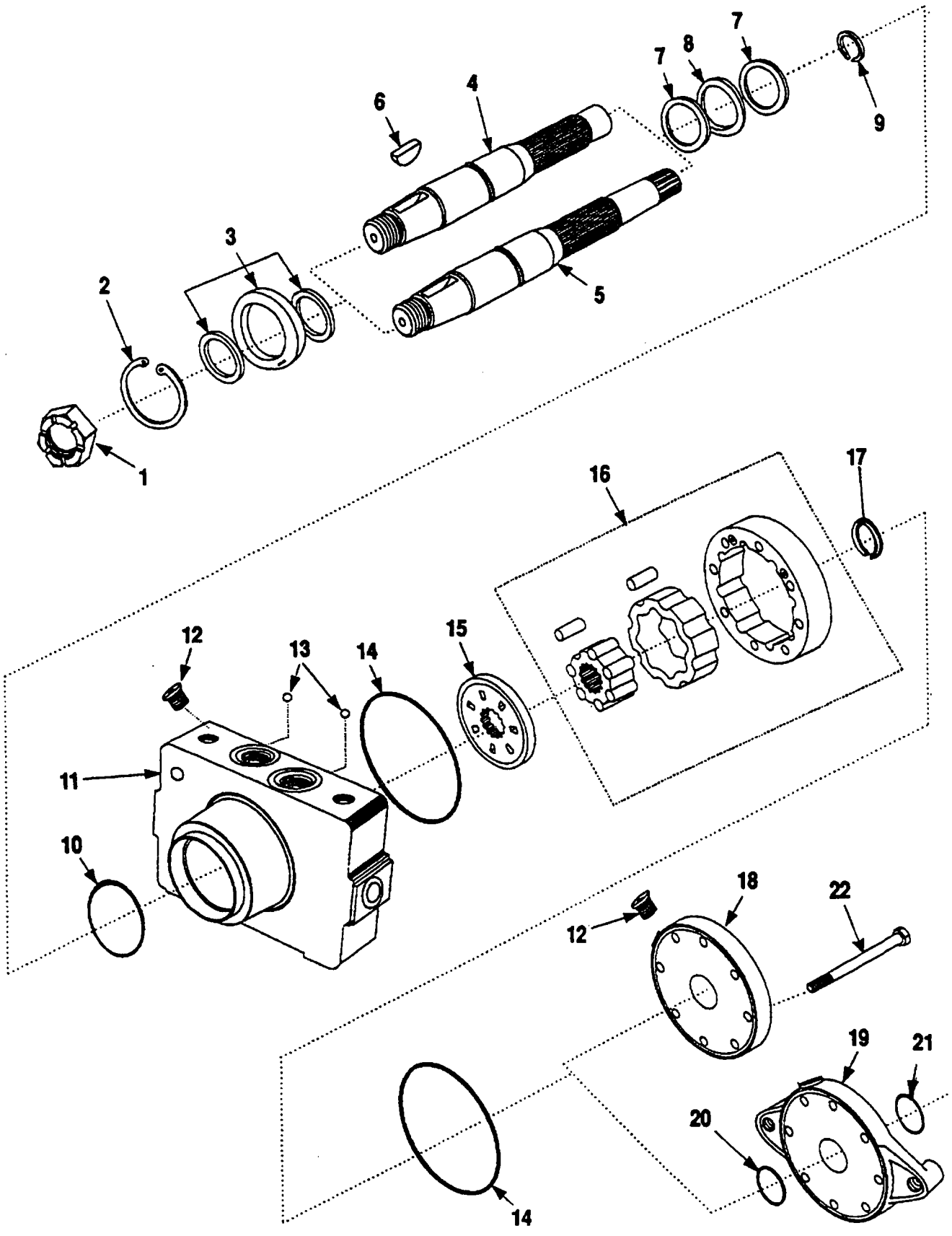


Ref.	Part No.	Description	Qty	Remarks
	130239	LH Drive Motor & Parking Brake Ass'y	Ref.	Incl. Items 1 thru 4
1	81360	Motor, Drive (w/Thru Shaft)	1	See Page 3.14 for Details
2	160605	Brake, Parking	1	See Page 3.16 for Details
3	62005	Capscrew	2	
4		Hydraulic Fittings		See Page 2.14
	130238	RH Drive Motor Ass'y	Ref.	Incl. Items 5 & 6
5	81361	Motor, Drive	1	See Page 3.14 for Details
6		Hydraulic Fittings		See Page 2.14
7	66815	Bushing, Trunnion	Ref.	

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DRIVE MOTOR ASSEMBLY

Mark Industries

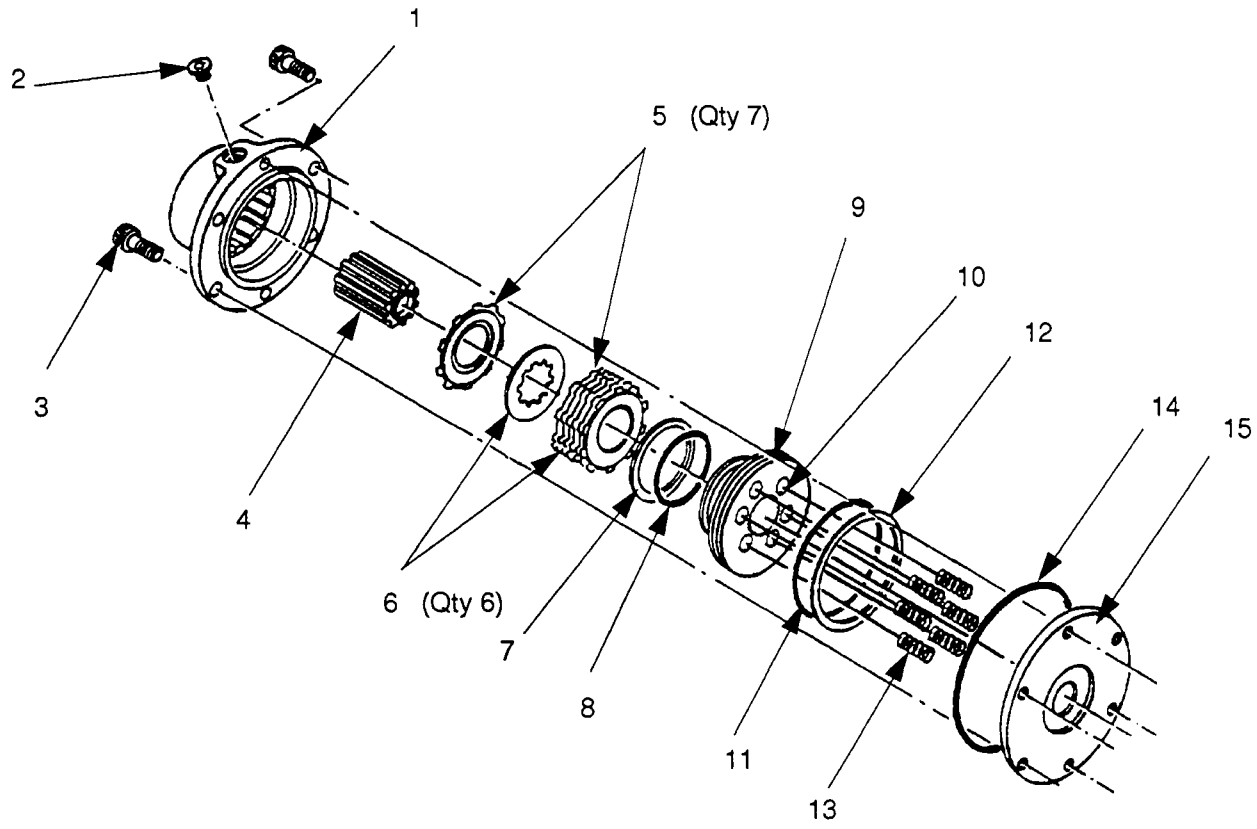


DRIVE MOTOR ASSEMBLY

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Ref.	Part No.	Description	Qty	Remarks
	81360	LH Drive Motor w/Thru Shaft	1	Incl. 1 thru 22 exc.4,18
	68576	Kit, Seal	1	Incl. Items with *
	81361	RH Drive Motor	1	Incl. 1 thru 22 exc.5,19,20,21
	67772	Kit, Seal	1	Incl. Items with ^
1	68521	Nut, Slotted	1	
2	68520	Snap Ring	1	
3	68524	Seal Retainer Ass'y	1	^*
4	68522	Shaft, Keyed	1	For 81361 Motor
5	68523	Shaft, Thru - Keyed	1	For 81360 Motor
6	68131	Key, Woodruff	1	
7	68094	Washer, Thrust	2	
8	68095	Bearing, Thrust	1	
9	68093	Snap Ring	1	
10	68528	O-Ring	1	^*
11	68530	Body, Trunnion Mounting	1	Incl. Bearings & Seal Items
12	68526	Plug, 7/16-20	1	
13	68525	Ball, Check Valve	2	
14	68527	Seal, Square Ring	2	^*
15	N.S.S.	Plate, Valve	1	Part of Item 16
16	68529	IGR Assembly	1	Incl. Item 15
17	68531	Snap Ring	1	
18	68533	Cover/Bearing Ass'y	1	For 81361 Motor
19	68534	Cover/Bearing Ass'y - Thru Shaft	1	For 81360 Motor-Incl. 20,21
20	68535	Lip Seal	1	^
21	68536	Dust Seal	1	^
22	68532	Bolt	8	

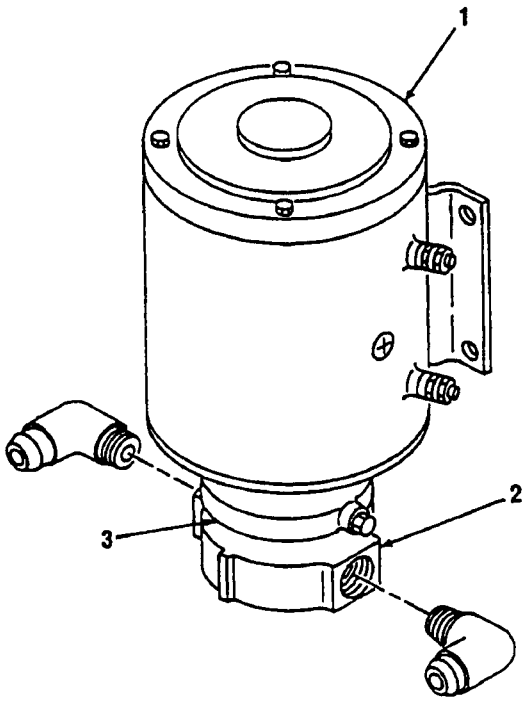
DISC BRAKE



Ref.	Part No.	Description	Qty	Remarks
	160605	Assembly, Disc Brake	Ref	Incl. items 1 thru 16
	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 (Red)	5	+
14	68396	Seal, Case	1	+ * ^
15	68376	Cover	1	
16	69836	O-Ring (Brake to Motor)	1	Not Shown

NOTES

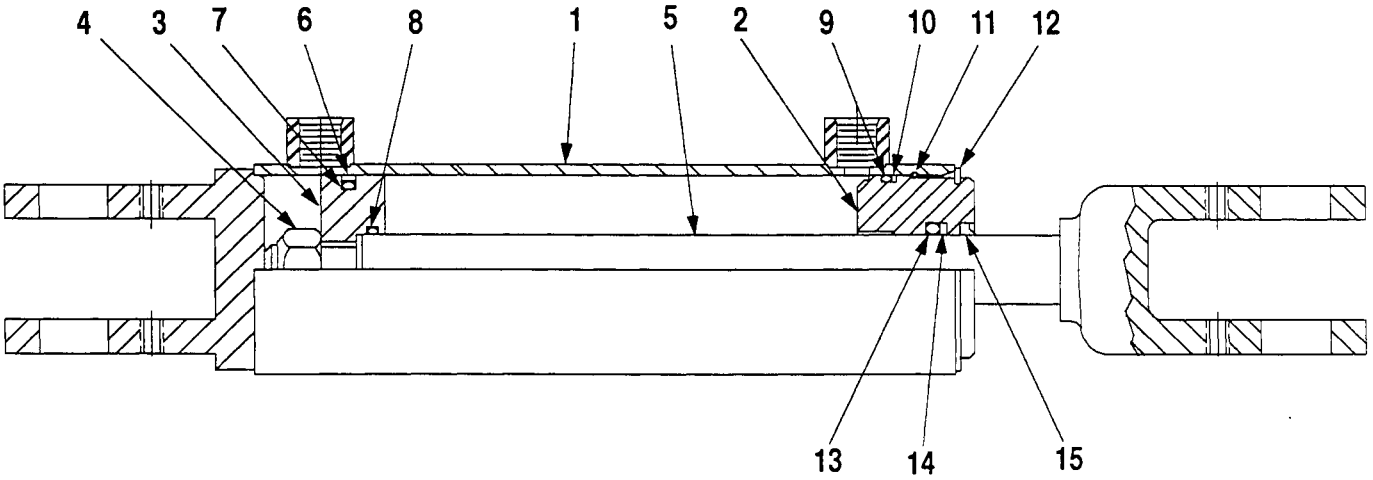
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Ref.	Part No.	Description	Qty	Remarks
-	134929	Motor and Pump, Assembly	Ref.	Incl. Items 1 thru 3
-	81441	Motor and Pump Assembly	1	
1	68516	Motor, Assembly	1	
	68164	Brush, Kit	2	(Not Shown)
2	68515	Pump, Assembly	1	
3	67014	Coupling, Pump to Motor	1	
	81176	Seal, Kit	1	(Not Shown)

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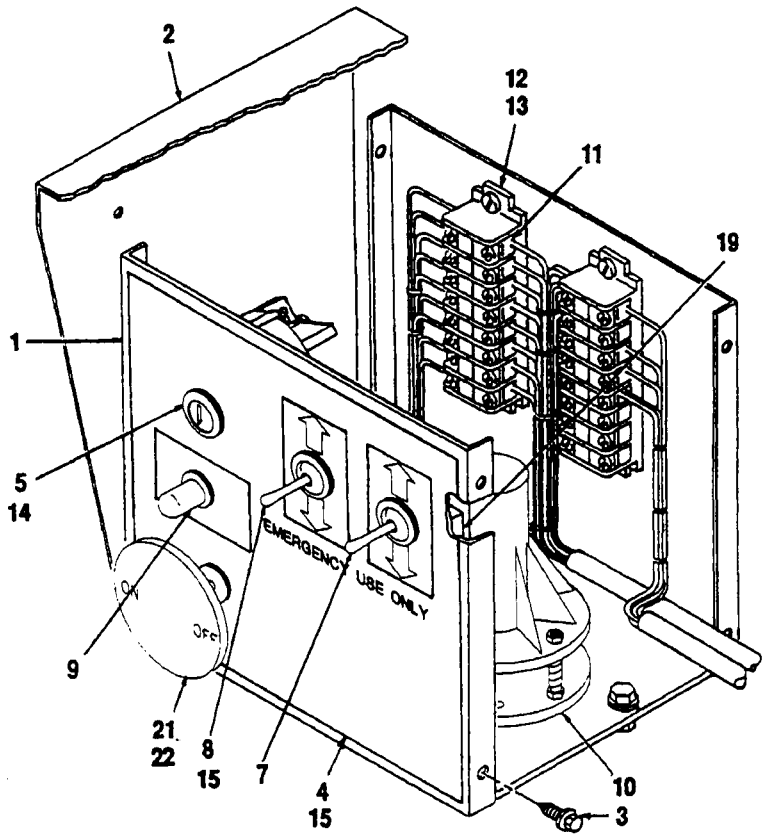
Ref.	Part No.	Description	Qty	Remarks
	130165	Steering Cylinder (EA)	1	Incl. Items 1 thru 15
	66640	Kit, Seal	1	Incl. Items with Asterisk *
1	69907	Barrel Ass'y	1	
2	69902	Bearing	1	
3	67951	Piston	1	
4	69906	Locknut	1	
5	67950	Rod	1	
6	69905	Ring, Slipper	1	*
7	69904	O-Ring	1	*
8	69903	O-Ring	1	*
9	69901	O-Ring	1	*
10	69900	Washer, Back-Up	1	*
11	69896	Ring, Lock	1	*
12	69895	Ring, Retaining	1	*
13	69899	O-Ring	1	*
14	69898	Washer, Back-Up	1	*
15	69897	Seal, Wiper	1	*

