

# WL7-vers. B

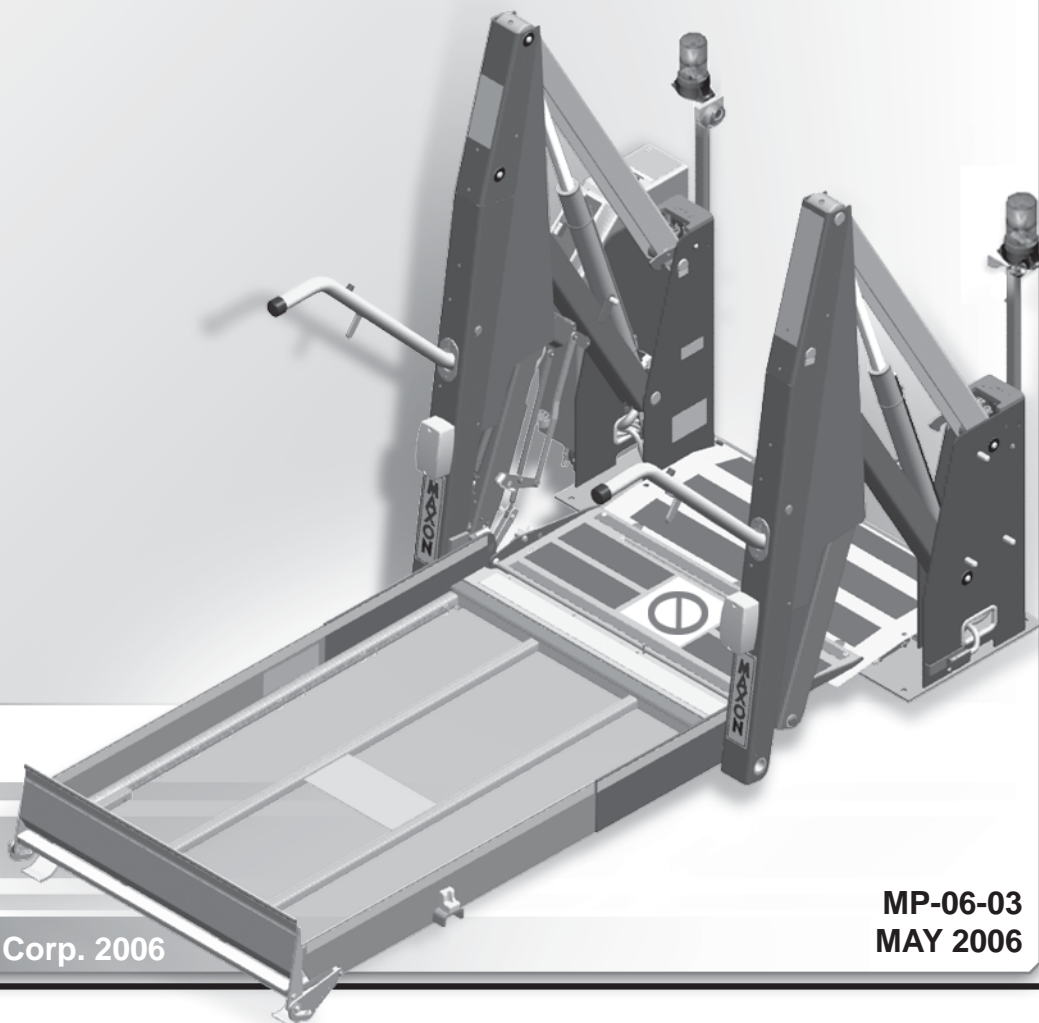
**MAXON**<sup>®</sup>  
**MOBILITY**<sup>™</sup>

## MAINTENANCE MANUAL FOR

### WHEELCHAIR LIFT MODEL NO. WL7-vers. B

DOT-Public Use Lift

PATENTS PENDING





# 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

### LIFT WARRANTY

Type of Warranty: Full Parts and Labor

Term of Warranty: 6 years from ship date or 6,000 lifts

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 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 6 years of service, or 6,000 cycles whichever occurs first, and will reimburse for labor based on MAXON's Mobility Warranty Flat Rate Schedule.

All warranty repairs must be performed by an authorized MAXON Mobility 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. Wheelchair Lift Model Number and Serial Number
2. Number of "LIFTS" displayed on the Lift Controller
3. End User information, name and phone number
4. Detailed Description of Problem
5. Corrective Action Taken, and Date of Repair
6. Parts used for Repair, Including MAXON Part Number(s)
7. MAXON R.M.A. # and/or Authorization # if applicable (see below)
8. Person contacted at MAXON, if applicable
9. Claim must show detailed information i.e. Labor rate and hours of work performed

Warranty claims can also be placed on-line at [www.maxonlift.com](http://www.maxonlift.com). On-line 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 and are subject to a credit deduction to cover handling charges and any necessary reconditioning costs. **Unauthorized returns will be refused and 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.

Defective Parts requested for return must be returned within 30 days of the claim date for consideration to:

MAXON Lift Corp.  
16205 Distribution Way, Cerritos, CA 90703  
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, is also not covered.

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

All Lifts returned are subject to inspection and a 15% restocking fee. Any returned Lifts 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 Lift or component to new condition.

### PURCHASE PART WARRANTY

Term of Warranty: 1 Year from Date of Purchase.

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

MAXON

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.

# TABLE OF CONTENTS

<b>SAFETY SUMMARY .....</b>	<b>6</b>
LIFT COMPONENTS & TERMINOLOGY.....	8
<b>MAINTENANCE SCHEDULE .....</b>	<b>10</b>
CHECKING HYDRAULIC FLUID LEVEL .....	11
CHANGING HYDRAULIC FLUID .....	12
<b>ADJUSTMENTS.....</b>	<b>14</b>
MAT SWITCH ADJUSTMENT .....	14
PLATFORM TILT ADJUSTMENT .....	16
STOW SWITCH ADJUSTMENT.....	18
FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS .....	21
FOLD SWITCH “BALLPARK” ADJUSTMENT .....	21
LOWERING SWITCH “BALLPARK” ADJUSTMENT .....	25
FOLD SWITCH FINE ADJUSTMENT .....	28
LOWERING SWITCH FINE ADJUSTMENT .....	31
INBOARD SWITCH ADJUSTMENT .....	34
<b>PARTS BREAKDOWN .....</b>	<b>35</b>
MAIN ASSEMBLY-1.....	35
MAIN ASSEMBLY-2.....	36
LH PLATFORM CLOSER.....	40
PLATFORM CLOSER ARM.....	42
INROLL SUPPORT BRACKET .....	44

**PATENTS PENDING**

MAIN ASSEMBLY-3.....	46
MAIN ASSEMBLY-4.....	50
PLATFORM ASSEMBLY .....	52
INROLL RAMP (INBOARD ROLLSTOP) .....	56
HYDRAULIC COMPONENTS .....	58
12 VDC POWER UNIT .....	60
ELECTRICAL COMPONENTS .....	62
DECALS AND DECAL PLACEMENT .....	66
ANTI-SLIP & SAFETY STRIPING .....	69
<b>TROUBLESHOOTING.....</b>	<b>72</b>
CONTROLLER DISPLAY READINGS .....	72
DIAGNOSTIC MODE .....	78
OVERLOAD ERRORS .....	84
<b>SYSTEM DIAGRAMS.....</b>	<b>85</b>
HYDRAULIC SYSTEM DIAGRAM .....	85
ELECTRICAL SYSTEM DIAGRAM.....	86

# SAFETY SUMMARY

Comply with the following **WARNINGS** and safety precautions while maintaining the Wheel-chair Lift. See Operator's Manual for operating safety requirements.



## WARNING

1. Read and understand the instructions in this **Maintenance Manual** before performing maintenance on the Lift.
2. Before operating the Lift, read and understand the operating instructions contained in the **Operator's Manual**.
3. Comply with all **WARNING** and instruction decals attached to the Lift.
4. Consider the safety and location of bystanders and location of nearby objects when operating the Lift. Stand to one side of platform while operating the Lift.
5. Do not allow untrained persons to operate the Lift.
6. Do not stand under, or allow obstructions under the Platform when lowering the Lift. **Be sure your feet are clear of the Lift.**
7. **Keep fingers, hands, arms, legs, and feet clear of moving Lift parts (and platform edges) when operating this unit.**
8. **Disconnect vehicle battery power** when repairing or servicing Lift.
9. Wear appropriate safety equipment, such as protective eyeglasses, faceshield and clothing while performing maintenance on the Lift and handling the vehicle battery. Debris from cutting and drilling, and contact with battery acid, may injure eyes and exposed skin.
10. Be careful working by a vehicle 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.
11. If an emergency situation arises (vehicle or Lift) while operating the Lift, release the hand control switch and the Lift will stop.
12. A correctly installed Lift operates smoothly and reasonably quiet. The only noticeable noise, during Lift operation, is from the Pump Unit while the Platform is raised and folded. Listen for scraping, grating and binding noises and correct the problem before continuing to operate the Lift.
13. Keep decals clean and legible. If decals are defaced or missing, replace them. **Free re-placement decals** are available from **Maxon Customer Service**.
14. Use only **Maxon Authorized Parts** for replacement parts. Order replacement parts from:

**MAXON LIFT CORP. - Customer Service**

**11921 Slauson Ave., Santa Fe Springs, CA 90670**

**Phone: (800) 227-4116**

**Email: [partssales@maxonlift.com](mailto:partssales@maxonlift.com)**

Provide the Lift model and serial number information with your order.

**MAXON®**

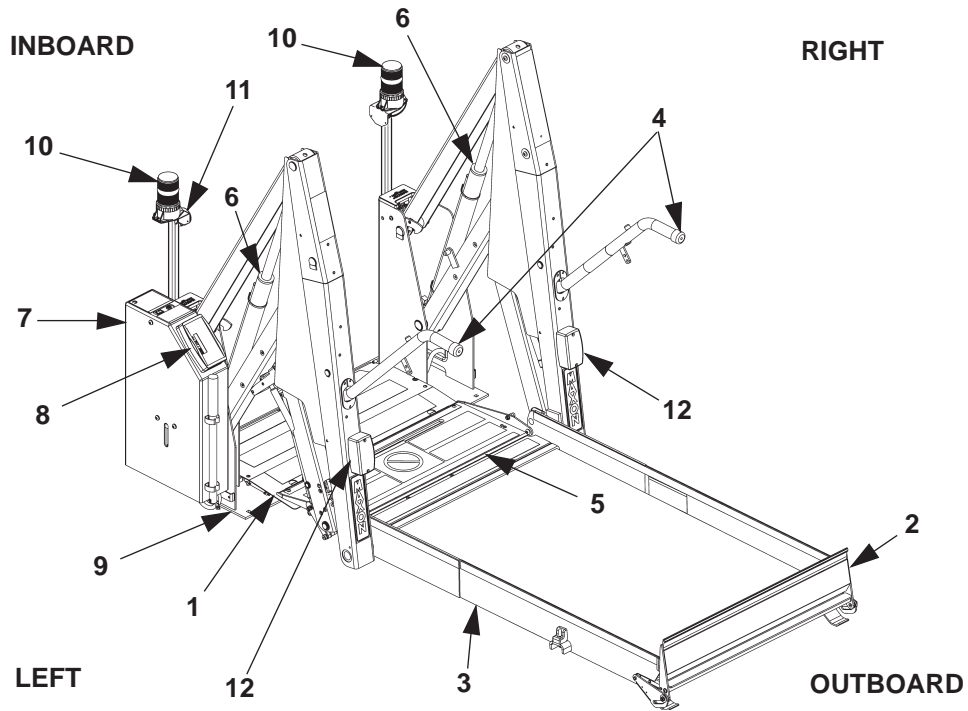
11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

THIS PAGE INTENTIONALLY LEFT BLANK

# LIFT COMPONENTS & TERMINOLOGY

**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



LIFT COMPONENTS (SEE TABLE 9-1)  
FIG. 8-1



ITEM	NAME	DESCRIPTION
1.	THRESHOLD PLATE	Component that bridges the entry way, through the Lift, into the vehicle. Detects if that portion of Lift is occupied during "UP/DOWN" operation between vehicle floor and the ground.
2.	OUTBOARD ROLLSTOP	Barrier to prevent the Wheelchair from rolling off of the Platform. Also provides entry/exit ramp for Platform on the ground.
3.	PLATFORM	Contains the Wheelchair and Occupant during "UP/DOWN" operation between vehicle floor and the ground.
4.	HANDRAILS	(Left/Right) Provides a hand hold for the Lift Occupant.
5.	INBOARD ROLLSTOP	Barrier to prevent the Wheelchair from rolling off inboard side of Platform. Also, provides bridge between Platform and Threshold.
6.	HYDRAULIC CYLINDER	(Left/Right) Telescoping steel tube and rod, pressurized by hydraulic fluid, that folds and unfolds the Lift and moves the Lift up and down.
7.	HYDRAULIC POWER UNIT (COVER IS SHOWN)	Contains motorized hydraulic pump, manually operated backup pump, fluid lines, and controls to operate the hydraulic cylinders.
8.	LIFT CONTROLLER	Electronic device that controls and monitors Lift operation and the interlock connection with the vehicle.
9.	BASE	Structure that secures Lift to the vehicle floor.
10.	THRESHOLD WARNING BEACON	Flashing red light indicates Threshold is occupied by a person or object when the Platform is below floor level. Also indicates Outboard Rollstop is open if Platform is at floor level.
11.	THRESHOLD WARNING ALARM	Audible alarm sounds when Threshold is occupied by a person or object when the Platform is below floor level. Also indicates Outboard Rollstop is open if Platform is at floor level.
12.	PLATFORM LIGHTS	Illuminates the Platform when ready to load at floor level and during "UP/DOWN" operation between vehicle floor and the ground.

**TABLE 9-1**

## MAINTENANCE SCHEDULE

**NOTE:** The Lift Controller counts the number of cycles & lifts over the lifetime of the Lift. One **CYCLE** is counted each time the Lift is unfolded from the stowed position to floor level, lowered to the ground, raised to floor level, and then stowed. One **LIFT** is counted each time the Lift is lowered from floor level to the ground, and raised back to floor level. Read the **LIFTS** and **CYCLES** counts from the Lift Controller display window periodically so you know when to do the maintenance checks listed below.

### EVERY 500 LIFTS

- ☐ Visually check the Lift for bent, broken, or worn out parts, and broken welds.
- ☐ Check the electrical wiring for worn insulation, and the terminals for corrosion and secure fit. Apply dielectric grease to connections if needed.
- ☐ Check for loose fasteners (nuts, bolts, screws & rivets). Also, check cotter pins, clevis pins, retaining ring pins & retaining rings for noticeable wear and damage.
- ☐ Check that all Decals are in place, undamaged, and legible (**see PARTS BREAKDOWN, DECALS**).
- ☐ Check that all anti-slip and safety striping is in place and undamaged (**see PARTS BREAKDOWN, ANTI-SLIP & SAFETY STRIPING**).
- ☐ Clean dust and debris from Outboard Switch & Ground Switch (magnetic switches on Platform). (**See ELECTRICAL COMPONENTS in this Manual.**)

### EVERY 2500 CYCLES

- ☐ Replace both latch Solenoids P/N 266955-01 (**see PARTS BREAKDOWN, ELECTRICAL COMPONENTS, Item 23**).
- ☐ Apply multi-use teflon spray lubricant to all springs on the Lift.

### EVERY 5000 LIFTS

- ☐ Replace both Platform light bulbs P/N 906475-01 (**see PARTS BREAKDOWN, ELECTRICAL COMPONENTS, Item 8A**).

### EVERY 10000 LIFTS

- ☐ Check both Hydraulic Cylinders for leaks. If a film of hydraulic fluid is visible on cylinder seals Lift can still be operated. However, if fluid is dripping from the cylinders, replace them (**see PARTS BREAKDOWN, HYDRAULIC COMPONENTS, Item 13**).

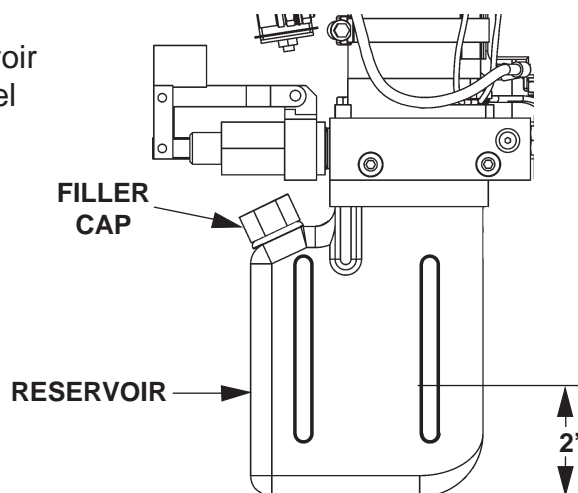
**NOTE:** To confirm compliance with **Federal Motor Vehicle Safety Standard 403**, refer to the **COMPLETED LIFT INSTALLATION CHECKLIST** in the Installation Manual.

# CHECKING HYDRAULIC FLUID LEVEL

## 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, wipe off contaminants that can get in the openings. Also, protect the openings from accidental contamination.

1. Check the Hydraulic Fluid level in Reservoir as follows. With Liftgate stowed, fluid level should be as shown in **FIG. 11-1**.
2. If needed, add fluid to the Reservoir as follows. Pull out (no threads) Filler Cap (**FIG. 11-1**). Fill the Reservoir with Hydraulic Fluid (**TABLE 11-1**) to level shown in **FIG. 11-1**. Reinstall Filler Cap (**FIG. 11-1**).

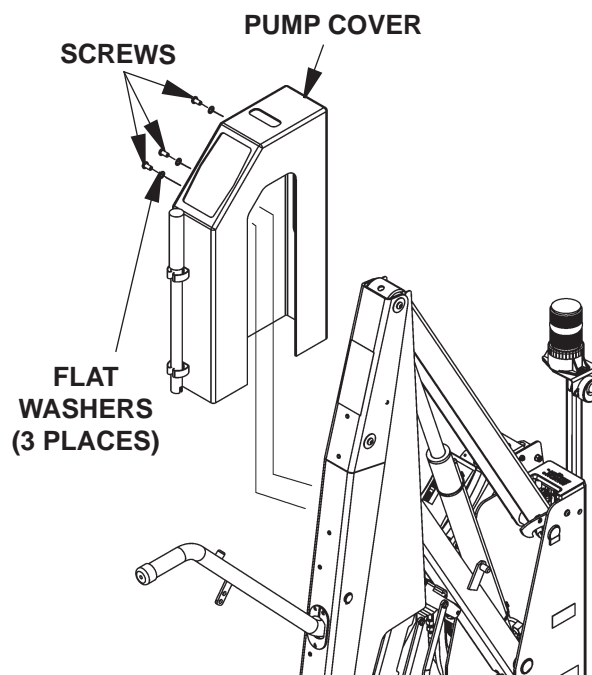


**HYDRAULIC FLUID LEVEL  
(LH PUMP SHOWN)  
FIG. 11-1**

RECOMMENDED HYDRAULIC FLUID	
BRAND	PART NUMBER
ROSEMEAD	THS FLUID 17111
EXXON	UNIVIS HVI 26

**TABLE 11-1**

3. Bolt on the Pump Cover as shown in **FIG. 11-2**. Tighten the 5/16"-18 cover screws until snug.



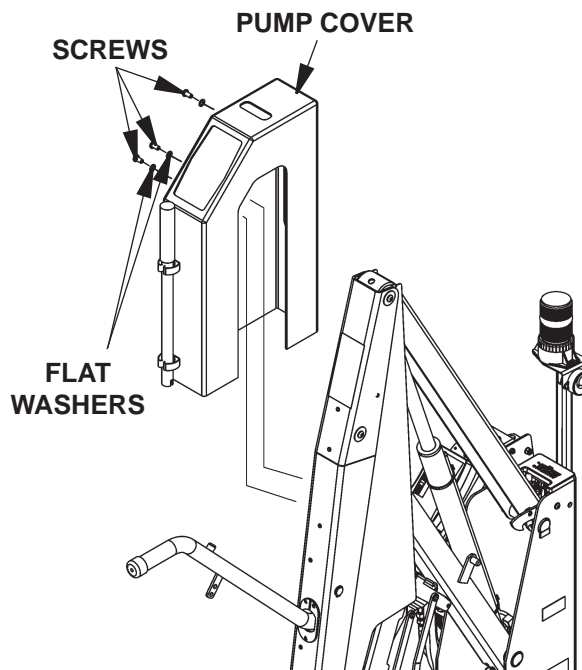
**BOLTING ON THE PUMP COVER  
(LH PUMP SHOWN)  
FIG. 11-2**

# 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.

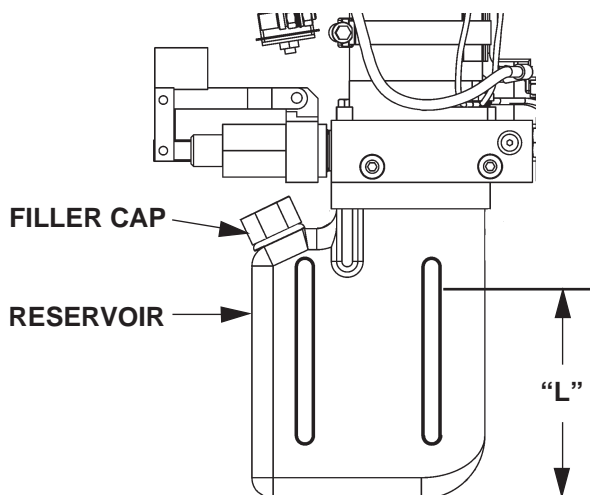
1. Unbolt the Pump Cover and remove it from the Lift as shown in **FIG. 12-1**.



**UNBOLTING / BOLTING PUMP  
COVER (LH PUMP SHOWN)**

**FIG. 12-1**

2. Lower the Lift to ground level. Then measure and record the fluid level ("L") in the Reservoir (**FIG. 12-2**).



**LH PUMP  
FIG. 12-2**

**MAXON**

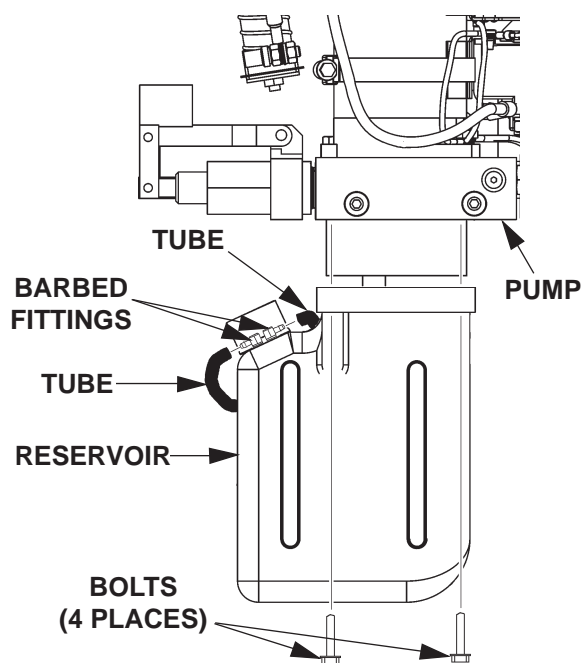
11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

3. Disconnect the 2 tubes from barbed fittings on the Reservoir (**FIG. 13-1**). Unbolt the Reservoir from Pump. Remove the Reservoir and pour the used hydraulic fluid into a drain pan.
4. Bolt the Reservoir on the Pump. (**FIG. 13-1**). Reconnect tubes to barb fittings on the Reservoir.
5. Pull out (no threads) Filler Cap (**FIG. 12-2**). Fill the Reservoir with Hydraulic Fluid (**TABLE 13-1**) to level ("L") you measured in step 2. Reinstall Filler Cap (**FIG. 12-2**).

