

M-91-18  
REV. D  
JUNE 2009

# MAINTENANCE MANUAL

# RAILGATE

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## LIFT GATE SERIES



- RCM-1250C
- RCM-1250C AB
- RCM-1600C
- RCM-1600C AB

**MAXON**<sup>®</sup>  
LIFT CORP.

11921 Slauson Avenue  
Santa Fe Springs, CA 90607  
(800) 227-4116



# MAXON<sup>®</sup>

## LIFT CORP.

11921 Slauson Ave.  
Santa Fe Springs, CA. 90670

### CUSTOMER SERVICE:

TELEPHONE (562) 464-0099 TOLL FREE (800) 227-4116

FAX: (888) 771-7713

NOTE: For latest version of all Manuals (and replacements), download the Manuals from Maxon's website at [www.maxonlift.com](http://www.maxonlift.com).

## WARRANTY/ RMA POLICY & PROCEDURE

### LIFTGATE WARRANTY

Type of Warranty: Full Parts and Labor

Term of Warranty: Standard Liftgates - 2 years from ship date or 6,000 cycles  
Premium Liftgates - 2 years from ship date or 10,000 cycles

This warranty shall not apply unless the product is installed, operated and maintained in accordance with MAXON Lift's specifications as set forth in MAXON Lift's Installation, Operation and Maintenance manuals. This warranty does not cover normal wear, maintenance or adjustments, damage or malfunction caused by improper handling, installation, abuse, misuse, negligence, or carelessness of operation. In addition, this warranty does not cover equipment that has had unauthorized modifications or alterations made to the product.

MAXON agrees to replace any components which are found to be defective during the first 2 years of service, and will reimburse for labor based on MAXON's Liftgate Warranty Flat Rate Schedule. (Copy of the Flat Rate is available at [www.maxonlift.com](http://www.maxonlift.com).)

All warranty repairs must be performed by an authorized MAXON warranty facility. For any repairs that may exceed \$500, including parts and labor, MAXON's Technical Service Department must be notified and an "Authorization Number" obtained.

All claims for warranty must be received within 30 Days of the repair date, and include the following information:

1. Liftgate Model Number and Serial Number
2. The End User must be referenced on the claim
3. Detailed Description of Problem
4. Corrective Action Taken, and Date of Repair
5. Parts used for Repair, Including MAXON Part Number(s)
6. MAXON R.M.A. # and/or Authorization # if applicable (see below)
7. Person contacted at MAXON if applicable
8. Claim must show detailed information i.e. Labor rate and hours of work performed

Warranty claims can also be placed online at [www.maxonlift.com](http://www.maxonlift.com). Online claims will be given priority processing.

All claims for warranty will be denied if paperwork has not been received or claim submitted via Maxon website for processing by MAXON's Warranty Department within 30 days of repair date.

All components may be subject to return for inspection, prior to the claim being processed. MAXON products may not be returned without prior written approval from MAXON's Technical Service Department. Returns must be accompanied by a copy of the original invoice or reference with original invoice number and are subject to a credit deduction to cover handling charges and any necessary reconditioning costs. **Unauthorized returns will be refused and will become the responsibility of the returnee.**

Any goods being returned to MAXON Lift must be pre-approved for return, and have the R.M.A. number written on the outside of the package in plain view, and returned freight prepaid. All returns are subject to a 15% handling charge if not accompanied by a detailed packing list. Returned parts are subject to no credit and returned back to the customer. Defective parts requested for return must be returned within 30 days of the claim date for consideration to:

MAXON Lift Corp.  
10321 Greenleaf Ave., Santa Fe Springs, CA 90670  
Attn: RMA# \_\_\_\_\_

MAXON's warranty policy does not include the reimbursement for travel time, towing, vehicle rental, service calls, oil, batteries or loss of income due to downtime. Fabrication or use of non Maxon parts, which are available from MAXON, are also not covered.

MAXON's Flat Rate Labor Schedule takes into consideration the time required for diagnosis of a problem.

All Liftgates returned are subject to inspection and a 15% restocking fee. Any returned Liftgates or components that have been installed or not returned in new condition will be subject to an additional reworking charge, which will be based upon the labor and material cost required to return the Liftgate or component to new condition.

### PURCHASE PART WARRANTY

Term of Warranty: 1 Year from Date of Purchase.

Type of Warranty: Part replacement only. MAXON will guarantee all returned genuine MAXON replacement parts upon receipt and inspection of parts and original invoice.

All warranty replacements parts will be sent out via ground freight. If a rush shipment is requested, all freight charges will be billed to the requesting party. \_\_\_\_\_

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Comply with the following **WARNINGS** and **SAFETY INSTRUCTIONS** while maintaining Liftgates. See Operation Manual for operating safety requirements.

## **⚠ WARNING**

- Do not stand, or allow obstructions, under the platform when lowering the Liftgate. **Be sure your feet are clear of the Liftgate.**
- **Keep fingers, hands, arms, legs, and feet clear of moving Liftgate parts (and platform edges) when operating the Liftgate.**
- **Correctly stow platform when not in use. Extended platforms could create a hazard for people and vehicles passing by.**
- **Disconnect Liftgate power cable from battery** before repairing or servicing Liftgate.
- If it is necessary to stand on the platform while maintaining the Liftgate, keep your feet and any objects clear of the inboard edge of the platform. Your feet or objects on the platform can become trapped between the platform and the Liftgate extension plate.
- Recommended practices for welding on steel parts are contained in the current **AWS (American Welding Society) D1.1 Structural Welding Code - Steel**. Damage to Liftgate and/or vehicle, and personal injury could result from welds that are done incorrectly.
- Recommended practices for welding on aluminum parts are contained in the current **AWS (American Welding Society) D2.1 Structural Welding Code - Aluminum**. Damage to Liftgate and/or vehicle, and personal injury could result from welds that are done incorrectly.

## **SAFETY INSTRUCTIONS**

- Read and understand the instructions in this **Maintenance Manual** before performing maintenance on the Liftgate.
- Before operating the Liftgate, read and understand the operating instructions in **Operation Manual**.
- Comply with all **WARNING** and instruction decals attached to the Liftgate.
- Keep decals clean and legible. If decals are illegible or missing, replace them. Free replacement decals are available from **Maxon Customer Service**.
- Consider the safety and location of bystanders and location of nearby objects when operating the Liftgate. Stand to one side of the platform while operating the Liftgate.
- Do not allow untrained persons to operate the Liftgate.
- Wear appropriate safety equipment such as protective eyeglasses, faceshield and clothing while performing maintenance on the Liftgate and handling the battery. Debris from drilling and contact with battery acid may injure unprotected eyes and skin.
- Be careful working by an automotive type battery. Make sure the work area is well ventilated and there are no flames or sparks near the battery. Never lay objects on the battery that can short the terminals together. If battery acid gets in your eyes, immediately seek first aid. If acid gets on your skin, immediately wash it off with soap and water.

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- If an emergency situation arises (vehicle or Liftgate) while operating the Liftgate, release the control switch to stop the Liftgate.
- A correctly installed Liftgate operates smoothly and reasonably quiet. The only noticeable noise during operation comes from the power unit while the platform is raised. Listen for scraping, grating and binding noises and correct the problem before continuing to operate Liftgate.
- Use only **Maxon Authorized Parts** for replacement parts. Provide Liftgate model and serial number information with your parts order. Order replacement parts from:

**MAXON LIFT CORP. Customer Service**  
**11921 Slauson Ave., Santa Fe Springs, CA 90670**

**Online: [www.maxonlift.com](http://www.maxonlift.com)**

**Express Parts Ordering: Phone (800) 227-4116 ext. 4345**

**Email: Ask your Customer Service representative**

# PERIODIC MAINTENANCE

## PERIODIC MAINTENANCE CHECKLIST



### WARNING

Never operate the Liftgate if parts are loose or missing.

### Annually or 5000 Cycles (whichever occurs first)

Visually check the entire Liftgate for excessively worn parts and broken welds, especially the hinge pins. See **PARTS BREAKDOWN** section for replacement parts. With the cylinder housing cover removed, lubricate drive chains with red grease. Also, do the **Semi-annual** and **Quarterly Maintenance** checks.

### Semi-annually or 2500 Cycles (whichever occurs first)

Visually check the platform hinge pins for excessive wear and broken welds. See **PARTS BREAKDOWN** section for replacement parts. Also, do the **Quarterly Maintenance** checks.

### Quarterly or 1250 Cycles (whichever occurs first)

Check the hydraulic fluid level in the pump reservoir. Refer to the **CHECKING HYDRAULIC FLUID** procedure in the **PERIODIC MAINTENANCE** section.

If hydraulic fluid appears contaminated, refer to the **CHANGING HYDRAULIC FLUID** procedure in the **PERIODIC MAINTENANCE** section.

Keep track of the grade of hydraulic fluid in the pump reservoir and never mix two different grades of fluid.

Check all hoses and fittings for chaffing and fluid leaks. Replace if necessary.

Check electrical wiring for chaffing and make sure wiring connections are tight and free of corrosion.

Check that all **WARNING** and **instruction decals** are in place and legible.

Check that all roll pins are in place and protrude evenly from both sides of hinge pin collar. Replace roll pins if necessary.

### CAUTION

Damaged cylinder seals and contaminated hydraulic fluid can result from painting the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while painting.

Check for rust and oily surfaces on Liftgate. If there is rust or oil on the Liftgate, clean it off. Touch up the paint where bare metal is showing.

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## CHECKING HYDRAULIC FLUID

### CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

**NOTE:** Use correct grade of hydraulic fluid for your location.

**+50 to +120 Degrees F - Grade ISO 32**

**Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606**

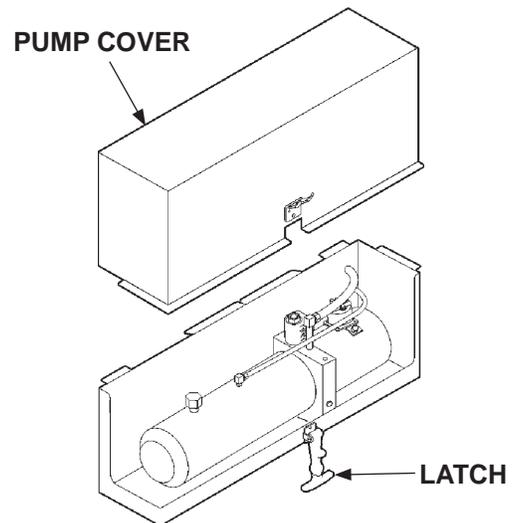
See **TABLES 10-1 and 10-2** for recommended brands.

**NOTE:** If the hydraulic fluid in the reservoir is contaminated, do the **CHANGING HYDRAULIC FLUID** procedure in this section.

1. Open and lower platform to ground level. Unfasten latch and remove the pump cover (**FIG. 9-2**).

2. Remove threaded filler cap (**FIG. 9-2**). Check the hydraulic fluid level in reservoir. Hydraulic fluid level should be 1" below the top of filler hole (**FIG. 9-2**). If needed, add hydraulic fluid to fill the reservoir to the level shown in **FIG. 9-2**.

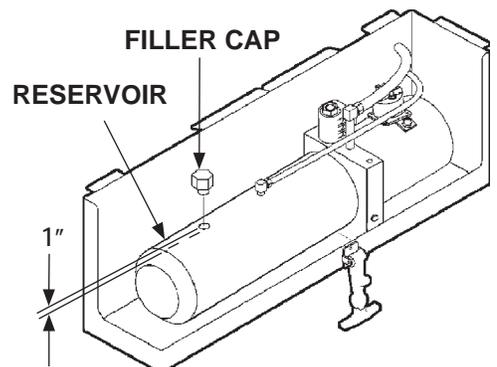
3. Reinstall filler cap (**FIG. 9-2**).



**REMOVING / REINSTALLING  
PUMP COVER  
FIG. 9-1**

**CAUTION**  
Pump cover must be correctly secured to prevent it from becoming a hazard. To secure pump cover, fasten the rubber latch on the pump box to the receiver on the pump box cover.