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GROUND CONTROL PANEL ASSEMBLY

Mark Industries

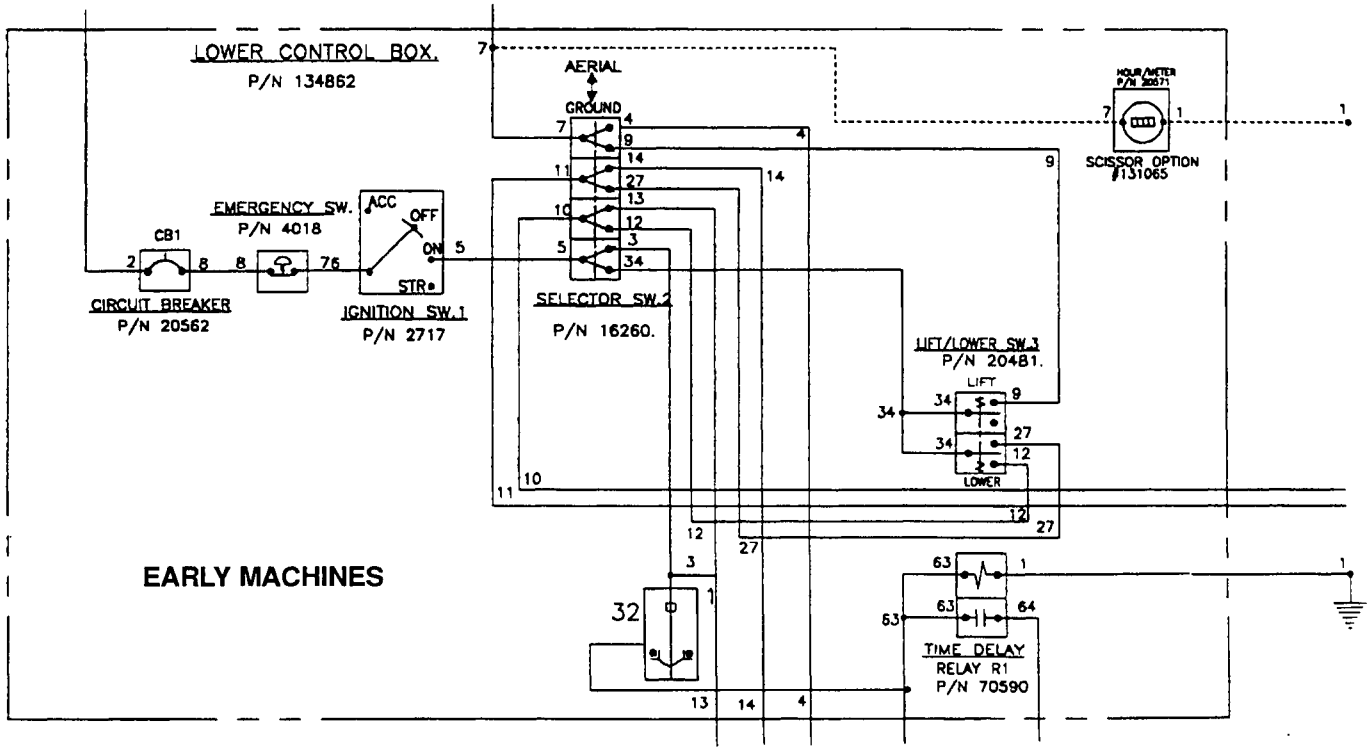
EARLY MACHINES



Ref.	Part No.	Description	Qty	Remarks
	134862	Ground Control, Assembly **(Early Machines) (Prior to S/N** 23546)	Ref.	Incl. Items 1 thru 34
1	130129	Machining, Ground Box	1	
2	130128	Cover	1	
3	61711	Screw, Self Tapping	8	
4	182916	Decal, Ground Control Box	1	
5	2717	Switch, Ignition	1	
6	66961	Key, "Spare"	AR	(Not Shown)
7	20481	Switch, Toggle	1	
8	16260	Switch, Toggle	1	
9	20562	Breaker, Circuit	1	
10	130193	Tilt Switch, Assembly	1	See Page 3.28 for Details
11	4027	Block, Terminal	17	
12	117-A	End, Terminal Block	17	
13	62612	Machine Screw, Round Slotted Head	3	
	61502	Nut	4	
	63312	Washer, Lock	4	

GROUND CONTROL PANEL ASSEMBLY

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J14EPI/TUV
Issued 4-96

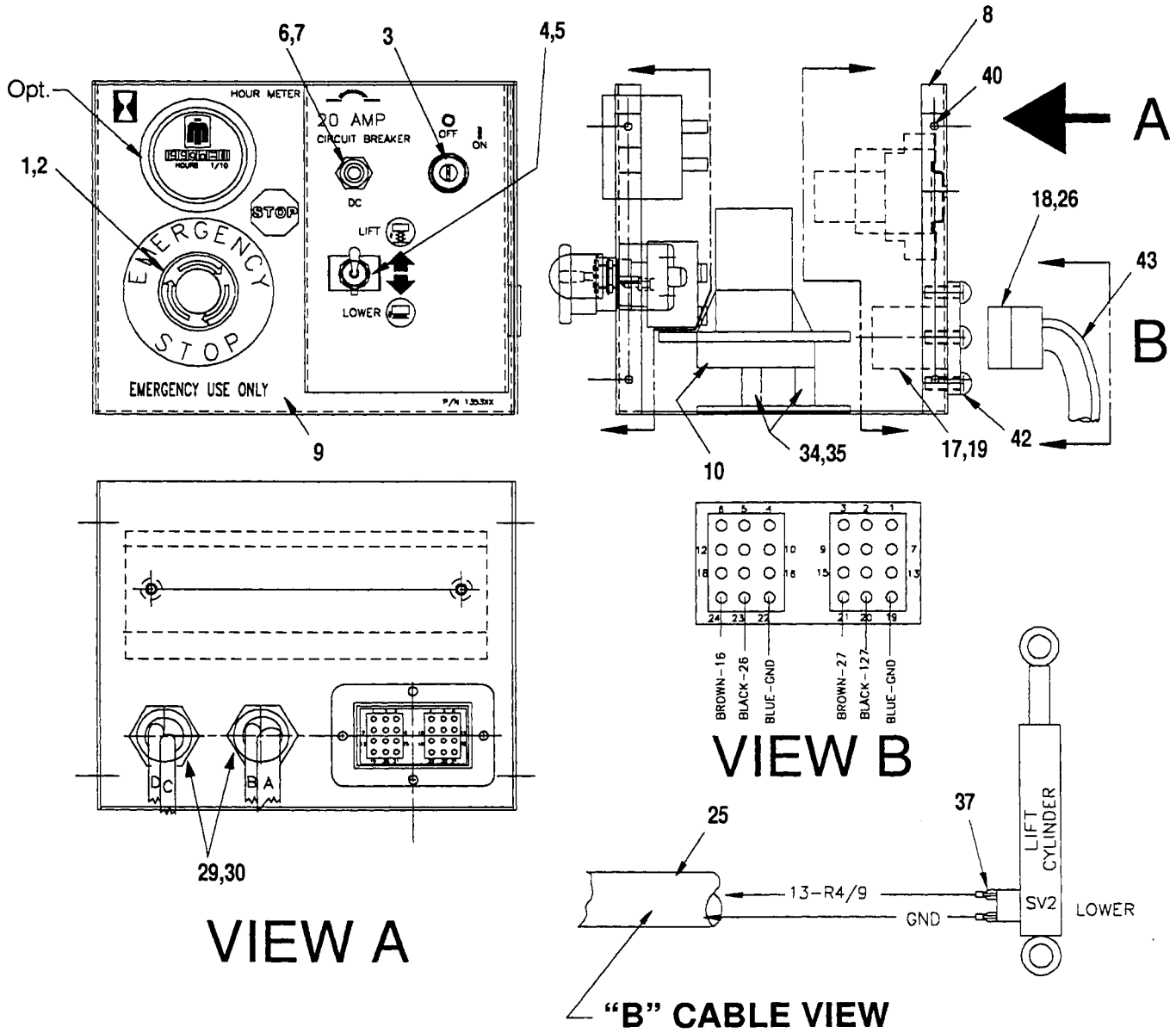


Ref.	Part No.	Description	Qty	Remarks
14	117-B	Connector, Ring (Blue)	18	
15	117-C	Connector, Ring (Blue)	6	
16	130600	Cable Conductor, 12	10 ft.	(Not Shown)
17	70232	Wire, White 16 AWG STD	13	(Not Shown)
18	70009	Wire, Red (3 ft.)	3	(Not Shown)
19	16214	Cable Tie, Mount	4	
20	4034	Cable, 3 Conductor	5 ft.	(Not Shown)
21	4018	Switch Push & Pull	1	
22	31080	Knob Emergency ON/OFF	1	
23	70479	Diode, Gen. Purpose	2	
24	70008	Wire, Yellow/Green - 16 AWG	1	
25	256	Tie Cable	20	
26	70500	Terminal Fem Disc.	1	
27	16213	Terminal Ring (Yellow)	1	
28	70636	Washer, Star Int/Ext	1	
29	70606	Relay, 12 to 30 Volt Coil	1	
30	70359	Spring, Hold-Down	1	
31	70593	Relay Base	2	
32	62603	Machine Screw, Round Slotted Head	4	
	63311	Lockwasher, #6	4	
	61501	Nut #6 C	4	
33	70594	Clip	1	
34	70590	Relay, Time Delay 24 Volt	1	

GROUND CONTROL PANEL ASSEMBLY

Mark Industries

J14EP Serial No. 23546 & up and all INTERNATIONAL



Ref.	Part No.	Description	Qty	Remarks
	135448	Ground Control Assembly	Ref.	Incl. Items 1 thru 43
1	70645	Emergency Switch	1	
2	70646	Contacts, Emergency Switch	1	
3	2717	Ignition Switch	1	
	66961	Spare Key for Ignition Switch	Ref.	
4	70783	Guard, Switch	1	