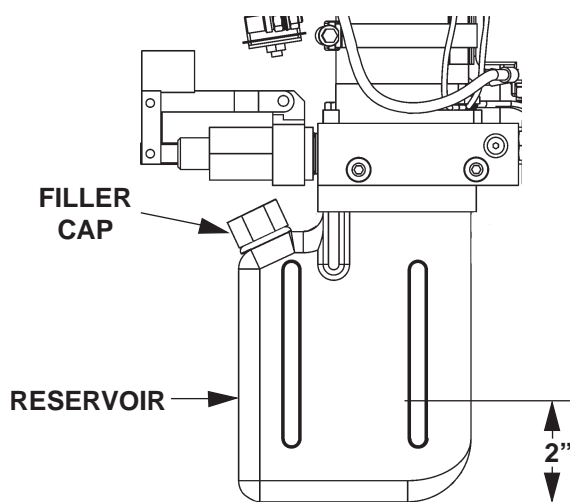
RECOMMENDED HYDRAULIC FLUID	
BRAND	PART NUMBER
ROSEMEAD	THS FLUID 17111
EXXON	UNIVIS HVI 26

**TABLE 13-1**

6. Stow the Lift. Check the Hydraulic Fluid level in Reservoir as follows. With Lift-gate stowed, fluid level should be 3" (**FIG. 13-2**). If needed, add more fluid to the Reservoir.
7. Bolt on the Pump Cover as shown in **FIG. 12-1**. Tighten the 5/16"-18 cover screws until snug.



**UNBOLTING / BOLTING RESERVOIR  
(LH PUMP SHOWN)  
FIG. 13-1**



**HYDRAULIC FLUID LEVEL  
(LH PUMP SHOWN)  
FIG. 13-2**

# ADJUSTMENTS

## MAT SWITCH ADJUSTMENT

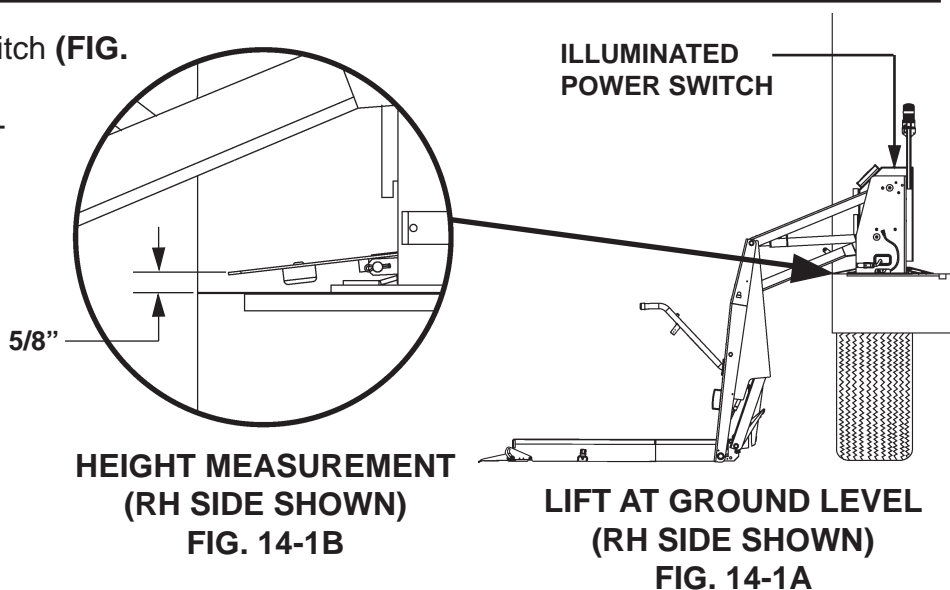
**NOTE:** Do this procedure if structure of the Lift is undamaged and:

- The Controller reads **"MAT ERR"** when the Threshold Plate is unoccupied and Platform is below floor level.
- The Threshold Warning Beacons and Threshold Warning Alarm are on when Threshold is unoccupied and Platform below floor level.
- The Threshold Warning Beacons and Threshold Warning Alarm will not turn on when Threshold is occupied and Platform below floor level.
- The MAT switch or Threshold Plate are removed & replaced.

The adjustment is done correctly if:

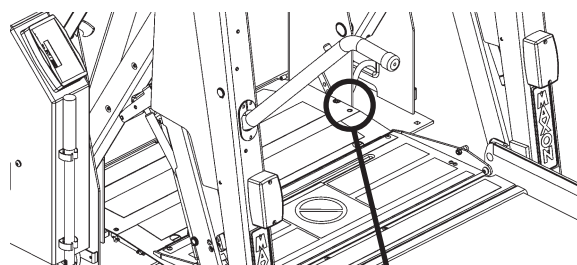
- The Controller does not read **"MAT ERR"** when the Threshold Plate is unoccupied and Platform is below floor level.
- The Threshold Warning Beacons and Threshold Warning Alarm are on when Threshold is unoccupied and Platform below floor level.
- The Threshold Warning Beacons and Threshold Warning Alarm turn on when Threshold is occupied and Platform below floor level.

1. Make sure power switch (**FIG. 14-1A**) is turned on and illuminated. Lower Lift to the ground (**FIG. 14-1A**).

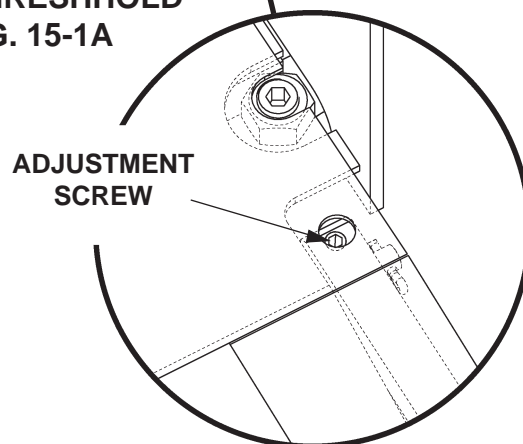


2. Measure the height of the Threshold Plate as shown in (**FIG. 14-1B**). If the height is not 5/8", do step 3. If the height is already 5/8", skip step 3, and go on to step 4.

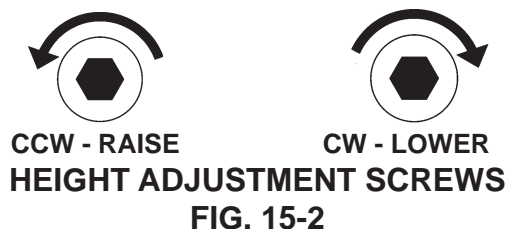
3. Set edge of the Threshold Plate to 5/8" height by turning the adjustment screw on the RH Side of Threshold plate (**FIG. 15-1B**). Turn adjustment screw counter-clockwise (**FIG. 15-2**) to raise Threshold Plate or clockwise to lower. Repeat for LH Side of Threshold Plate. Alternately measure height (see step 2) and turn the adjustment screw on RH Side and LH Side until the entire edge of Threshold plate is at the 5/8" height.



**LIFT THRESHHOLD**  
**FIG. 15-1A**



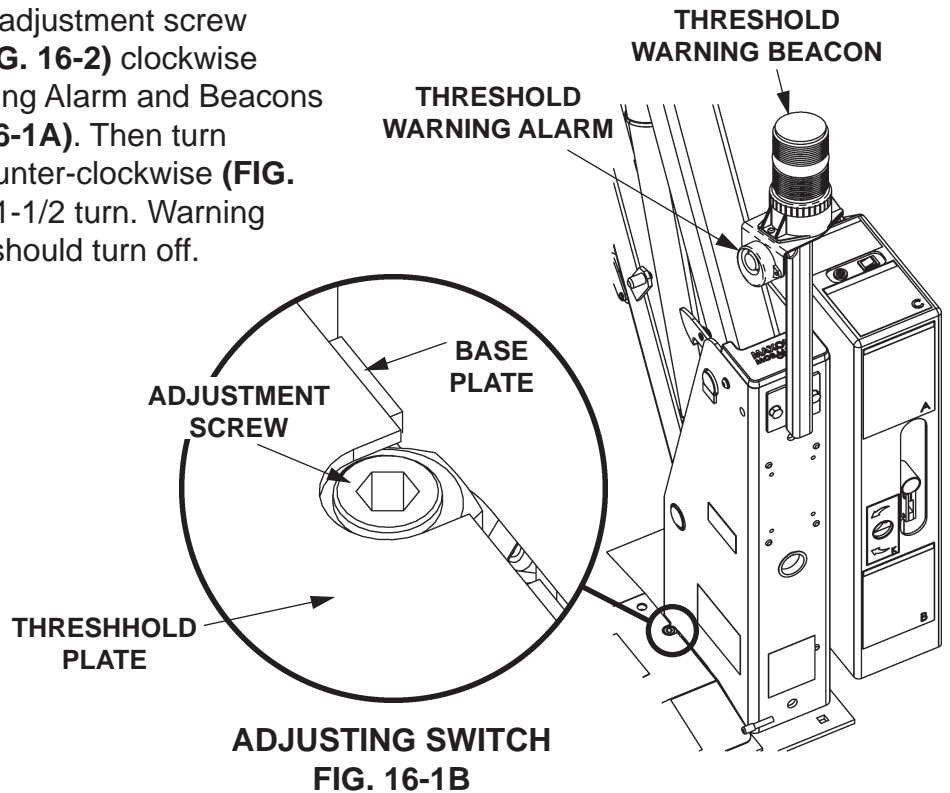
**HEIGHT ADJUSTMENT SCREW**  
**(RH SIDE SHOWN)**  
**FIG. 15-1B**



**FIG. 15-2**

## MAT SWITCH ADJUSTMENT - Continued

4. Turn the MAT switch adjustment screw (FIGS. 16-1B and FIG. 16-2) clockwise until Threshold Warning Alarm and Beacons are activated (FIG. 16-1A). Then turn adjustment screw counter-clockwise (FIG. 16-2) approximately 1-1/2 turn. Warning Alarm and Beacons should turn off.



LH SIDE OF LIFT  
FIG. 16-1A



CW - UNTIL ALARM &  
BEACONS TURN ON



1-1/2 TURN CCW - ALARM  
& BEACONS TURN OFF

MAT SWITCH ADJUSTMENT SCREWS  
FIG. 16-2

5. Step on Threshold Plate. Warning Alarm and Beacons should activate. If the Warning Alarm and Beacons do not activate, turn Adjustment Screw (FIG. 16-1B) clockwise (FIG. 16-2) a little. Repeat until Warning Alarm and Beacons activate when you step on Threshold Plate and turn off when you step off Threshold Plate.



## PLATFORM TILT ADJUSTMENT

**NOTE:** The platform tilt adjustment is important for operation of the Outboard Rollstop and for keeping Platform level when it reaches the ground. Vehicle floor height, Lift installation angle, and stiffness of the Vehicle suspension may change the angle of Platform on the ground.

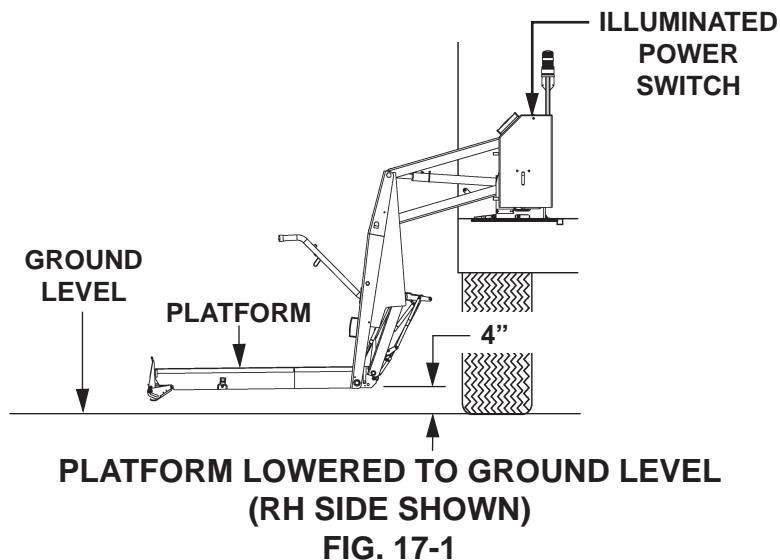
**NOTE:** Do this procedure if structure of the Lift is undamaged and:

- Outboard Rollstop will not open all the way when Platform reaches the ground.
- Bottoms of the Vertical Arms touch the ground before Outboard Rollstop.
- Platform is sloped down excessively toward the Outboard Rollstop.

The adjustment is done correctly if:

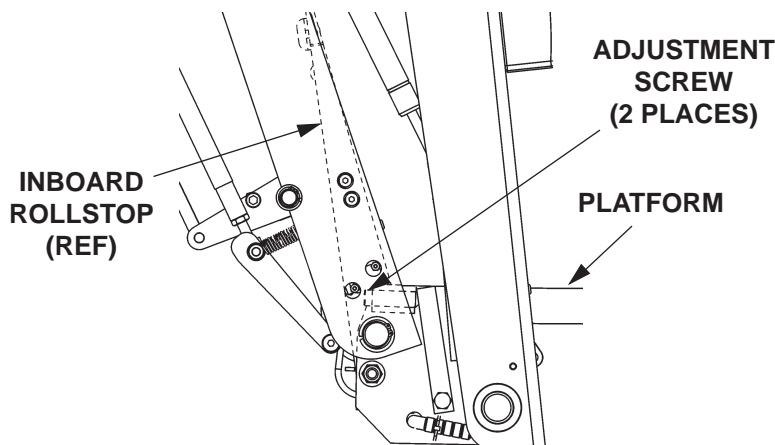
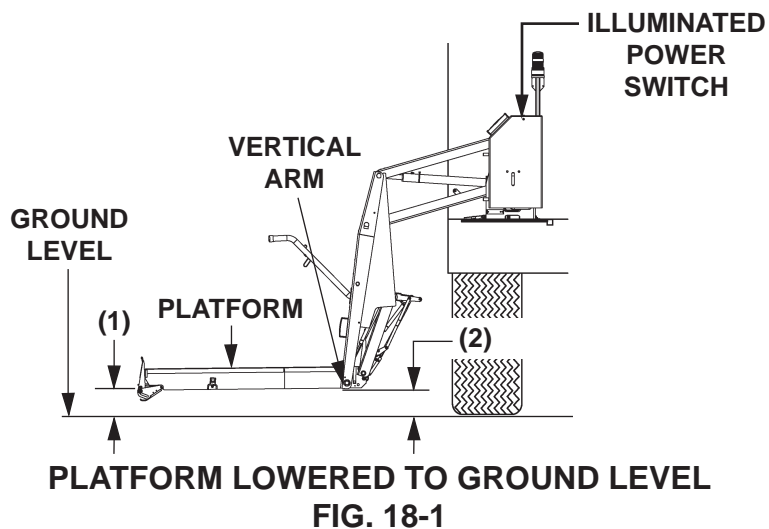
- Outboard Rollstop will open all the way when Platform reaches the ground.
- Outboard Rollstop will touch the ground before bottoms of Vertical Arms.
- Platform will slope down a little toward the Outboard Rollstop.

1. Make sure power switch (FIG. 17-1) is turned on and illuminated. Lower the Platform and stop approximately 4" above ground.



## PLATFORM TILT ADJUSTMENT - Continued

2. Measure distance from front of the Platform (1) to the ground (FIG. 18-1). Next measure the distance from the bottom of the Vertical Arm (2) to the ground (FIG. 18-1).
3. The measurement at the Vertical Arm (2) must be 1/2" - 1" higher than the measurement at the front of Platform (1). For example: If you measure 4" at the front (1), then you should measure from 4-1/2" to 5" at the Vertical Arm (2). If there is not a 1/2" - 1" difference, do instruction 4 to get the correct measurement.
4. To ensure proper leveling, turn PLATFORM TILT adjustment screws (FIG. 18-2) an equal amount, on both sides of Platform. Turn adjustment screws clockwise (FIG. 18-3) to tilt the Platform up or counter-clockwise to tilt Platform down.



**CW - TILT  
PLATFORM UP**



**CCW - TILT  
PLATFORM DOWN**

**PLATFORM TILT ADJUSTMENT SCREWS**  
**FIG. 18-3**

## STOW SWITCH ADJUSTMENT

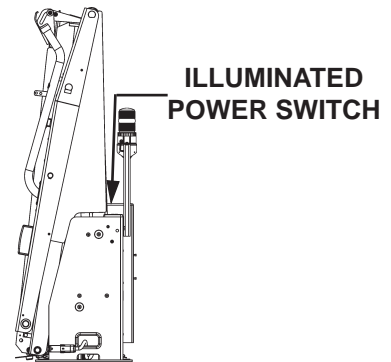
**NOTE:** Do this procedure if structure of the Lift is undamaged and:

- The Platform does not stow tight
- Controller reads **FOLD** or **UNFOLD** when Platform is stowed or has settled on the latches.
- Lift is not sending Interlock signal to vehicle.
- The STOW switch is removed & replaced.

The adjustment is done correctly if:

- Platform stows tight.
- Controller reads **STOWED\*** when Platform is stowed or has settled on the latches.
- Lift is sending Interlock signal to vehicle.

1. Make sure power switch (**FIG. 19-1**) is turned on and illuminated. Stow the Lift (**FIG. 19-1**).

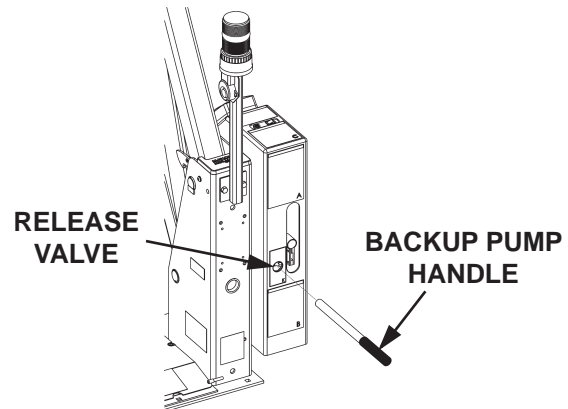


**STOWED LIFT  
(LIFT WITH LH PUMP)  
FIG. 19-1**

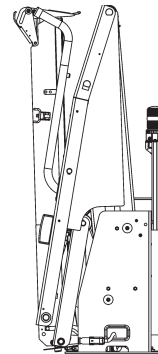
## STOW SWITCH ADJUSTMENT - Continued

**NOTE:** After pressure release valve is opened, you have 5 minutes to do the adjustment before the Controller repressurizes hydraulic system and stows the Lift.

2. Open the release valve (**FIG. 20-1**) counter-clockwise with the Backup Pump Handle. As the Lift starts to unfold and rests against the latches (**FIG. 20-2**), close the release valve (**FIG. 20-1**) by turning clockwise.

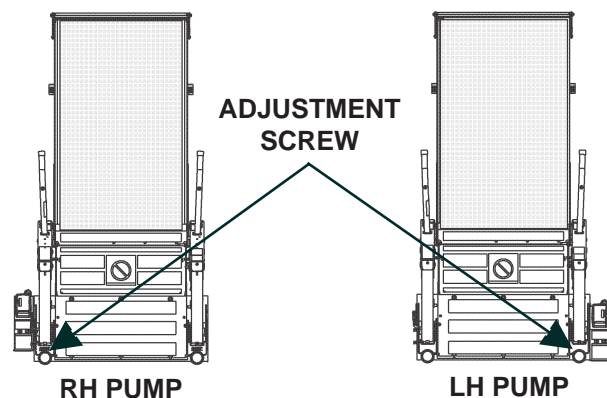


**USING BACKUP PUMP TO UNFOLD  
(LIFT WITH LH PUMP)  
FIG. 20-1**



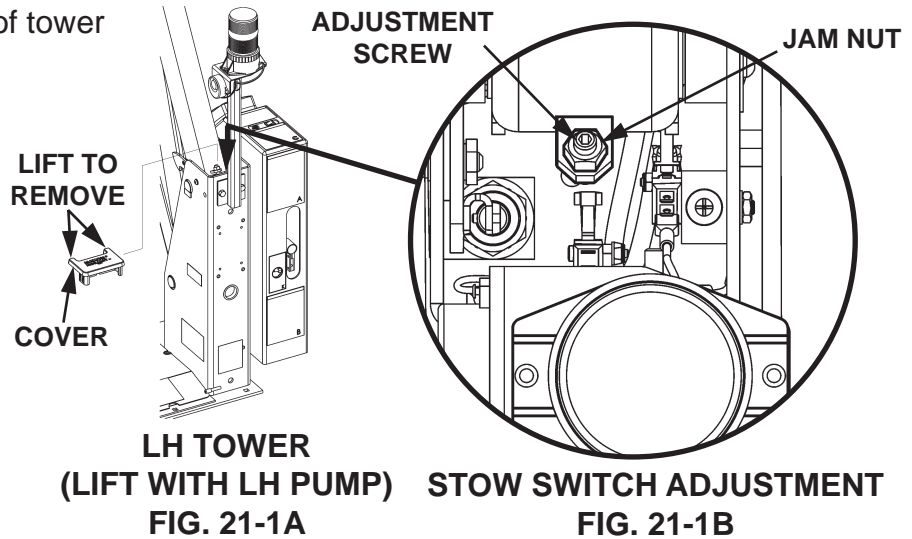
**LIFT RESTING ON  
LATCHES  
FIG. 20-2**

**NOTE:** The STOW switch adjustment screw is always on the same side of the Lift as the Pump Cover (**FIG. 20-3**).



**WHERE TO FIND ADJUSTMENT SCREW  
FIG. 20-3**

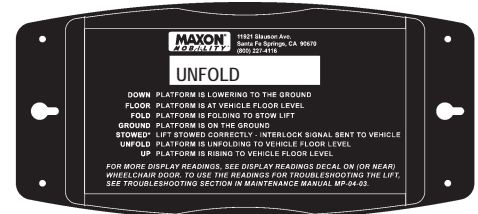
3. Remove cover from top of tower (**FIG. 21-1A**).



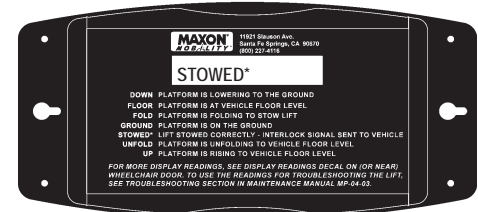
4. Loosen jam nut (**FIG. 21-1B**) on the STOW switch adjustment screw. Next turn adjustment screw counter-clockwise (CCW) (**FIG. 21-2**) until Controller reads **UNFOLD**. Turn adjustment screw clockwise (CW) (**FIG. 21-3**) until Controller reads **STOWED\***. Then turn the adjustment screw 1/2 turn CW (**FIG. 21-4**).



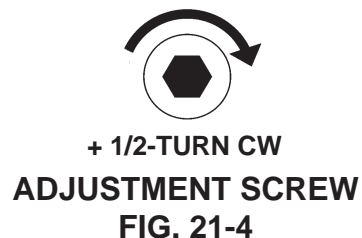
**ADJUST SO CONTROLLER READS "UNFOLD"**  
**FIG. 21-2**



**ADJUST SO CONTROLLER READS "STOWED\*"**  
**FIG. 21-3**



5. Use the Hand Control to stow Lift (**FIG. 18-1**). Make sure the Platform is stowed tightly. Repeat adjustment steps 1 through 4 if necessary.
6. When adjustment is complete, tighten jam nut on the adjustment screw (**FIG. 21-1B**).
7. Reinstall cover on tower (**FIG. 21-1A**).



## FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS

**NOTE:** Do this procedure if structure of the Lift is undamaged and:

- The Platform will not fold when empty.
- Inboard Rollstop is not landing correctly on the Threshold Plate when unfolding Platform or raising Platform to floor level.
- The FOLD switch or LOWERING switch are removed & replaced.