4. Reinstall the pump cover and fasten latch (**FIG. 9-2**).



**CHECKING FLUID LEVEL  
FIG. 9-2**

# PERIODIC MAINTENANCE

## CHECKING HYDRAULIC FLUID - Continued

ISO 32 HYDRAULIC OIL	
RECOMMENDED BRANDS	PART NUMBER
AMSOIL	AWH-05
CHEVRON	HIPERSYN 32
KENDALL	GOLDEN MV
SHELL	TELLUS T-32
EXXON	UNIVIS N-32
MOBIL	DTE-13M, DTE-24, HYDRAULIC OIL-13

**TABLE 10-1**

ISO 15 OR MIL-H-5606 HYDRAULIC OIL	
RECOMMENDED BRANDS	PART NUMBER
AMSOIL	AWF-05
CHEVRON	FLUID A, AW-MV-15
KENDALL	GLACIAL BLU
SHELL	TELLUS T-15
EXXON	UNIVIS HVI-13
MOBIL	DTE-11M
ROSEMEAD	THS FLUID 17111

**TABLE 10-2**

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## CHANGING HYDRAULIC FLUID

### CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

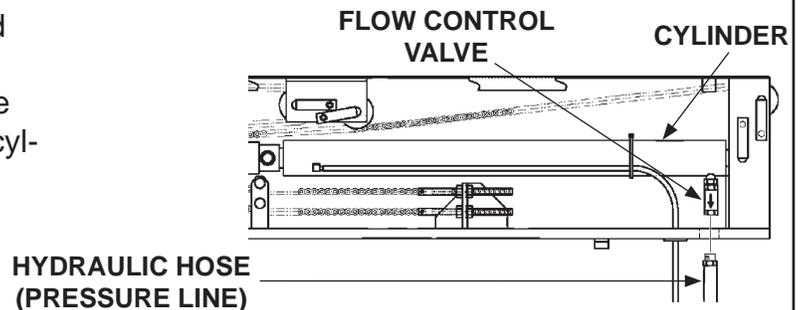
**NOTE:** Use correct grade of hydraulic fluid for your location.

**+50 to +120 Degrees F - Grade ISO 32**

**Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606**

See **TABLES 10-1 and 10-2** for recommended brands.

1. Open and lower platform to ground level. Remove cover from cylinder housing. Disconnect pressure hose from the flow control valve on the cylinder (**FIG. 11-1**).

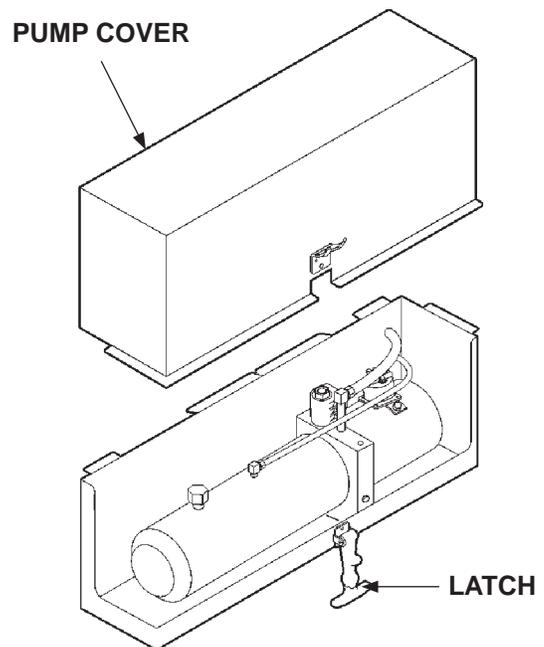


**CONNECTING / DISCONNECTING  
PRESSURE LINE  
FIG. 11-1**

2. Unfasten latch and remove the pump cover (**FIG. 11-2**).

**NOTE:** To prevent spills, drain used hydraulic fluid into an empty 5 gallon bucket. Hold hydraulic hose in container until fluid stops flowing. If needed, get a helper.

3. Place disconnected end of hydraulic hose in an empty 5 gallon bucket. Set control switch to **RAISE** position until the hydraulic system starts to make cavitating sounds. Release the control switch. When fluid stops flowing from hydraulic hose, reconnect hose to RAISE port on the cylinder (**FIG. 11-1**). Reinstall cover on cylinder housing (**FIG. 11-2**). Move 5 gallon bucket from work area and dispose fluid correctly.



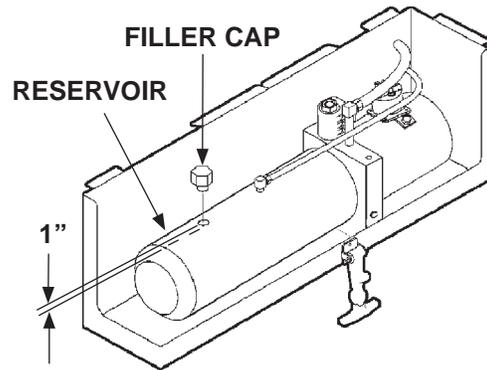
**REMOVING / REINSTALLING  
PUMP COVER  
FIG. 11-2**

# PERIODIC MAINTENANCE

## CHECKING HYDRAULIC FLUID - Continued

4. Remove threaded filler cap (**FIG. 12-1**).  
Fill the reservoir with correct hydraulic fluid to the level shown in **FIG. 12-1**.

5. Reinstall filler cap (**FIG. 12-1**).



**CHECKING FLUID LEVEL**  
**FIG. 12-1**

### CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. To secure pump cover, fasten the rubber latch on the pump box to the receiver on the pump box cover.

6. Reinstall the pump cover and fasten latch (**FIG. 11-2**).

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## CLEAN AND LUBRICATE COLUMNS

### CAUTION

Do not apply heavy grease to the Lift column.

1. Thoroughly **pressure wash (or steam clean)** inside surfaces of both Lift columns (**FIG. 13-1**) to remove oil, grease, and debris.

### CAUTION

Do not store can of lubricant on truck.

2. **Lubricate** inside each of the two Lift columns (**FIG. 13-1**) with **light machine oil, white grease, silicon spray, or teflon spray**.

3. Repeat washing procedure if there is any build up of solid lubricant. Reapply recommended lubricants as required.

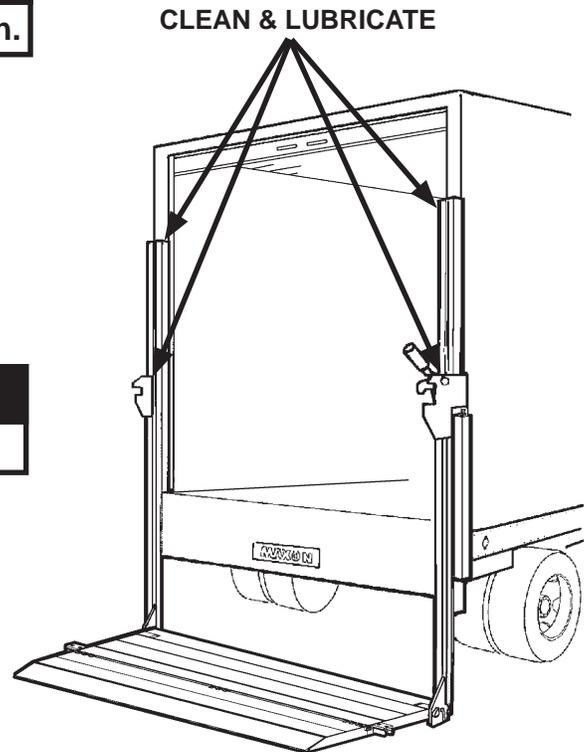


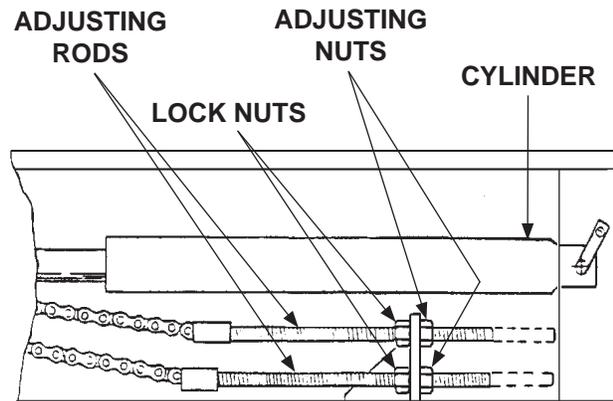
FIG. 13-1

# PERIODIC MAINTENANCE

## ADJUST DRIVE CHAINS

**NOTE:** Vehicle body must be empty (unloaded) before performing the following adjustment.

1. Adjust drive chains as follows.
2. Remove cover from cylinder housing. Loosen the lock nut on each chain adjusting rod (**FIG. 14-1**). Then, lower platform to ground level.
3. Turn each chain adjusting nut (**FIG. 14-1**) an equal amount of clockwise turns (alternate from chain to chain) until hydraulic cylinder is fully compressed. Then, tighten the lock nut (**FIG. 14-1**) on each chain.
4. If either of the 2 chain rods are too long, cut off the excess as shown in **FIG. 14-1**.



**ADJUSTING DRIVE CHAIN**  
**FIG. 14-1**

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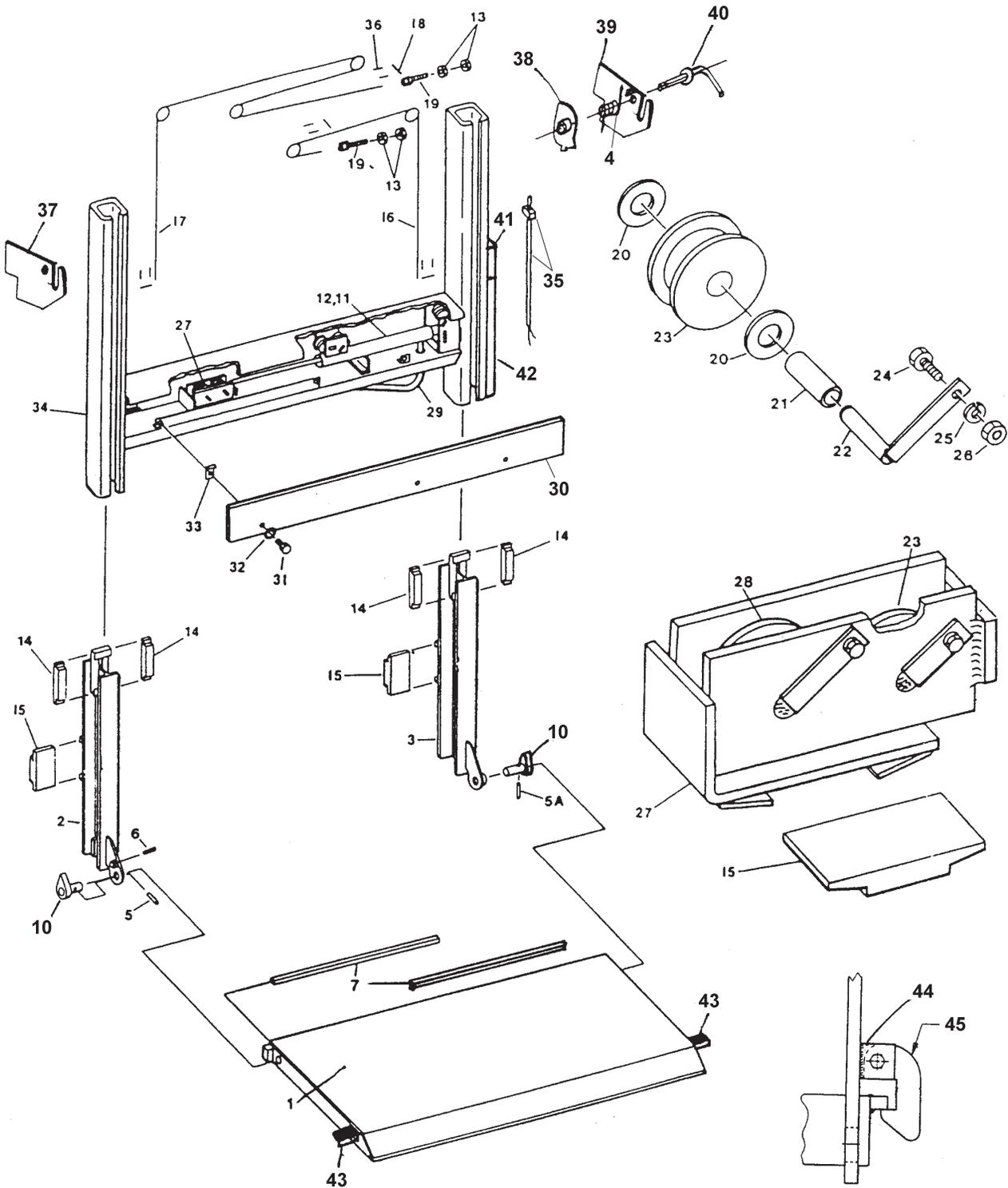
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# PARTS BREAKDOWN