GROUND CONTROL PANEL ASSEMBLY

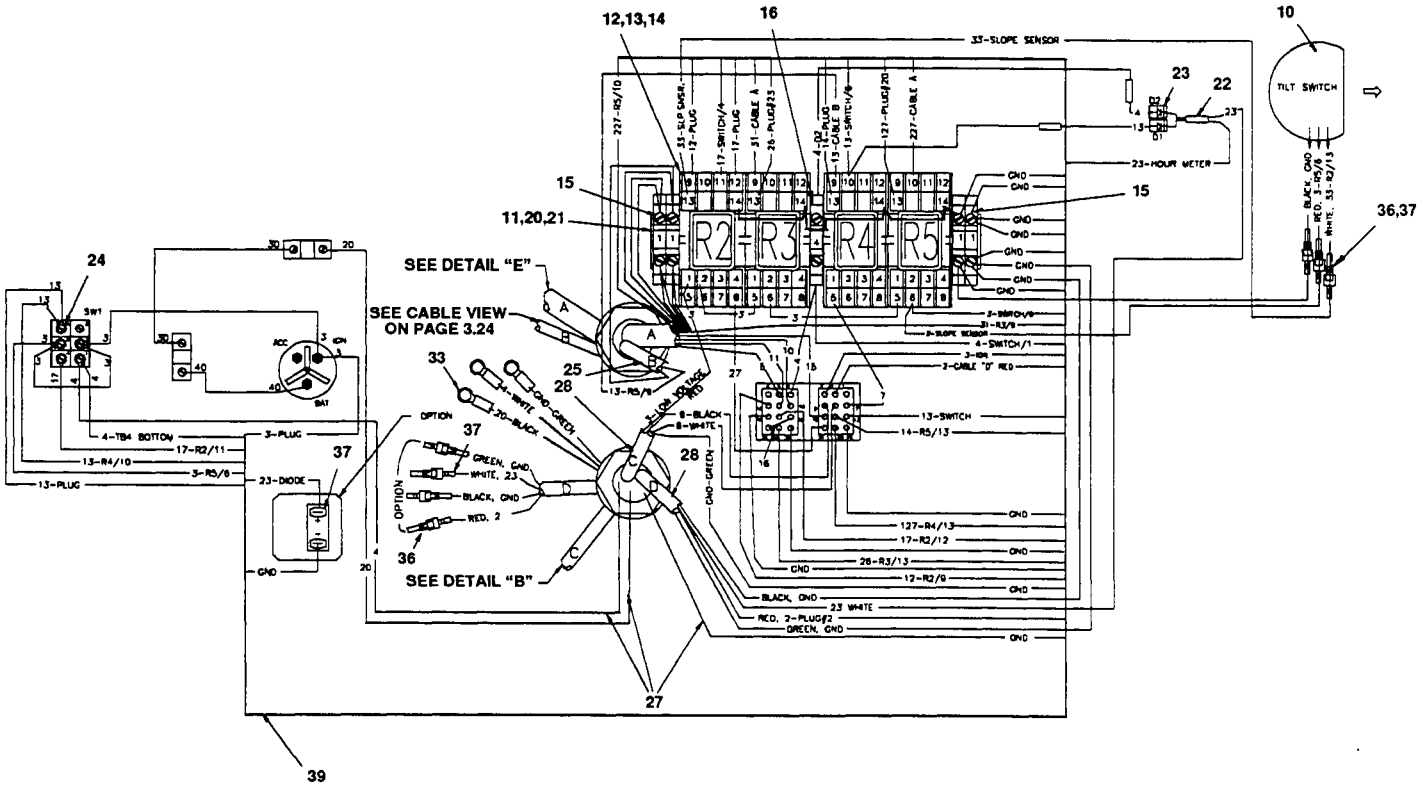
Models J14EP
J14EPI/TUV
Issued 4-96

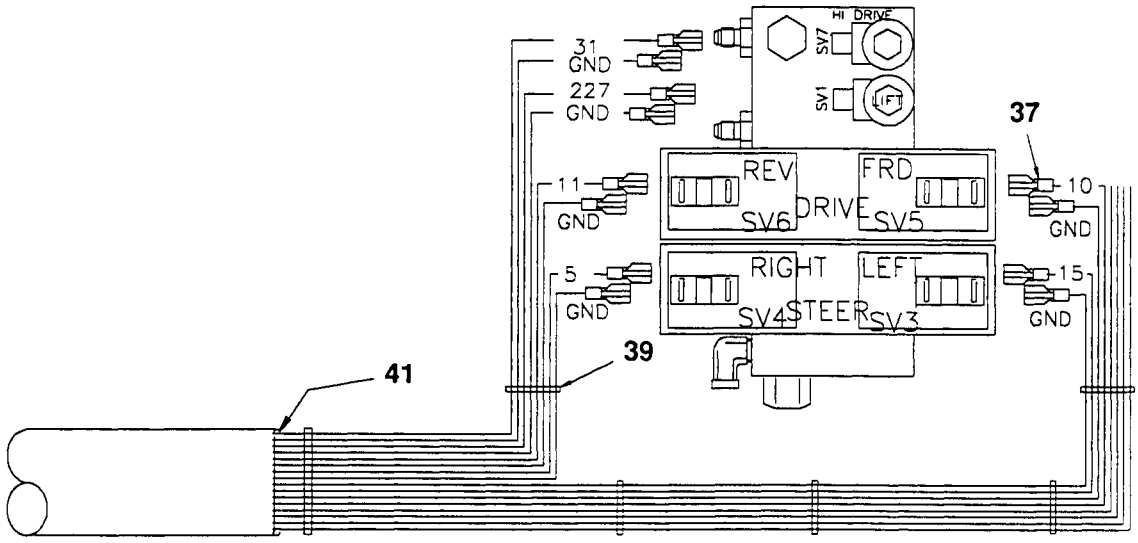
Ref.	Part No.	Description	Qty	Remarks
5	20481	Switch, Toggle	1	
6	20562	Circuit Breaker	1	
7	70785	Boot, Circuit Breaker	1	
8	135372	Box, Ground Control	1	
9	135449	Decal	1	
10	70857	Switch, Tilt	1	
11	70580	Rail, Low Profile	7"	
12	70593	Base, Relay	4	
13	70861	Relay, 24V	4	
14	70784	Clip, Relay	4	
15	441 6840	Terminal Block (Yellow/Green)	4	
16	441 6839	Terminal Block, Gray	1	
17	70806	Contact, Pin	24	
18	70807	Socket, Contact	6	
19	70815	Connector, Receptacle	1	
20	160292	Bolt	2	
21	61324	Locknut	2	
22	70069	Butt Connector	4	
23	70442	Diode	4	
24	70149	Ring Terminal (Red)	11	
25	70767	SJO Cable (18/2)	10'	
26	135345	Cable Assembly	Ref	
27	70769	Cable (12/3)	AR	
28	70187	SJO Cable (18/4)	10'	
29	2809	Locknut	2	
30	2807	Strain Relief	2	
31	2990	Wire, White - 18 Ga.	AR	(Not Shown)
32	70008	Wire, Yellow/Green - 18 Ga.	AR	(Not Shown)
33	70270	Terminal Ring	3	
34	60701	Nut, 1/4C	4	
35	63301	Lockwasher, 1/4	4	
36	70501	Terminal, Male Disconnect	7	
37	70500	Terminal, Female Disconnect	23	
38	16214	Mount, Cable Tie	10	(Not Shown)
39	256	Cable Tie	30	
40	61711	Screw, #12 Self Tapping	Ref.	
41	21351	Cable	10'	
42	1233-10	Machine Screw, #8-32 x 3/4	4	
	1210-5	Lockwasher, #8	4	
	1205-3	Nut, #8-32	4	
43	441 6835	Cable w/Connector	Ref.	
		CONTINUED ON NEXT PAGE		

Models J14EP
J14EPI/TUV
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GROUND CONTROL PANEL ASSEMBLY

Mark Industries





DETAIL "E"

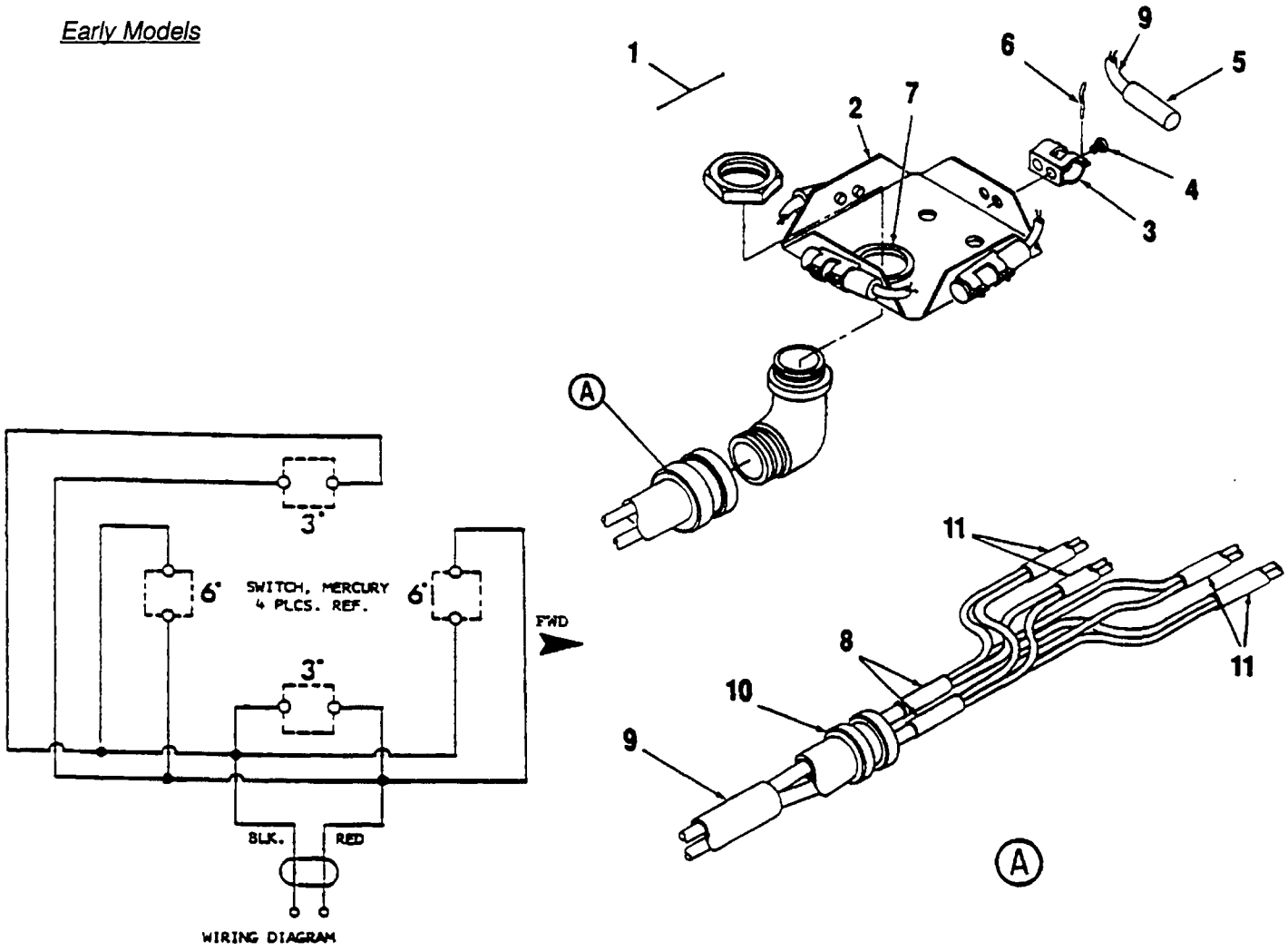
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Models J14EP
J14EPI/TUV
Issued 4-96

TILT SWITCH

Mark Industries

Early Models



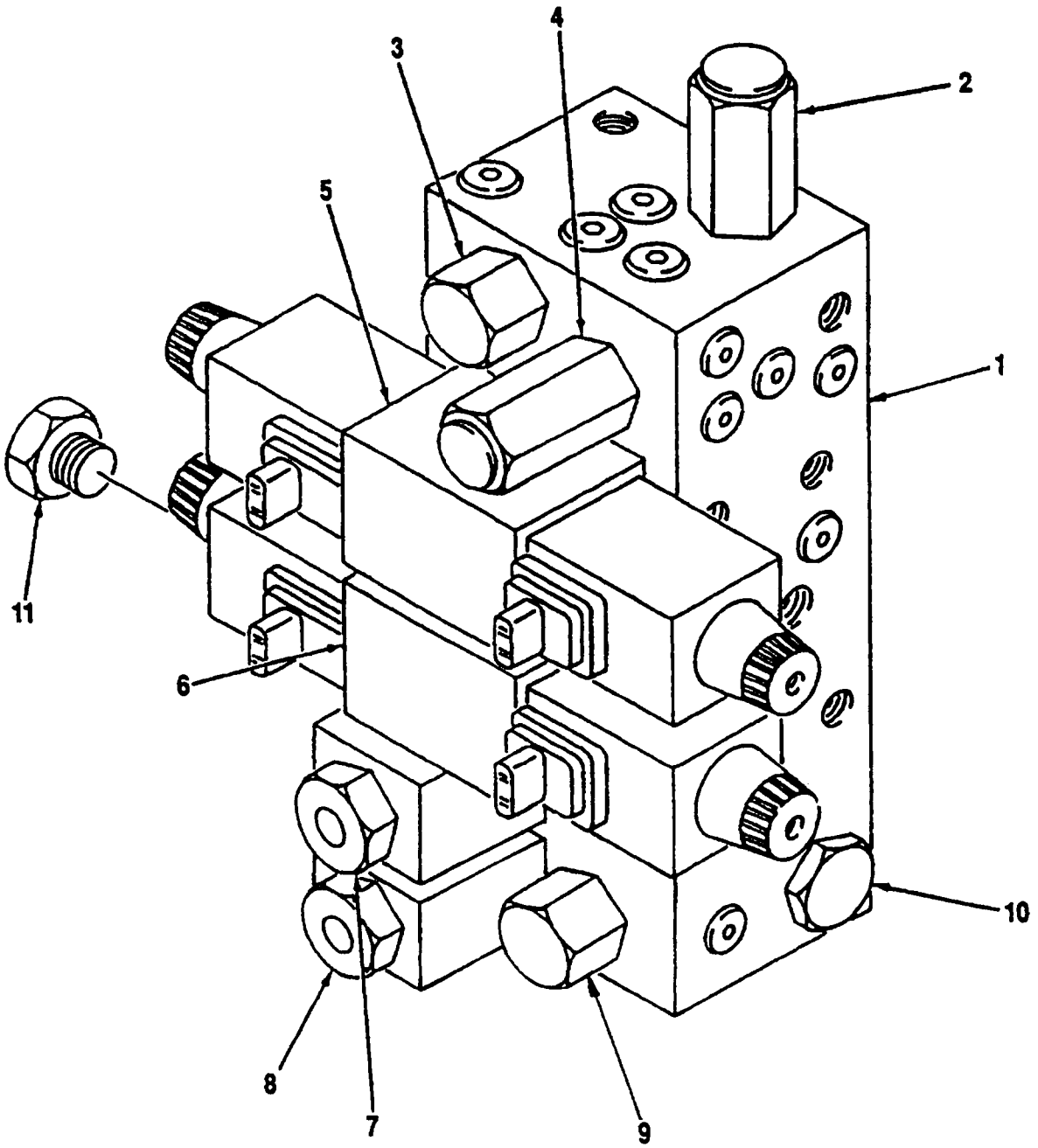
Ref.	Part No.	Description	Qty	Remarks
1	130193	Tilt Switch Ass'y	1	Incl. Items 2 thru 11
2	30385	Bracket, Tilt Switch	1	
3	199-A	Bracket, Micro Switch	4	
4	62605	Machine Screw	8	
5	4014	Switch, Mercury	4	
6	2626	Wire, Safety	AR	
7	70230	Grommet, Rubber	1	
8	117-D	Connector, Butt	2	
9	229	Cable, Electric	1	
10	16306	Tube, Heat Shrink	1	
11	16307	Tube, Heat Shrink	1	

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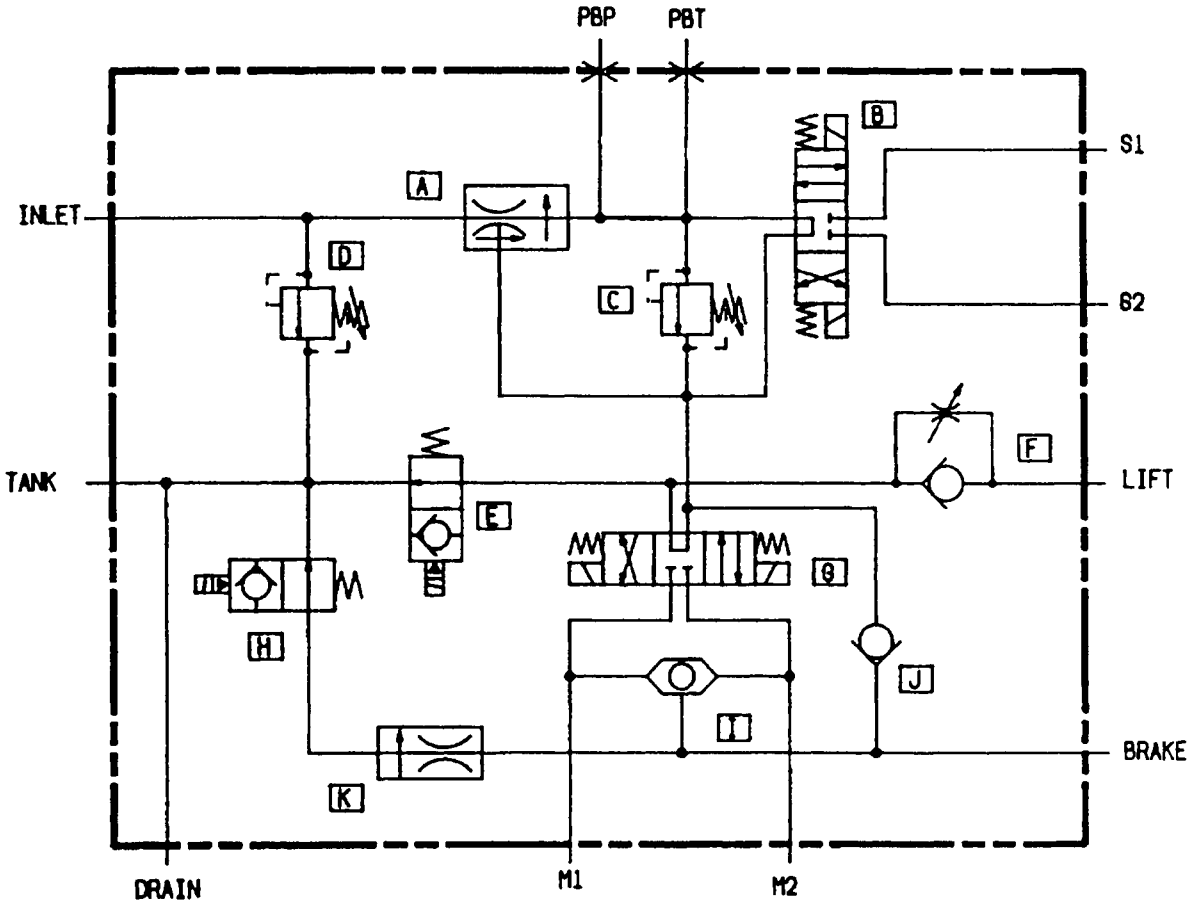
Models J14EP
J14EPI/TUV
Issued 4-96