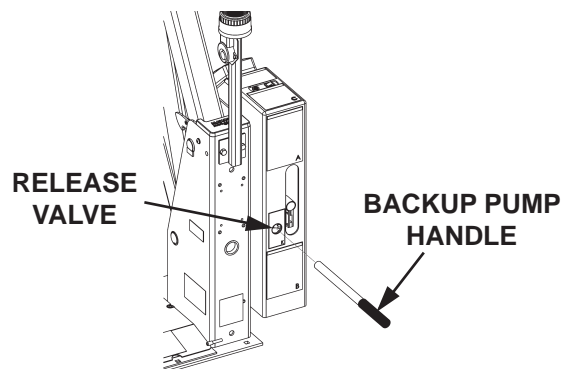
The adjustment is done correctly if:

- The Platform folds when empty.
- Inboard Rollstop rests on Threshold Plate and lines up approximately with edge of Base Plate.

### FOLD SWITCH “BALLPARK” ADJUSTMENT

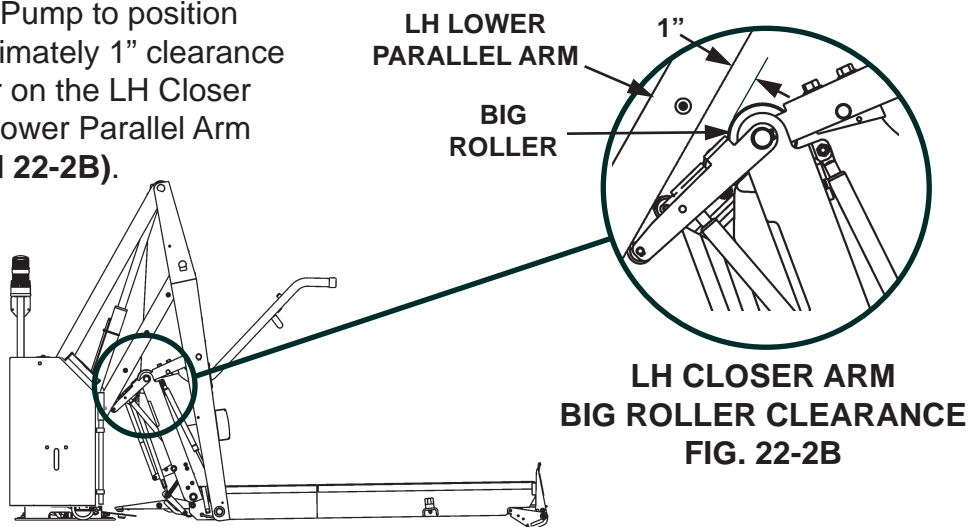
**NOTE:** Controller can be turned off for this part of the procedure. Use the Backup Pump to position the Lift.

1. Use the Backup Pump (**FIG. 22-1**) to unfold the Platform to floor level (**FIG. 22-2A**).



**USING BACKUP PUMP TO UNFOLD  
(LIFT WITH LH PUMP)  
FIG. 22-1**

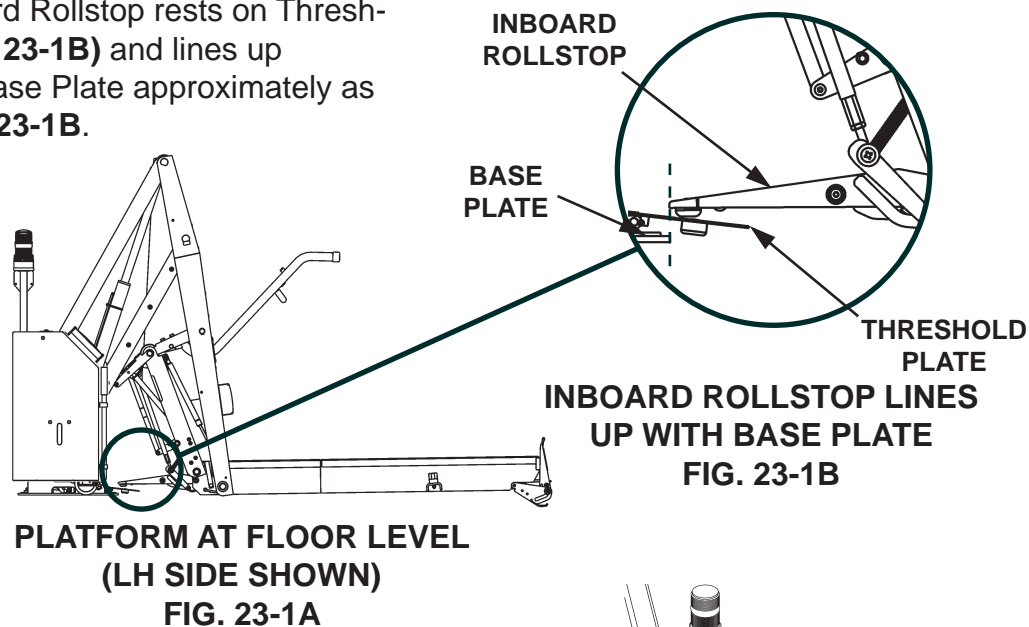
2. Next use Backup Pump to position the Lift for approximately 1" clearance between big roller on the LH Closer Arm and the LH Lower Parallel Arm (**FIGS. 22-2A and 22-2B**).



**LH CLOSER ARM  
BIG ROLLER CLEARANCE  
FIG. 22-2B**

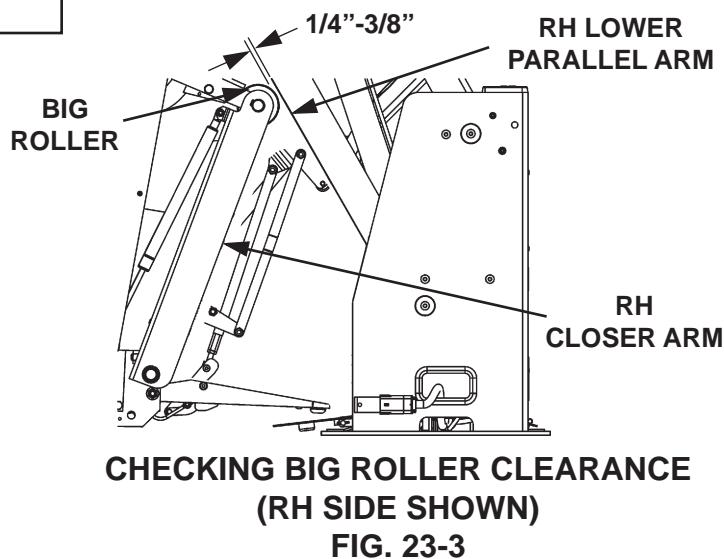
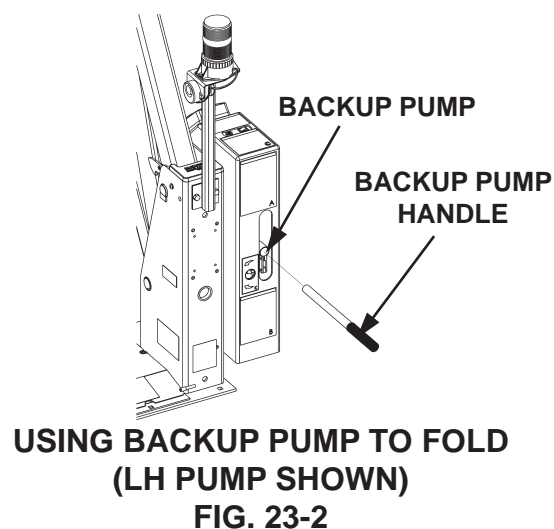
**PLATFORM AT FLOOR LEVEL  
(LH SIDE SHOWN)  
FIG. 22-2A**

3. Check if Inboard Rollstop rests on Threshold Plate (**FIG. 23-1B**) and lines up with edge of Base Plate approximately as shown in **FIG. 23-1B**.



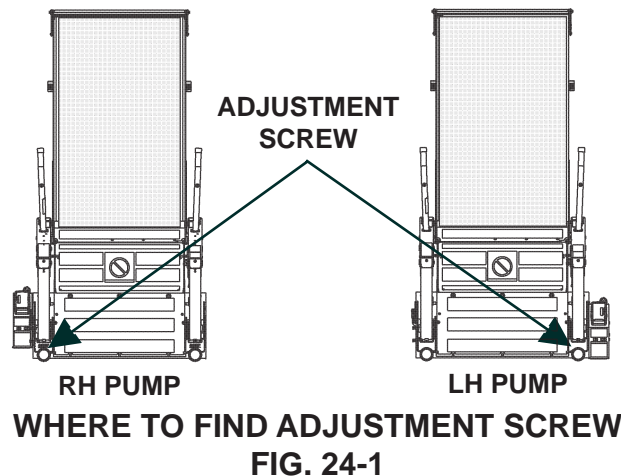
**NOTE:** When using the Manual Backup Pump, first make sure the notches are lined up vertically on tip of the Manual Backup Handle. Then make sure Handle is fully engaged with Pump before you start pumping. See the Operation Manual for more information on operating the Manual Backup Pump.

4. Start folding Platform with the Backup Pump (**FIG. 23-2**) until there is 1/4"-3/8" clearance between big roller on RH Closer Arm and the RH Lower Parallel Arm (**FIG. 23-3**).



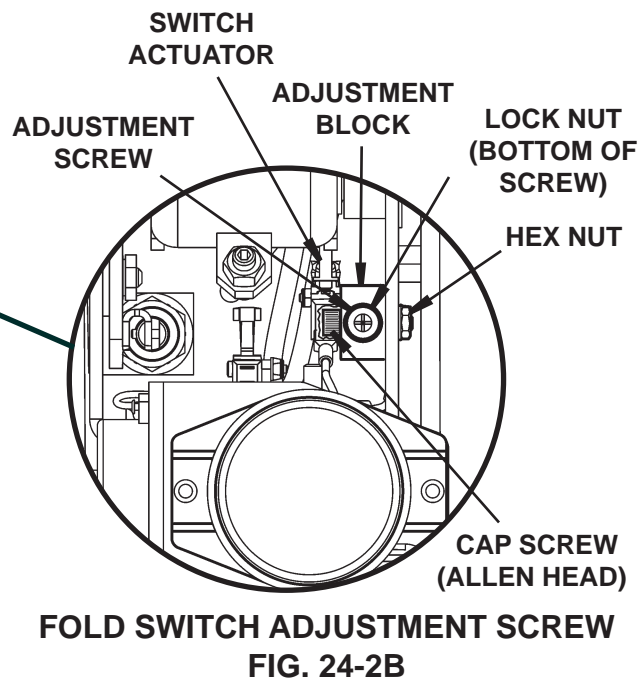
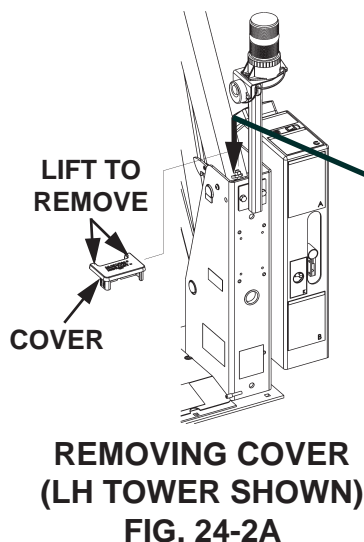
## FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS - Continued

**NOTE:** The FOLD switch adjustment screw is always on the same side of the Lift as the Pump Cover (FIG. 24-1).

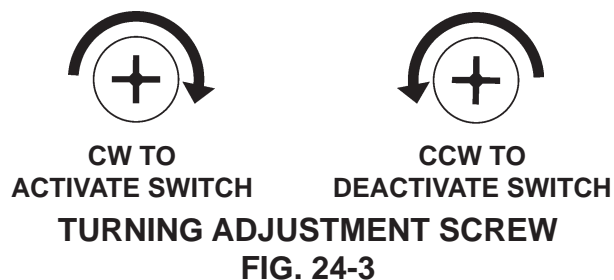


5. Remove cover from tower (FIG. 24-2A).

6. Loosen lock nut (FIG. 24-2B) just enough to turn adjustment screw.



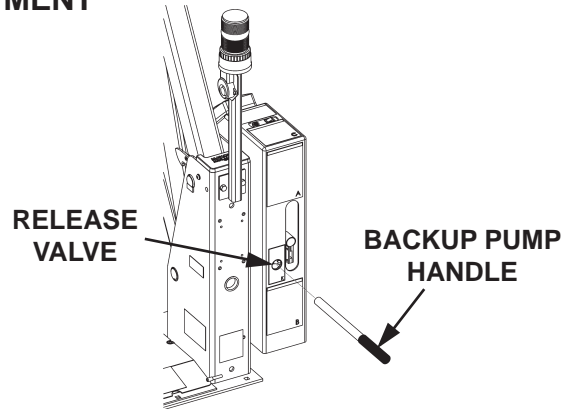
7. Release the adjustment block (FIG. 24-2B) by loosening hex nut and allen head cap screw.
8. Turn adjustment screw CW (FIG. 24-3) until switch just clicks (activates). If switch is already activated, turn adjustment screw CCW until switch just clicks (deactivates). Then turn screw CW until it just clicks (activates).



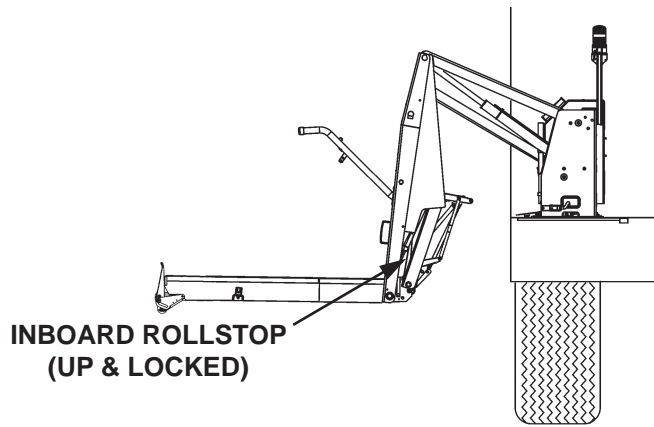


## LOWERING SWITCH “BALLPARK” ADJUSTMENT

1. Use the Backup Pump (**FIG. 25-1**) to lower the Platform below vehicle floor level until Inboard Rollstop is locked in up position (**FIG. 25-2**).



USING BACKUP PUMP TO UNFOLD  
(LH PUMP SHOWN)  
FIG. 25-1

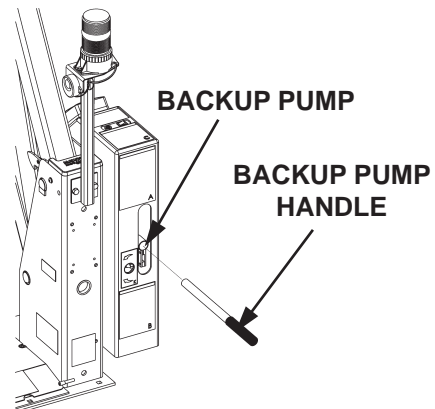


PLATFORM BELOW  
FLOOR LEVEL  
FIG. 25-2

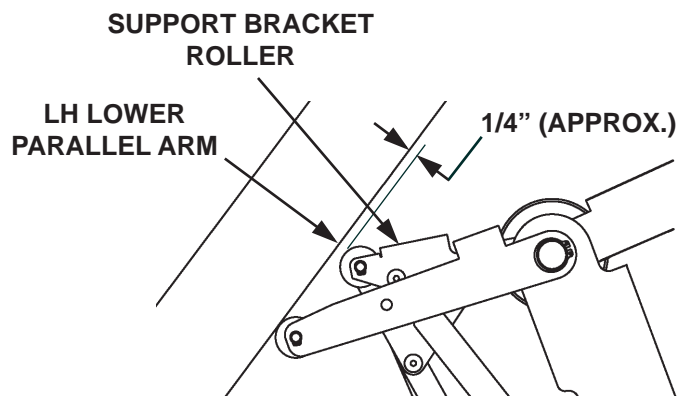
## FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS - Continued

**NOTE:** When using the Manual Pump, first make sure the notches are lined up vertically on tip of the Manual Back-up Handle. Then make sure Handle is fully engaged with Manual Pump before you start pumping with the Handle. See the Operation Manual for more information on operating the Manual Pump.

2. Use the Backup Pump (**FIG. 26-1**) to raise Platform until Support Bracket Roller is approximately 1/4" from the bottom of the LH Lower Arm (**FIG. 26-2**).

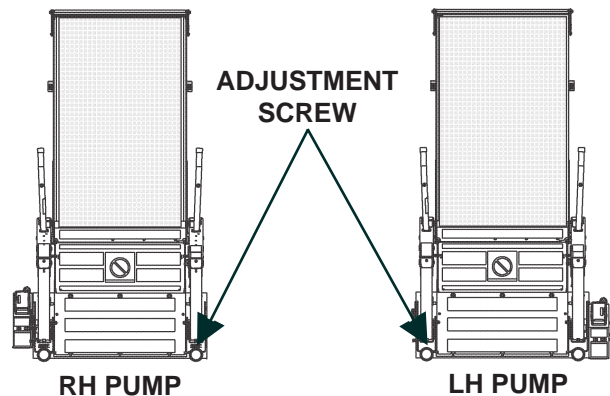


**USING BACKUP PUMP  
TO RAISE PLATFORM  
(LH PUMP SHOWN)  
FIG. 26-1**



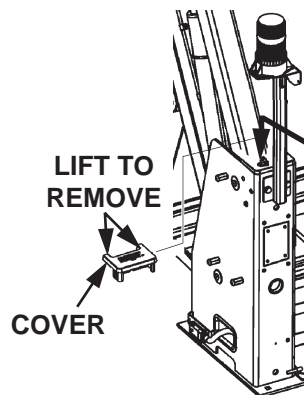
**CHECKING SMALL ROLLER CLEARANCE  
(LH SIDE OF LIFT SHOWN)  
FIG. 26-2**

**NOTE:** The LOWERING switch adjustment screw is always on the opposite side of the Lift as the Pump Cover (**FIG. 27-1**).

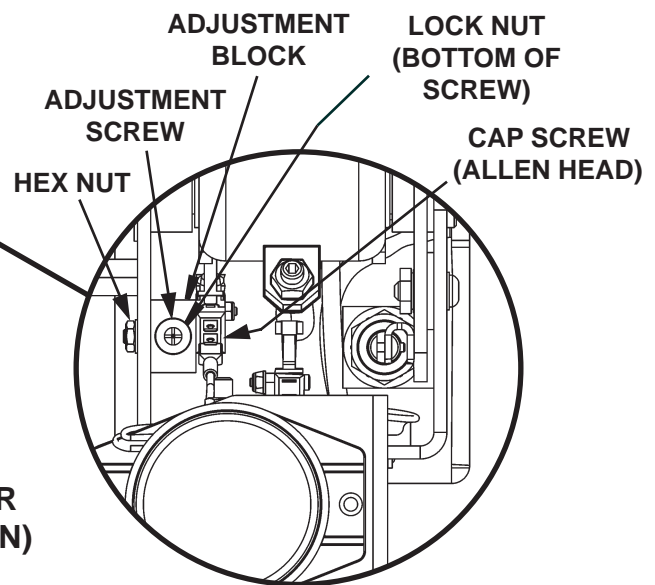


**WHERE TO FIND ADJUSTMENT SCREW  
FIG. 27-1**

3. Remove cover from tower (**FIG. 27-2A**).
4. Loosen lock nut (**FIG. 27-2B**) just enough to turn adjustment screw.

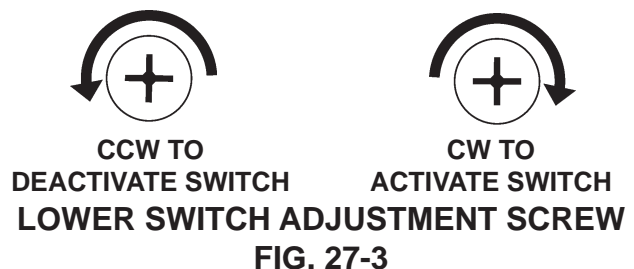


**REMOVING COVER  
(RH TOWER SHOWN)  
FIG. 27-2A**



**LOWERING SWITCH ADJUSTMENT SCREW  
FIG. 27-2B**

5. Loosen hex nut and allen head cap screw to release adjustment block (**FIG. 27-2B**).
6. Turn adjustment screw CW (**FIG. 27-3**) until switch just clicks (activates). If switch is already activated, turn adjustment screw CCW until switch just clicks (deactivates). Then turn screw CW until it just clicks (activates).



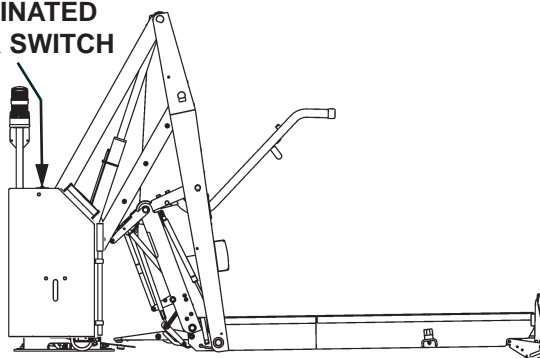
**LOWER SWITCH ADJUSTMENT SCREW  
FIG. 27-3**

## FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS - Continued

### FOLD SWITCH FINE ADJUSTMENT

1. Make sure power switch (**FIG. 28-1**) is turned on and illuminated. Raise the Platform to floor level (**FIG. 28-1**).

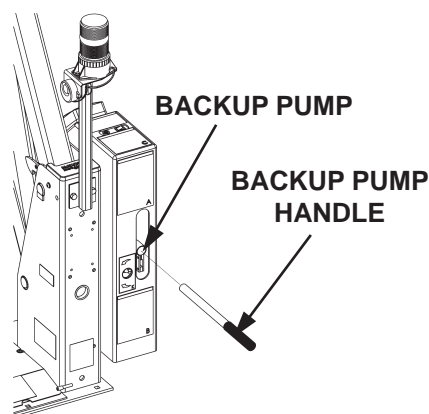
ILLUMINATED  
POWER SWITCH



**PLATFORM AT FLOOR LEVEL  
(LH SIDE SHOWN)  
FIG. 28-1**

**NOTE:** When using the Manual Pump, first make sure the notches are lined up vertically on tip of the Manual Back-up Handle. Then make sure Handle is fully engaged with Manual Pump before you start pumping with the Handle. See the Operation Manual for more information on operating the Manual Pump.

2. Start folding Platform with the Backup Pump (**FIG. 28-2**) until Controller reads "**FOLD SW**" (**FIG. 28-3**).

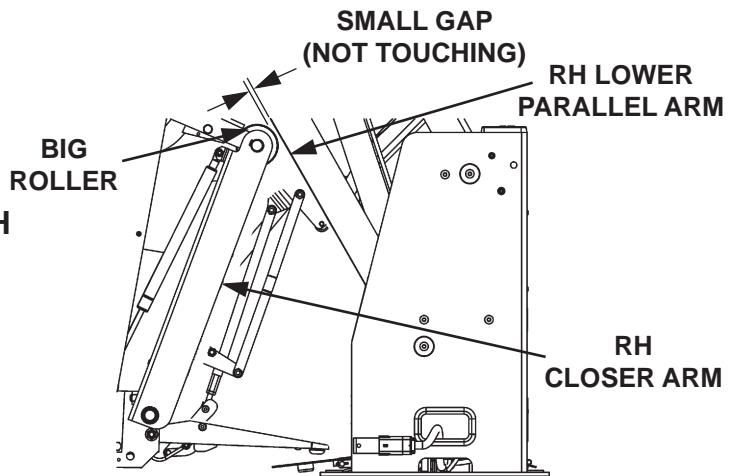


**USING BACKUP PUMP TO RAISE  
(LH PUMP SHOWN)  
FIG. 28-2**



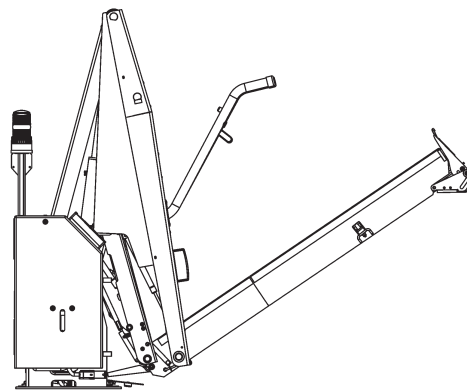
**CONTROLLER READING WHEN  
PLATFORM STARTS TO FOLD  
FIG. 28-3**

3. Check for small gap between the big roller on RH Closer Arm and the RH Lower Parallel Arm (**FIG. 29-1**). If there is a small gap, continue with step 4. If the big roller is touching the Parallel Arm, redo the **FOLD SWITCH “BALLPARK” ADJUSTMENT** in this procedure.