## RCM-1250C

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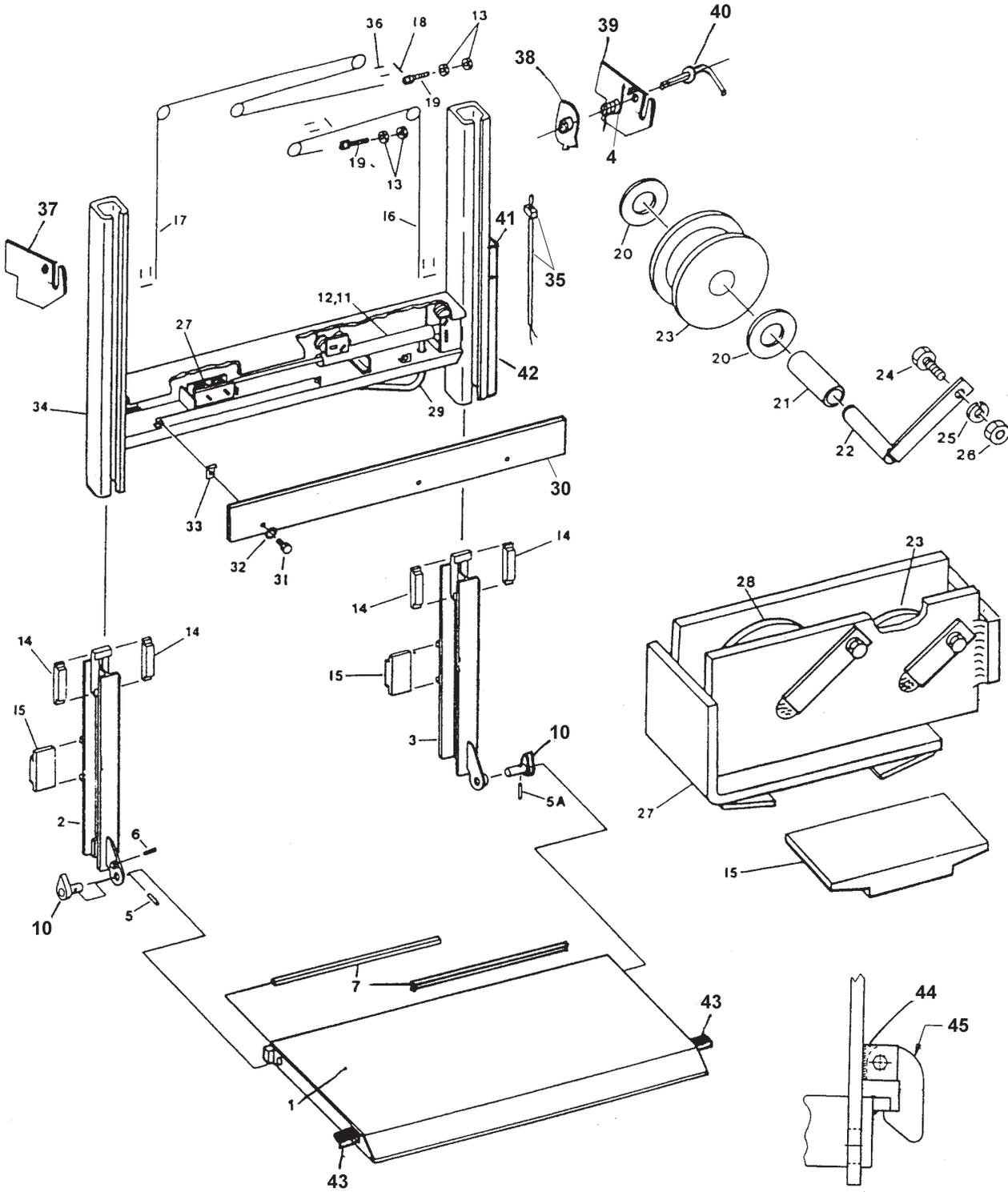
NO.	DESCRIPTION	PART NO.	QTY.
1	PLATFORM WELD'T (30 + 6) 96" BODY	252983-02	1
	(30 + 6) 90" BODY	252983-01	
	(30 + 6) 84" BODY	252983-03	2
2	RUNNER ASSEMBLY, L.H.	226852-03	1
3	RUNNER ASSEMBLY, R.H.	226852-04	1
4	SPRING	252460	1
5	ROLL PIN, 3/8" X 1-1/2" LONG	221497	1
5A	ROLL PIN, 3/8" X 2" LONG	221416	1
6	HEX SOCKET SET SCREW	224576	1
7	TORSION BAR	252999	2
8	NOT USED		
9	NOT USED		
10	HINGE PIN WELDMENT	224470	2
11	HYDRAULIC CYLINDER, 2" X 28" STROKE	226918	1
12	SEAL KIT, HYDRAULIC CYLINDER	225823	1
13	JAM NUT, 1/2-20	030327	4
14	PAD SLIDER	226772	4
15	PAD SLIDER	227350	3
16	LEAF CHAIN, R.H.	226917-01	1
17	LEAF CHAIN, L.H. 96" BODY	226917-02	1
	90" BODY	226917-03	
	84" BODY	226917-04	
18	PIN, LEAF CHAIN	226854-03	4
19	ADJUSTING SCREW	226931-01	2
20	BEARING, THRUST TYPE	224337	12
21	BEARING, PLAIN CYLINDRICAL TYPE	224338	6
22	SHAFT WELDMENT	223670	7
23	SHEAVE ASSEMBLY, 2" DIA.	223672-02	2
24	HEX BOLT, 1/4-20 X 3/4" LONG	030707	7
25	LOCKWASHER, 1/4" I.D.	030351	7

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# RCM-1250C - Continued

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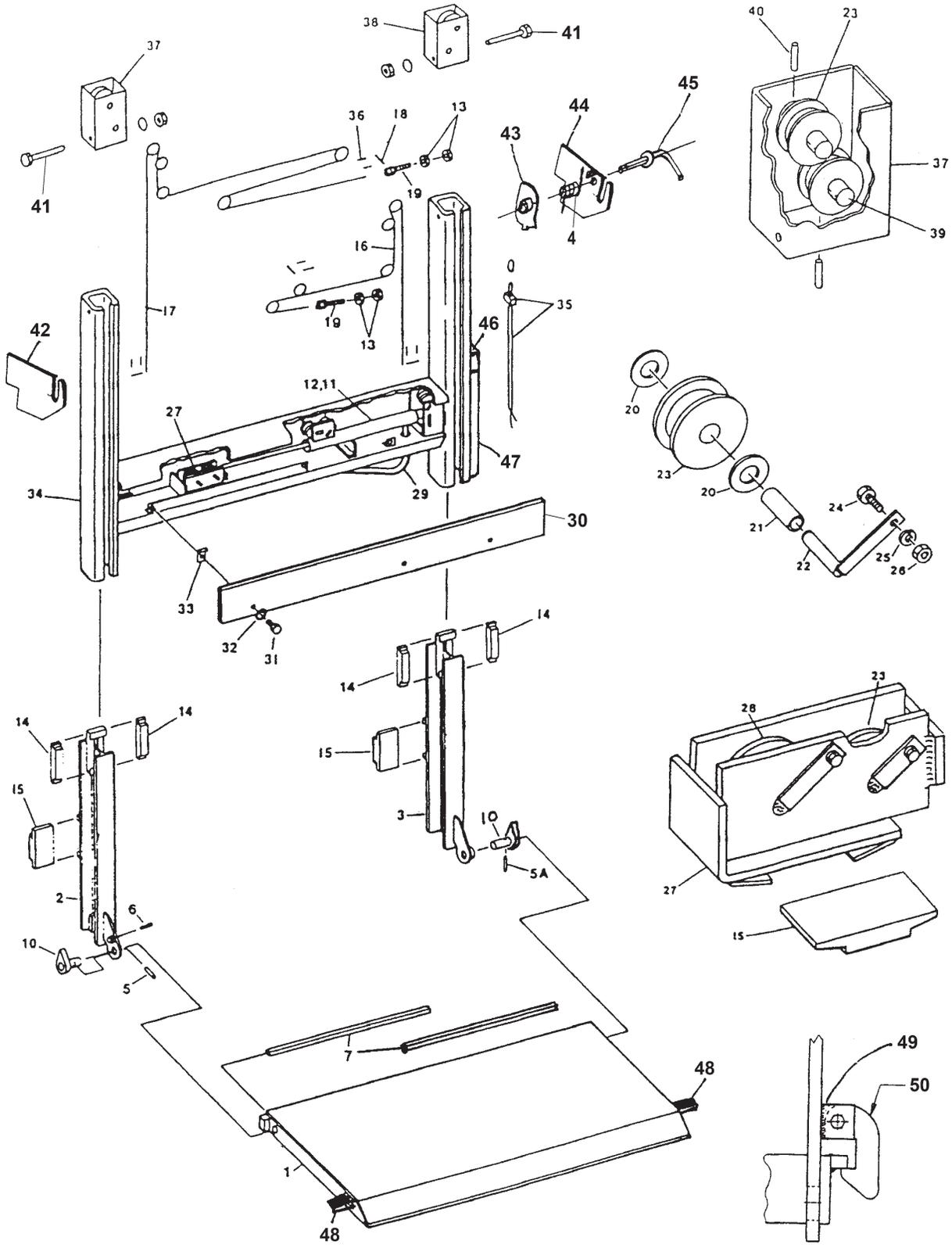
NO.	DESCRIPTION	PART NO.	QTY.
26	HEX NUT, 1/4-20	030306	7
27	DRIVE CARRIAGE WELDMENT	226849	1
28	SHEAVE ASSEMBLY, 3" DIA.	223672-01	2
29	HOSE, 1/4" X 48" LONG	800234-02	1
30	COVER, CYLINDER, 96" BODY	224508	1
	90" BODY	226847	
	84" BODY	226779	
31	HEX BOLT, 5/16-18 X 5/8" LONG	030014	3
32	LOCKWASHER, 5/16" I.D.	030554	3
33	NUT RETAINER	203877	3
34	STATIONARY COLUMN FRAME WELD'T, 96"	226832-01	1
	90"	226832-02	
	84"	226832-03	
35	ELECTRICAL HARNESS & SWITCH ASS'Y	224670	1
36	COTTER PIN, 1/16" DIA. X 1-1/2" LONG	226855	8
37	BRACKET, STOP, LH	252461	1
38	LOCKING BRACKET	252467	1
39	BRACKET, STOP, RH	252466	1
40	HANDLE	252473	1
41	BRACKET, SWITCH	251711	1
42	CHANNEL	251028	1
43	PLATFORM STOP	252464	2
44	BRACKET	250265	2
45	RETAINER	250266	1

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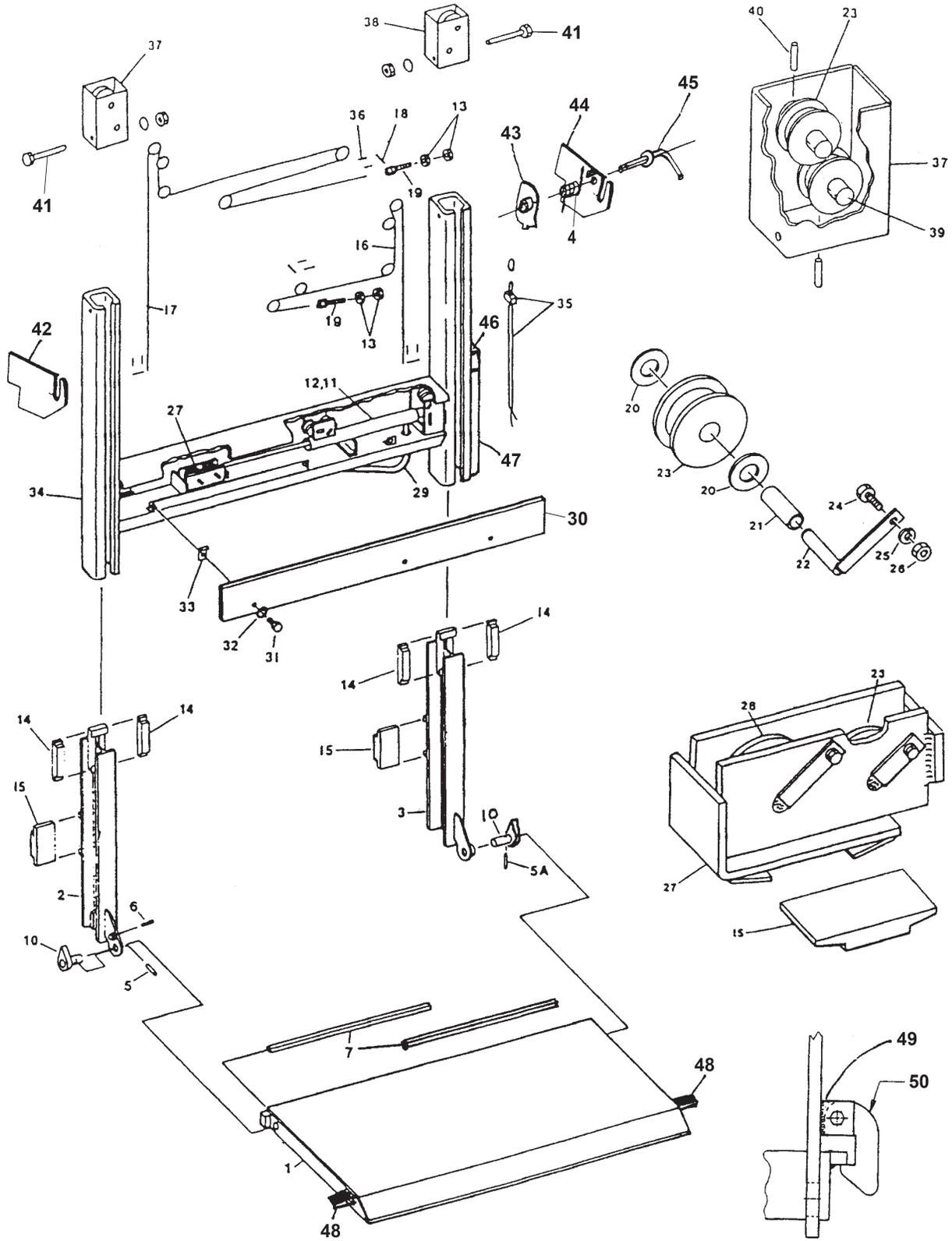