CONTROL VALVE ASSEMBLY

Mark Industries



NOTE: SEE SECTION 3 "HYDRAULIC ASSEMBLY" FOR VALVE FITTINGS



Ref.	Part No.	Description	Qty	Remarks
-	134866	Valve Package, Assembly	Ref.	Incl. Items 1 thru 11
1	81288	Package, Valve	1	
2	68060	Relief, Main (2500 psi)	1	
3	67004	Steering Flow Regulator, 2.5 GPM	1	
4	67159	Steering DVC	1	
	66864	Coil, Steering DCV	2	
5	68057	Relief, Steering (750 psi)	1	
6	67159	Drive DVC	1	
	66864	Coil, Drive DCV	2	
7	66688	Valve, Lift	1	
	66865	Coil, Lift Sol. Valve	1	
8	66688	Valve, HI-Drive	1	
	66865	Coil, HI-Drive Sol. Valve	1	
9	81264	Regulator, Low Speed Drive	1	
10	66664	Shuttle, Break	1	
11	60003	Check, Unloading	1	

NOTES

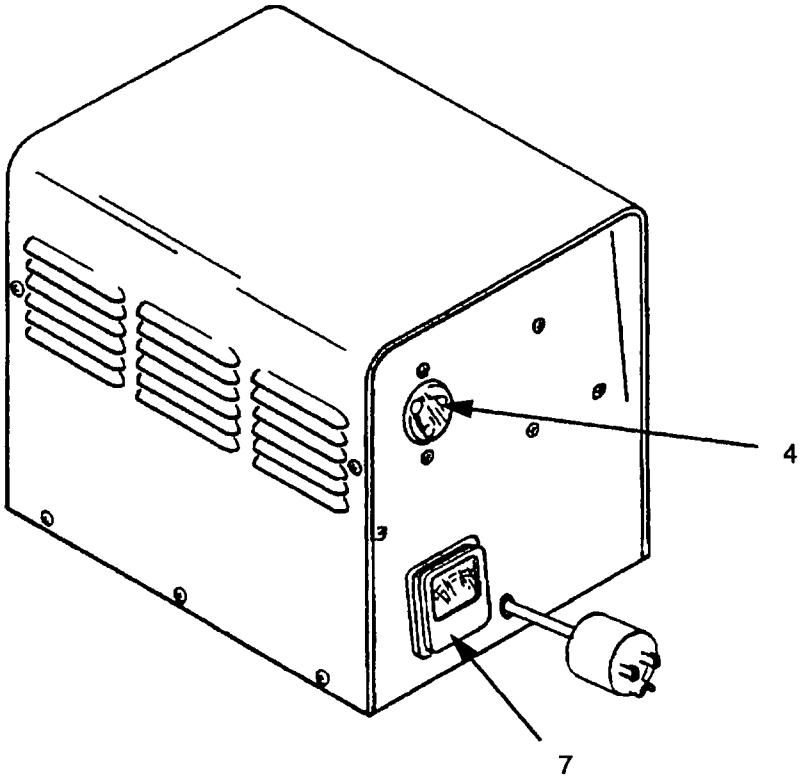
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Models J14EP
J14EPI/TUV
Issued 4-96

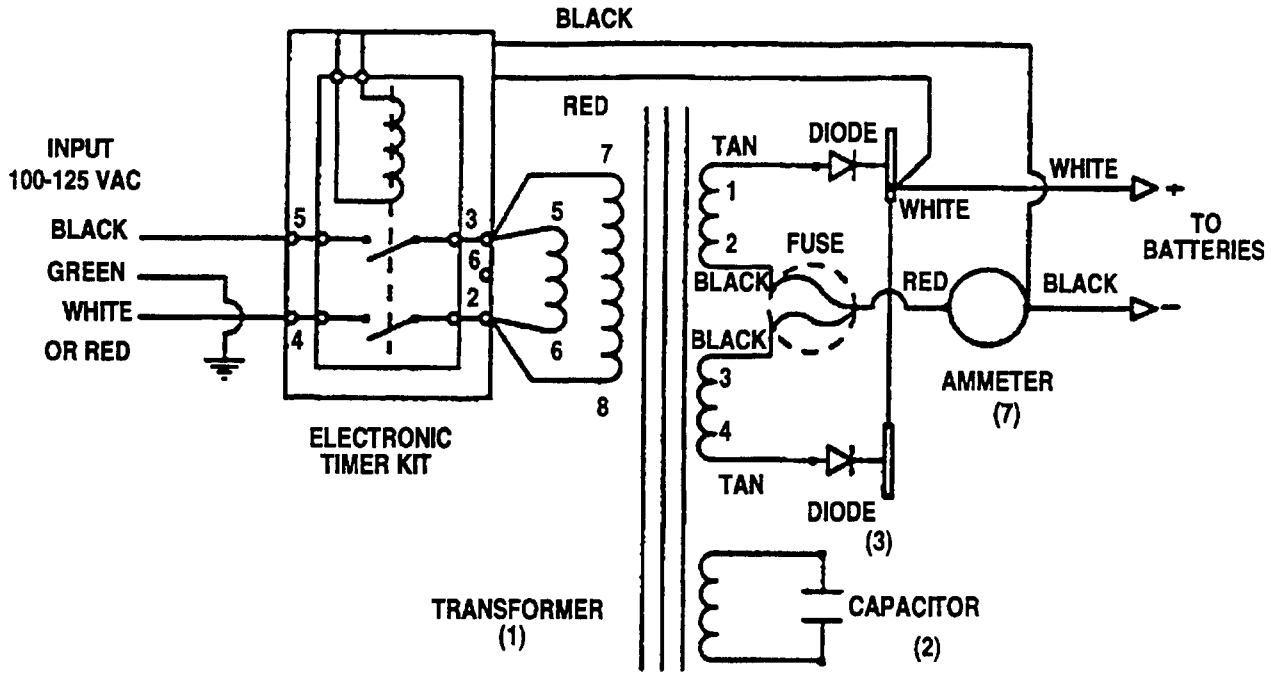
BATTERY CHARGER
100-125 VAC, 60 HZ.

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	

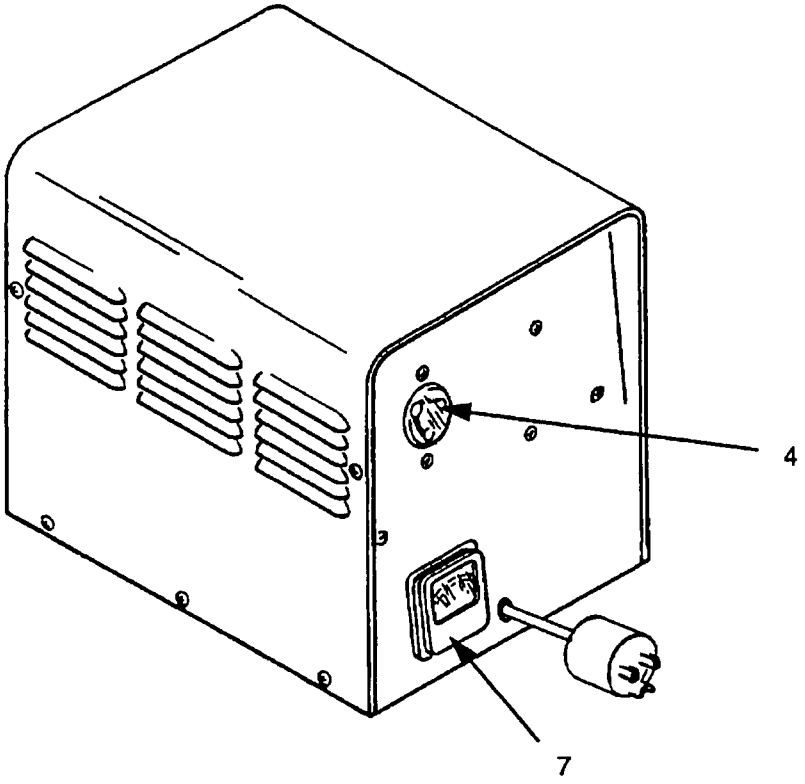
FOR USE WITH 100-125 VAC



Models J14EP
J14EPI/TUV
Issued 4-96

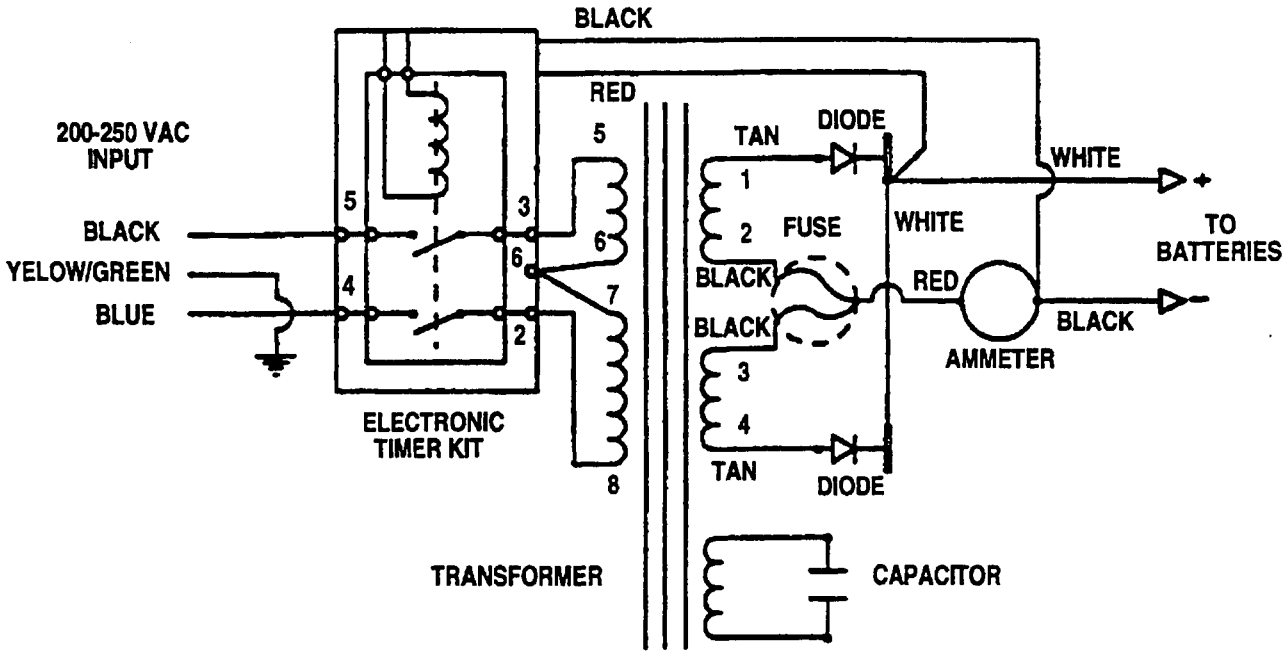
BATTERY CHARGER
200-250 VAC, 50 HZ.

Mark Industries



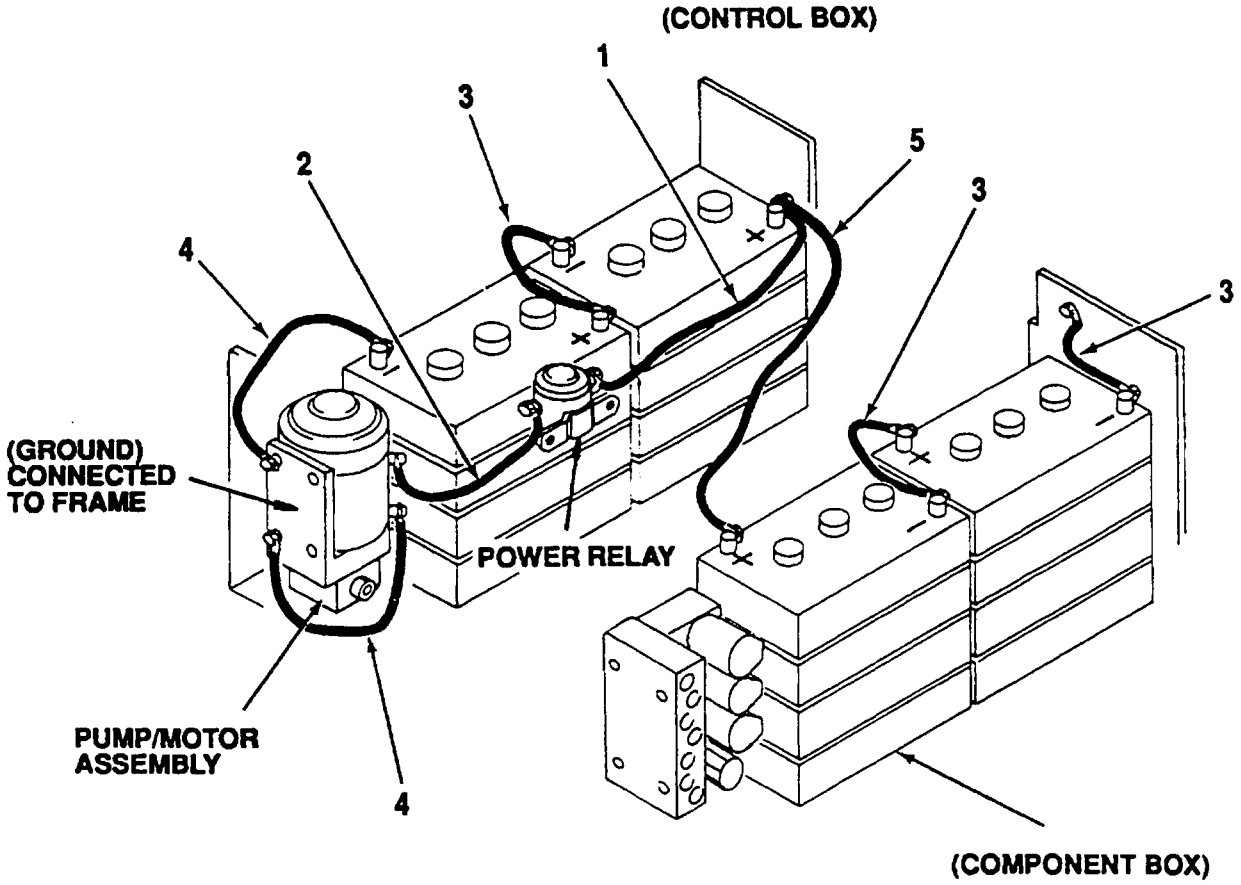
Ref.	Part No.	Description	Qty	Remarks
-	70832	Battery Charger, 200-250 VAC, 50 HZ	Ref.	
1	69762	Assembly, Transformer	1	
2	66750	Capacitor (6.0 MFD, 660 VAC)	1	
3	69733	Assembly, Heat Sink (With Diodes)	1	
4	66726	Assembly, Fuse	1	
5	69734	Kit Electronic Timer	1	
6	600270	Relay	1	
7	66747	Ammeter	1	