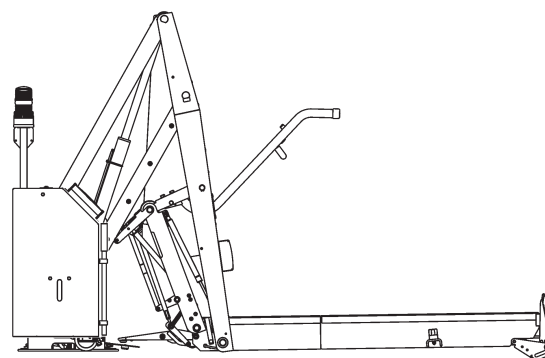
**CHECKING BIG ROLLER CLEARANCE  
(RH SIDE OF LIFT SHOWN)  
FIG. 29-1**

4. Use the Hand Control to fold Platform part way as shown in **FIG. 29-2**.



**PLATFORM FOLDING  
(LH SIDE SHOWN)  
FIG. 29-2**

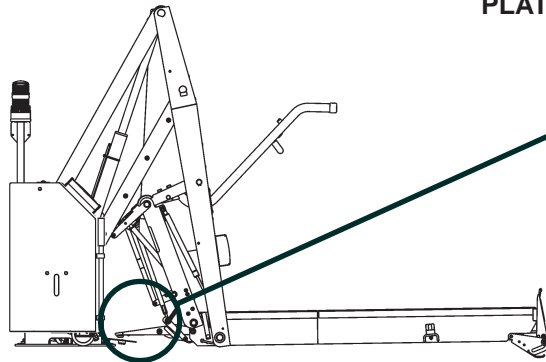
5. Use the Hand Control to unfold Platform to floor level (**FIG. 29-3**).



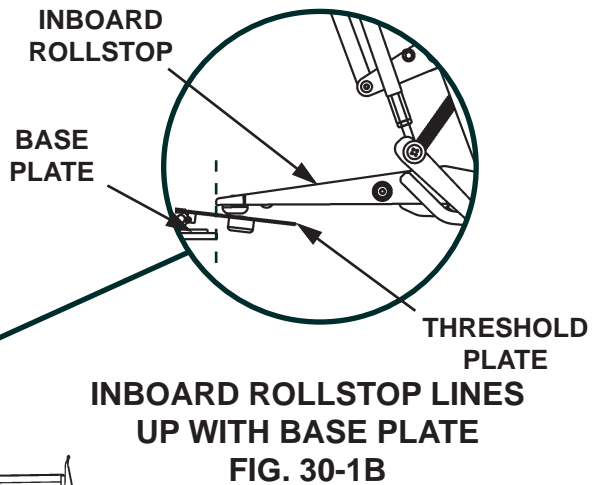
**PLATFORM AT FLOOR LEVEL  
(LH SIDE SHOWN)  
FIG. 29-3**

## FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS - Continued

6. Check if Inboard Rollstop rests on Threshold Plate (**FIG. 30-1B**) and lines up with edge of Base Plate approximately as shown in **FIG. 30-1B**.

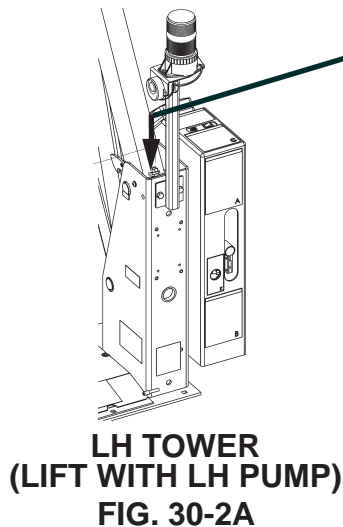


**PLATFORM AT FLOOR LEVEL  
(LH SIDE SHOWN)  
FIG. 30-1A**

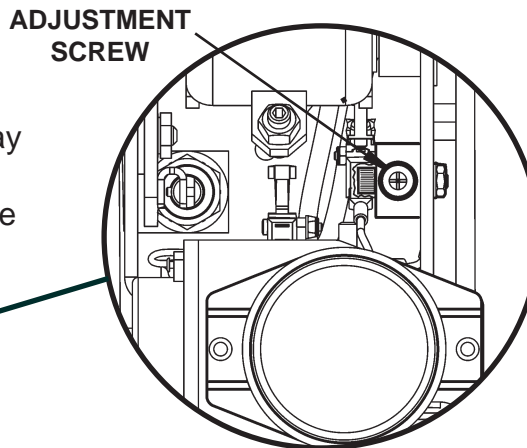


**INBOARD ROLLSTOP LINES  
UP WITH BASE PLATE  
FIG. 30-1B**

7. Adjust the Inboard Rollstop landing position on the Threshold Plate, by turning adjustment screw (**FIG. 30-2B and 30-3**). Turn screw 1/16 or 1/8 turn after you fold Platform part way and then unfold it back to floor level. At floor level, the Inboard Rollstop should land and line up as shown in **FIG. 30-1B**.



**LH TOWER  
(LIFT WITH LH PUMP)  
FIG. 30-2A**



**FOLD SWITCH ADJUSTMENT SCREW  
FIG. 30-2B**



**CCW FOR MORE INBOARD  
ROLLSTOP OVERLAP ON  
THRESHOLD PLATE**

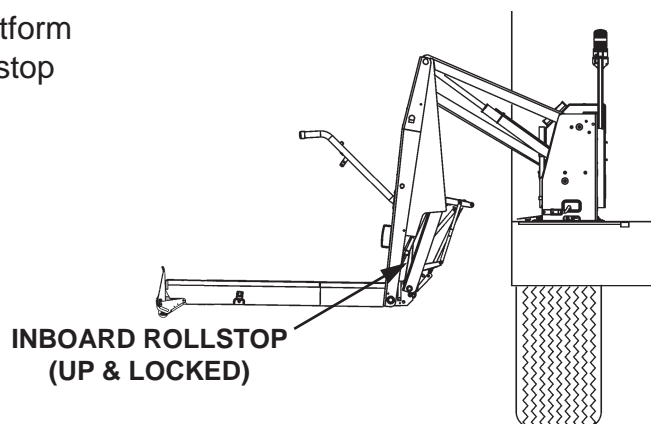


**CW FOR LESS INBOARD  
ROLLSTOP OVERLAP ON  
THRESHOLD PLATE**

**TURNING ADJUSTMENT SCREW  
FIG. 30-3**

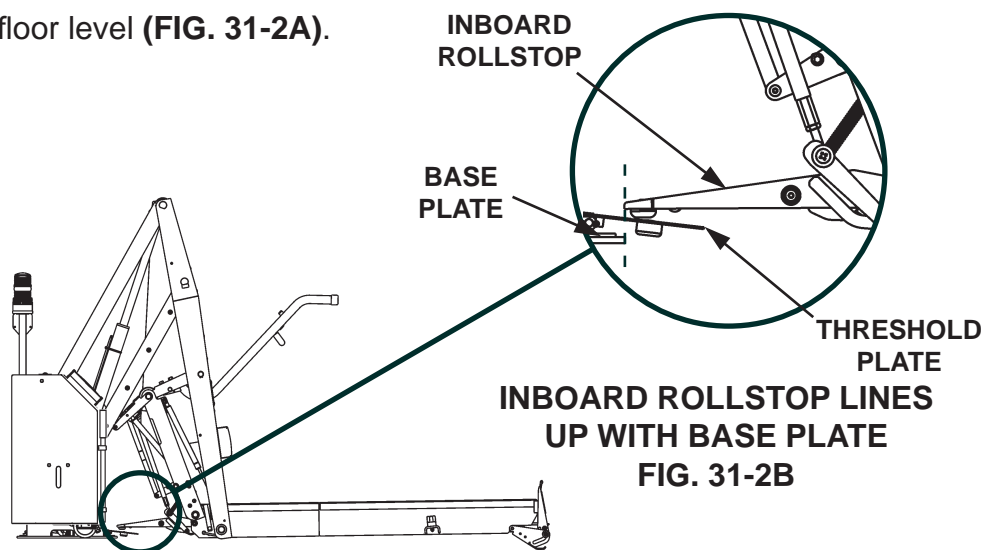
## LOWERING SWITCH FINE ADJUSTMENT

1. Use the Hand Control to lower Platform below floor level until Inboard Rollstop is up and locked (**FIG. 31-1**).



**PLATFORM BELOW  
FLOOR LEVEL  
FIG. 31-1**

2. Raise Platform to floor level (**FIG. 31-2A**).



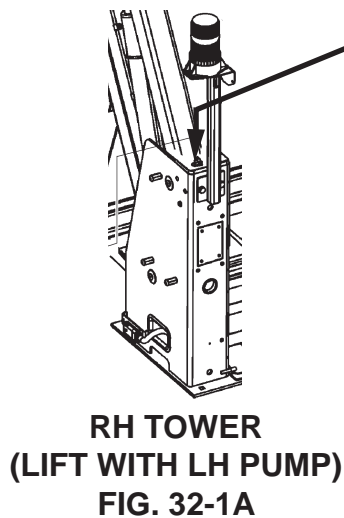
**PLATFORM AT FLOOR LEVEL  
(LH SIDE SHOWN)  
FIG. 31-2A**

3. Check if Inboard Rollstop rests on Threshold Plate (**FIG. 31-2B**) and lines up with edge of Base Plate approximately as shown in **FIG. 31-2B**.

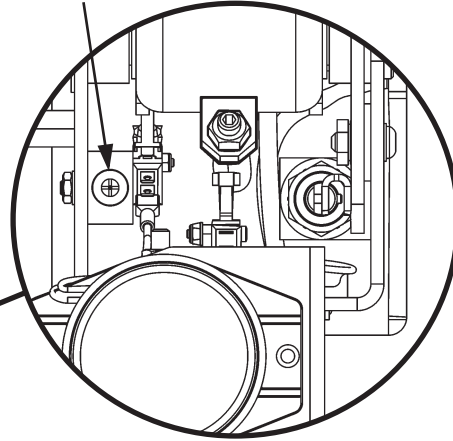
**INBOARD ROLLSTOP LINES  
UP WITH BASE PLATE  
FIG. 31-2B**

## FOLD SWITCH & LOWERING SWITCH ADJUSTMENTS - Continued

4. Adjust the Inboard Rollstop landing position on the Threshold Plate, by turning adjustment screw (**FIG. 32-1B and 32-2**). Turn screw 1/16 or 1/8 turn after you lower Platform below floor level and then raise it back to floor level. At floor level, the Inboard Rollstop should land and line up as shown in (**FIG. 31-2B**).



**ADJUSTMENT  
SCREW**



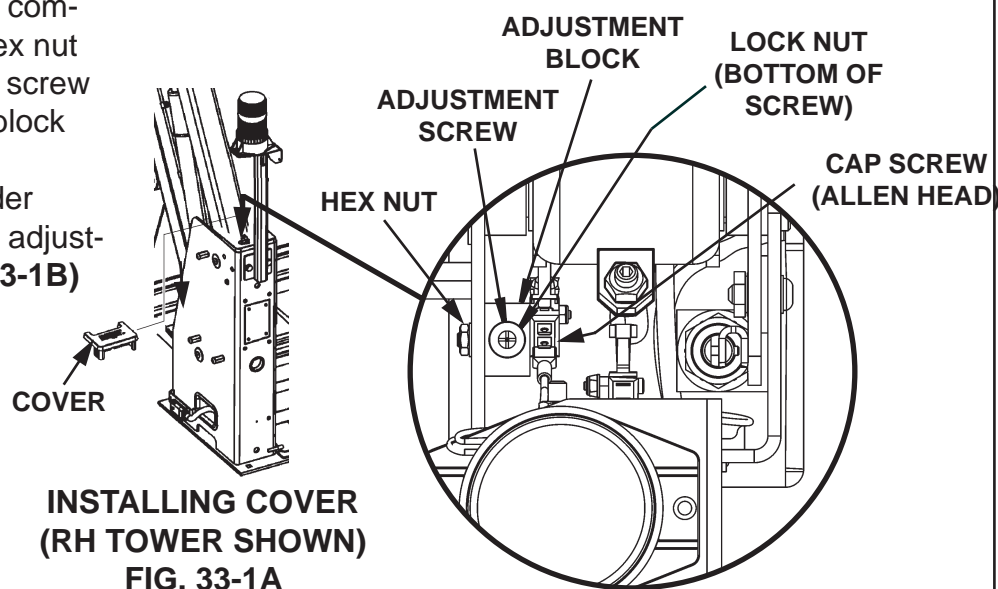
**TURNING ADJUSTMENT SCREW  
FIG. 32-2**

**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



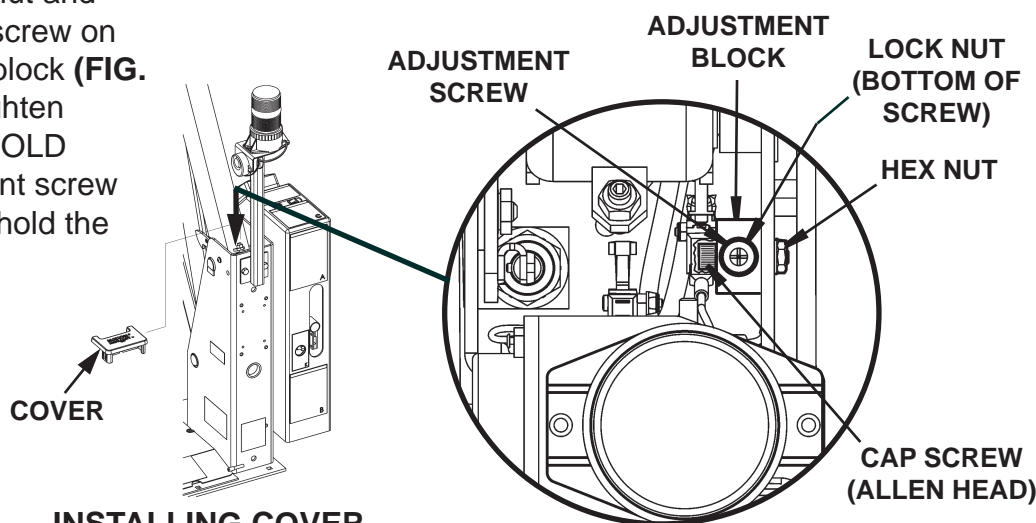
5. When adjustment is complete, tighten the hex nut and allen head cap screw on the adjustment block (**FIG. 33-1B**). Then tighten lock nut under LOWERING switch adjustment screw (**FIG. 33-1B**) to hold the setting.



**INSTALLING COVER  
(RH TOWER SHOWN)  
FIG. 33-1A**

**LOWERING SWITCH ADJUSTMENT SCREW  
FIG. 33-1B**

6. Tighten the hex nut and allen head cap screw on the adjustment block (**FIG. 33-2B**). Then tighten lock nut under FOLD switch adjustment screw (**FIG. 33-2B**) to hold the setting.



**INSTALLING COVER  
(LH TOWER SHOWN)  
FIG. 33-2A**

**FOLD SWITCH ADJUSTMENT SCREW  
FIG. 33-2B**

7. Reinstall cover on each tower (**FIG. 33-1A and FIG. 33-2A**).

## INBOARD SWITCH ADJUSTMENT

**NOTE:** Do this procedure if structure of the Lift is undamaged and:

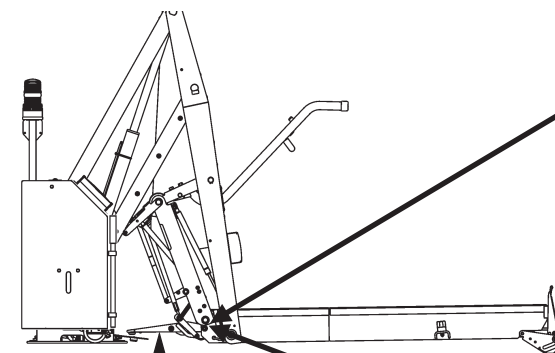
- The Controller reads **"STOW SW"** when Inboard Rollstop is locked in the up position.
- Inboard Switch is removed & replaced.

The adjustment is done correctly if:

- The Controller does not read **"STOW SW"** when the Inboard Rollstop is locked in the up position.

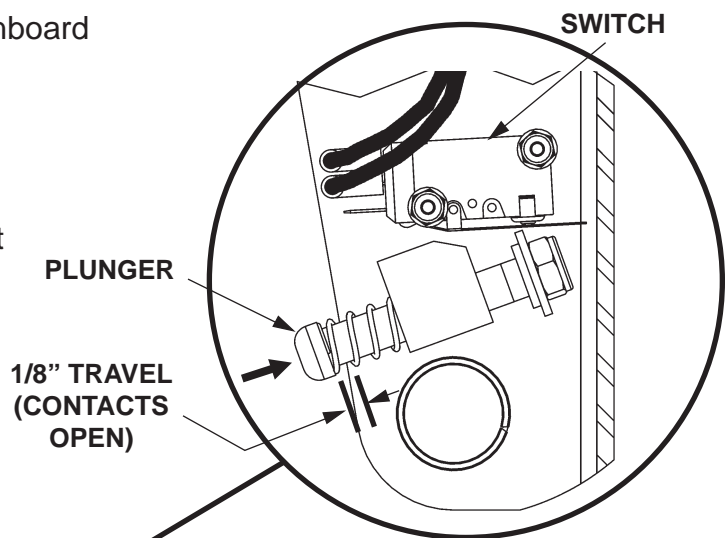
1. Position the Lift at floor level so the Inboard Rollstop is open (**FIG. 34-1A**).

2. The correct indication for switch is: With plunger pushed 1/8" (**FIG. 34-1B**), switch activates with a "click" and contacts are closed. Switch must remain activated beyond the 1/8" of travel and plunger must always operate smoothly. If plunger requires less or more distance than 1/8" (to activate switch), do step 3.

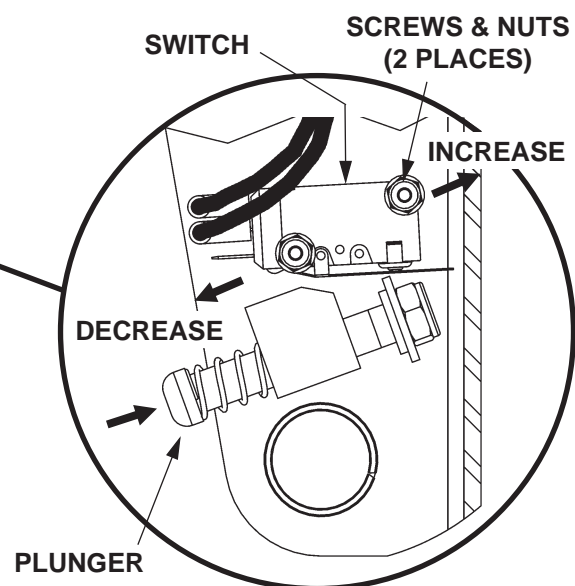


INBOARD ROLLSTOP  
(SHOWN OPEN)