NO.	DESCRIPTION	PART NO.	QTY.
1	PLATFORM WELD'T (30 + 6) 96" BODY	252983-02	1
	(30 + 6) 90" BODY	252983-01	
	(30 + 6) 84" BODY	252983-03	
2	RUNNER ASSEMBLY, L.H.	226663-03	1
3	RUNNER ASSEMBLY, R.H.	226663-04	1
4	SPRING	252460	1
5	ROLL PIN, 3/8" X 1-1/2" LONG	221497	1
5A	ROLL PIN, 3/8" X 2" LONG	221416	1
6	HEX SOCKET SET SCREW	224576	1
7	TORSION BAR	252999	2
8	NOT USED		
9	NOT USED		
10	HINGE PIN WELDMENT	224470	2
11	HYDRAULIC CYLINDER, 2" X 28" STROKE	226918	1
12	SEAL KIT, HYDRAULIC CYLINDER	225823	1
13	JAM NUT, 1/2-20	030327	4
14	PAD SLIDER	226772	4
15	PAD SLIDER	227350	3
16	LEAF CHAIN, R.H.	226917-05	1
17	LEAF CHAIN, L.H. 96" BODY	226917-06	1
	90" BODY	226917-07	
	84" BODY	226917-08	
18	PIN, LEAF CHAIN	226854-03	4
19	ADJUSTING SCREW	226931-01	2
20	BEARING, THRUST TYPE	224337	12
21	BEARING, PLAIN CYLINDRICAL TYPE	224338	6
22	SHAFT WELDMENT	223670	7
23	SHEAVE ASSEMBLY, 2" DIA.	223672-02	6
24	HEX BOLT, 1/4-20 X 3/4" LONG	030707	7
25	LOCKWASHER, 1/4" I.D.	030351	9

# RCM-1250C AB - Continued

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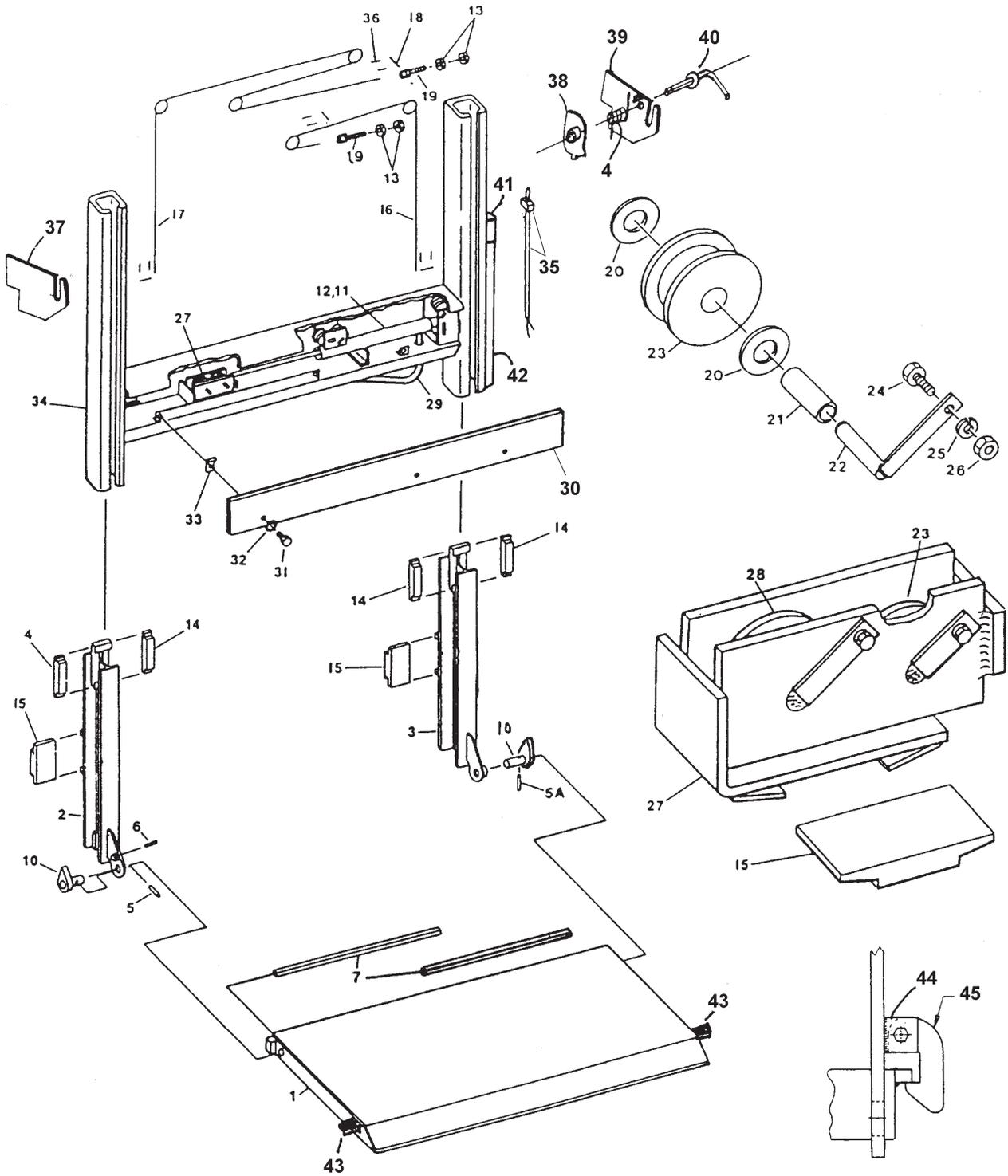


NO.	DESCRIPTION	PART NO.	QTY.
26	HEX NUT, 1/4-20	030306	9
27	DRIVE CARRIAGE WELDMENT	226849	1
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	90"	226831-02	
	84"	226831-03	
35	ELECTRICAL HARNESS & SWITCH ASS'Y	224670	1
36	COTTER PIN, 1/16" DIA. X 1-1/2" LONG	226855	8
37	UPPER PULLEY SUPPORT WELDMENT, L.H.	225033-01	1
38	UPPER PULLEY SUPPORT WELDMENT, R.H.	225033-02	1
39	UPPER PULLEY SHAFT	224479	4
40	ROLL PIN, 1/4" DIA. X 1-1/2" LONG	030410	4
41	HEX HEAD BOLT, 1/4-20UNC X 5" LONG	225028	2
42	BRACKET, STOP, LH	252461	1
43	LOCKING BRACKET	252467	1
44	BRACKET, STOP, RH	252466	1
45	HANDLE	252473	1
46	BRACKET, SWITCH	251711	1
47	CHANNEL	251028	1
48	PLATFORM STOP	252464	2
49	BRACKET	250265	2
50	RETAINER	250266	1

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# RCM-1600C

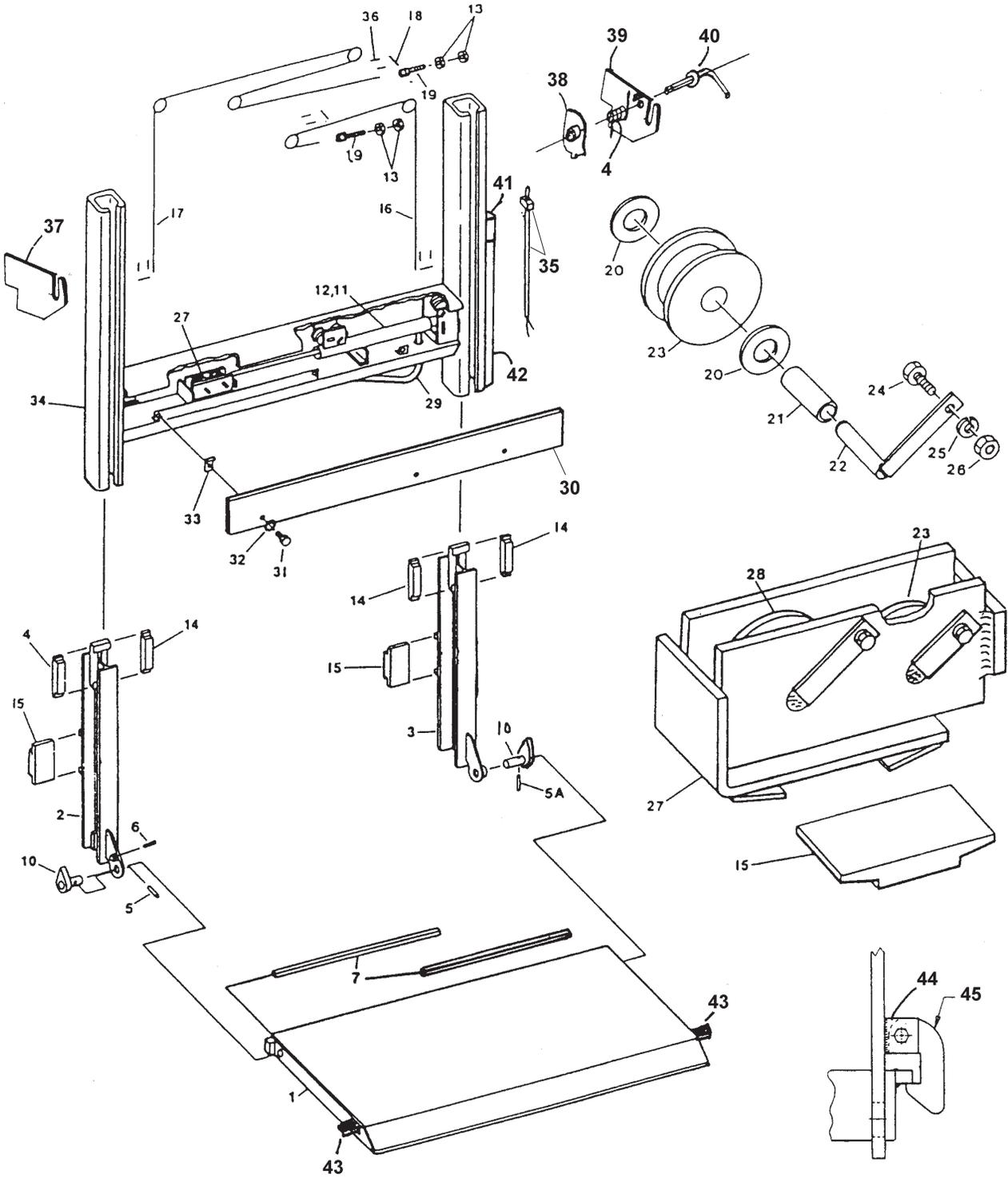


NO.	DESCRIPTION	PART NO.	QTY.
1	PLATFORM WELD'T (36 + 6) 96" BODY	252984-02	1
	(36 + 6) 90" BODY	252984-01	
	(36 + 6) 84" BODY	252984-03	
2	RUNNER ASSEMBLY, L.H.	226852-01	1
3	RUNNER ASSEMBLY, R.H.	226852-02	1
4	SPRING	252460	1
5	ROLL PIN, 3/8" X 1-1/2" LONG	221497	1
5A	ROLL PIN, 3/8" X 2" LONG	221416	1
6	HEX SOCKET SET SCREW	224576	1
7	TORSION BAR	252999	2
8	NOT USED		
9	NOT USED		
10	HINGE PIN WELDMENT	224470	2
11	HYDRAULIC CYLINDER, 2" X 28" STROKE	226918	1
12	SEAL KIT, HYDRAULIC CYLINDER	225823	1
13	JAM NUT, 1/2-20	030327	4
14	PAD SLIDER	226772	4
15	PAD SLIDER	227350	3
16	LEAF CHAIN, R.H.	226916-01	1
17	LEAF CHAIN, L.H. 96" BODY	226916-02	1
	90" BODY	226916-03	
	84" BODY	226916-04	
18	PIN, LEAF CHAIN	226854-03	4
19	ADJUSTING SCREW	226931-01	2
20	BEARING, THRUST TYPE	224337	12
21	BEARING, PLAIN CYLINDRICAL TYPE	224338	6
22	SHAFT WELDMENT	223670	7
23	SHEAVE ASSEMBLY, 2" DIA.	223672-02	2
24	HEX BOLT, 1/4-20 X 3/4" LONG	030707	7
25	LOCKWASHER, 1/4" I.D.	030351	7