FOR USE WITH 200-250VAC



NOTES

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Ref.	Part No.	Description	Qty	Remarks
-	135086	Kit, Battery Cable	Ref.	Incl. Items 1 thru 5
1	13226-0460	Assembly, Electrical Cable	1	
2	13226-0173	Assembly, Electrical Cable	1	
3	13226-0083	Assembly, Electrical Cable	3	
4	13226-0250	Assembly, Electrical Cable	1	
5	13226-0620	Assembly, Electrical Cable	1	

NOTES

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SECTION 4 CONTAINS:

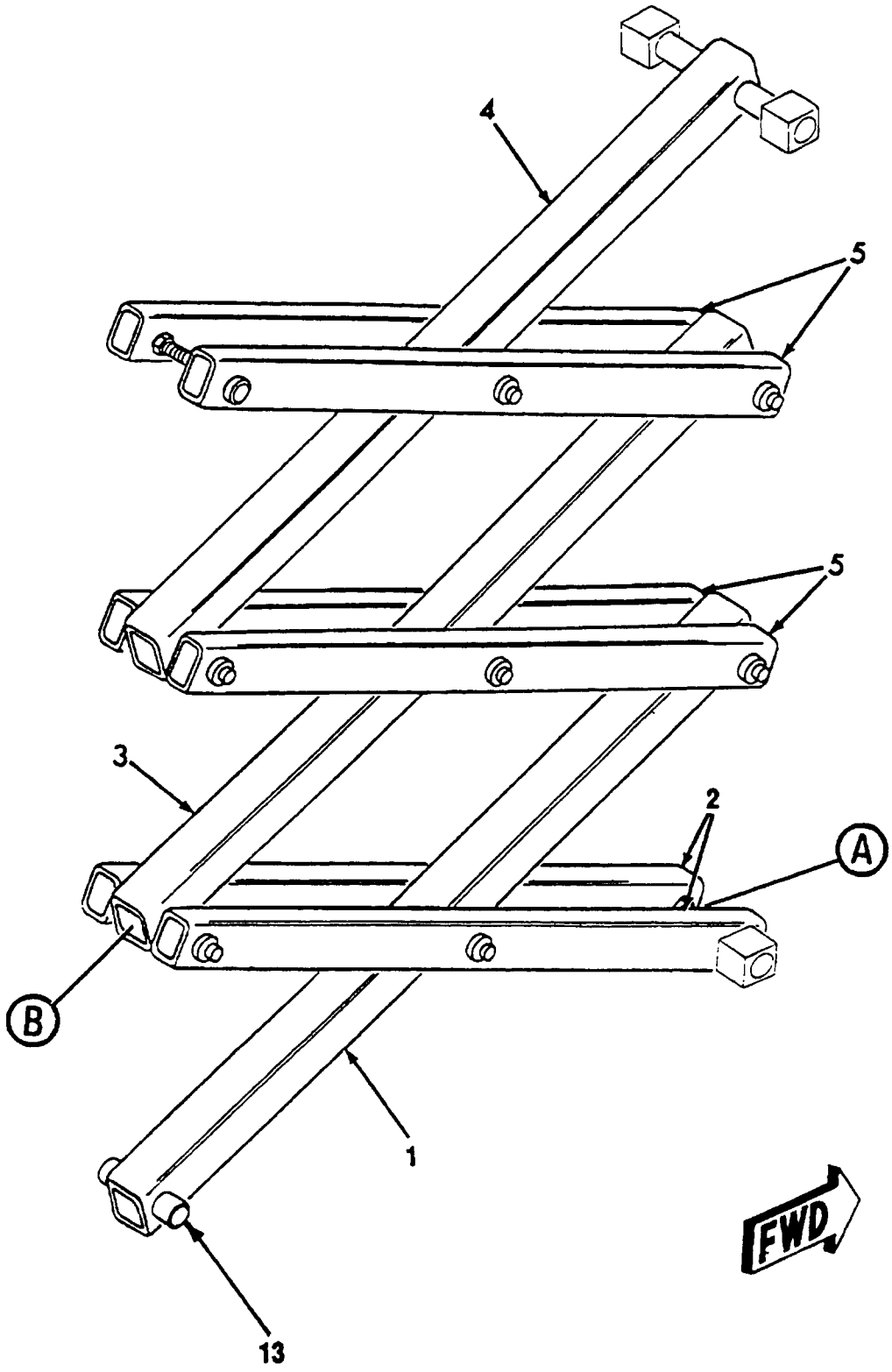
PAGE	TITLE
4.2	SCISSOR ASSEMBLY
4.5	LIFT CYLINDER ASSEMBLY
4.6	LIFT CYLINDER

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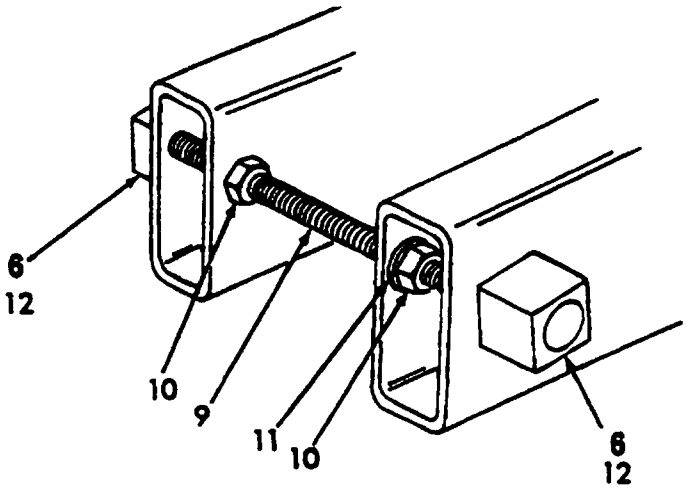
Models J14EP
J14EPI/TUV
Issued 4-96

SCISSOR ASSEMBLY

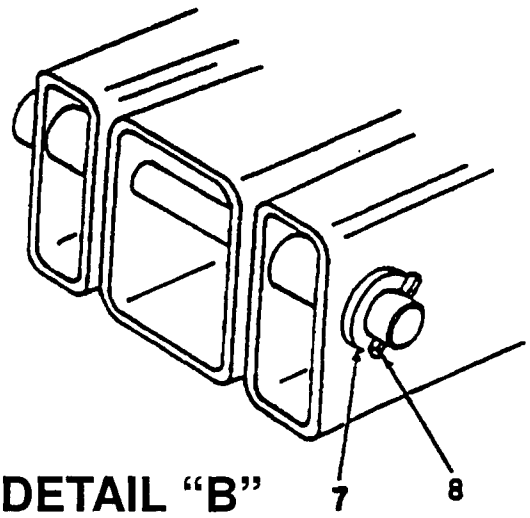
Mark Industries



SCISSOR ASSEMBLY



DETAIL "A"

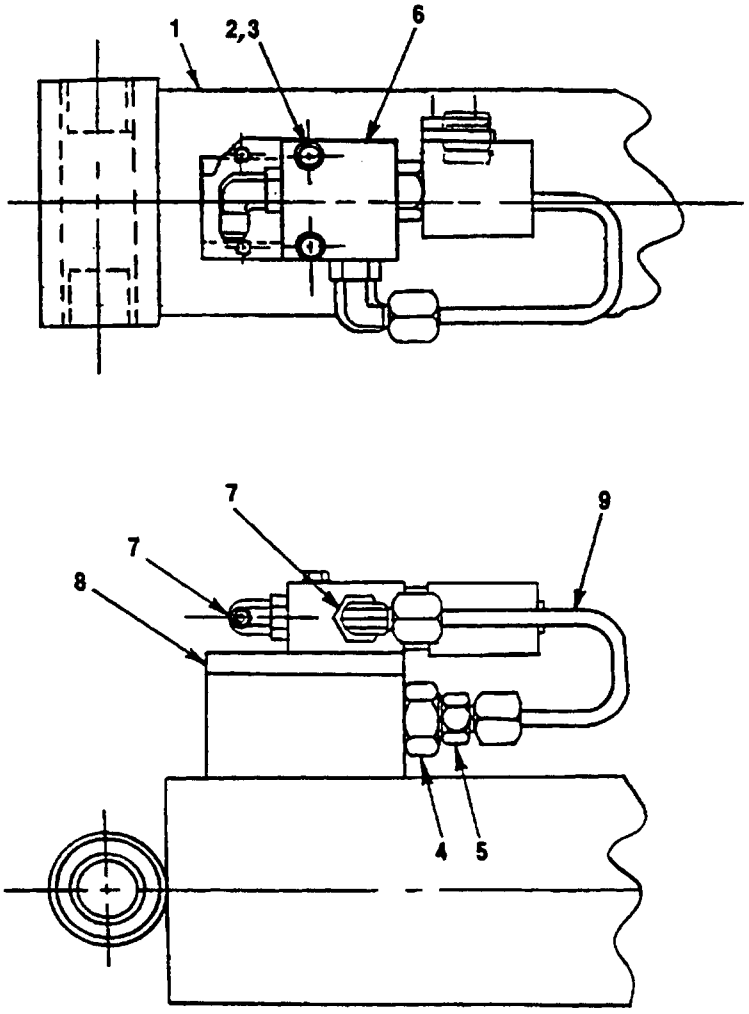


DETAIL "B"

Ref.	Part No.	Description	Qty	Remarks
-	130141	Scissor Assembly	Ref.	J14EP, J14EPI
	135444	Scissor Assembly	Ref.	J14EPI/TUV
1	130160	Weldment, Inner Bottom Arm	1	
2	130161	Weldment, Outer Bottom Arm	2	J14EP, J14EPI
	135457	Weldment, Outer Bottom Arm, LH	1	J14EPI/TUV
	135446	Weldment, Outer Bottom Arm, RH	1	J14EPI/TUV
3	130159	Weldment, Inner Middle Arm	1	
4	130158	Weldment, Inner Top Arm	1	J14EP, J14EPI
	135445	Weldment, Inner Top Arm	1	J14EPI/TUV
5	130157	Weldment, Outer Top and Middle Arm	4	J14EP, J14EPI
	135447	Weldment, Outer Top and Middle Arm	4	J14EPI/TUV
6	130838	Shaft	4	
7	130807	Spacer, Outer	21	
8	1227-261	Pin, Roll	14	
9	63665	Threaded, Rod	1	
10	1205-58	Nut, Hex	4	
11	1210-26	Washer, Lock Split	2	
12	130833	Wear Pad	4	
13	64917	Bushing	7	

NOTES

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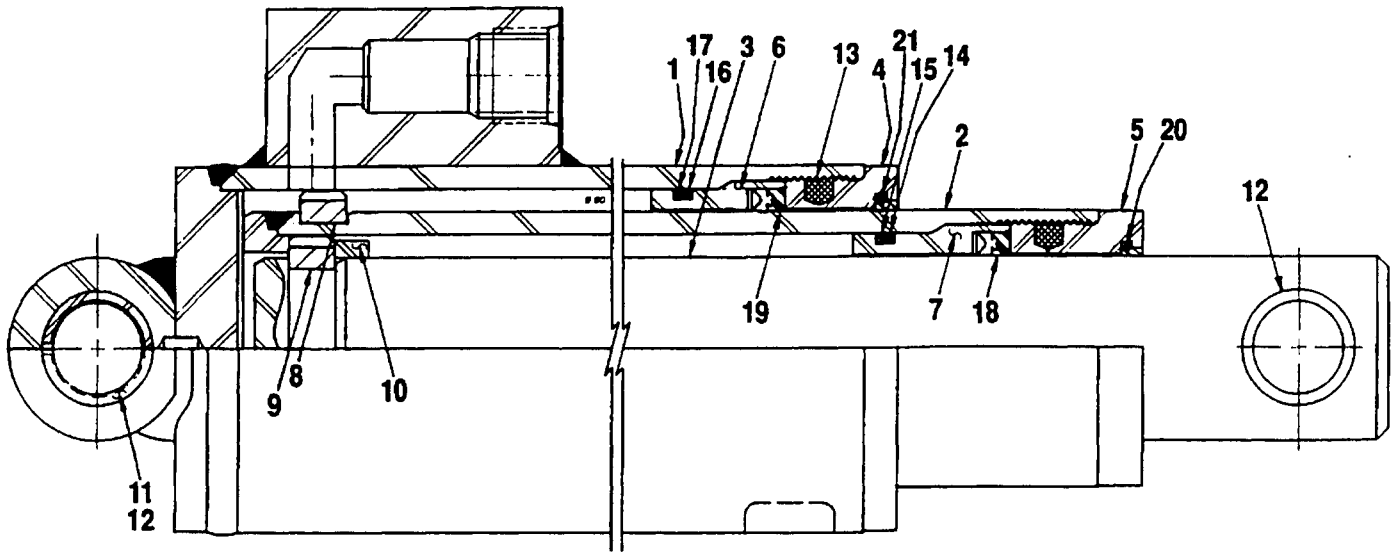


Ref.	Part No.	Description	Qty	Remarks
	130236	Lift Cylinder Assembly	Ref	Incl. Items 1 thru 9
1	130176 (GB)	Lift Cylinder	1	See Page 4.6
	130176 (EA)	Lift Cylinder	1	See Page 4.8
2	60315	Capscrew, 1/4C x 1-1/2	2	
3	63301	Lockwasher, 1/4	2	
4	80004-14	Connector, Straight Thread	1	
5	80056-02	Reducer	1	
6	81028	Solenoid Check Valve	1	
7	80012-05	Elbow, Straight Thread	2	
8	133484	Sub-Plate, Check Valve	1	
9	133483	Tube Ass'y	1	

Models J14EP
J14EPI/TUV
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LIFT CYLINDER