LIFT AT FLOOR LEVEL  
(LH SIDE SHOWN)  
FIG. 34-1A



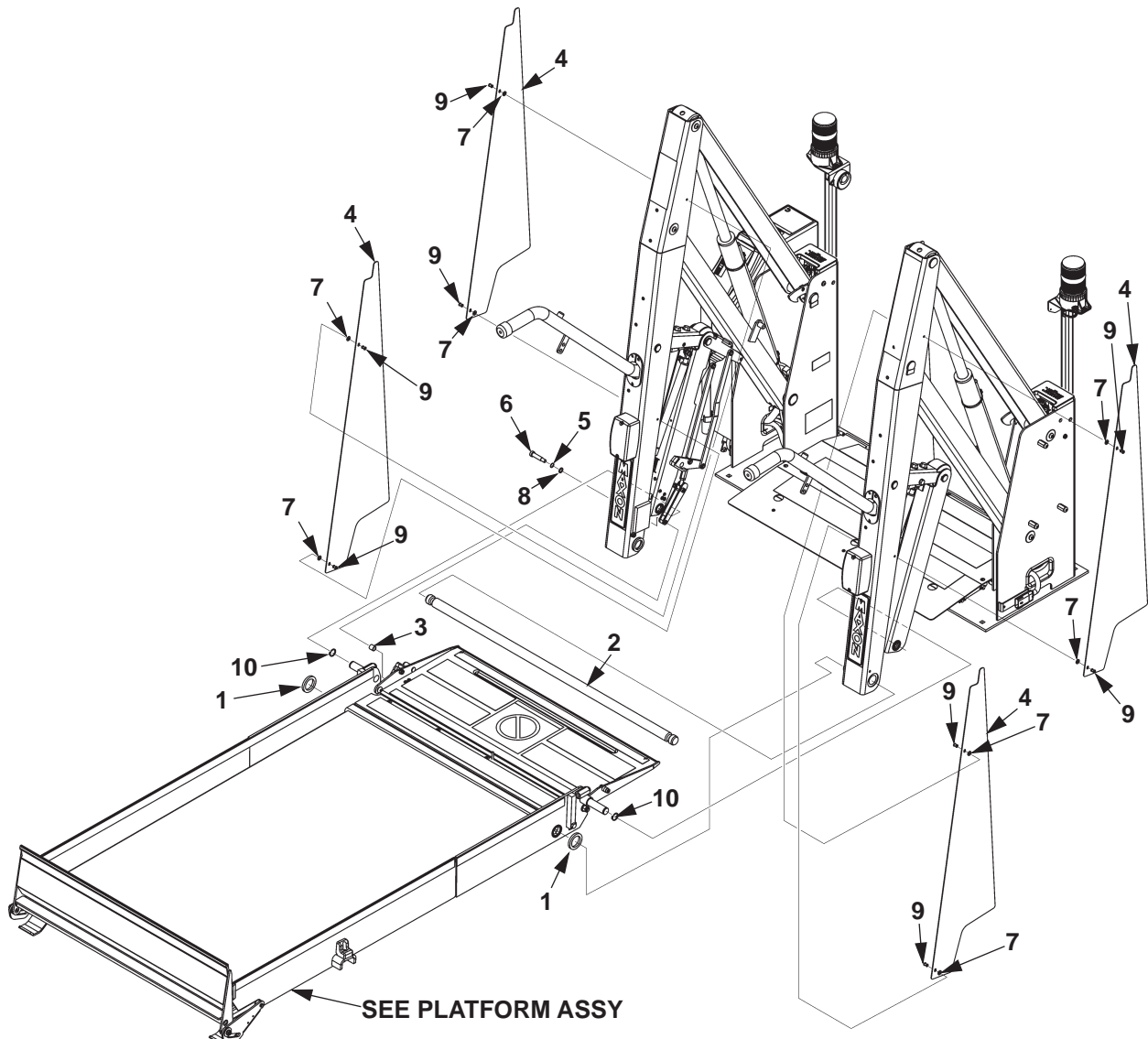
PLUNGER TRAVEL  
FIG. 34-1B



ADJUSTING SWITCH  
FIG. 34-1C

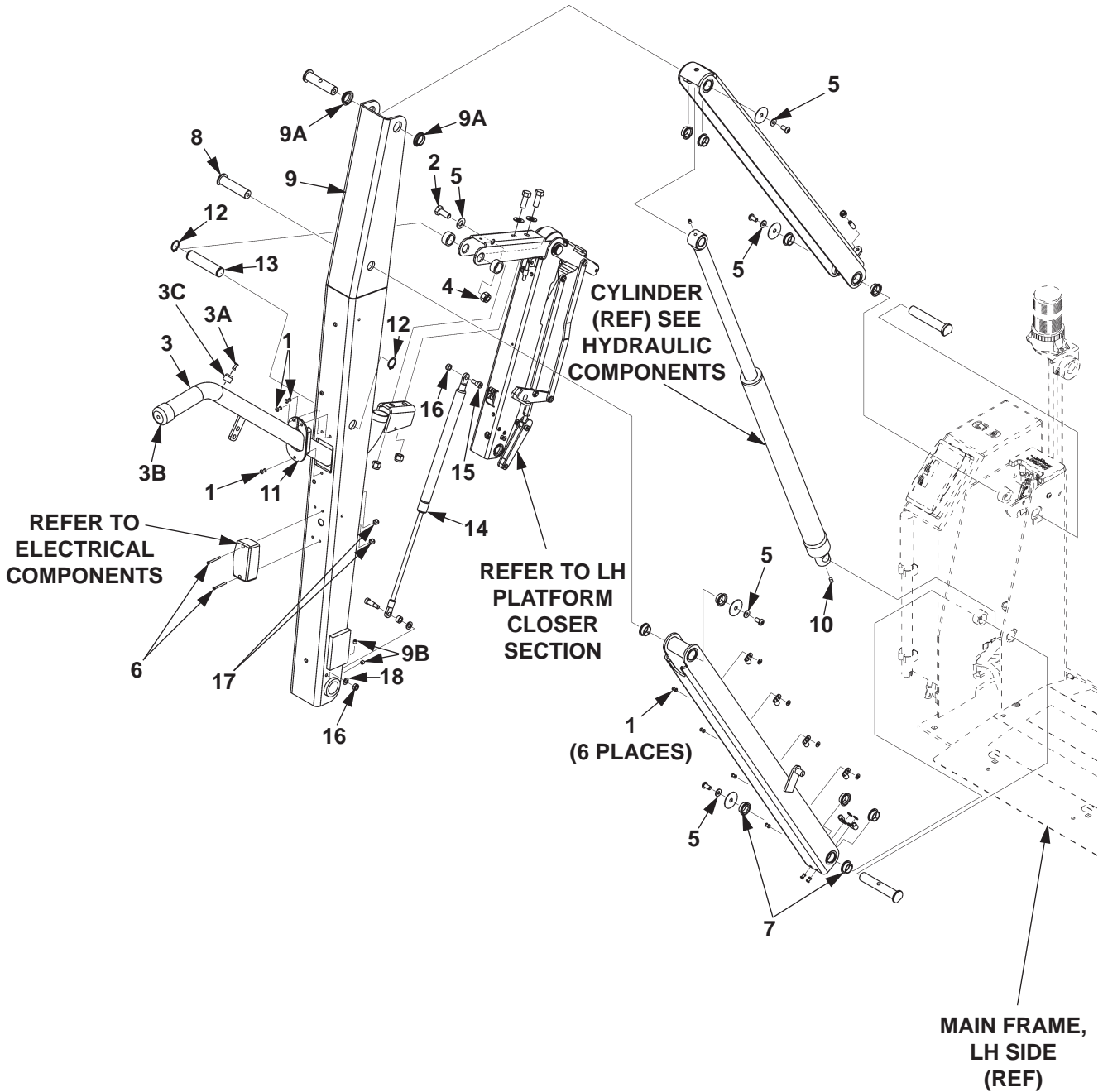
3. Loosen switch attaching screws and nuts. Next move switch (**FIG. 34-1C**) to increase or decrease the plunger travel needed to close switch contacts. Tighten switch attaching screws and nuts. Then repeat steps 2 and 3 until switch activates correctly.

## PARTS BREAKDOWN MAIN ASSEMBLY-1



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	261321	SPACER
2	1	265038-03	SHAFT, 36" LG. (FOR 30" WIDE PLATFORM)
		265038-04	SHAFT, 39" LG. (FOR 33" WIDE PLATFORM)
		265038-05	SHAFT, 40" LG. (FOR 34" WIDE PLATFORM)
3	1	266545-08	BEARING, 3/8" ID X 1/2" LG
4	4	267110-01	PINCH SHIELD, PLASTIC
5	1	267592-02	SPRING (WASHER), WAVE, 3/8" ID
6	1	900723-07	SHOULDER SCREW, 3/8" X 1-1/4" LG.
7	8	902000-5	FLAT WASHER, #10
8	1	903402-08	FLAT WASHER, 3/8"
9	8	904002-2	RIVET, 3/16" DIA. X 9/16" LG.
10	2	905005	RETAINING RING, 3/4"

## MAIN ASSEMBLY-2

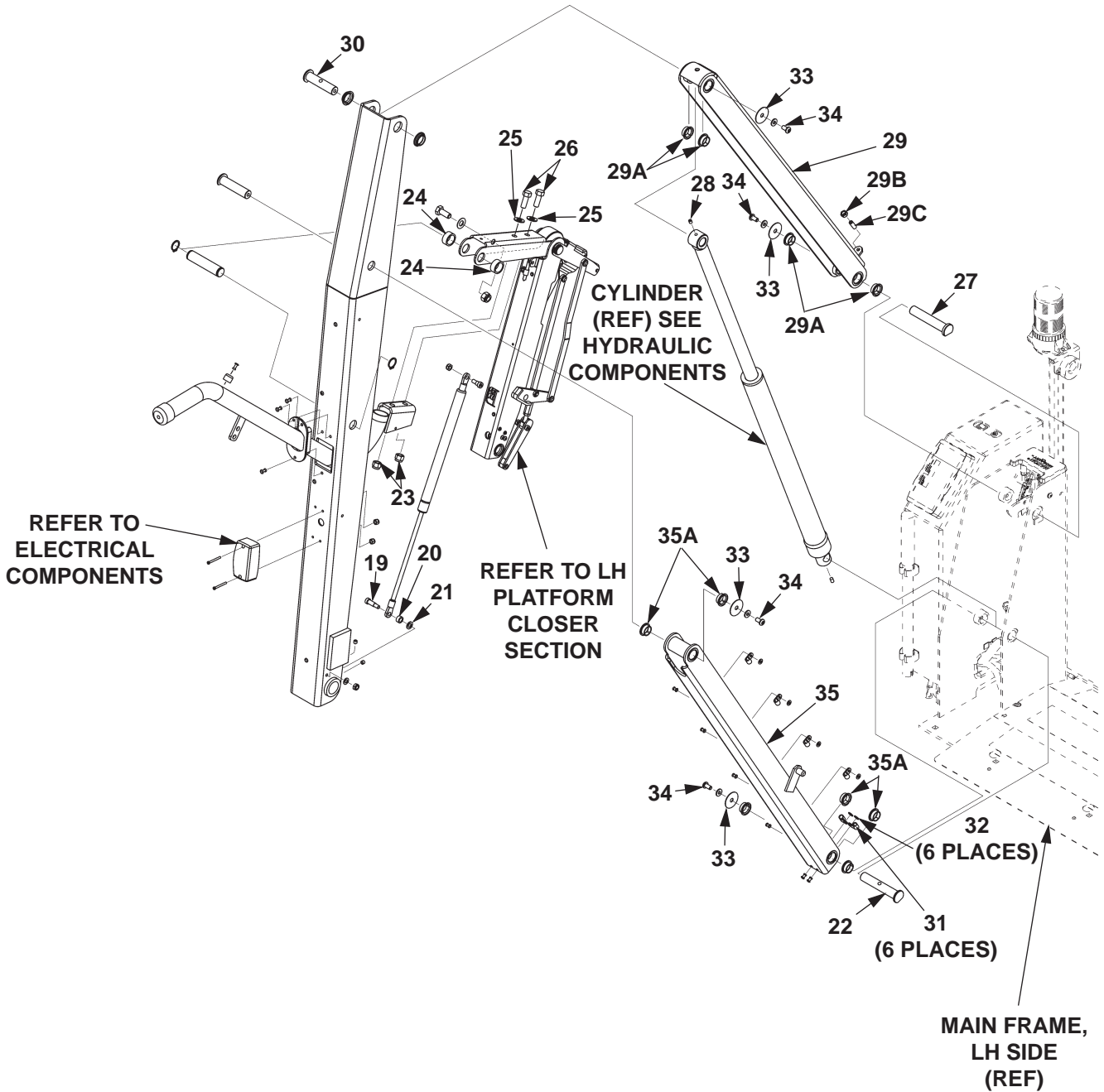


**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

		PART NO.	DESCRIPTION
1	9	904002-2	RIVET, 3/16" DIA X 0.55" LG.
2	2	900009-3	CAP SCREW, 5/16"-18 X 3/4" LG, GRADE 8
3	1	266755-01	HANDRAIL ASSEMBLY, LH
3A	1	904004-3	RIVET, 5/32" DIA X 0.550" LG.
3B	1	905019	CAP
3C	1	905314-01	BUMPER
4	1	901001	LOCK NUT, 5/16"-18
5	5	902000-7	FLAT WASHER, 5/16"
6	2	900023-11	PAN HEAD SCREW, #8-32 X 2" LG.
7	2	265072	SELF LUBE BEARING
8	1	266642-01	PIN, LOWER ARM-VERTICAL ARM
9	1	267115-01	VERTICAL ARM ASSEMBLY, LH (COMES WITH BEARINGS, SET SCREWS, & CABLE TIE HOLDERS)
9A	2	265017	SELF LUBE BEARING
9B	2	903004-1	SET SCREW, 3/8"-16 X 3/8" LG.
10	1	903002-1	SET SCREW 1/4"-20 X 1/2" LG.
11	1	266961-01	COVER, VERTICAL ARM - HANDRAIL
12	2	905005	RETAINING, RING, 3/4"
13	1	266644-01	PIN
14	1	266960-02	GAS SPRING, 130 LBS PRESSURE
15	1	900062-1	SHOULDER SCREW, 5/16" DIA. X 1/4" LG.
16	2	901016-2	LOCK NUT, 1/4", THIN HEAD
17	2	901006	LOCK NUT, #8-32
18	1	902000-2	FLAT WASHER, 1/4"

## MAIN ASSEMBLY-2 - Continued

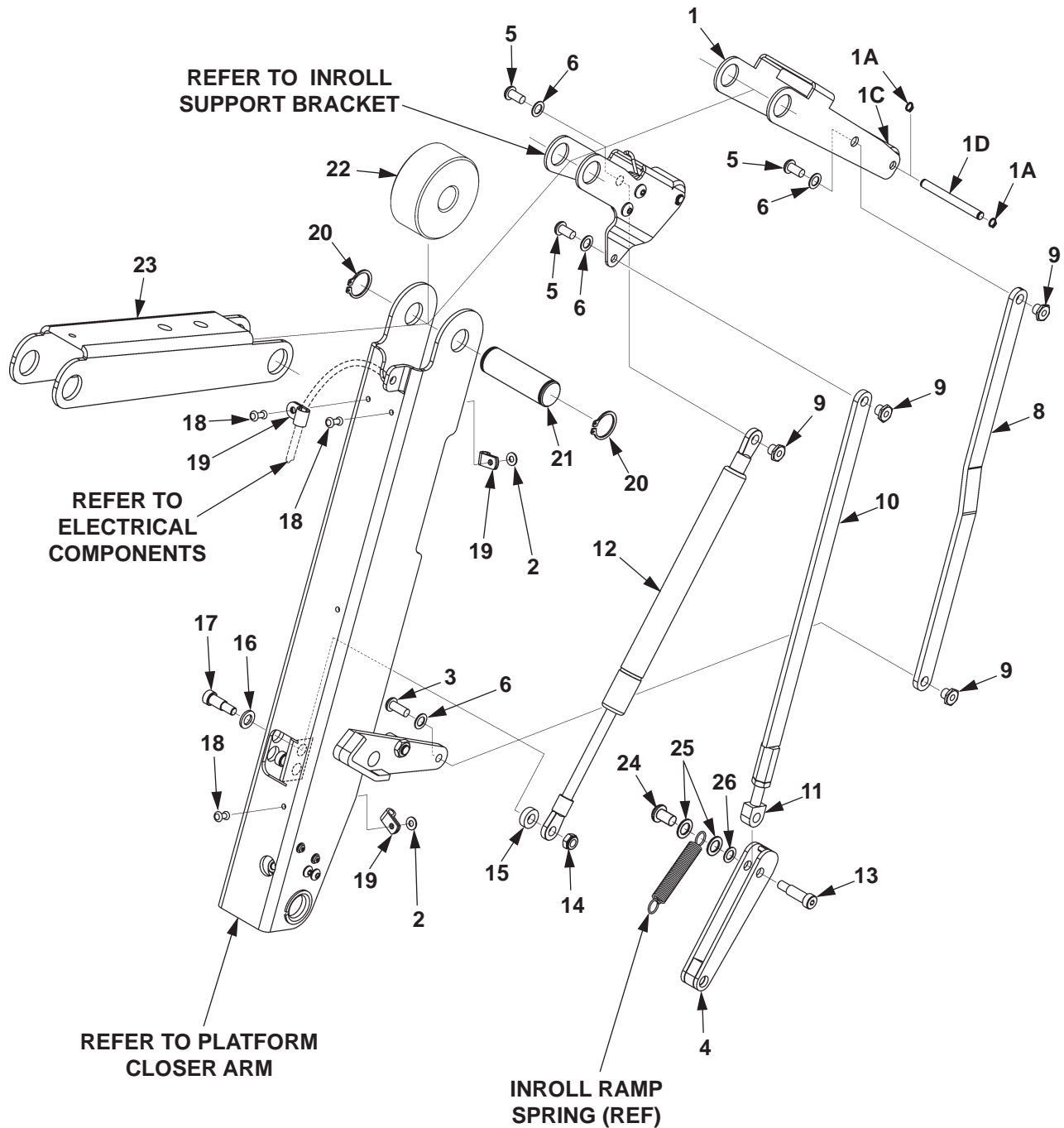


**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

ITEM	QTY.	PART NO.	DESCRIPTION
<b>19</b>	1	900062-4	SHOULDER SCREW, 5/16" DIA. X 5/8" LG.
<b>20</b>	1	905009-01	SPACER, NYLON, 1/4"
<b>21</b>	1	902000-8	FLAT WASHER, 5/16"
<b>22</b>	1	266641-02	PIN, LOWER ARM-TOWER
<b>23</b>	2	901002	LOCK NUT, 3/8"-16
<b>24</b>	2	266596-01	SPACER
<b>25</b>	2	902013-11	FLAT WASHER, 3/8"
<b>26</b>	2	900014-4	CAP SCREW, 3/8"-16 X 1" LG, GRADE 8
<b>27</b>	1	266642-02	PIN, UPPER ARM-TOWER
<b>28</b>	1	903002-7	SET SCREW, 1/4"-20 X 3/8" LG.
<b>29</b>	1	266609-01	UPPER ARM ASSEMBLY (BEARINGS INCLUDED)
<b>29A</b>	4	265072	SELF LUBE BEARING
<b>29B</b>	1	901005	HEX NUT, 5/16"-18, GRADE 8
<b>29C</b>	1	903006-1	SET SCREW, 5/16"-18 X 1" LG.
<b>30</b>	1	266641-01	PIN, UPPER ARM
<b>31</b>	6	905056	CLAMP
<b>32</b>	6	902000-5	FLAT WASHER, #10
<b>33</b>	4	902004-02	FENDER FLAT WASHER, 11/32"
<b>34</b>	4	900001-11	BUTTON SCREW, 5/16"-18 X 5/8" LG.
<b>35</b>	1	266611-01	LOWER ARM ASSEMBLY LH (BEARINGS INCLUDED)
<b>35A</b>	4	265072	SELF LUBE BEARING

# LH PLATFORM CLOSER



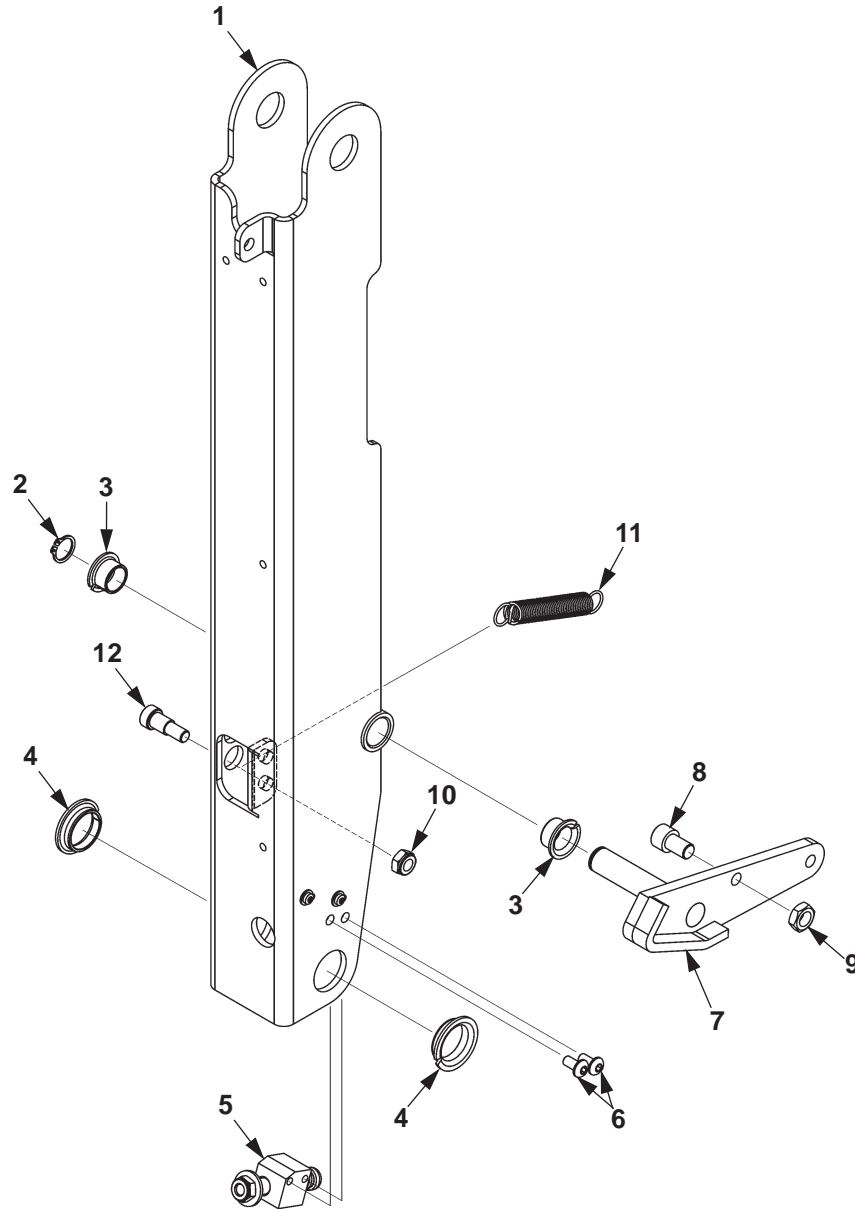
**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	267500-02	INROLL RAMP ARM MAIN ASSY (LH PLATFORM CLOSER)
1	1	267552-01	INROLL LOCK BRACKET ASSEMBLY
1A	2	905004-01	RETAINING RING, 1/4"
1B	1	267577-02	PIN, 1/4" X 2-13/32" LG.
1C	1	267450-02	ROLLER, 2-1/8" LG.
2	2	902000-4	FLAT WASHER, #8
3	1	900719-04	BUTTON SCREW, 1/4"-20 X 5/8" LG.
4	1	267498-01	LOWER LINK WELDMENT
5	3	900719-03	BUTTON SCREW, 1/4"-20 X 1/2" LG.
6	4	903402-07	FLAT WASHER
7	1	267589-01	SHOULDER WASHER, 1/4" X 1/8"
8	1	267561-01	INROLL RAMP LOCK LINK
9	4	266719-03	NUT, SWIVEL 1/2" HEX, THIN, 1/4" LG.
10	1	267551-01	LINK WELDMENT
11	1	267550-01	ROD END, 5/16" X 2" LG . (THREADED 5/16"-18)
12	1	267423-01	GAS SPRING
13	1	900727-05	SHOULDER SCREW, 5/16" X 3/4" LG.
14	1	901016-2	THIN HEX NUT, 1/4"-20
15	1	267482-01	SPACER
16	1	902000-8	FLAT WASHER, 5/16"
17	1	900062-3	SHOULDER SCREW, 5/16" X 1/2" LG.
18	3	904004-3	RIVET, 5/32" DIA X .550" LG.
19	3	906414-01	CABLE CLAMP
20	2	905005	RETAINING, RING, 3/4"
21	1	265036	PIN, 2-3/8" LG.
22	1	266626-01	ROLLER
23	1	266616-01	BRACKET KNUCKLE SUPPORT
24	1	267453-011	BARREL NUT, 1/4"-20 X 3/4" LG.
25	2	903402-10	FLAT WASHER, NYLON, 11/32" ID X 7/8" OD
26	1	903412-01	FLAT WASHER, 1/4" STAINLESS STEEL

## PLATFORM CLOSER ARM

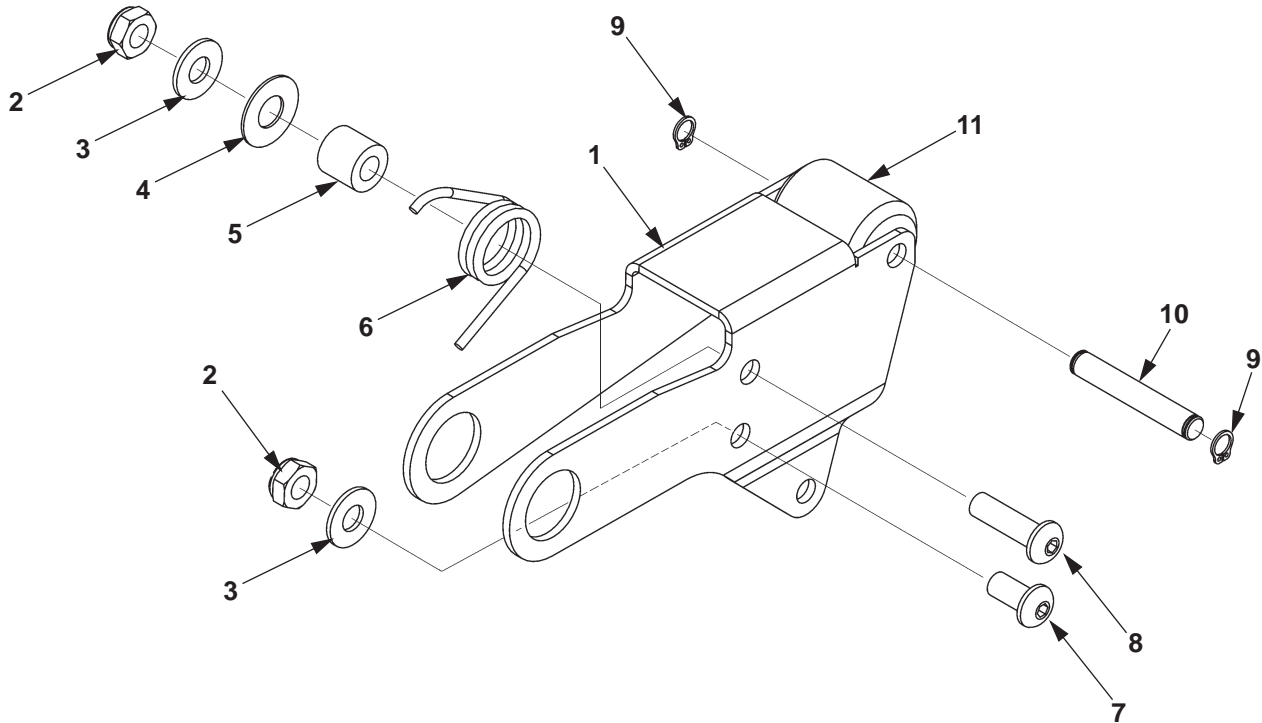


**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267622-01	PLATFORM CLOSER ARM ASSEMBLY
2	1	905004-02	RETAINING RING, 1/2"
3	2	908062-06	SELF LUBE BEARING
4	2	265017	SELF LUBE BEARING
5	1	267621-01	SWITCH/SPRING, ASSEMBLY
6	2	900722-02	BUTTON SCREW, 10-24 X 3/8" LG.
7	1	267565-02	INROLL LOCK WELDMENT
8	1	900726-02	CAP SOCKET SCREW, 5/16" X 1/2" LG.
9	1	903114-01	HEX NUT, 5/16"-18
10	1	901016-2	HEX NUT, 1/4"-20
11	1	267479-01	INROLL RAMP SPRING
12	1	900062-4	SHOULDER SCREW, 5/16" X 5/8" LG.