# RCM-1600C - Continued

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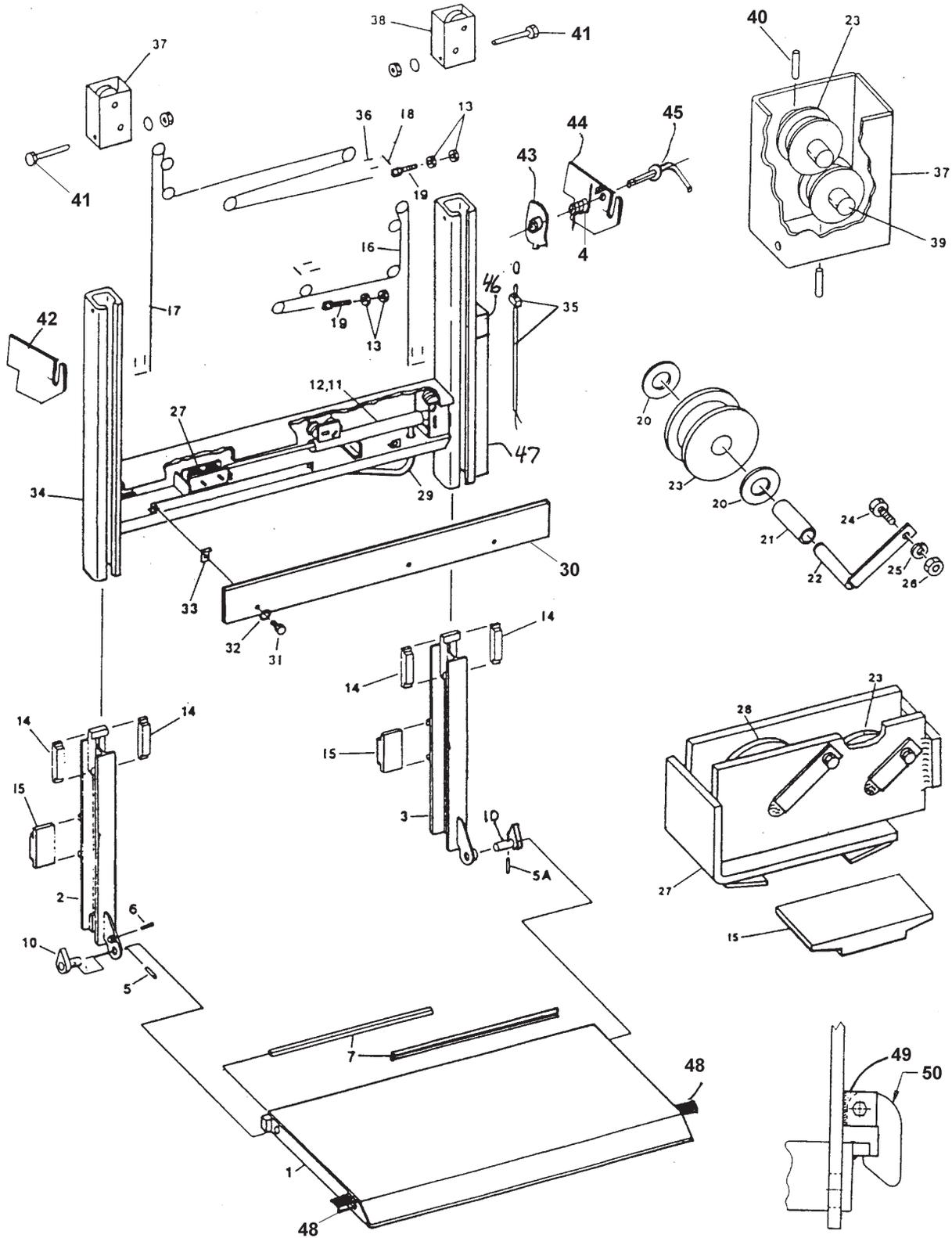


NO.	DESCRIPTION	PART NO.	QTY.
26	HEX NUT, 1/4-20	030306	7
27	DRIVE CARRIAGE WELDMENT	226849	1
28	SHEAVE ASSEMBLY, 3" DIA.	223672-01	2
29	HOSE, 1/4" X 48" LONG	800234-02	1
30	COVER, CYLINDER, 96" BODY	224508	1
	90" BODY	226847	
	84" BODY	226779	
31	HEX BOLT, 5/16-18 X 5/8" LONG	030014	3
32	LOCKWASHER, 5/16" I.D.	030554	3
33	NUT RETAINER	203877	3
34	STATIONARY COLUMN FRAME WELD'T, 96"	226832-01	1
	90"	226832-02	
	84"	226832-03	
35	ELECTRICAL HARNESS & SWITCH ASS'Y	224670	1
36	COTTER PIN, 1/16" DIA. X 1-1/2" LONG	226855	8
37	BRACKET, STOP, LH	252461	1
38	LOCKING BRACKET	252467	1
39	BRACKET, STOP, RH	252466	1
40	HANDLE	252473	1
41	BRACKET, SWITCH	251711	1
42	CHANNEL	251028	1
43	PLATFORM STOP	252464	2
44	BRACKET	250265	2
45	RETAINER	250266	1

# RCM-1600C AB

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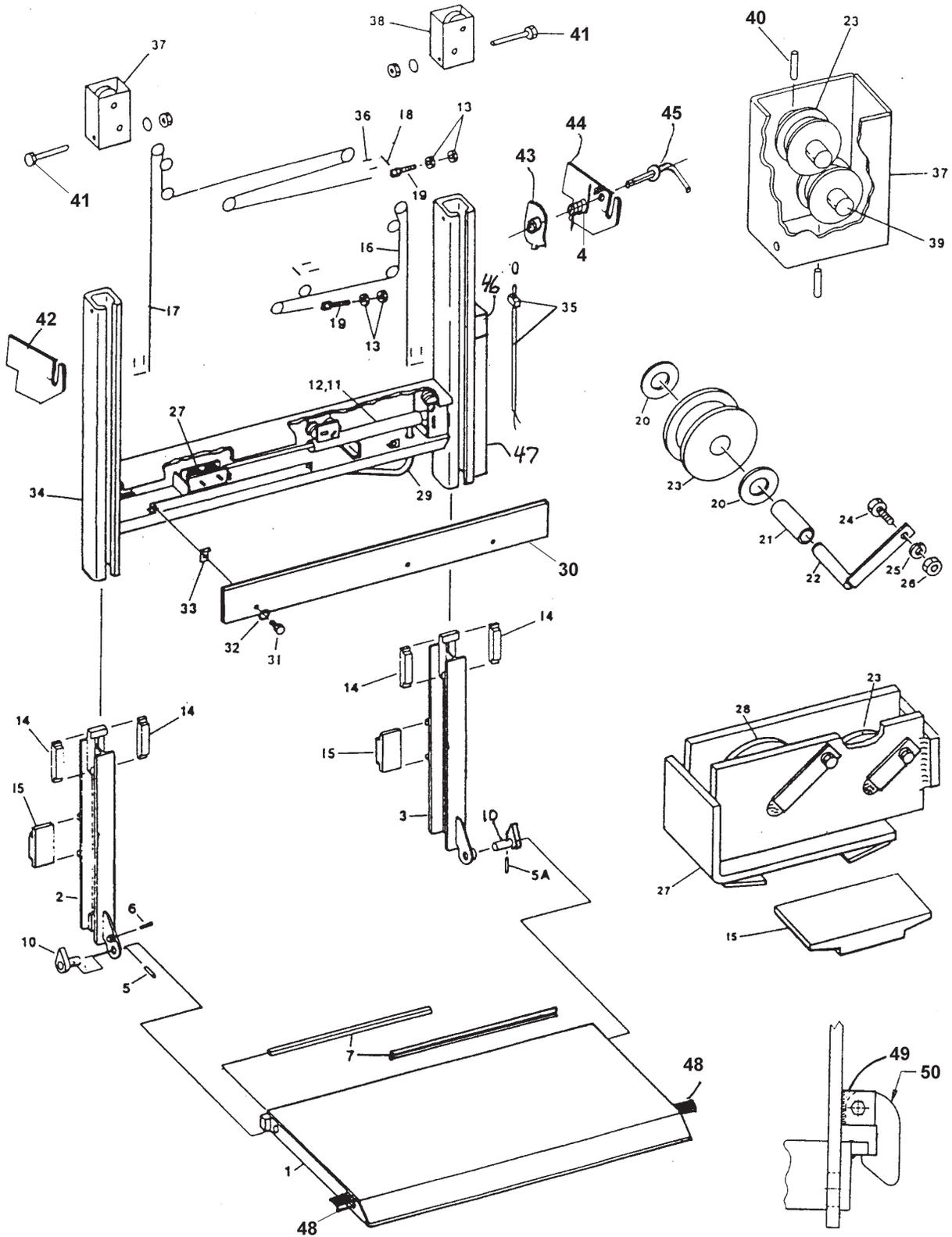


NO.	DESCRIPTION	PART NO.	QTY.
1	PLATFORM WELD'T (36 + 6) 96" BODY	252984-02	1
	(36 + 6) 90" BODY	252984-01	
	(36 + 6) 84" BODY	252984-03	
2	RUNNER ASSEMBLY, L.H.	226663-01	1
3	RUNNER ASSEMBLY, R.H.	226663-02	1
4	SPRING	252460	1
5	ROLL PIN, 3/8" X 1-1/2" LONG	221497	1
5A	ROLL PIN, 3/8" X 2" LONG	221416	1
6	HEX SOCKET SET SCREW	224576	1
7	TORSION BAR	252999	2
8	NOT USED		
9	NOT USED		
10	HINGE PIN WELDMENT	224470	2
11	HYDRAULIC CYLINDER, 2" X 28" STROKE	226918	1
12	SEAL KIT, HYDRAULIC CYLINDER	225823	1
13	JAM NUT, 1/2-20	030327	4
14	PAD SLIDER	226772	4
15	PAD SLIDER	227350	3
16	LEAF CHAIN, R.H.	226916-05	1
17	LEAF CHAIN, L.H. 96" BODY	226916-06	1
	90" BODY	226916-07	
	84" BODY	226916-08	
18	PIN, LEAF CHAIN	226854-03	4
19	ADJUSTING SCREW	226931-02	2
20	BEARING, THRUST TYPE	224337	12
21	BEARING, PLAIN CYLINDRICAL TYPE	224338	6
22	SHAFT WELDMENT	223670	7
23	SHEAVE ASSEMBLY, 2" DIA.	223672-02	6
24	HEX BOLT, 1/4-20 X 3/4" LONG	030707	7
25	LOCKWASHER, 1/4" I.D.	030351	9