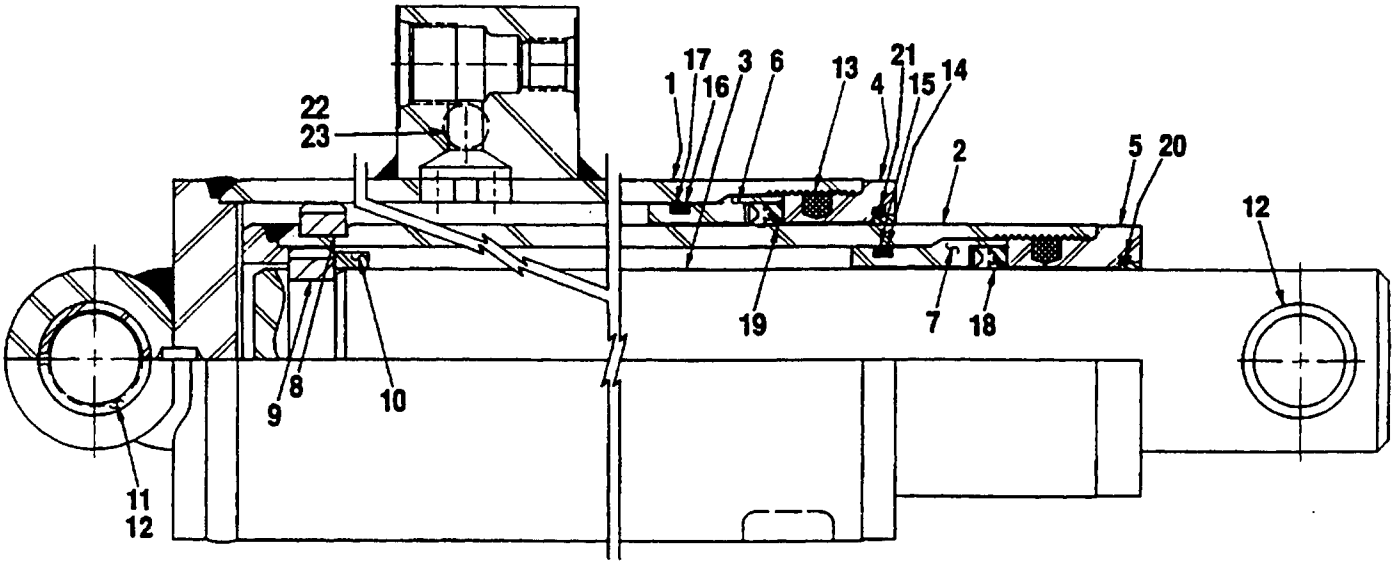
Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	130176	Lift Cylinder(GB)	1	Incl. Items 1 thru 21
	600086	Kit, Seal	1	Incl. Items 14 thru 21 *
1	69878	Tube	1	
2	69879	Rod Tube Ass'y	1	
3	69880	Rod	1	
4	69881	Retainer	1	
5	600099	Retainer	1	
6	69882	Bearing	1	
7	69883	Bearing	1	
8	69884	Piston	1	
9	69885	Piston	1	
10	69886	Spacer	1	
11	69887	Spacer	1	
12	69888	Bushing	4	
13	69605	Nylon Plug	2	*
14	69889	Back-Up	1	*
15	69890	O-Ring	1	*
16	69604	Back-Up	1	*
17	69603	O-Ring	1	*
18	69891	U-Ring	1	*
19	69892	U-Ring	1	*
20	69893	Wiper	1	*
21	69894	Wiper	1	*

LIFT CYLINDER (INTERNATIONAL)

Models J14EP
J14EPI/TUV
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Ref.	Part No.	Description	Qty	Remarks
	135227	Lift Cylinder(GB) - International Only	1	Incl. Items 1 thru 23
	69911	Kit, Seal	1	Incl. Items 13 thru 21,22 *
1	69912	Tube	1	
2	69879	Rod Tube Ass'y	1	
3	69880	Rod	1	
4	69881	Retainer	1	
5	600099	Retainer	1	
6	69882	Bearing	1	
7	69883	Bearing	1	
8	69884	Piston	1	
9	69885	Piston	1	
10	69886	Spacer	1	
11	69887	Spacer	1	
12	69888	Bushing	4	
13	69605	Nylon Plug	2	*
14	69889	Back-Up	1	*
15	69890	O-Ring	1	*
16	69604	Back-Up	1	*
17	69603	O-Ring	1	*
18	69913	U-Ring	1	*
19	69914	U-Ring	1	*
20	69893	Wiper	1	*
21	69894	Wiper	1	*
22	69915	Port Plug	1	
23	69916	O-Ring	1	*

Models J14EP
J14EPI/TUV
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LIFT CYLINDER

Mark Industries

PICTURE NOT AVAILABLE THIS PRINTING

Ref.	Part No.	Description	Qty	Remarks
	130176	Lift Cylinder(EA)	1	
	66639	Kit, Seal	1	

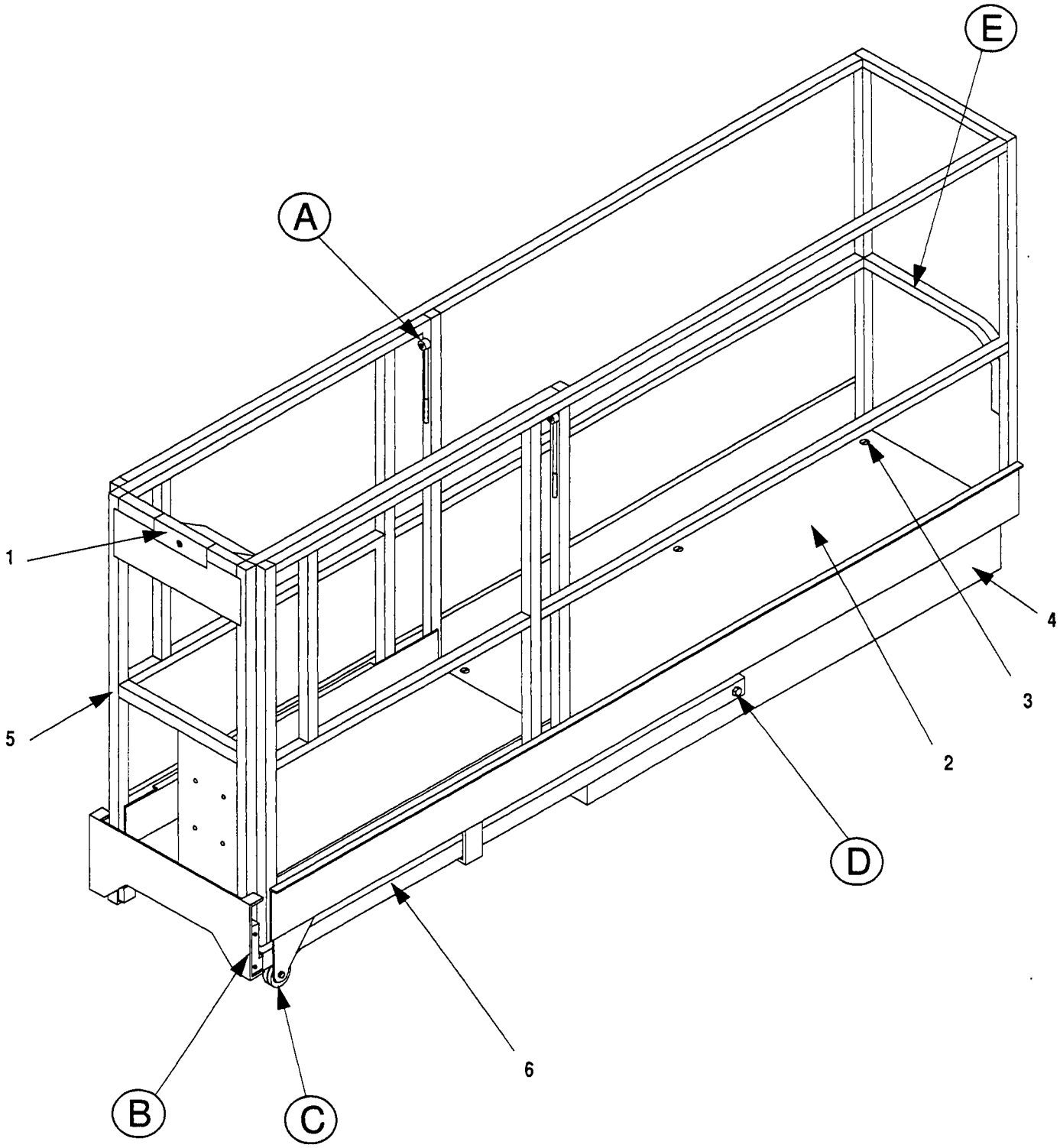
SECTION 5 "PLATFORM"CONTAINS:

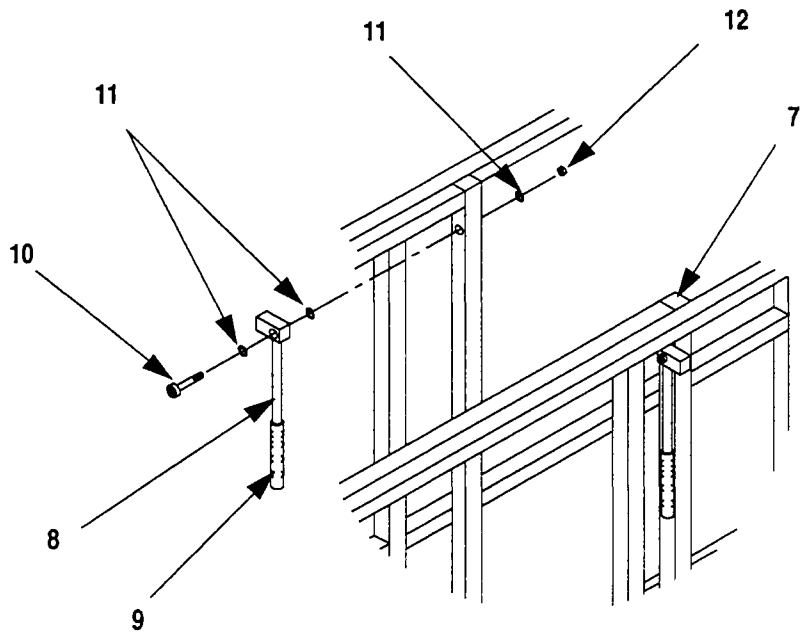
PAGE	TITLE
5.2	PLATFORM ASSEMBLY
5.5	GATE ASSEMBLY

Models J14EP
J14EPI/TUV
Issued 4-96

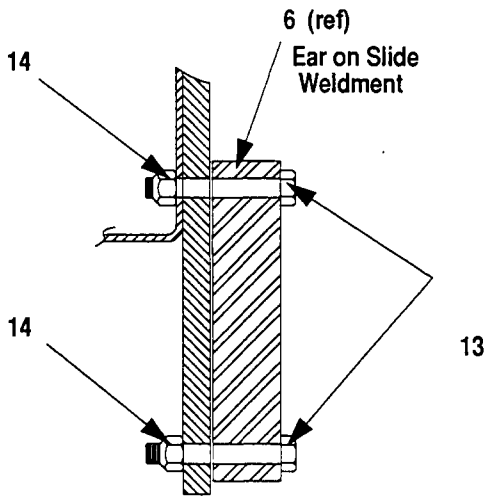
PLATFORM ASSEMBLY

Mark Industries





DETAIL "A"



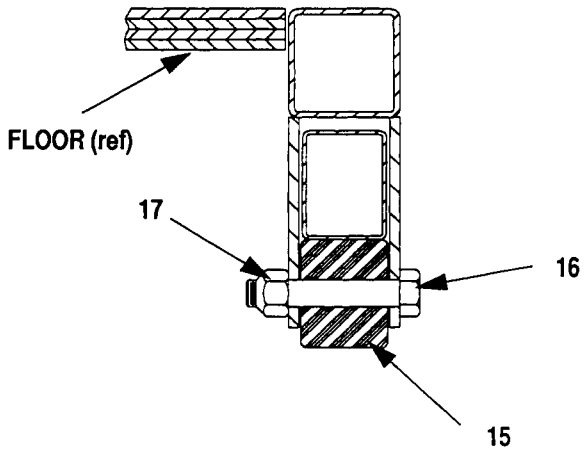
DETAIL "B"

Ref.	Part No.	Description	Qty	Remarks
-	135424-1	Assembly, Platform - J14EP	Ref.	Incl. 2 thru 31
	135424	Assembly, Platform - J14EPII	Ref.	Incl. 2 thru 31
	135425	Assembly, Platform - J14EPI/TUV	Ref.	Incl. 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.	
1		Aerial Control Box	Ref	See Section 2 for Details.
2	135756	Floor, Plywood	1	J14EP, J14EPI
	135440	Floor, Plywood	1	J14EPI/TUV
3	61713	Capscrew, Self Tapping	11	
4	135421-1	Weldment, Main Deck - J14EP	1	
	135607	Weldment, Main Deck - J14EPI	1	
	135290	Weldment, Main Deck - J14EPI/TUV	1	
5	135423	Weldment, E P Deck - J14EP,J14EPI,J14EPI/TUV	1	
6	135435	Weldment, Slide	2	
7	91541	Cap, Plug	9	
8	133119	Handle, Hand Rail	2	
9	160311	Grip, Handle	2	
10	160290	Screw, Shoulder	2	
11	63403	Flat Washer, 3/8	12	
12	61246	Locknut, 5/16-18 Nylon Insert	2	
13	1200-71	Capscrew, 3/8-16 x 2-1/2 GR5	4	
14	61302	Locknut, Hex Head 3/8-16	4	

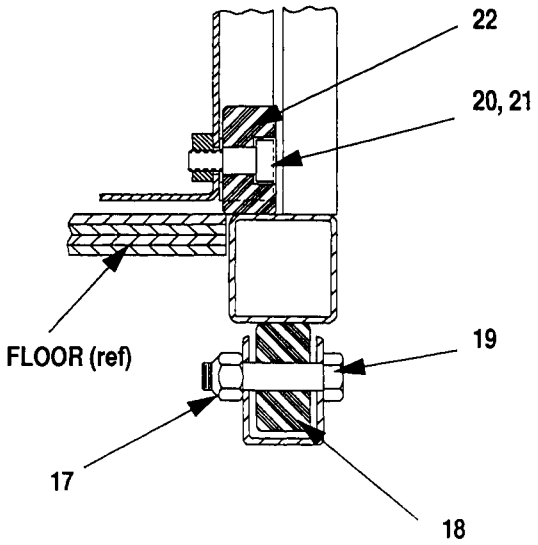
Models J14EP
J14EPI/TUV
Issued 4-96

PLATFORM ASSEMBLY

Mark Industries

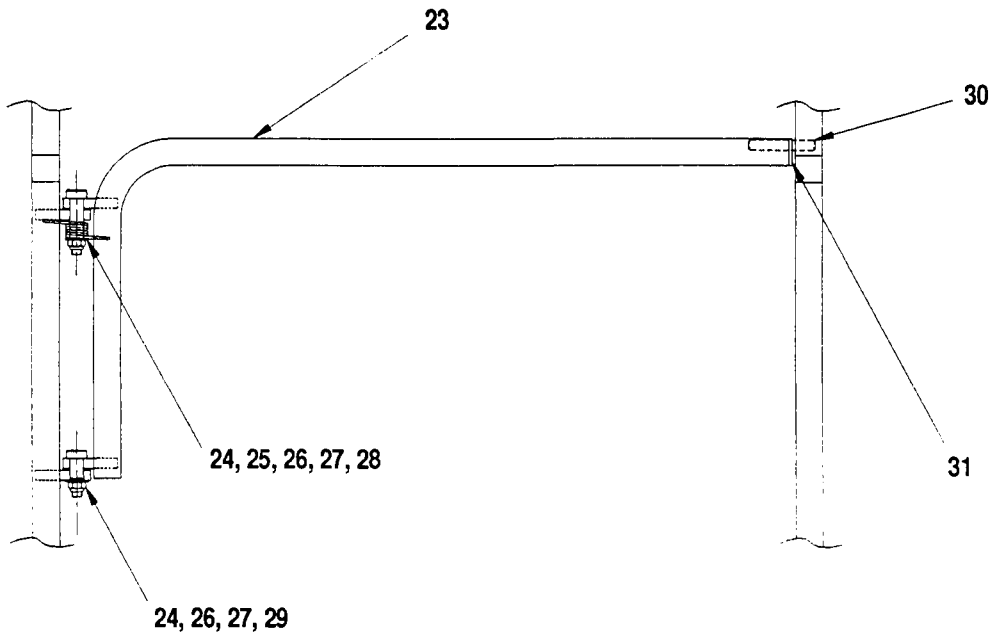


DETAIL "C"