## INROLL SUPPORT BRACKET



**MAXON®**

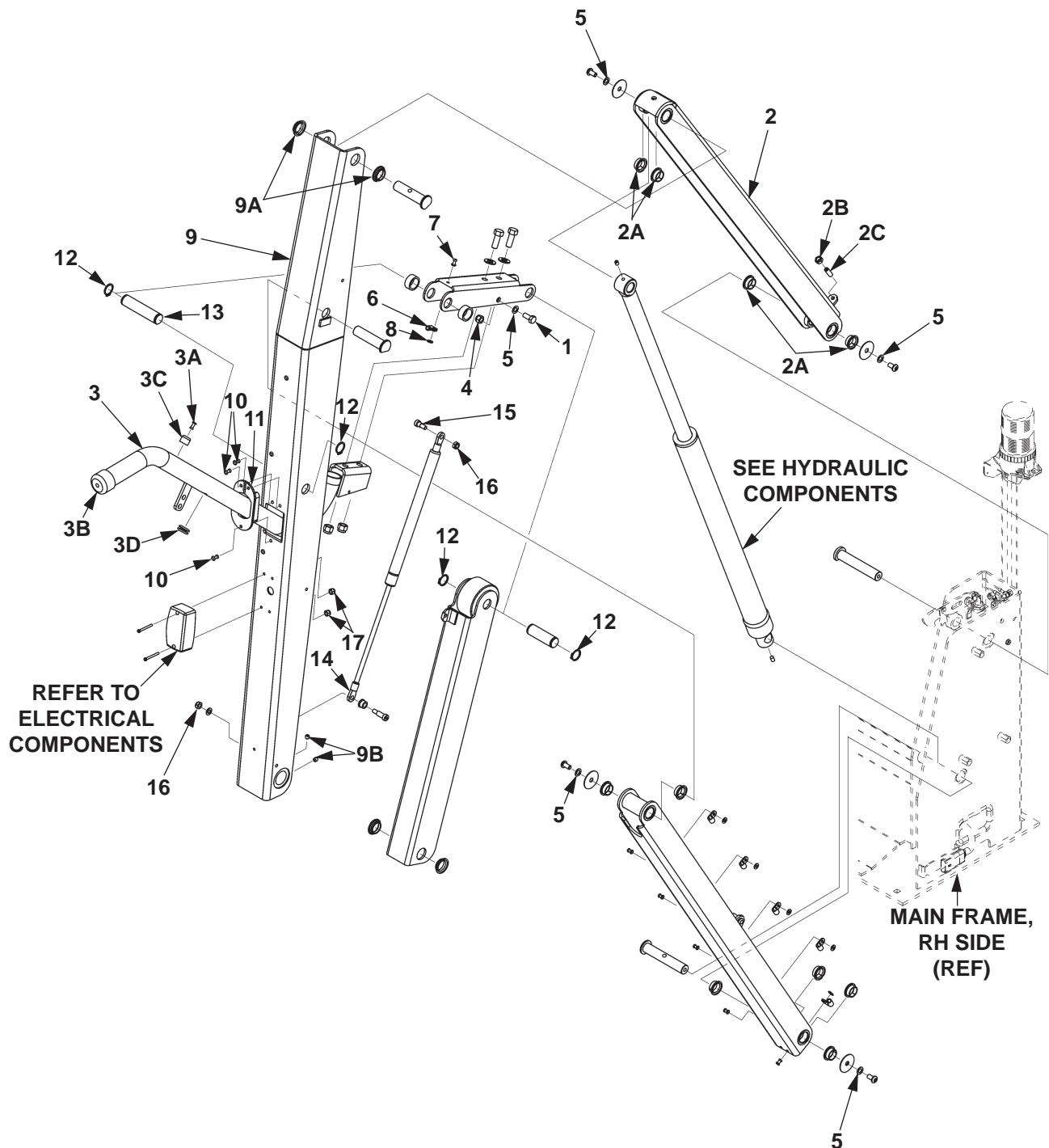
11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267549-01	INROLL SUPPORT BRACKET
2	2	901016-2	HEX NUT, 1/4"-20
3	2	903409-01	WASHER
4	1	903402-02	FLAT WASHER
5	1	267456-01	LOCK SPRING PIN
6	1	267560-01	LOCK SPRING
7	1	900719-03	BUTTON SCREW, 1/4"-20 X 1/2" LG.
8	1	900719-06	BUTTON SCREW, 1/4"-20 X 7/8" LG.
9	2	905004-01	RETAINING RING, 1/4"
10	1	267577-01	ROLLER PIN, 1/4" X 1-1/2" LG.
11	1	267450-01	INROLL RAMP ROLLER

**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

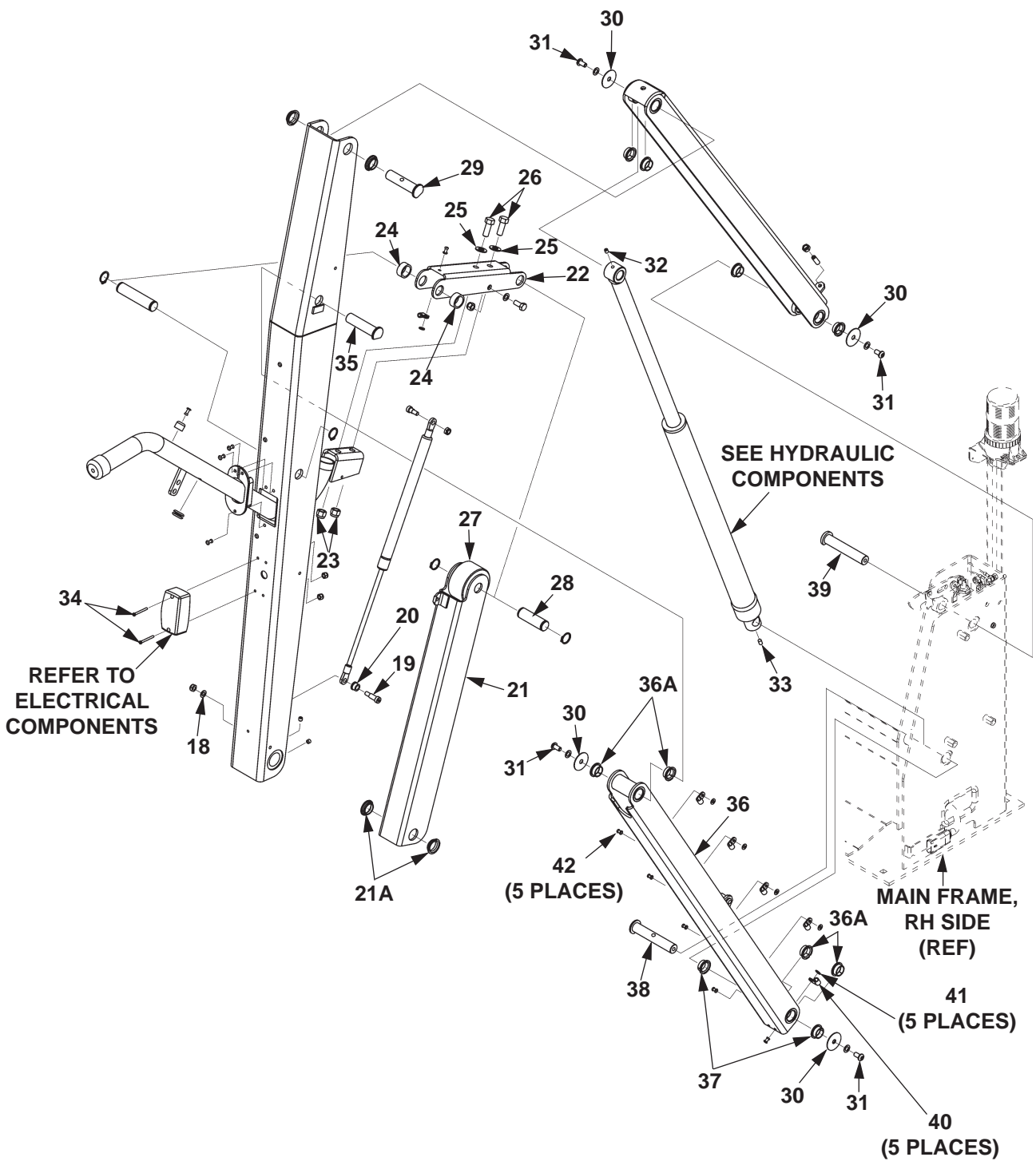
## MAIN ASSEMBLY-3



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	900009-3	CAP SCREW, 5/16"-18 X 3/4" LG, GRADE 8
2	1	266609-01	UPPER ARM ASSEMBLY (BEARINGS INCLUDED)
2A	4	265072	SELF LUBE BEARING
2B	1	901005	HEX NUT, 5/16"-18, GRADE 8
2C	1	903006-1	SET SCREW, 5/16"-18 X 1" LG.
3	1	266756-01	HANDRAIL ASSEMBLY RH
3A	1	904004-3	RIVET, 5/32" DIA. X 0.550" LG.
3B	1	905019	CAP
3C	1	905314-01	BUMPER
3D	1	908066-01	GROMMET
4	3	901001	LOCK NUT, 5/16"-18
5	7	902000-7	FLAT WASHER, 5/16"
6	1	906414-01	CABLE CLAMP
7	1	904004-3	RIVET, 5/32" DIA. X 0.550" LG.
8	1	902000-4	FLAT WASHER, #8
9	1	267115-02	VERTICAL ARM ASSEMBLY, RH (COMES WITH BEARINGS, SET SCREWS, & CABLE TIE HOLDERS)
9A	2	265017	SELF LUBE BEARING
9B	2	903004-1	SET SCREW, 3/8"-16 X 3/8" LG.
10	3	904004-2	RIVET, 3/16" DIA. X 0.565" LG.
11	1	266961-01	COVER, VERTICAL ARM - HANDRAIL
12	4	905005	RETAINING RING, 3/4"
13	1	266644-01	PIN
14	1	266960-02	GAS SPRING, 130 LBS. PRESSURE
15	1	900062-1	SHOULDER SCREW, 5/16" DIA. X 1/4" LG.
16	2	901016-2	LOCK NUT, 1/4", THIN HEAD
17	2	901006	LOCK NUT, #8-32

# MAIN ASSEMBLY-3 - Continued

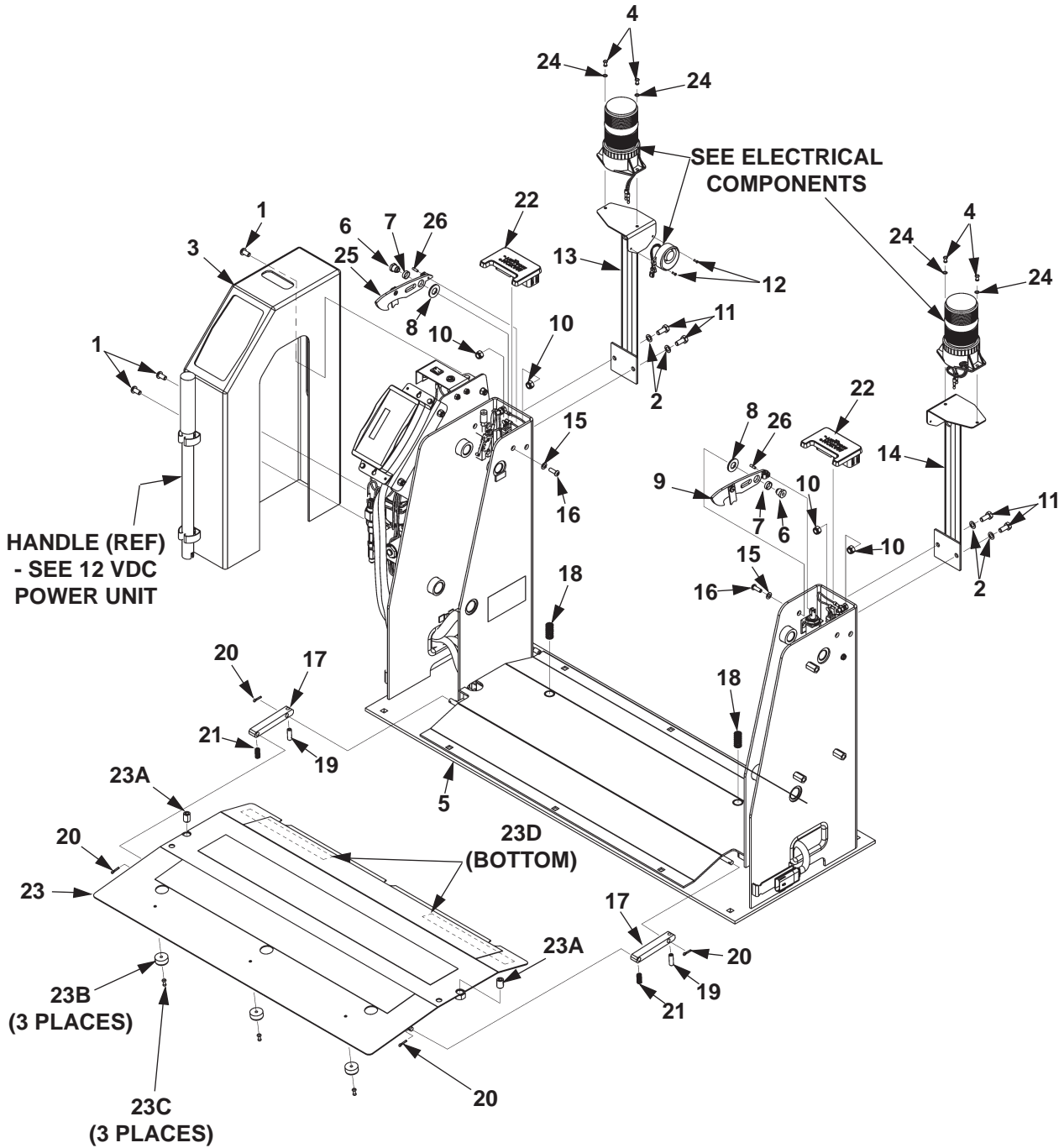
**MAXON®** 11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713





ITEM	QTY.	PART NO.	DESCRIPTION
18	1	902000-2	FLAT WASHER, 1/4"
19	1	900062-4	SHOULDER SCREW, 5/16" DIA. X 5/8" LG.
20	1	905009-01	SPACER, NYLON, 1/4"
21	1	266625-01	ARM ASSEMBLY, PLATFORM CLOSER, RH
21A	2	265017	SELF LUBE BEARING
22	1	266616-01	BRACKET KNUCKLE SUPPORT
23	2	901002	LOCK NUT, 3/8"-16
24	2	266596-01	SPACER
25	2	902013-11	FLAT WASHER, 3/8"
26	2	900014-4	CAP SCREW, 3/8"-16 X 1" LG, GRADE 8
27	1	266626-01	ROLLER
28	1	265036	PIN, 2-3/8" LG.
29	1	266641-01	PIN, UPPER ARM
30	4	902004-2	FENDER FLAT WASHER, 11/32"
31	4	900001-11	BUTTON SCREW, 5/16"-18 X 5/8" LG.
32	1	903002-7	SET SCREW, 1/4"-20 X 3/8" LG.
33	1	903002-1	SET SCREW, 1/4"-20 X 1/2" LG.
34	2	900023-11	PAN HEAD SCREW, #8-32 X 2" LG.
35	1	266642-01	PIN, LOWER ARM-VERTICAL ARM
36	1	266611-02	LOWER ARM ASSEMBLY, RH
36A	4	265072	SELF LUBE BEARING
37	2	265072	SELF LUBE BEARING
38	1	266641-02	PIN, LOWER ARM-TOWER
39	1	266642-02	PIN, UPPER ARM-TOWER
40	5	905056	CLAMP
41	5	902000-5	FLAT WASHER, #10
42	5	904002-2	RIVET, 3/16" DIA X 0.55" LG.

## MAIN ASSEMBLY-4

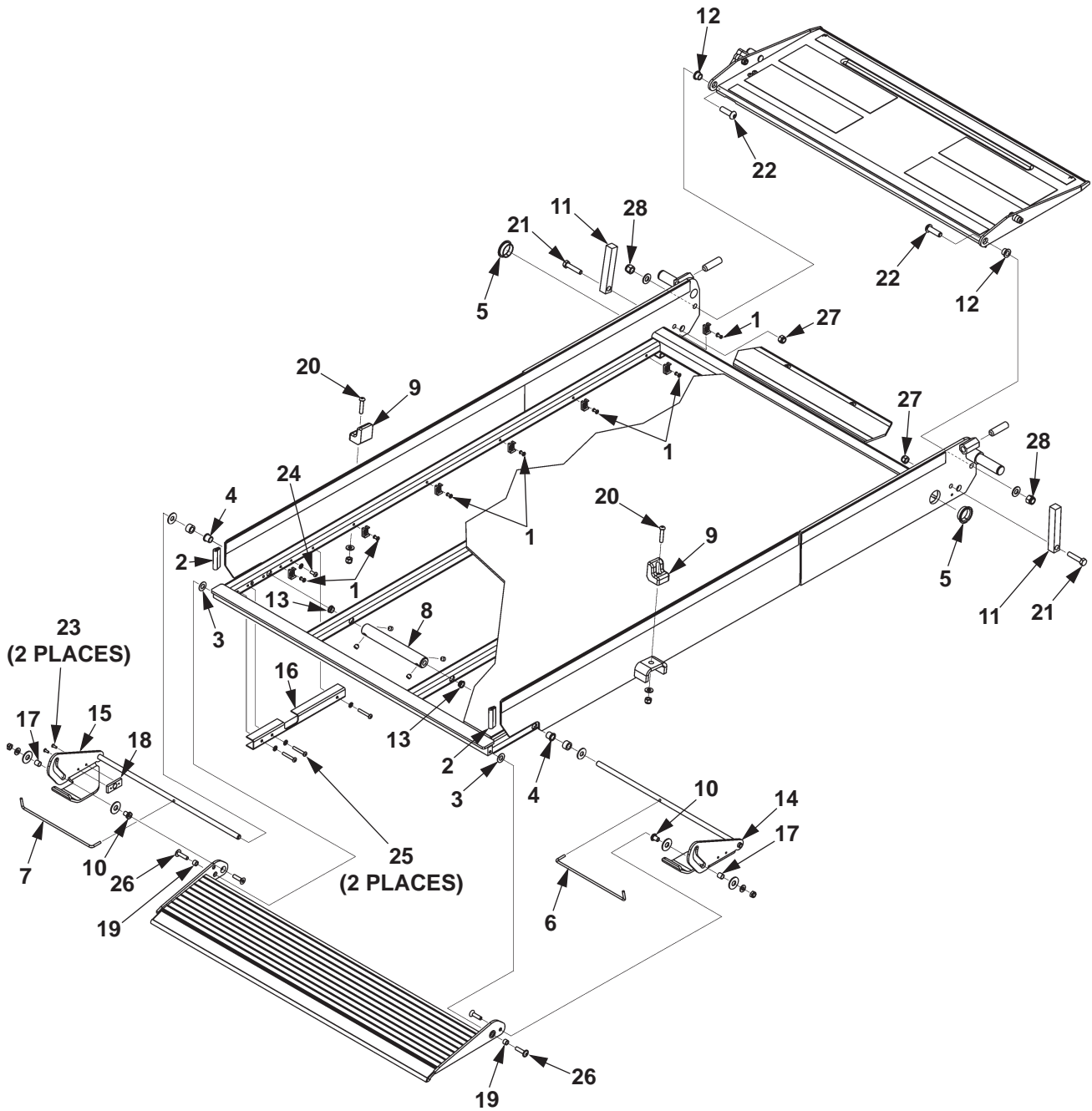


ITEM	QTY.	PART NO.	DESCRIPTION
1	3	900733-02	FLANGE SCREW, 5/16"-18 X 1/2" LG.
2	4	902000-7	FLAT WASHER, 5/16"
3	1	266827-01	COVER ASSEMBLY, LH
		266828-01	COVER ASSEMBLY, RH
4	4	904002-2	RIVET, 3/16" DIA. X 0.565" LG.
5	1	267515-01	MAIN FRAME (FOR 30" WIDE PLATFORM)
		267515-02	MAIN FRAME (FOR 33" WIDE PLATFORM)
		267515-02	MAIN FRAME (FOR 34" WIDE PLATFORM)
6	2	266852-01	LATCH SUPPORT PIN
7	2	908027-01	SLEEVE BEARING, 1/2" I.D.
8	2	902013-13	FLAT WASHER, 1/2"
9	1	266569-02	LATCH ASSEMBLY, RH
10	4	901001	LOCK NUT, 5/16"-18
11	4	900009-3	HEX BOLT, 5/16"-18 X 3/4" LG., GRADE 8
12	2	904000-1	RIVET, BLIND, 1/8" DIA. X 0.390" LG
13	1	266822-01	LIGHT MOUNT BRACKET, LH
14	1	266822-02	LIGHT MOUNT BRACKET, RH
15	2	902000-2	FLAT WASHER, 1/2"
16	2	900005-3	BUTTON SCREW, 1/4"-20 X 3/4" LG.
17	2	267506-01	LINK
18	2	908072-01	SPRING
19	2	903006-1	SET SCREW, 5/16"-18 X 1" LG.
20	4	904704-01	COTTER PIN
21	2	908073-01	SPRING
22	2	267210-01	TOWER COVER
23	1	267510-01	THRESHHOLD PLATE, 30"
		267510-02	THRESHHOLD PLATE, 33"
		267510-03	THRESHHOLD PLATE, 34"
23A	2	267349-02	SET SCREW, 1/2"-20 X 3/4" LG. (WITH VIBRA-TITE)
23B	3	905314-04	BUMPER WITH WASHER
23C	3	904004-3	RIVET, 5/32" DIA. X 0.550" LG.
23D	2	096021-10	RUBBER SEAL, ADHES. BACK, 8" LG.
24	4	902000-5	FLAT WASHER, #10
25	1	266569-01	LATCH ASSEMBLY, LH
26	2	905128-03	ROLL PIN, 1/8" DIA. X 1/2" LG.