# RCM-1600C AB - Continued

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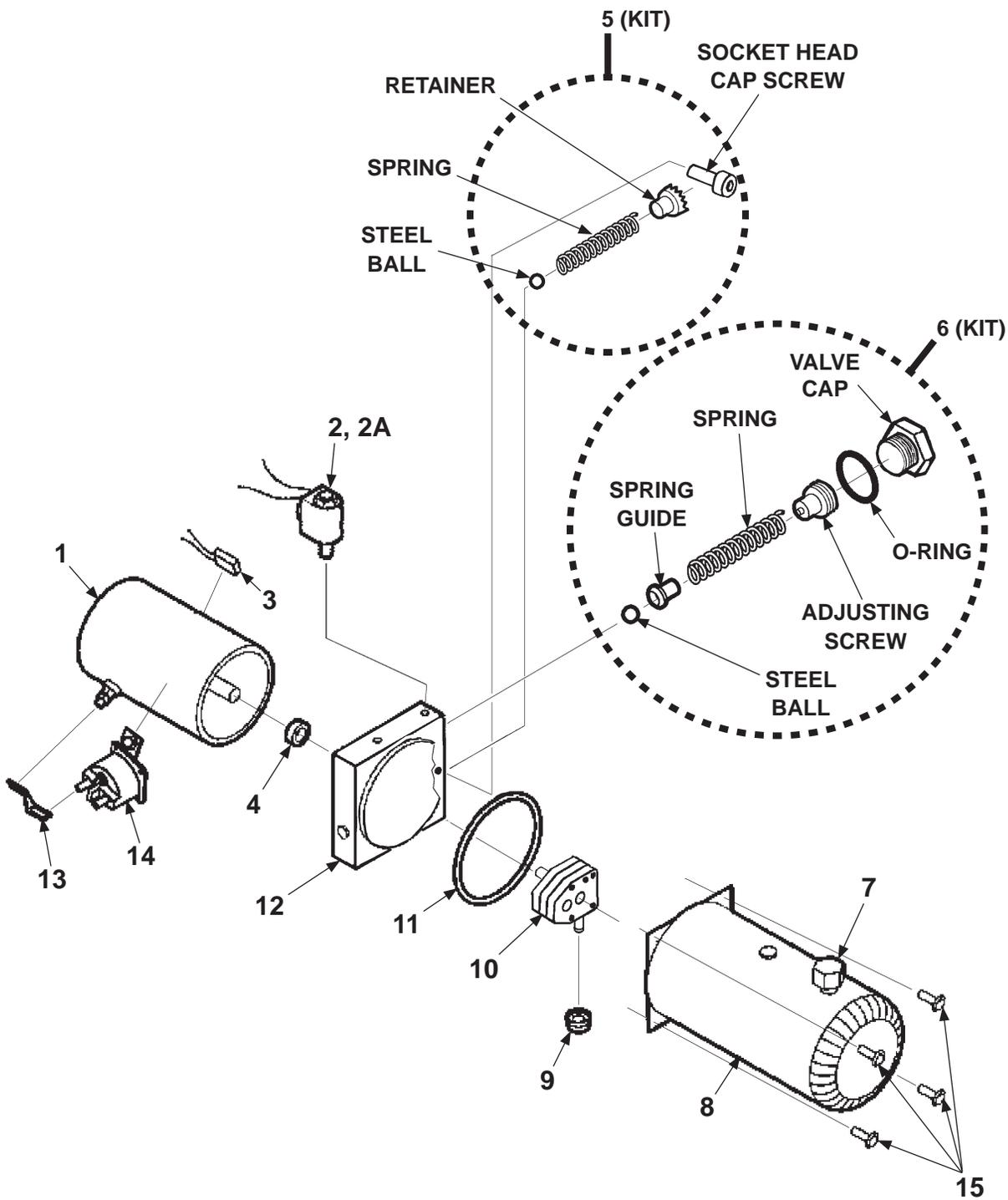
NO.	DESCRIPTION	PART NO.	QTY.
26	HEX NUT, 1/4-20	030306	9
27	DRIVE CARRIAGE WELDMENT	226849	1
28	SHEAVE ASSEMBLY, 3" DIA.	223672-01	2
29	HOSE, 1/4" X 48" LONG	800234-02	1
30	COVER, CYLINDER, 96" BODY	224508	1
	90" BODY	226847	
	84" BODY	226779	
31	HEX BOLT, 5/16-18 X 5/8" LONG	030014	3
32	LOCKWASHER, 5/16" I.D.	030554	3
33	NUT RETAINER	203877	3
34	STATIONARY COLUMN FRAME WELD'T, 96"	226831-01	1
	90"	226831-02	
	84"	226831-03	
35	ELECTRICAL HARNESS & SWITCH ASS'Y	224670	1
36	COTTER PIN, 1/16" DIA. X 1-1/2" LONG	226855	8
37	UPPER PULLEY SUPPORT WELDMENT, L.H.	225033-01	1
38	UPPER PULLEY SUPPORT WELDMENT, R.H.	225033-02	1
39	UPPER PULLEY SHAFT	224479	4
40	ROLL PIN, 1/4" DIA. X 1-1/2" LONG	030410	4
41	HEX HEAD BOLT, 1/4-20UNC X 5" LONG	225028	2
42	BRACKET, STOP, LH	252461	1
43	LOCKING BRACKET	252467	1
44	BRACKET, STOP, RH	252466	1
45	HANDLE	252473	1
46	BRACKET, SWITCH	251711	1
47	CHANNEL	251028	1
48	PLATFORM STOP	252464	2
49	BRACKET	250265	2
50	RETAINER	250266	1

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# PUMP ASSEMBLY (GRAVITY DOWN)

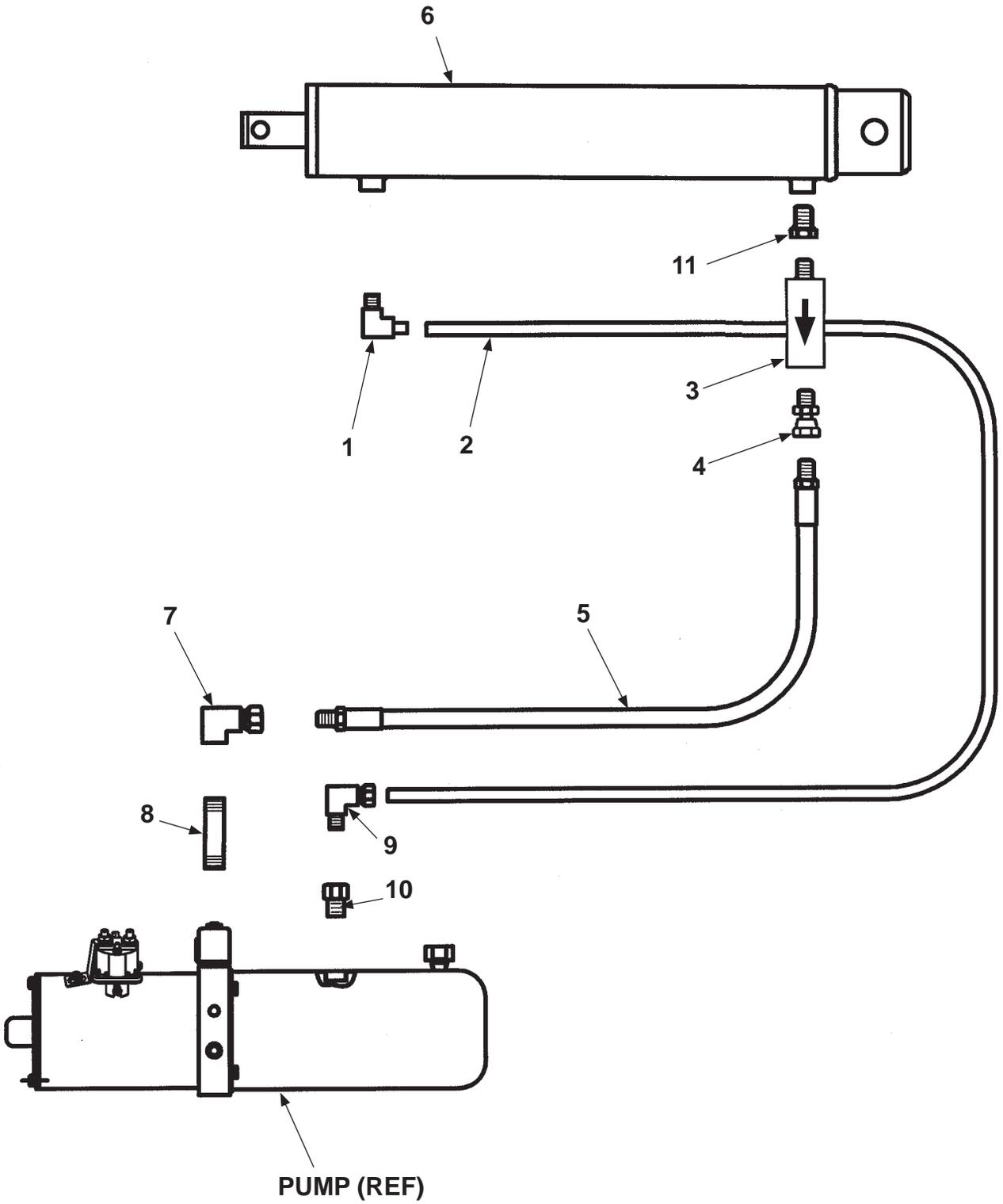
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ITEM	QTY.	PART NUMBER	DESCRIPTION
REF	1	250100	PUMP
1	1	229272	MOTOR, 12 VOLTS DC
2	1	253353	VALVE, SOLENOID 2-WAY
2A	1	226594	O-RING KIT, 2-WAY VALVE (NOT SHOWN)
3	1	REF	THERMAL SWITCH
4	1	260261	OIL SEAL
5	1	251885	CHECK VALVE KIT
6	1	260229	RELIEF VALVE KIT
7	1	229193	FILLER/BREATHER CAP
8	1	251882	RESERVOIR, 3 QT.
9	1	260250	INLET FILTER
10	1	251881	PUMP ASSEMBLY (CAST IRON)
		290001	PUMP ASSEMBLY (3-PIECE)
11	1	251884	O-RING
12	1	260236	DRIVE PLATE ASSEMBLY, 5"
13	1	262966	BUS BAR
14	1	262939	STARTER SOLENOID
15	4	229202	CAP SCREW, HEX WASHER HEAD

# HYDRAULIC COMPONENTS



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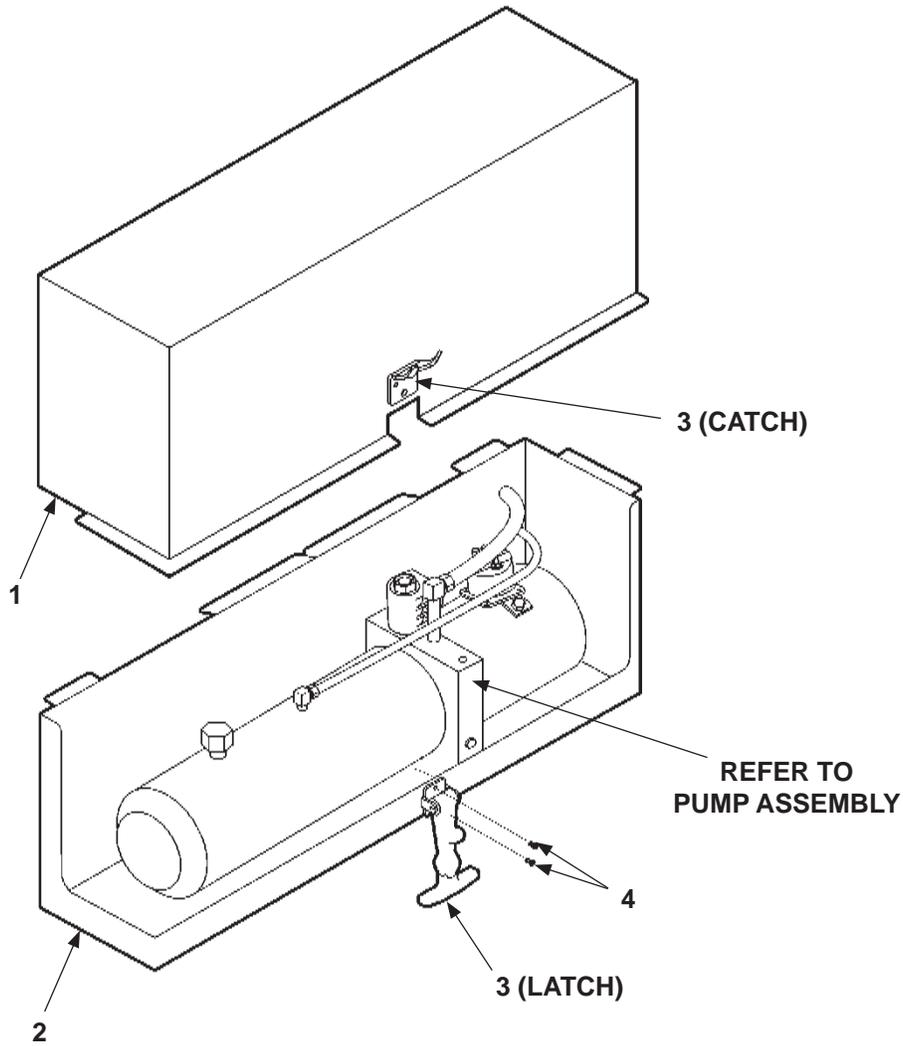
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ITEM	QTY.	PART NO.	DESCRIPTION
1	1	202141	ELBOW BRASS, 1/4" X 1/8"
2	1	224370-11	PLASTIC HOSE, 87" LG.
3	1	251739	VALVE, FLOW CONTROL 2 GPM
4	1	228151	STRAIGHT SWIVEL 3/8-18 F-M
5	1	226948-18	HOSE, 3/8" X 47-1/2" LG.
6	1	252002	CYLINDER, 2" DIA. X 28" STROKE
7	1	228950	ELBOW, 3/8F-3/8F
8	1	030304	NIPPLE PIPE, 3/8" X 2-1/2"
9	1	202406	ELBOW BRASS, 1/4" X 1/4"
10	1	800183	BUSHING, 3/8" X 1/4"
11	1	906714-01	ADAPTER, 3/8"F