DETAIL "D"

Ref.	Part No.	Description	Qty	Remarks
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	1200-1-6	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	



DETAIL "E"

Ref.	Part No.	Description	Qty	Remarks
23	135337	Gate	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	

NOTES

SECTION 6 CONTAINS:

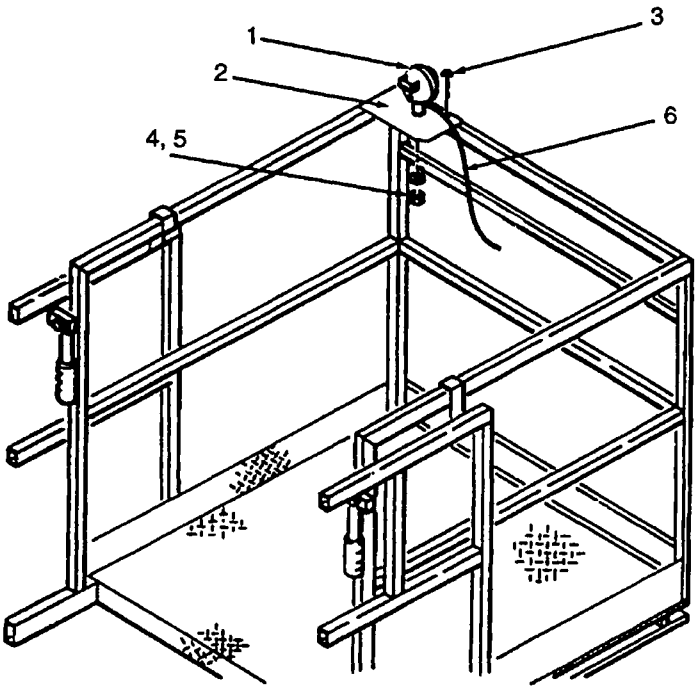
PAGE	TITLE
6.2	PLATFORM LIGHT
6.3	HOURMETER
6.4	PLATFORM WIRING - 110V/220V
6.6	LIFTING LUGS
6.7	ROTATING AMBER BEACON
6.8	TRAVEL WARNING HORN / ALL-MOTION ALARM
6.10	SCISSOR SKIRT (INTERNATIONAL/TUV)

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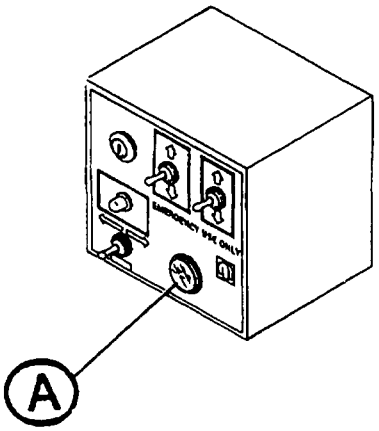
Models J14EP
J14EPI/TUV
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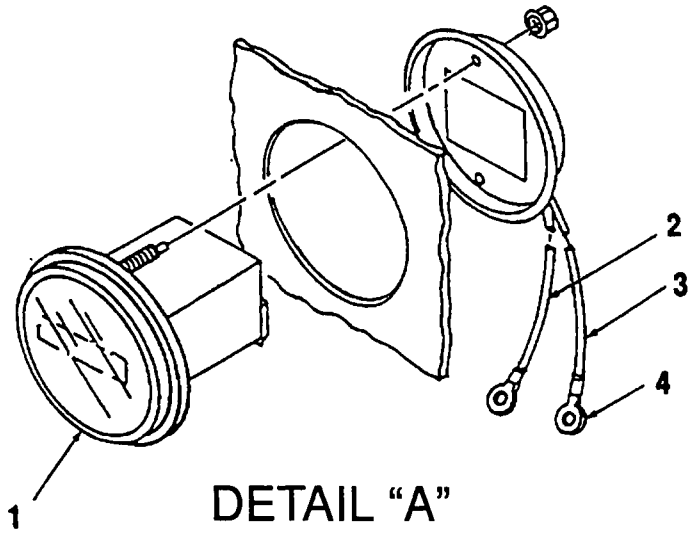
PLATFORM LIGHT

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	135697	Platform Worklight Ass'y	Opt.	Incl. Items 1 thru 11
1	70878	Light, Work	1	
2	135683	Bracket, Worklight	1	
3	63654	Pop Rivet	4	
4	1200-314	Capscrew	2	
5	1205-32	Nut, Lock	2	
6	70767	Cable, 18/2	1	(11 feet)
7	70500	Terminal	2	
8	70501	Terminal	3	
9	70567	Terminal	1	Not shown,used at upper control box
10	70806	Contact Pin	3	
11	70807	Contact Pin	3	





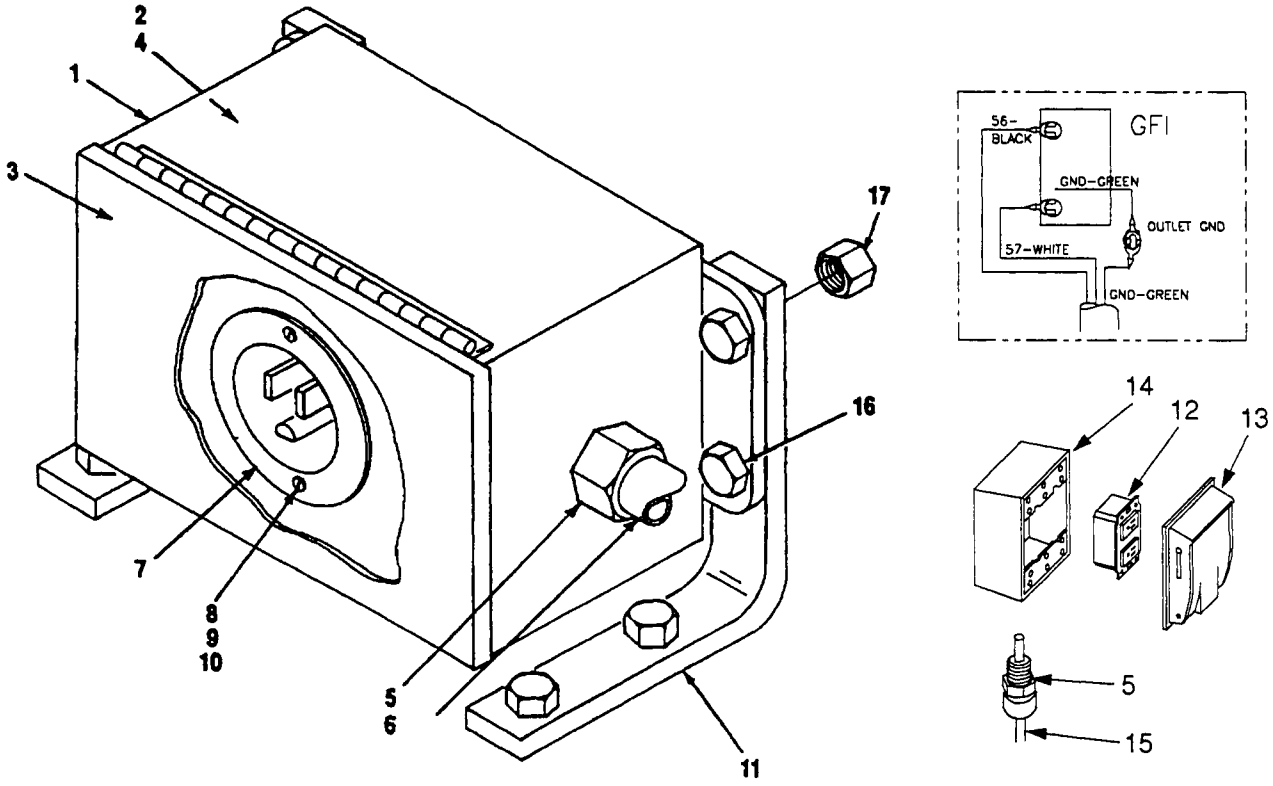
DETAIL "A"

Ref.	Part No.	Description	Qty	Remarks
-	131065	Hourmeter Assembly	1	Incl. Items 1 thru 4
1	20571	Hourmeter	1	
2	70232	Wire, White	2.5'	
3	70008	Wire, Yellow/Green	2.5'	
4	66356	Terminal, Female	2	
		See Electrical Schematic for wiring installation		

Models J14EP
J14EPI/TUV
Issued 4-96

PLATFORM WIRING

Mark Industries



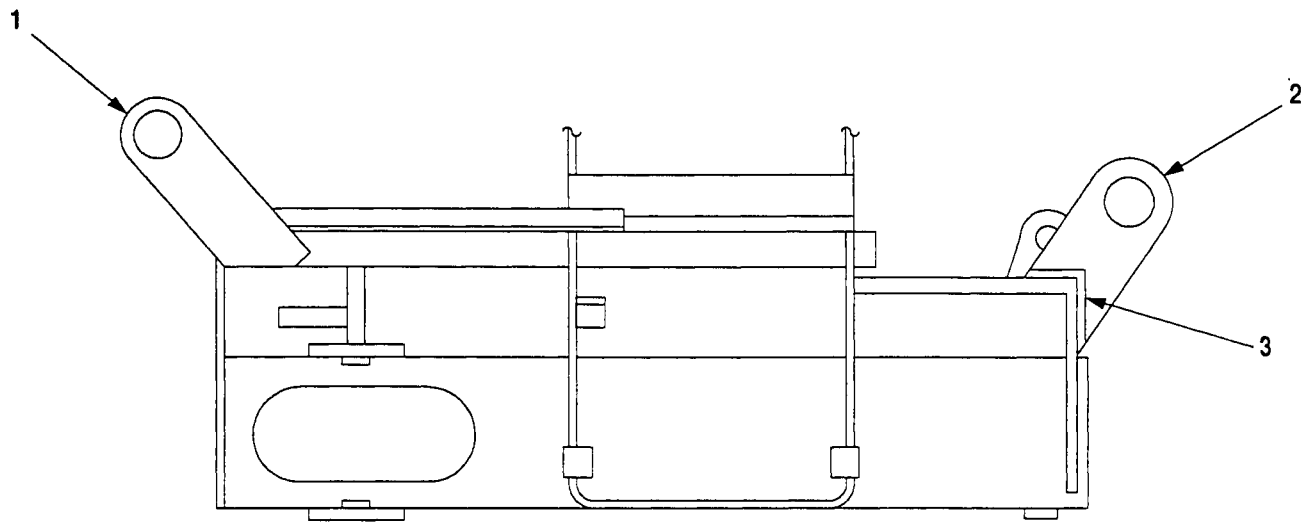
Ref.	Part No.	Description	Qty	Remarks
	134812	Platform Wiring - 110V	1	Incl. Items 1 thru 15
	131297	110 VAC Box Ass'y	1	Incl. Items 1 thru 10
1	131296	Box, AC	1	
2	185702	Decal, Circuit Breaker	1	
3	185707	Decal, Power to Flatform	1	
4	20562	Circuit Breaker	1	
5	2806	Strain Relief	1	
6	2808	Locknut, 1/2	1	
7	70409	Inlet, Flanged ST. Blades - 15 Amp	1	
8	62609	Machine Screw, #6-32 Round Slotted Head	2	
9	63311	Lockwasher, #6	2	
10	61501	Nut, #6-32	2	
11	131819	Bracket, Mounting	2	
12	70391	Receptacle, GFCI	1	
13	70392	Cover	1	
14	70262	Box, Universal	1	
15	4034	Cable, Conductor, 3-12	30'	
16	60309	Capscrew	8	
17	60711	Locknut	8	

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Models J14EP
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LIFTING LUG

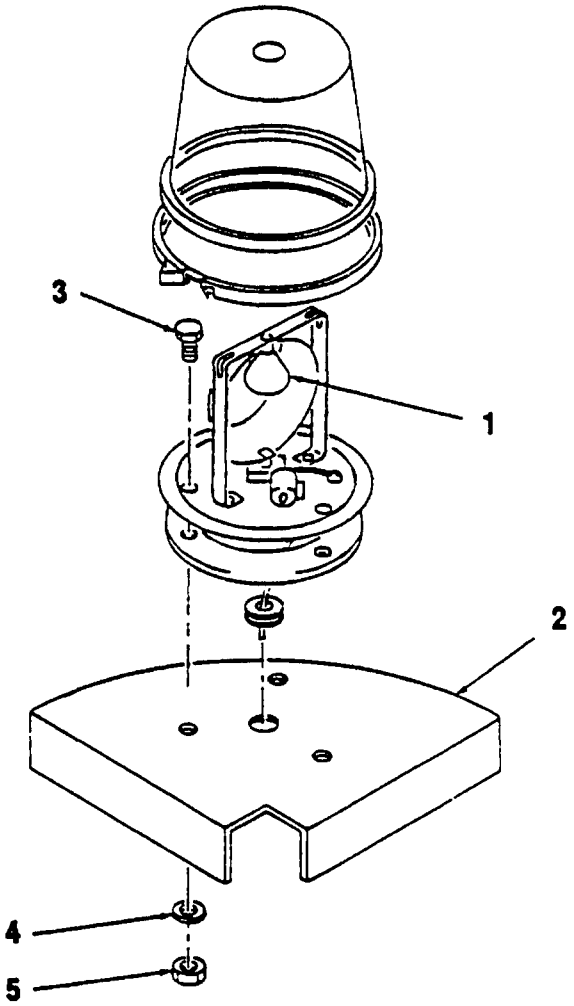
Mark Industries



J14EP FRAME

Ref.	Part No.	Description	Qty	Remarks
-	132034	Assembly, Lifting Lug	Opt.	Incl. items 1 thru 3
1	131783	Lifting Lug	2	
2	131782	Lifting Lug	2	
3	37687	Angle	2	