# PLATFORM ASSEMBLY

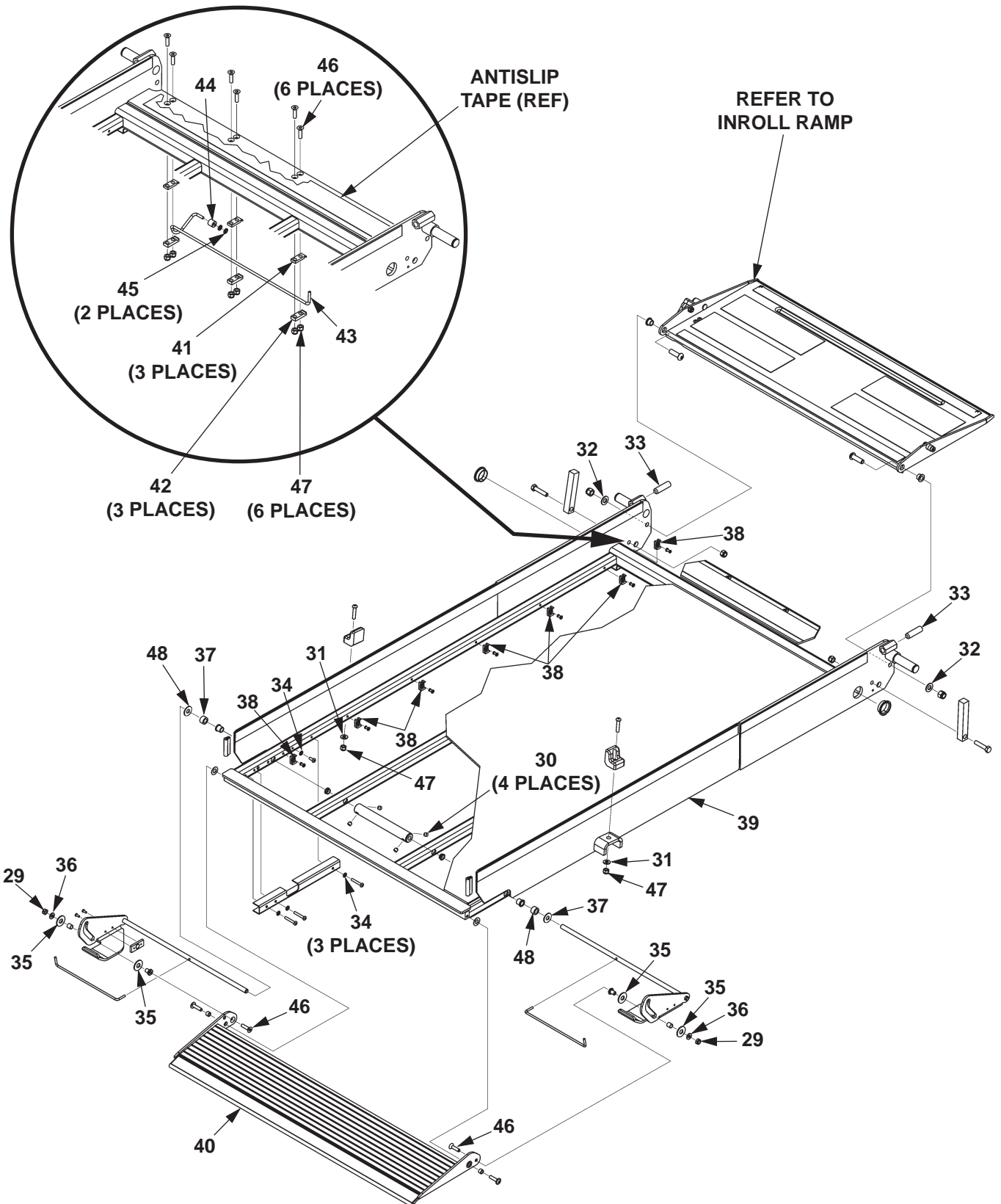
**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



ITEM	QTY.	PART NO.	DESCRIPTION
1	7	904004-3	RIVET, 5/32" DIA. X .550" LG.
2	2	096028-10	TRIM MOLDING
3	2	261314	NYLON WASHER WITH CHAIR
4	2	265057	BUSHING, STOP ACTUATOR
5	2	265062	BEARING SELF LUBE, 1" DIA. X 3/8" LG.
6	1	265063-01	TORSION SPRING, RH
7	1	265063-02	TORSION SPRING, LH
8	1	266311-01	COLLAR STOP ACTUATOR
9	2	266623-01	PLATFORM STOP
10	2	266719-02	SWIVEL HEX NUT, 1/2" (THIN HEAD)
11	2	266725-01	PLATFORM ADJUSTER STRIKER
12	2	266893-03	FLANGE BEARING, 3/8" ID X 3/4" LG.
13	2	267172-06	SNAP-IN BEARING, 7/16"
14	1	267454-01	SKI, WELDMENT, RH
15	1	267454-02	SKI, WELDMENT, LH
16	1	267481-01	COVER, MAGNETIC SENSORS
17	2	267487-02	BEARING, SLEEVE, 3/8" OD X 3/8" LG. (SS)
18	1	267488-01	MAGNET ASSY, OUTBOARD ROLLSTOP LOCK
19	2	267487-01	BEARING, SLEEVE, 3/8" OD X 1/4" LG. (SS)
20	2	900005-5	BUTTON SCREW, 1/4"-20 X 1-1/4" LG.
21	2	900009-6	CAP SCREW, 5/16"-18 X 1-1/2" LG.
22	2	900064-06	BUTTON SCREW, 3/8"-16 X 1-1/4" LG.
23	2	900713-05	BUTTON SCREW, 6-32 X 3/8" LG.
24	1	900722-03	BUTTON SCREW, 10-24 X 1/2" LG.
25	3	900722-08	BUTTON SCREW, 10-24 X 1-1/4" LG.
26	2	900013-2	BUTTON HEAD SCREW, 5/16"-18 X 3/4" LG.
27	2	901001	LOCK NUT, 5/16"-18
28	2	901002	LOCK NUT, 3/8"-16

## PLATFORM ASSEMBLY - Continued

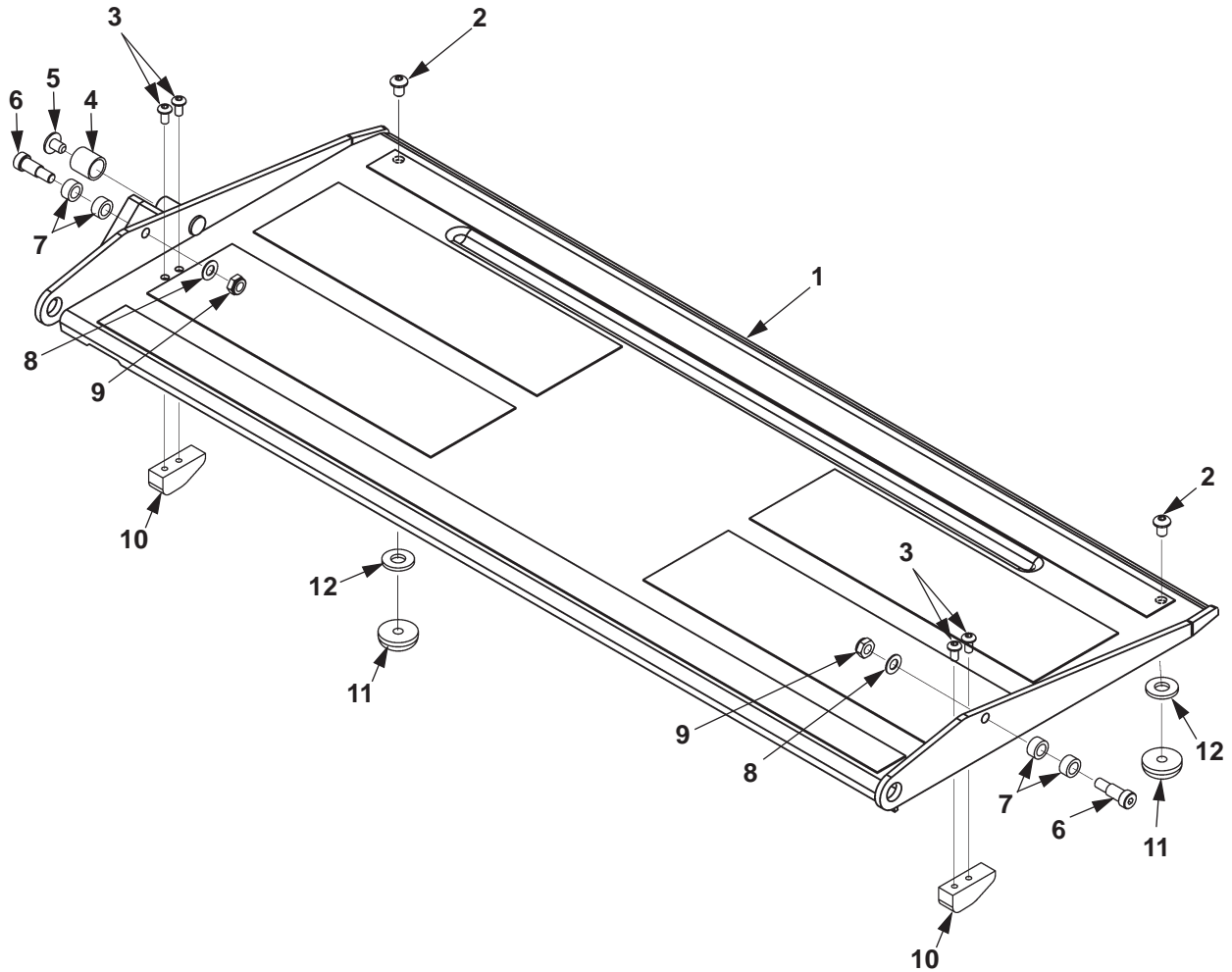


**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

ITEM	QTY.	PART NO.	DESCRIPTION
29	2	901016-2	LOCK NUT, THIN HEAD, 1/4"-20
30	4	901200-01	SET SCREW, CONE PT, 5/16"-24 X 5/16" LG.
31	2	902013-09	FLAT WASHER, 1/4"
32	2	902013-11	FLAT WASHER, 3/8"
33	2	903010-01	SET SCREW, SELF-LOCKING, CUP PT, 1/2"-20
34	4	903401-01	WASHER, EXTERNAL TOOTH, 3/16"
35	4	903402-11	FLAT WASHER, NYLON, .41" ID X 1" OD
36	2	903412-01	FLAT WASHER, 1/4", SS
37	2	905016-03	SPACER, NYLON .39" ID X 3/8" LG.
38	7	905070-01	CABLE TIE HOLDER, 2-WAY, HEAVY DUTY
39	1	267460-01	PLATFORM, 30" WIDE
		267460-02	PLATFORM, 33" WIDE
		267460-03	PLATFORM, 34" WIDE
40	1	267475-01	OUTBOARD ROLLSTOP, 30" WIDE
		267475-02	OUTBOARD ROLLSTOP, 33" WIDE
		267475-03	OUTBOARD ROLLSTOP, 34" WIDE
41	3	267554-01	UPPER TORSION SPRING BLOCK
42	3	267555-01	LOWER TORSION SPRING BLOCK
43	1	267574-01	TORSION SPRING, INROLL RAMP
44	1	267576-01	TORSION SPRING ROLLER
45	1	267587-01	PUSH RETAINER, 3/16" DIA. SHAFT
46	8	900044-6	SOCKET SCREW, 1/4"-20 X 1" LG.
47	8	901000	LOCK NUT, 1/4"-20
48	2	903402-09	FLAT WASHER, NYLON, 3/8" ID X 3/4" OD

## INROLL RAMP (INBOARD ROLLSTOP)



**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

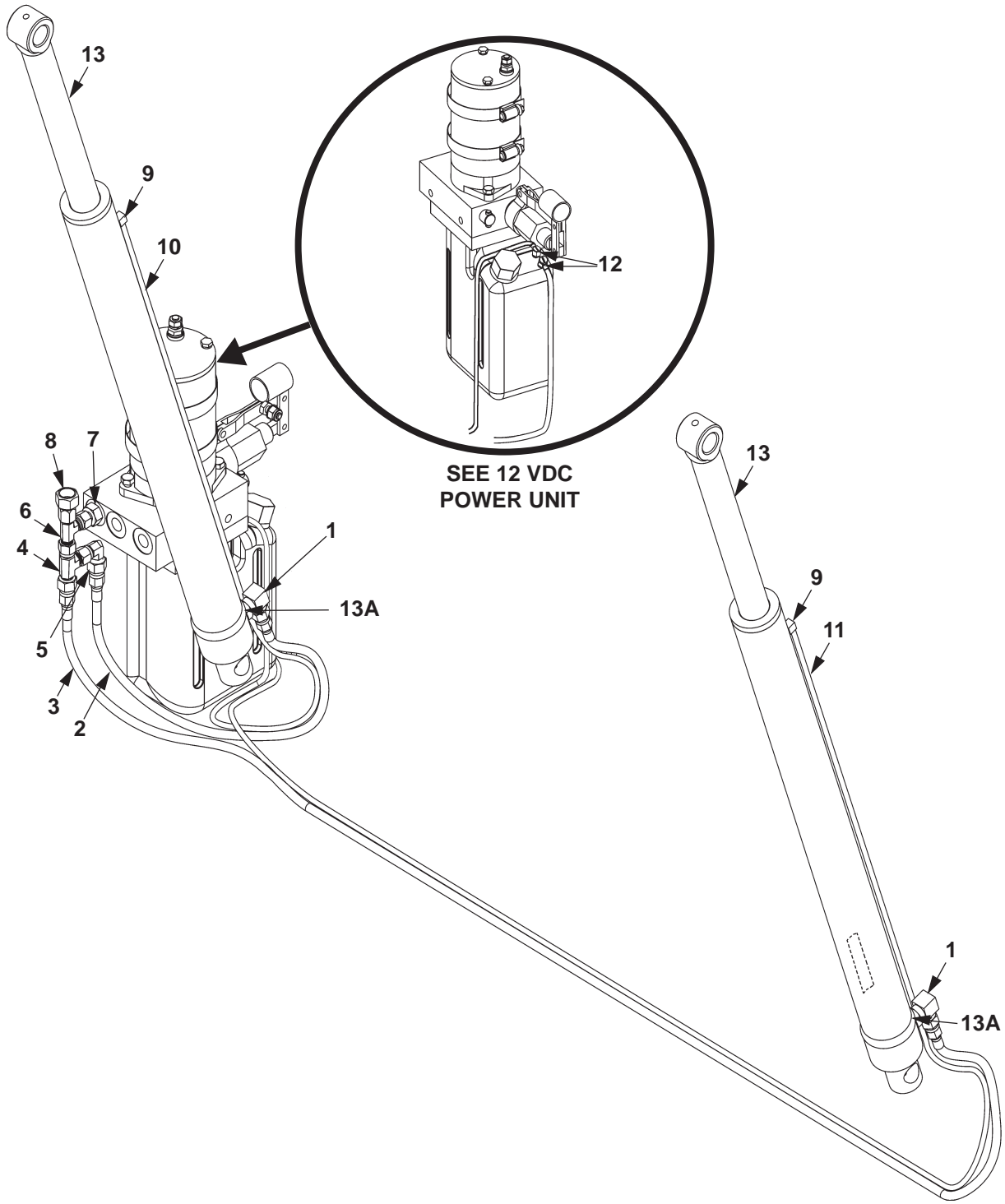


ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267618-01	INROLL RAMP (INBOARD ROLLSTOP), 30" WIDE
		267618-02	INROLL RAMP (INBOARD ROLLSTOP), 33" WIDE
		267618-03	INROLL RAMP (INBOARD ROLLSTOP), 34" WIDE
2	2	900005-1	BUTTON SCREW, 1/4"-20 X 3/8" LG.
3	4	900722-02	BUTTON SCREW, 10-20 X 3/8" LG.
4	1	267465-01	LOCK ROLLER BUSHING
5	1	900725-01	FLANGE SCREW, 1/4"-20 X 3/8" LG.
6	2	900062-3	SHOULDER SCREW, 5/16" X 1/2" LG.
7	4	905009-01	NYLON SPACER, 1/4" LG.
8	2	902000-2	FLAT WASHER, 1/4"
9	2	901016-2	LOCK NUT, THIN, 1/4"-20
10	2	267477-01	SLIDE, INROLL RAMP
11	2	261319	GUIDE, PLATFORM FRONT W/CHAIR
12	2	905323-02	RUBBER WASHER, 3/8" X 13/16" X 15/16" THK

## HYDRAULIC COMPONENTS

**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



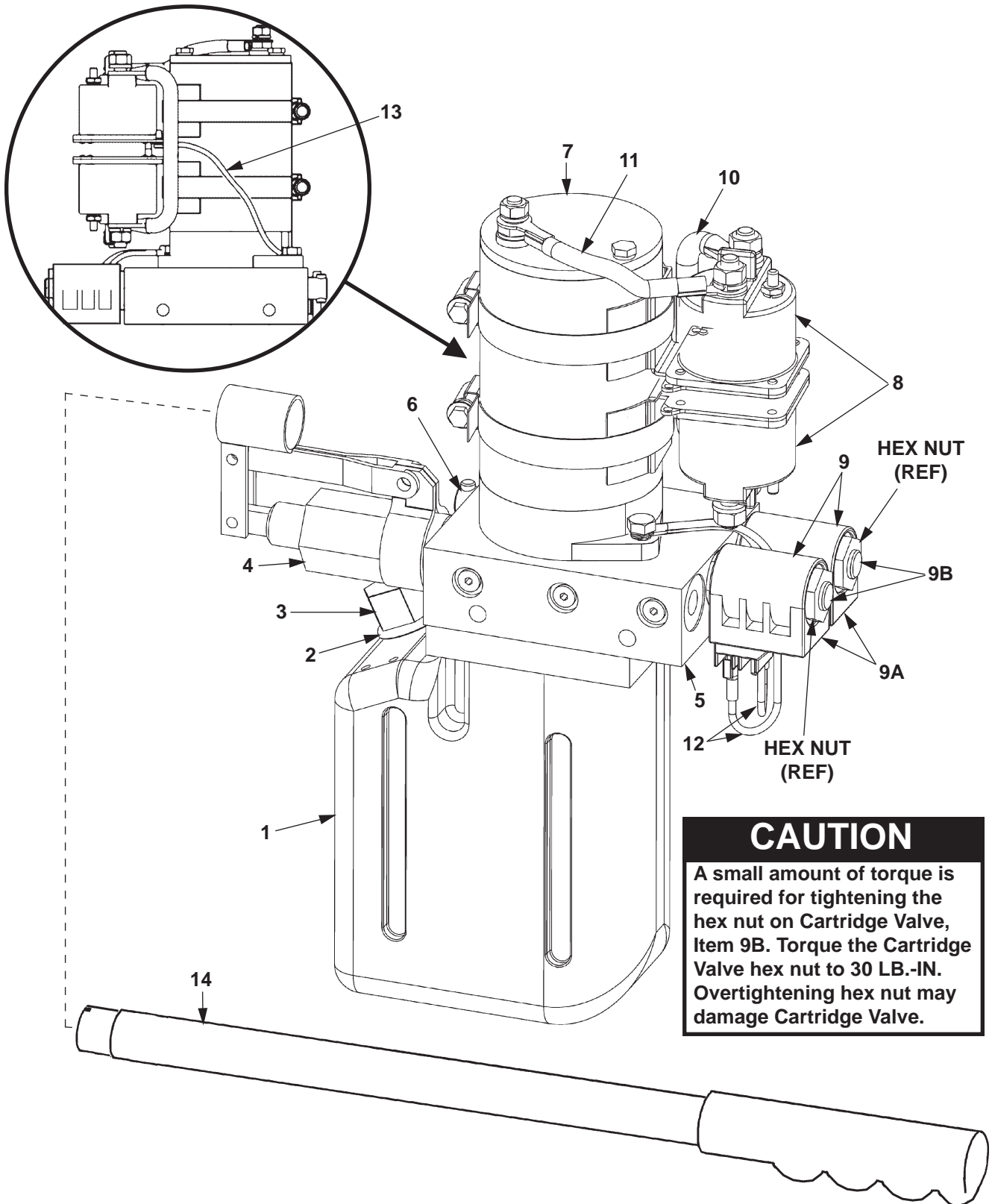
ITEM	QTY.	PART NO.	DESCRIPTION
1	2	906718-01	ELBOW, 90° O-RING, SAE#6 - JIC#4 MALE
2	1	261351	HOSE ASSEMBLY, 27" LG. (1/8" I.D.)
3	1	261350	HOSE ASSEMBLY, 63" LG. (1/8" I.D.)
4	1	905026	TEE FITTING, JIC#4 M-M-F
5	1	905027	ELBOW FITTING, JIC#4 M-F
6	1	905250	TEE, SWIVEL BRANCH NUT, JIC 1/4"
7	1	450017	FITTING, STRAIGHT THREAD, O-RING, #6- JIC#4
8	1	905249	SWIVEL, 1/4" JIC-1/4" NP, FEMALE-
9	2	905024	ELBOW FITTING, MALE #10-32 - 1/4," BARB
10	1	224370-05	HOSE, PLASTIC, 52-1/2" LG. (1/8" I.D.)
11	1	224370-11	HOSE, PLASTIC, 87" LG. (1/8" I.D.)
12	2	906767-01	UNION ELBOW, 1/4" O.D. TUBE
13	2	266645-01	CYLINDER, 1-1/2" BORE X 19" STROKE ( <b>SEE NOTE</b> )
13A	2	906717-01	FLOW CONTROL VALVE ( <b>SEE NOTE</b> )

**NOTE:** For Lift to operate correctly, Cylinders must be matched. If one cylinder needs replacement, both must be replaced with a matched set. If a Flow Control Valve must be replaced, then a matched set is required to replace that valve in both cylinders.