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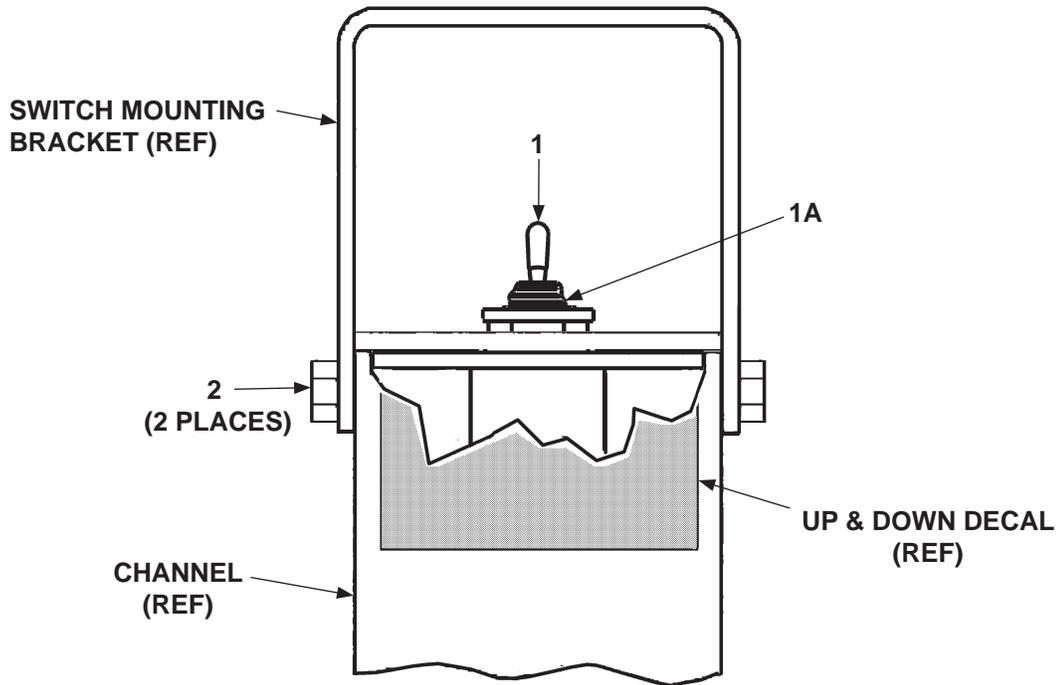
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## PUMP BOX ASSEMBLY



ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	251741	PUMP BOX ASSEMBLY
1	1	260108	PUMP BOX COVER
2	1	260109	PUMP BOX
3	1	215139	CATCH AND FASTENER (WITH LATCH)
4	2	207645	POP RIVETS, 3/16" X 5/8" LG.

## CONTROL SWITCH

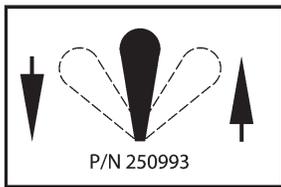


ITEM	QTY.	PART NO.	DESCRIPTION
1	1	250916	ELECTRICAL HARNESS & SWITCH ASSEMBLY
1A	1	905206	SWITCH SEAL BOOT
2	2	030458	SCREW, TAPPING, #10 X 1/2" LG.

# DECALS

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P/N 250993

**CONTROL SWITCH DECAL**  
P/N 250993

**OPERATING INSTRUCTIONS**

UNLOCK AND UNFOLD PLATFORM

**1**

UNFOLD FLIPOVER IF EQUIPPED.

**2**

RAISE / LOWER

**3**

TO STOW UNIT AWAY, RELEASE PLATFORM HOOK AND REVERSE STEPS 1 & 2.

**4**

DECAL, P/N 252899

**INSTRUCTION DECAL**  
P/N 252899

**THE MAXIMUM CAPACITY OF THIS LIFT IS**

**1600 LBS.**

**WHEN THE LOAD IS CENTERED ON PLATFORM**

**CAPACITY DECAL (RCM-1600 ONLY)**  
P/N 224751

**THE MAXIMUM CAPACITY OF THIS LIFT IS**

**1250 LBS.**

**WHEN THE LOAD IS CENTERED ON PLATFORM**

**CAPACITY DECAL (RCM-1250 ONLY)**  
P/N 226006

**⚠ WARNING**

**READ THIS INFORMATION CAREFULLY**

- Improper operation of this Liftgate can result in serious personal injury. Do not operate unless you have been properly instructed and have read, and are familiar with the operating instructions. If you do not have a copy of the instructions, please obtain them from your employer, distributor, or lessor before you attempt to operate Liftgate.
- Be certain that the vehicle is properly and securely braked before using the Liftgate.
- Always inspect this Liftgate for maintenance or damage before using it. If there are signs of improper maintenance, damage to vital parts, or slippery Platform surface, do not use the Liftgate until these problems have been corrected.
- Do not overload the Liftgate. The load limit is based on evenly distributed cargo over the entire Platform surface. If you are using a pallet jack, be sure it can be maneuvered safely. Do not operate a forklift on the Platform or travel with the platform in an open position at any time.
- Load should be placed in a stable position close to the edge of the Platform nearest the truck. The heaviest portion of the load should never be placed beyond the center of the Platform away from the truck.
- Never allow yourself, a helper, or bystander to stand in a position where a falling load could land on either of you. Also do not allow any part of yours or your helper's body to be placed under, within, or around any portion of the moving Liftgate, or its mechanisms, or in a position that would trap them between the platform and the ground or truck when the Liftgate is operated.
- If a helper is riding the Platform with you, make sure you are both doing so safely and that you are not in danger of coming in contact with any moving or potentially moving obstacles. USE GOOD COMMON SENSE. If load appears to be unsafe, do not lift or lower it.

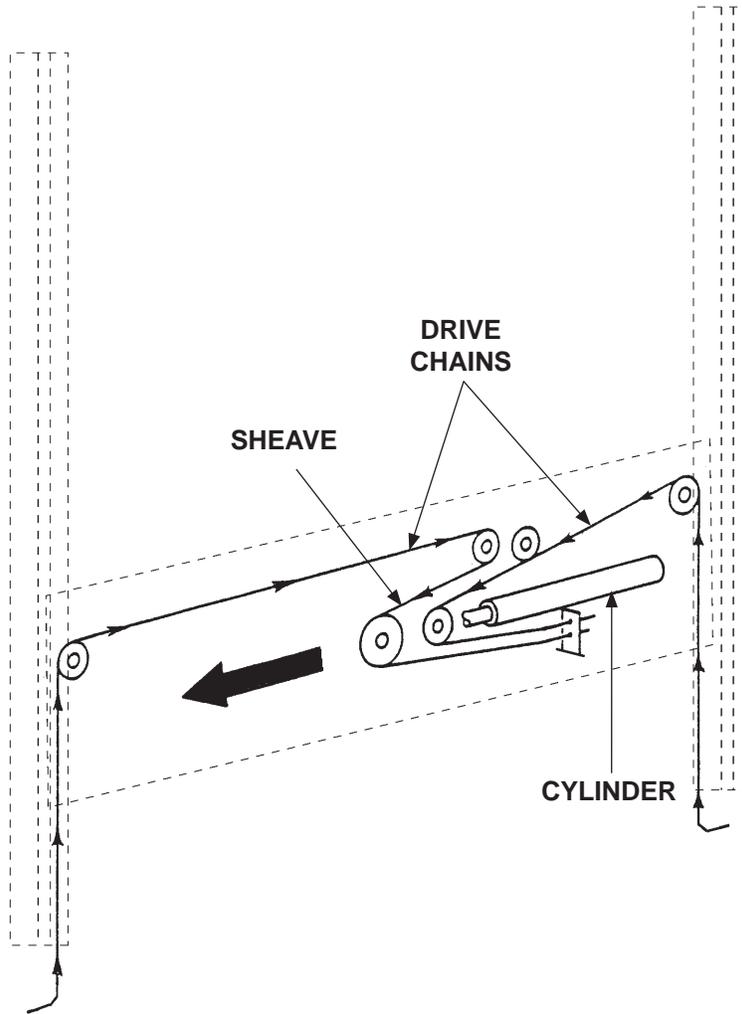
For a free copy of other manuals that pertain to this model Liftgate, please visit our website at [www.maxonlift.com](http://www.maxonlift.com) or call Customer Service at (800) 227- 4116.

MAXON LIFT CORP. PART NO. 264081

**WARNING DECAL**  
P/N 264081

# DRIVE CHAIN SYSTEM DIAGRAM

If the drive chains or related parts are removed, route the chains as shown in **FIG. 39-1**. Refer to the **PARTS BREAKDOWN** section for the correct parts. The illustration also shows the motion of the hydraulic cylinder, sheaves (pulleys), and drive chains while the platform is being raised.



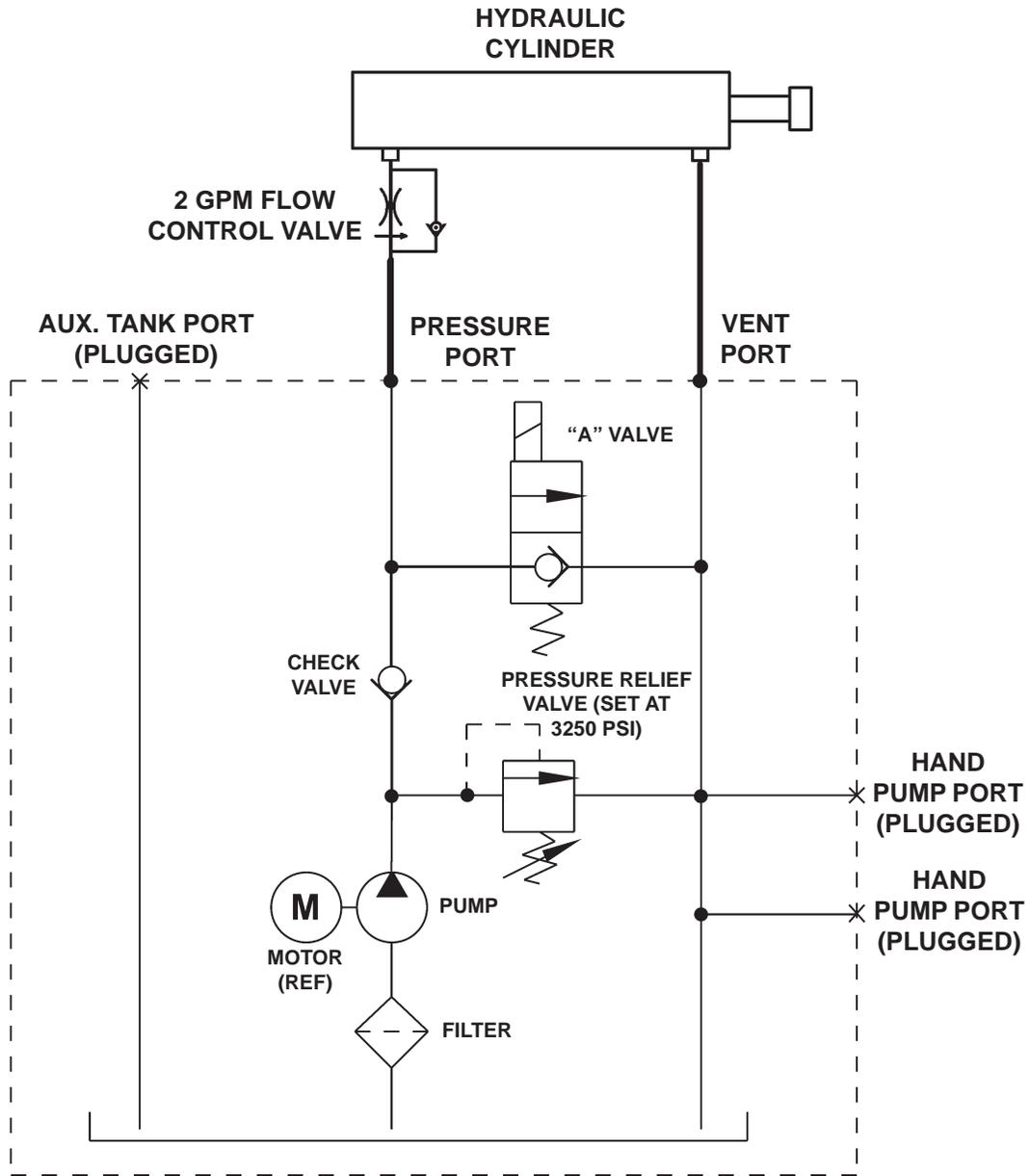
**DRIVE CHAIN ROUTING & MOTION  
FOR RAISING PLATFORM**