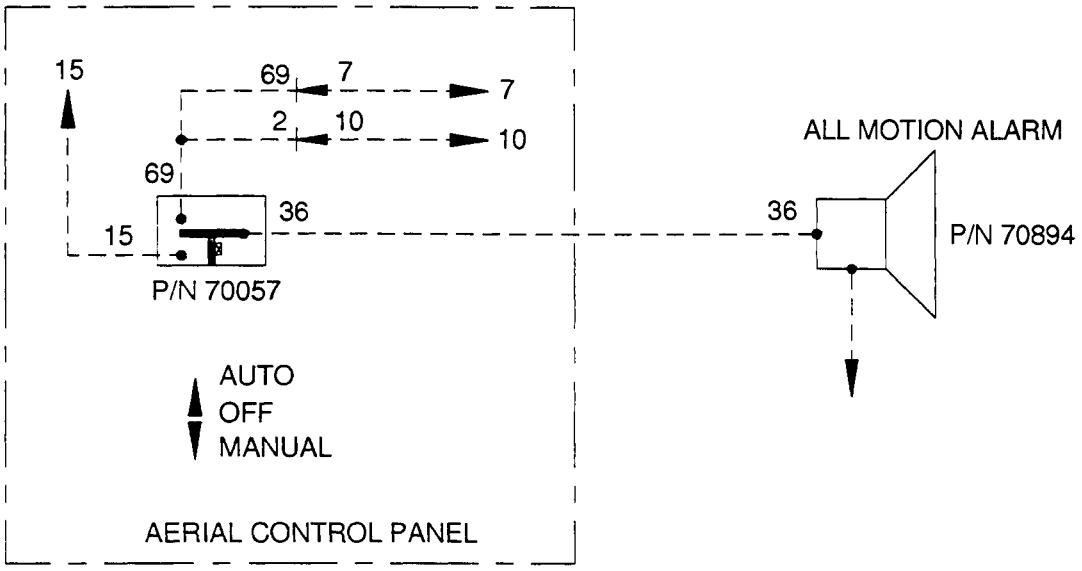
ROTATING AMBER BEACON



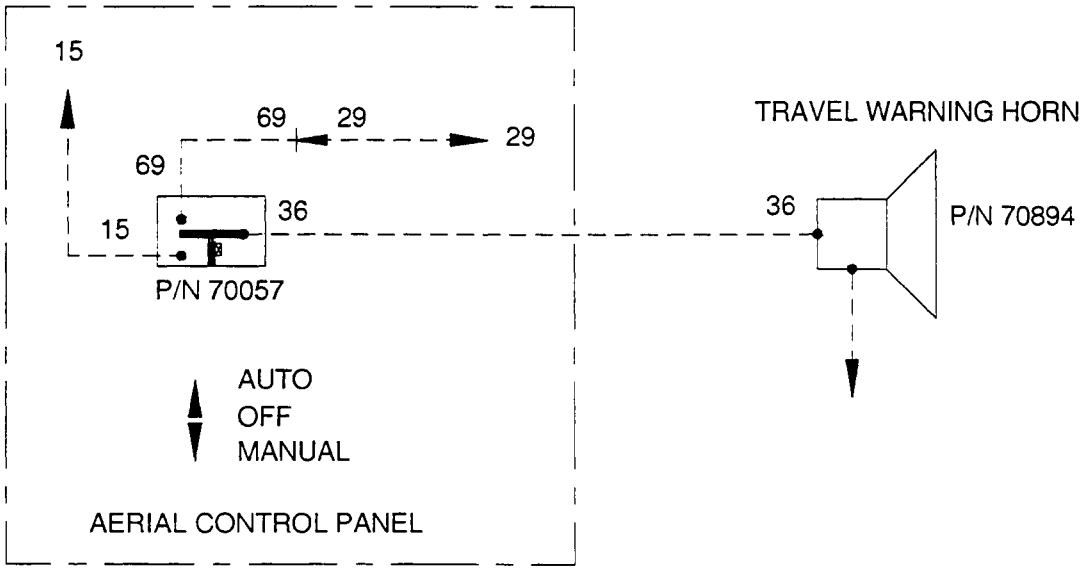
Ref.	Part No.	Description	Qty	Remarks
	131927	Rotating Amber Beacon Ass'y	1	Incl. Items 1 thru 13
1	70837	Rotating Beacon	1	
2	134021	Bracket	1	
3	60315	Screw, Cap Hex	3	
4	63401	Washer, Flat	3	
5	60711	Nut, 1/4C	3	
6	70767	Cable	9 Ft.	
7	70500	Terminal, Female Disconnect	1	
8	70501	Terminal, Male Disconnect	1	
9	117-C	Terminal, Ring (Blue)	1	
10	2832	Terminal, Ring (Yellow)	1	
11	16214	Mount, Cable Tie	5	
12	256	Tie, Cable	20	

WARNING HORN

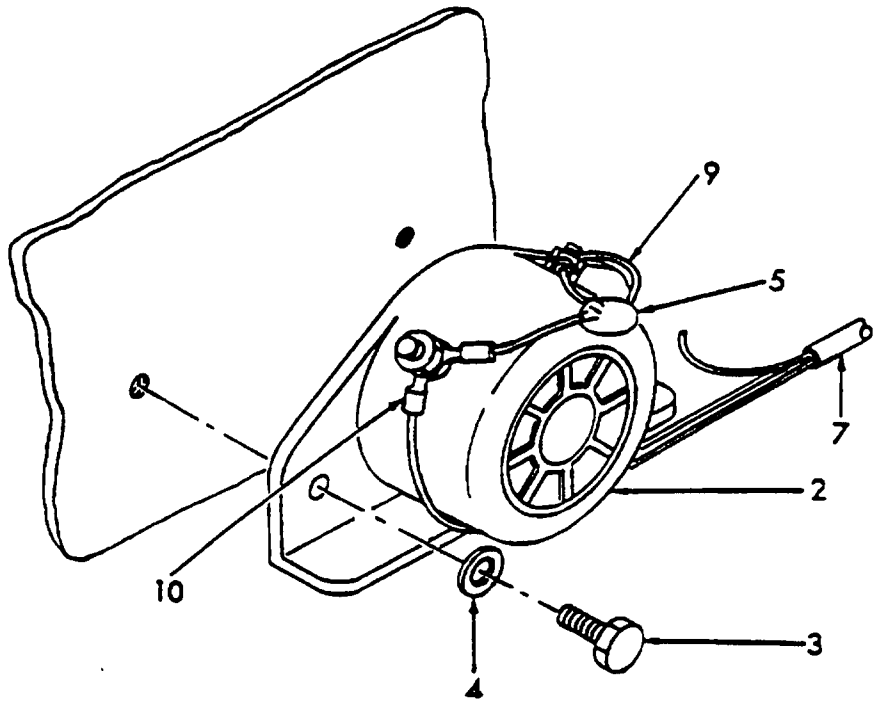
Mark Industries



ALL MOTION ALARM



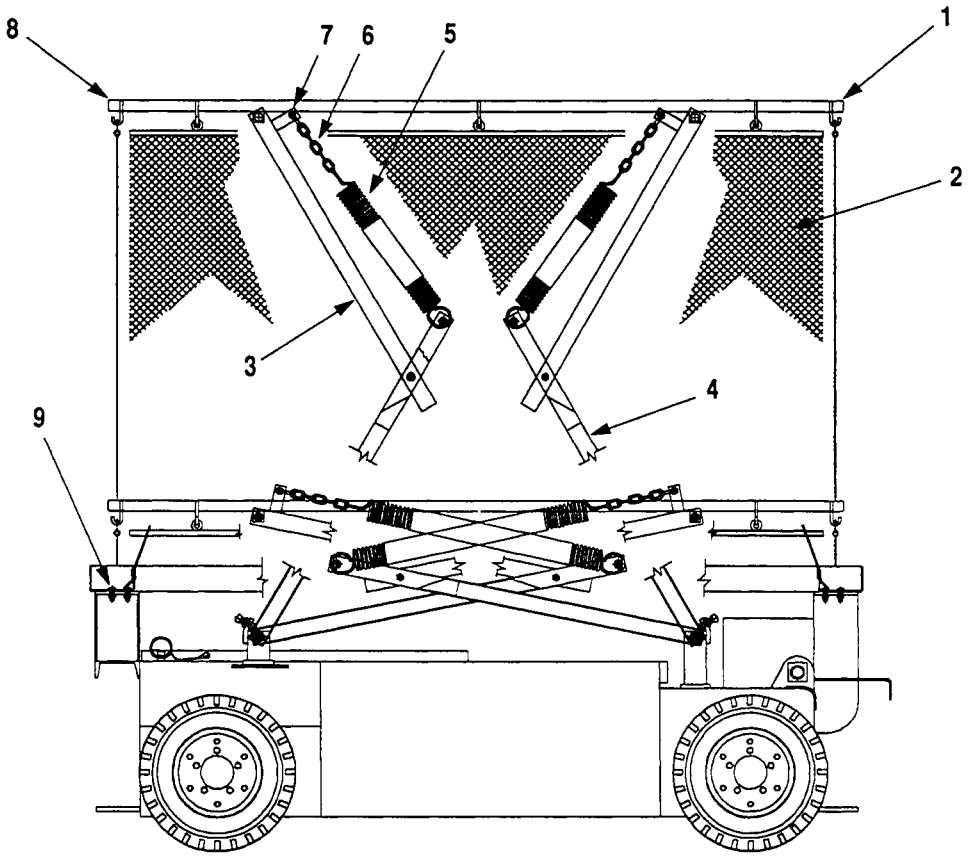
OPTION TRAVEL WARNING HORN



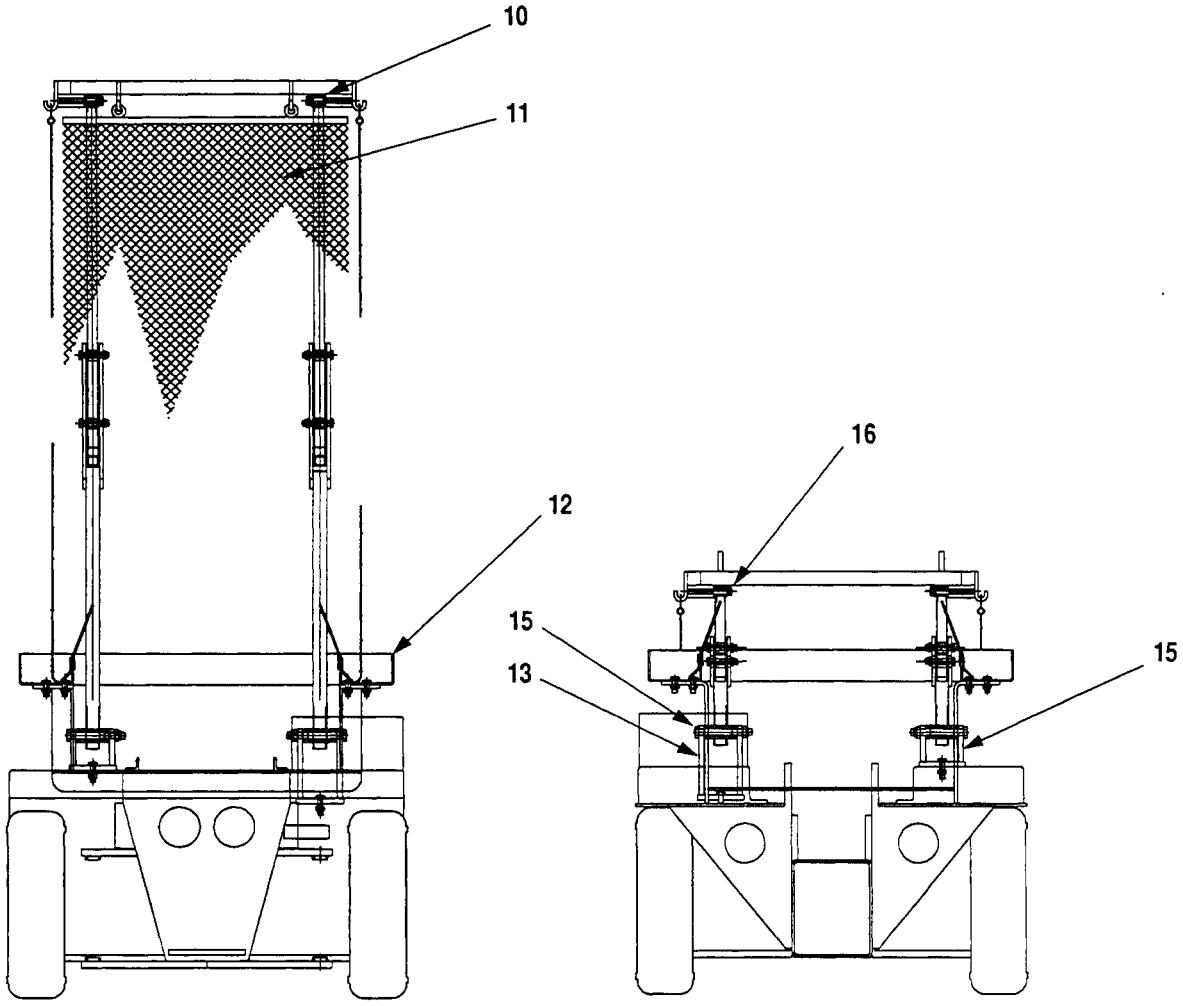
Ref.	Part No.	Description	Qty	Remarks
1	130912	Assembly, Travel Warning Horn	Ref.	Incl. items 2 thru 11.
1	131900	Assembly, All Motion Alarm	Ref.	See Page 6.8 for Correct Wiring Diagram.
2	70894	Horn, Warning	1	
3	60309	Screw, Cap	2	
4	63301	Washer, Lock	2	
5	130705	Assembly, Varistor	1	
6	70479	Diode	2	
7	2990	Wire, White	AR	
8	70068	Connector, Butt	4	
9	70007	Wire, Yellow	AR	For 130912
	70008	Wire, Yellow w/Green	AR	For 131900
10	117-C	Terminal, Ring	4	
11	70057	Switch, Toggle (Located on Upper Control Box)	1	

SCISSOR SKIRT

Mark Industries



Ref.	Part No.	Description	Qty	Remarks
	135463	Scissor Skirt J14EPI/TUV	Ref.	Incl. Items i thru 16
1	135355	Top Frame	2	
2	135406	Side Curtain	2	
3	135379	Upper Strut	2	
4	135380	Lower Strut	2	
5	160382	Extension Spring	2	
6	160690	Chain (5 Links)	5	
7	160689	Clevis	2	
8	1200-9	Capscrew	4	
	1205-23	Locknut	4	
9	1200-60	Screw, Cap	8	
	1205-45	Locknut	8	



Ref.	Part No.	Description	Qty	Remarks
10	1200-69	Capscrew	2	
	1209-4	Flatwasher	2	
	1210-20	Lockwasher	2	
11	135405	End Curtain	2	
12	135380	Lower Strut	2	
13	135378	Rear Pedestal	1	
14	135377	Front Pedestal	1	
15	1200-120	Capscrew	2	
	1205-67	Locknut	2	
16	1200-61	Capscrew	2	
	1205-45	Locknut	2	

NOTES

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SECTION 7 CONTAINS:

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ALPHABETICAL LIST

Mark Industries

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