**FIG. 39-1**

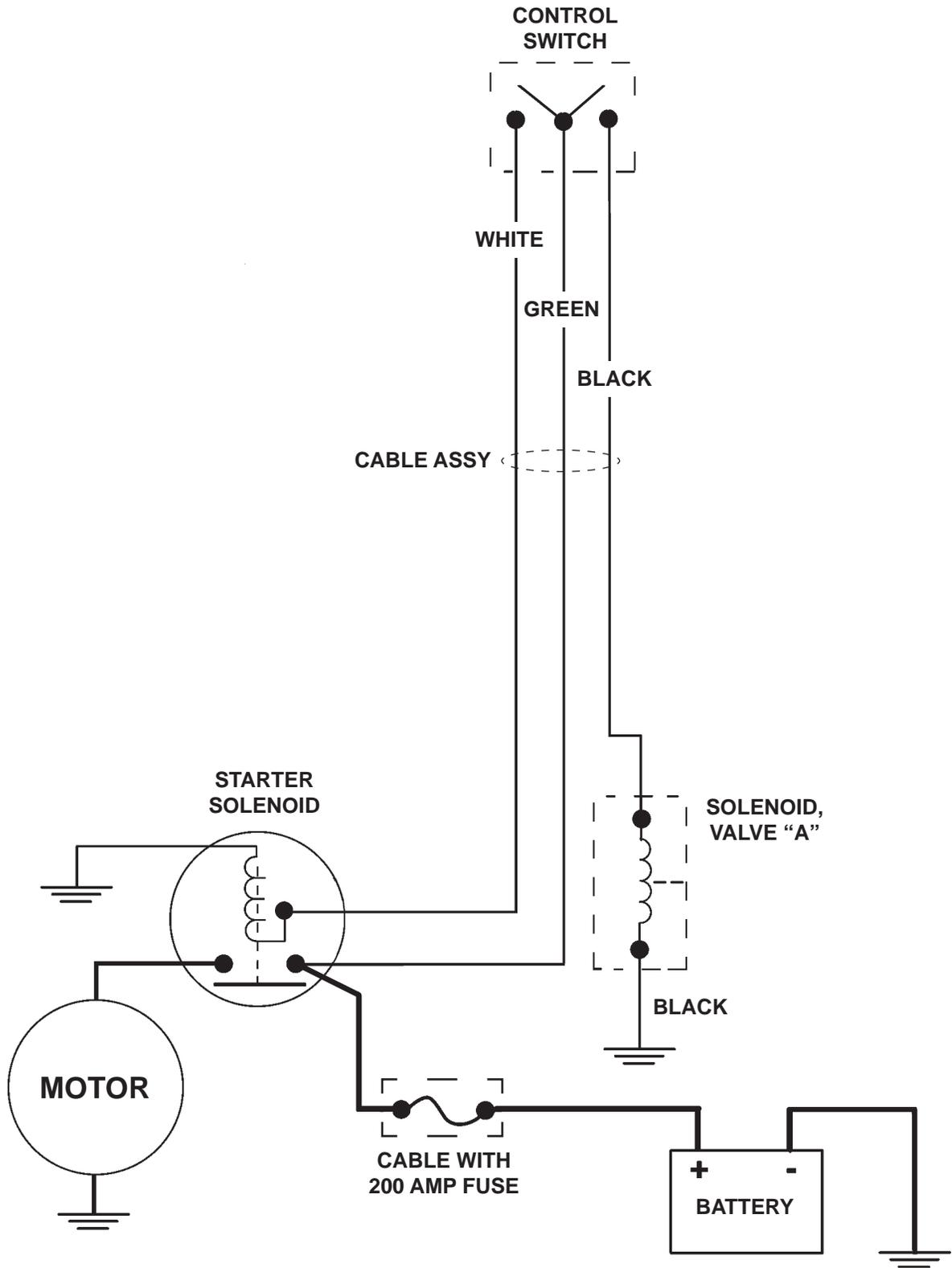
# HYDRAULIC SYSTEM DIAGRAM

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# ELECTRICAL SYSTEM DIAGRAM



## TROUBLESHOOTING

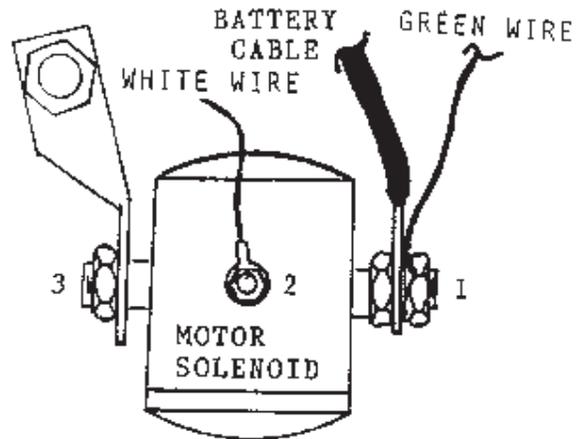
### PLATFORM WILL NOT RAISE, MOTOR WILL NOT RUN

1. CHECK BATTERY VOLTAGE AT TERMINAL #1. IF VOLTAGE IS LESS THAN 12 VOLTS RECHARGE BATTERY.
2. TOUCH A JUMPER WIRE ON TERMINALS #1 AND #2. IF MOTOR RUNS CHECK SWITCH, SWITCH CONNECTIONS AND WHITE WIRE. CORRECT CONNECTIONS OR REPLACE SWITCH.

3. TOUCH HEAVY JUMPER CABLE TO TERMINALS #1 AND #3.

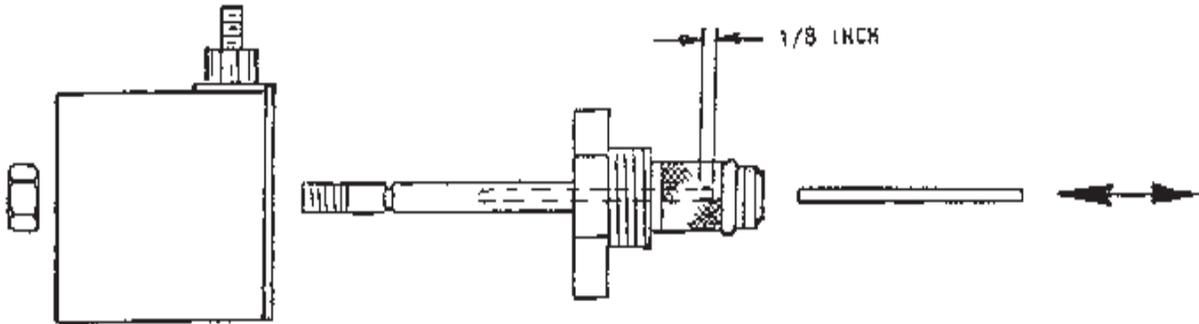
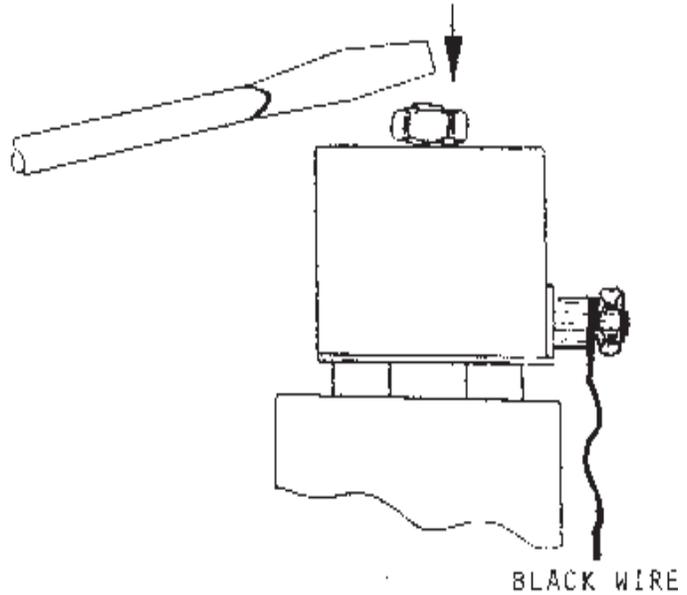
IF MOTOR RUNS, REPLACE MOTOR SOLENOID.

IF MOTOR DOES NOT RUN REPAIR OR REPLACE MOTOR.



## PLATFORM WILL NOT LOWER

4. AT "DOWN" VALVE ON TOP OF PUMP, CHECK IF COIL HAS 12 VOLTS WHEN "DOWN" SWITCH IS ACTIVATED. IF VOLTAGE IS LOW, RECHARGE BATTERY. IF NO VOLTAGE IS AT COIL, CHECK CONNECTIONS ON BLACK WIRE AND SWITCH. IF SWITCH IS DEFECTIVE, REPLACE SWITCH. CHECK BATTERY, RECHARGE OR REPLACE.
5. TO CHECK "DOWN" VALVE COIL, HOLD SCREW DRIVER 1/8 INCH FROM NUT AT END OF COIL. ACTIVATE SWITCH, IF SCREW DRIVER IS DRAWN TO NUT COIL IS GOOD -- IF NOT, COIL MUST BE REPLACED.
6. THE SMALL PLUNGER INSIDE THE VALVE MAY BE STUCK. REMOVE COIL AND "DOWN" VALVE, INSERT A SMALL ROD INSIDE THE VALVE. PLUNGER SHOULD MOVE 1/8 INCH. IF PLUNGER IS STUCK, WASH IN SOLVENT. IF PLUNGER REMAINS STUCK, REPLACE VALVE.

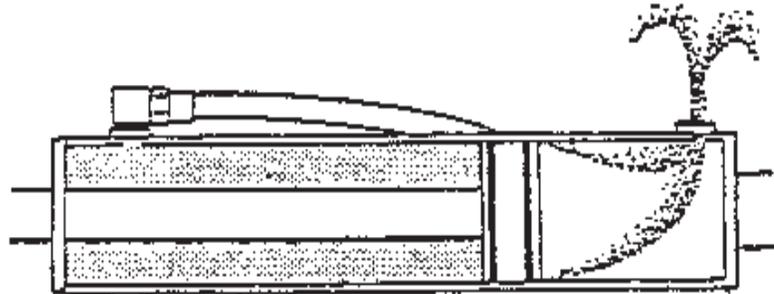


# TROUBLESHOOTING

## PLATFORM RAISES, BUT LEAKS DOWN

7. CHECK "DOWN" VALVE AS NOTED IN PARAGRAPH 6.
8. CHECK HYDRAULIC CYLINDER.

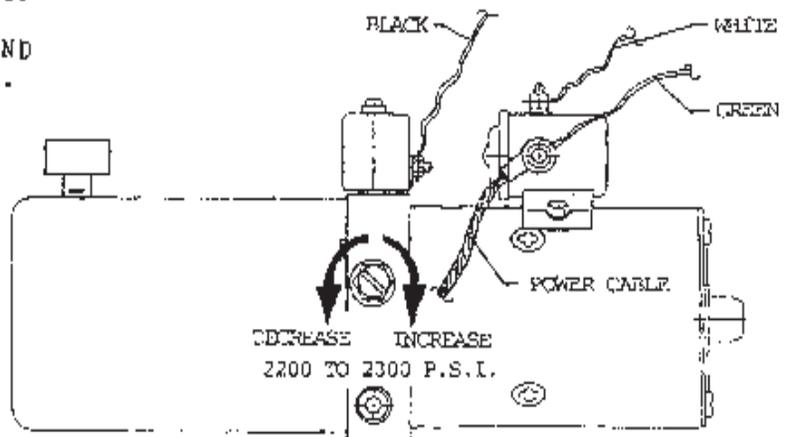
WITH PLATFORM ON GROUND, REMOVE BREATHER PLUG FROM BUTT END OF CYLINDER. OPERATE CONTROL SWITCH TO RAISE PLATFORM. AS PLATFORM RAISES, IF OIL SPRAYS OR SPURTS FROM CYLINDER PORT. THIS INDICATES PISTON SEALS ARE WORN.



SEAL KITS ARE AVAILABLE. SEE BREAKDOWN DRAWING.

## PLATFORM RAISES, BUT WILL NOT LIFT RATED CAPACITY

9. ADJUST RELIEF VALVE ON TOP OF PUMP. WITH PLATFORM ON GROUND, REMOVE HOSE AND INSTALL A PRESSURE GAUGE. ACTIVATE "UP" SWITCH AND TURN RELIEF VALVE CAP CLOCKWISE UNTIL GAUGE SHOWS 2200 PSI PRESSURE.
10. CHECK HYDRAULIC CYLINDER PER PARAGRAPH 8.
11. IF PUMP CAN NOT PRODUCE 2200 PSI AND A MINIMUM OF 12 VOLTS ARE AVAILABLE, PUMP IS WORN AND REQUIRES REPLACEMENTS.



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