**MAXON**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

## 12 VDC POWER UNIT

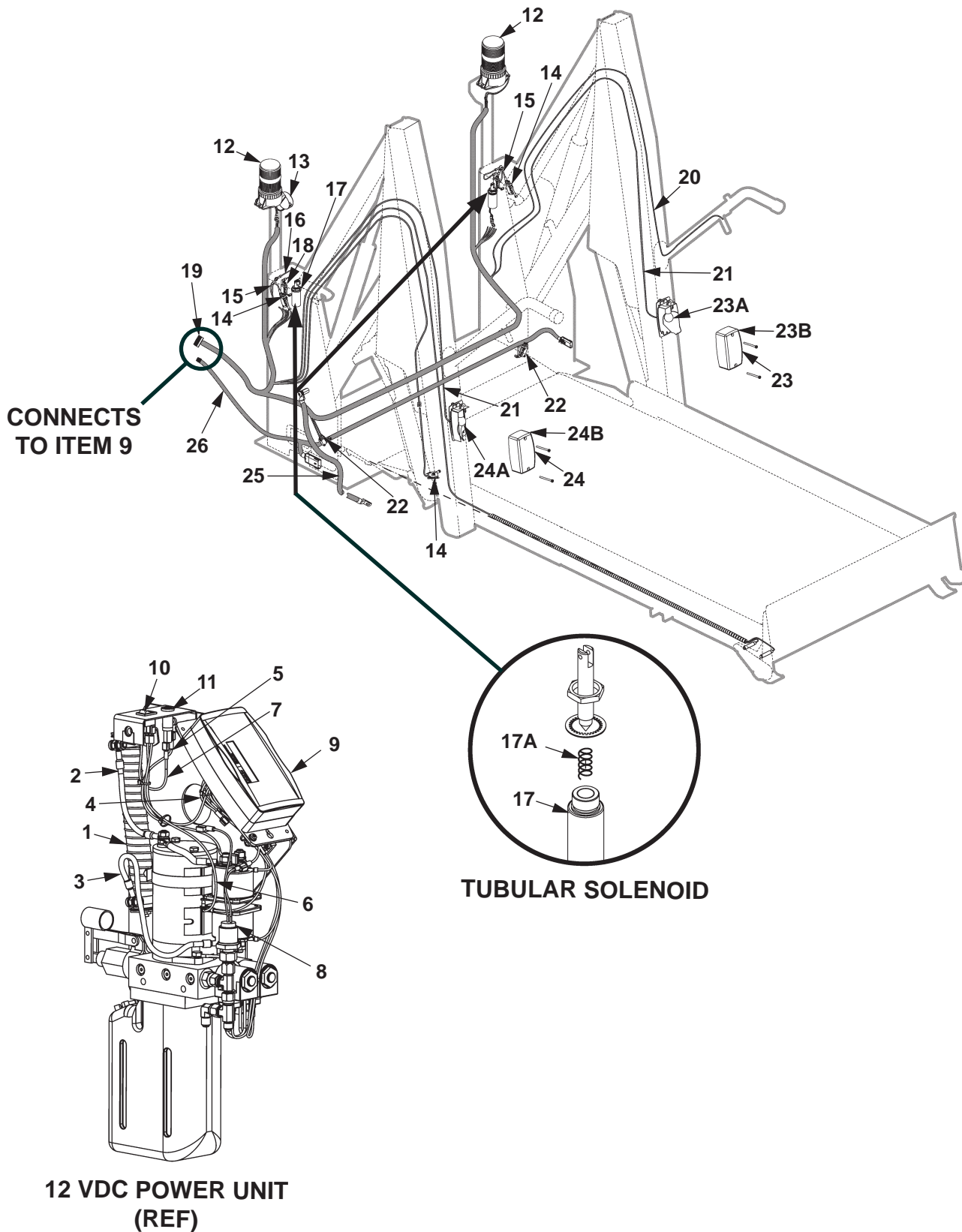


ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	266950-01	PUMP ASSEMBLY, WL7
1	1	265117-02	RESERVOIR, 2 QT.
2	1	266971-01	GROMMET
3	1	266970-01	FILLER/BREATHER (CAP)
4	1	265116	HAND PUMP
5	1	265119	PUMP BLOCK
6	1	265131	MANUAL LOWERING VALVE
7	1	265118	MOTOR, 12 VDC, 1 TERMINAL
8	2	265115-01	SOLENOID SWITCH, 12VDC (3-POST)
9	2	265125	SOLENOID VALVE, 12VDC (2-POLE)
9A	1	290064	COIL, 10VDC
9B	1	-	CARTRIDGE VALVE (REFERENCE)
10	1	265122	CABLE ASSEMBLY
11	1	265124	CABLE ASSEMBLY
12	2	265134	WIRE ASSEMBLY
13	1	265132	WIRE ASSEMBLY
14	1	267484-01	PUMP HANDLE

## ELECTRICAL COMPONENTS

**MAXON®**

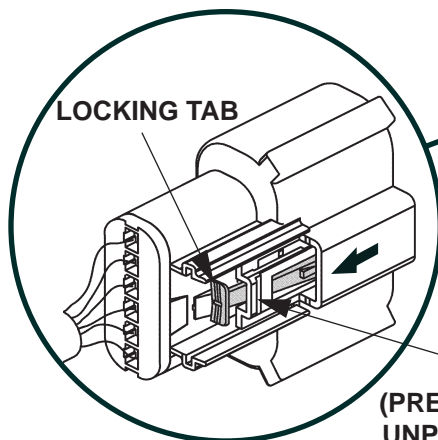
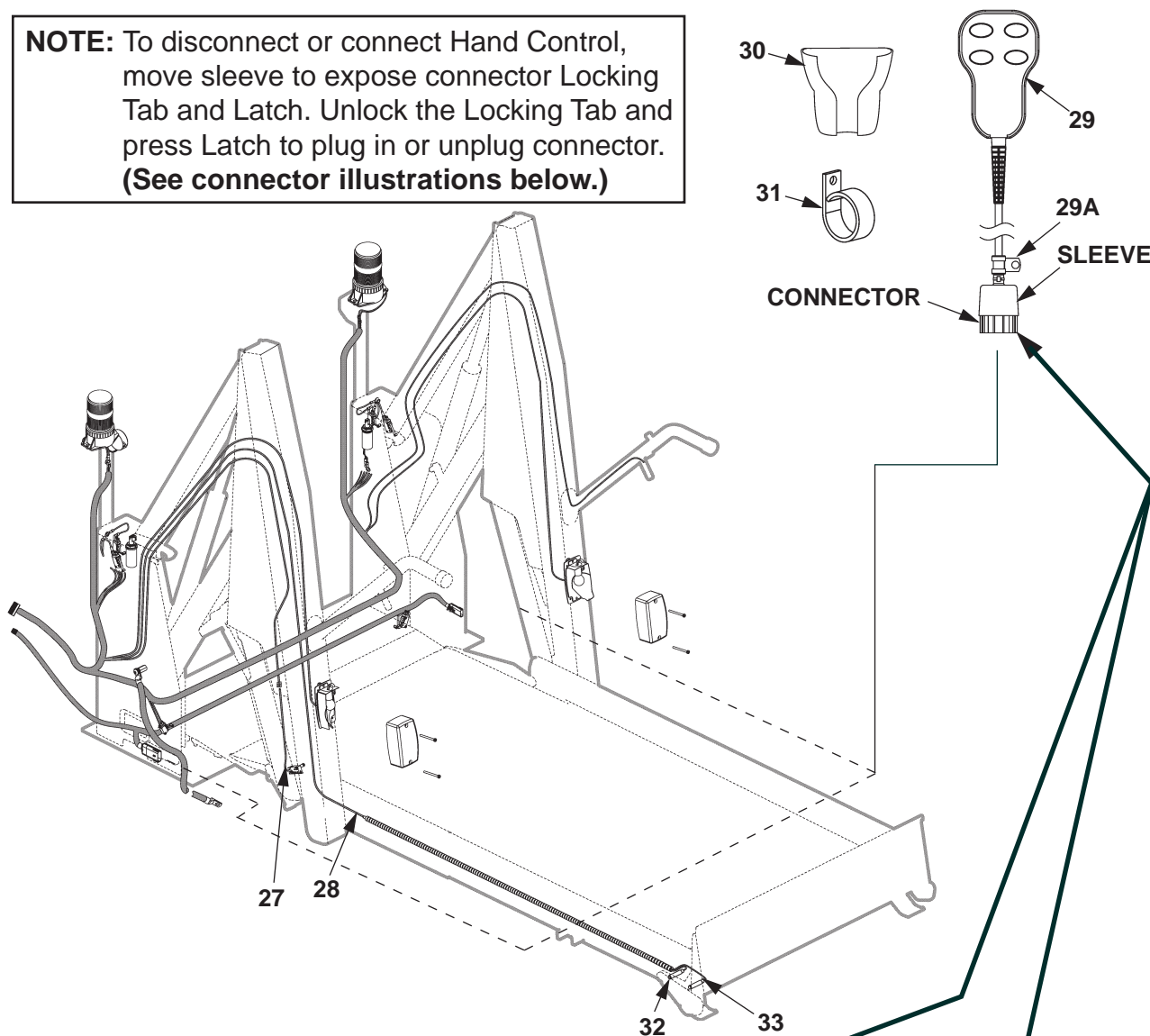
11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	265121	RESISTOR 300 WATT, 0.15 OHM
2	1	266895-01	WIRE ASSY, RES/MOTOR
3	1	266896-01	WIRE ASSY, RES/SOL.SW.
4	1	266927-01	PUMP HARNESS, WL-7
5	1	266933-01	WIRE ASSY, CIRCUIT BREAKER
6	1	266957-01	WIRE ASSY, ON-OFF SW GND
7	1	266958-01	WIRE ASSY, ON-OFF SW-CB
8	1	267351-01	TRANSDUCER ASSY, 0-2000 PSI
9	1	267627-01	CONTROLLER ASSY, WL-7, B
10	1	906441-02	ROCKER SWITCH, W/O LEGEND
11	1	906462-01	FUSE WITH FUSE HOLDER
12	2	266921-01	STEADY BURN LAMP
13	1	266922-01	ELECTRIC SIREN
14	3	906434-01	WATERTIGHT SWITCH
15	2	266924-01	WIRE ASSEMBLY, 6" LG.
16	1	266926-01	WIRE ASSEMBLY, 5" LG.
17	2	266955-01	TUBULAR SOLENOID
17A	1	266562-01	SOLENOID SPRING
18	1	266881-01	WATERTIGHT SWITCH
19	1	267425-01	MAIN HARNESS (LH PUMP)
		267425-02	MAIN HARNESS (RH PUMP)
20	1	266929-01	SEATBELT HARNESS
21	2	266899-01	CABLE ASSEMBLY
22	2	266881-02	WATERTIGHT SWITCH
23	1	267276-02	LAMP ASSEMBLY WITH HARDWARE, RIGHT
23A	1	906475-01	BULB (AUTOMOTIVE TYPE 1156)
23B	1	906476-01	LENS
24	1	267276-01	LAMP ASSEMBLY, WL7 PLATFORM, LEFT (WITH HARDWARE)
24A	1	906475-01	BULB, 1156
24B	1	906476-01	LENS
25	1	251871-06	CABLE ASSEMBLY, 2 GA, 48" LG. (GROUNDING CABLE)
26	1	266925-01	EXTENSION HARNESS

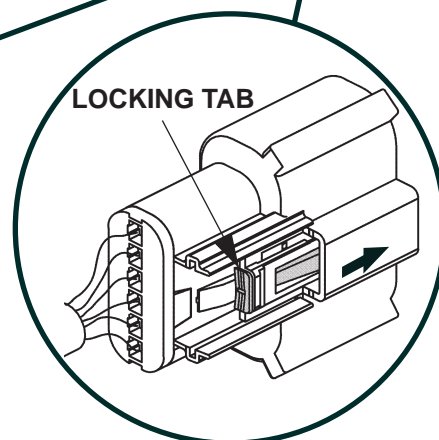
## ELECTRICAL COMPONENTS - Continued

**NOTE:** To disconnect or connect Hand Control, move sleeve to expose connector Locking Tab and Latch. Unlock the Locking Tab and press Latch to plug in or unplug connector. (See connector illustrations below.)



**CONNECTOR WITH UNLOCKED TAB**

**LATCH**  
(PRESS TO PLUG IN OR UNPLUG CONNECTOR)



**CONNECTOR WITH LOCKED TAB**

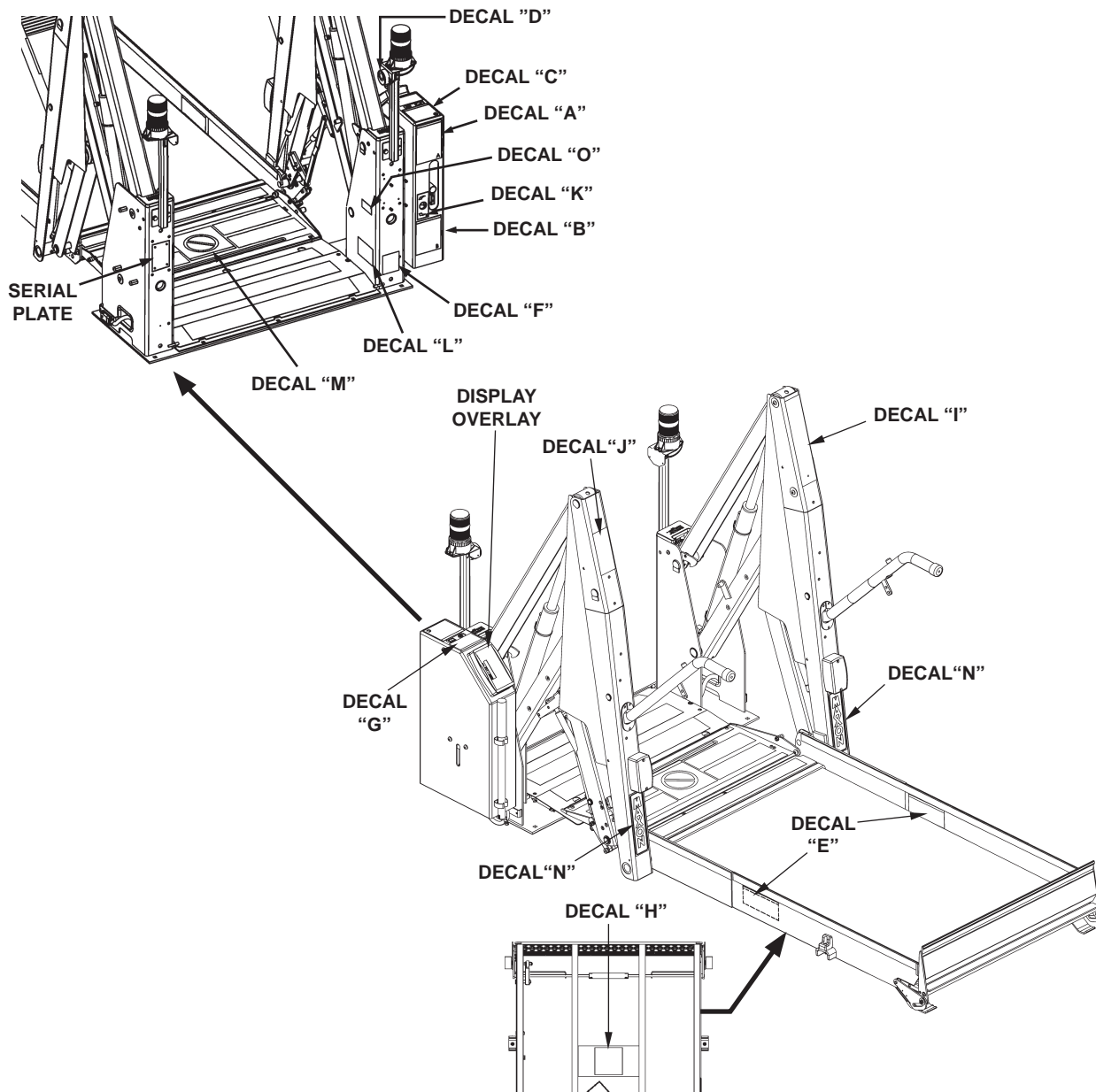
**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



ITEM	QTY.	PART NO.	DESCRIPTION
27	1	267616-01	RAMP SWITCH WIRE ASSEMBLY
28	1	267464-01	CABLE ASSEMBLY
29	1	266904-02	HAND CONTROL, ARMORED
29A	1	906479-01	CLAMP
30	1	266728-01	HAND CONTROL BRACKET
31	1	267355-01	HOOK (CONTROL CABLE STORAGE)
32	1	267654-01	SWITCH, GROUND
33	1	267654-01	SWITCH, OUTROLL STOP (OUTBOARD ROLLSTOP)

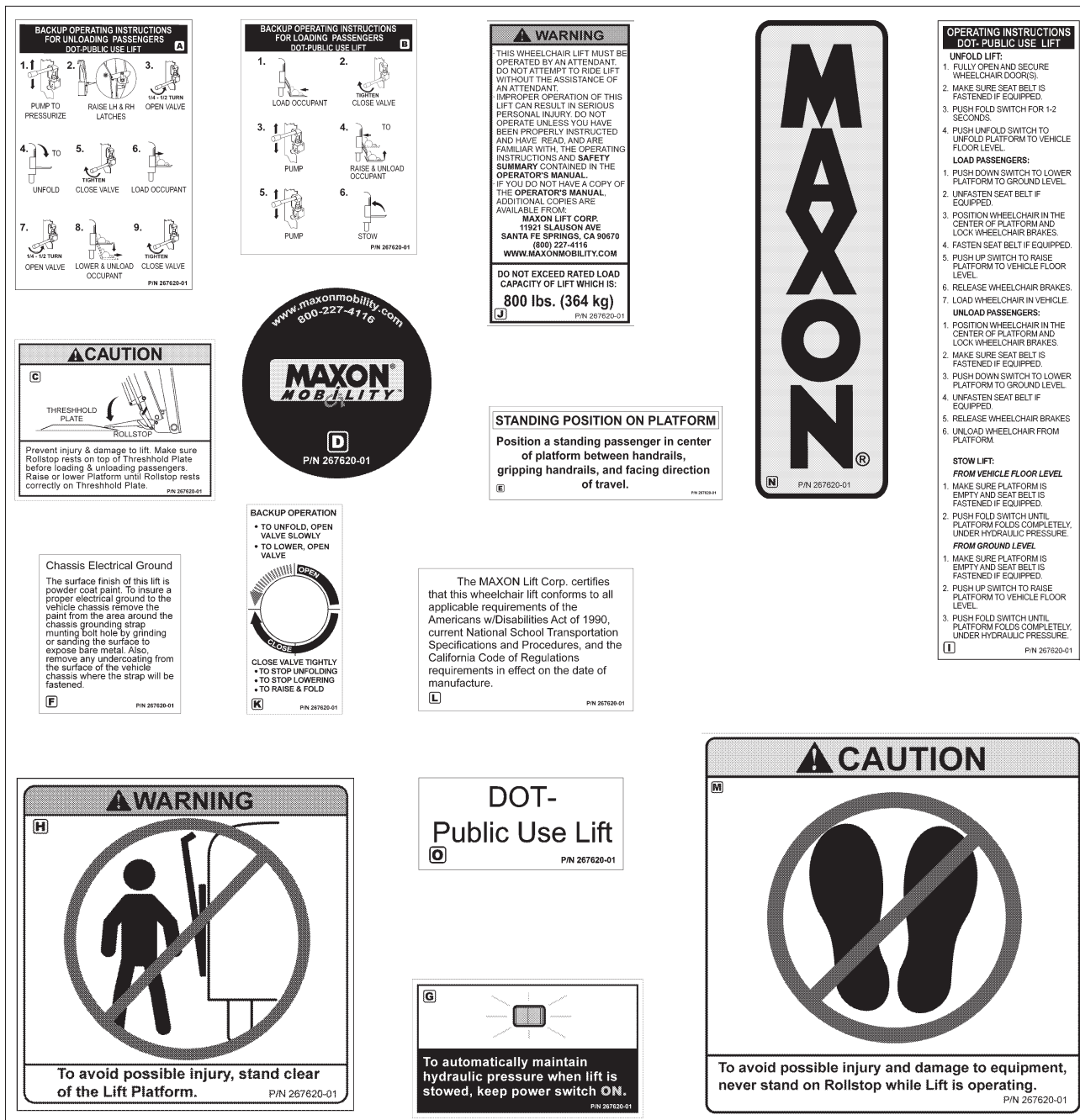
# DECALS AND DECAL PLACEMENT



**FIG. 66-1**

All **WARNING**, **CAUTION**, and **OPERATION** decals provided with Wheelchair Lift must always be in place on the Lift and Vehicle (**see FIG. 52-1**), and must always be legible. If decals are missing or illegible, get free replacement decals from:

**MAXON Lift Corp. - Customer Service**  
**11921 Slauson Ave., Santa Fe Springs, CA 90670**  
**Phone: (800) 227-4116 FAX: (888) 771-7713**  
**E-mail: [cservice@maxonlift.com](mailto:cservice@maxonlift.com)**



DECAL SET P/N 267620-01  
FIG. 67-1



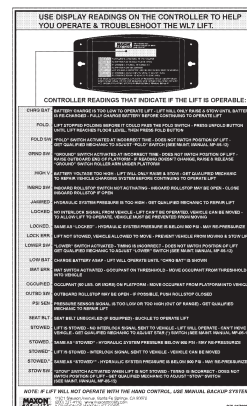
DECAL-OVERLAY P/N 267630-01  
FIG. 67-2



SERIAL PLATE P/N 905246-8  
FIG. 67-3

**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713



### DECALS AND HAND CONTROL MOUNTING ON VEHICLE FIG. 68-1

# ANTI-SLIP & SAFETY STRIPING (30" WIDE PLATFORM)

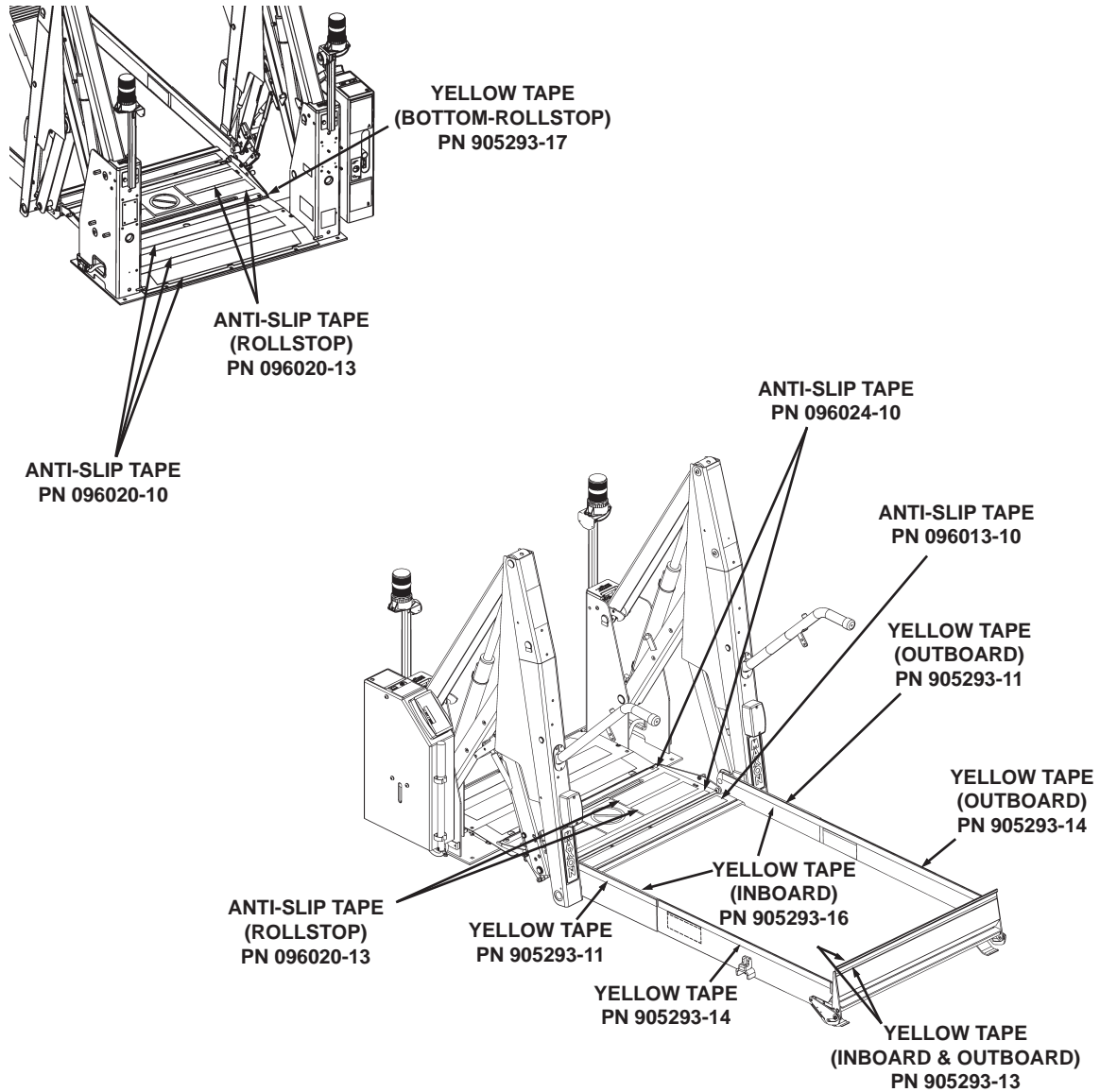


FIG. 69-1

# ANTI-SLIP & SAFETY STRIPING - Continued (33" WIDE PLATFORM)

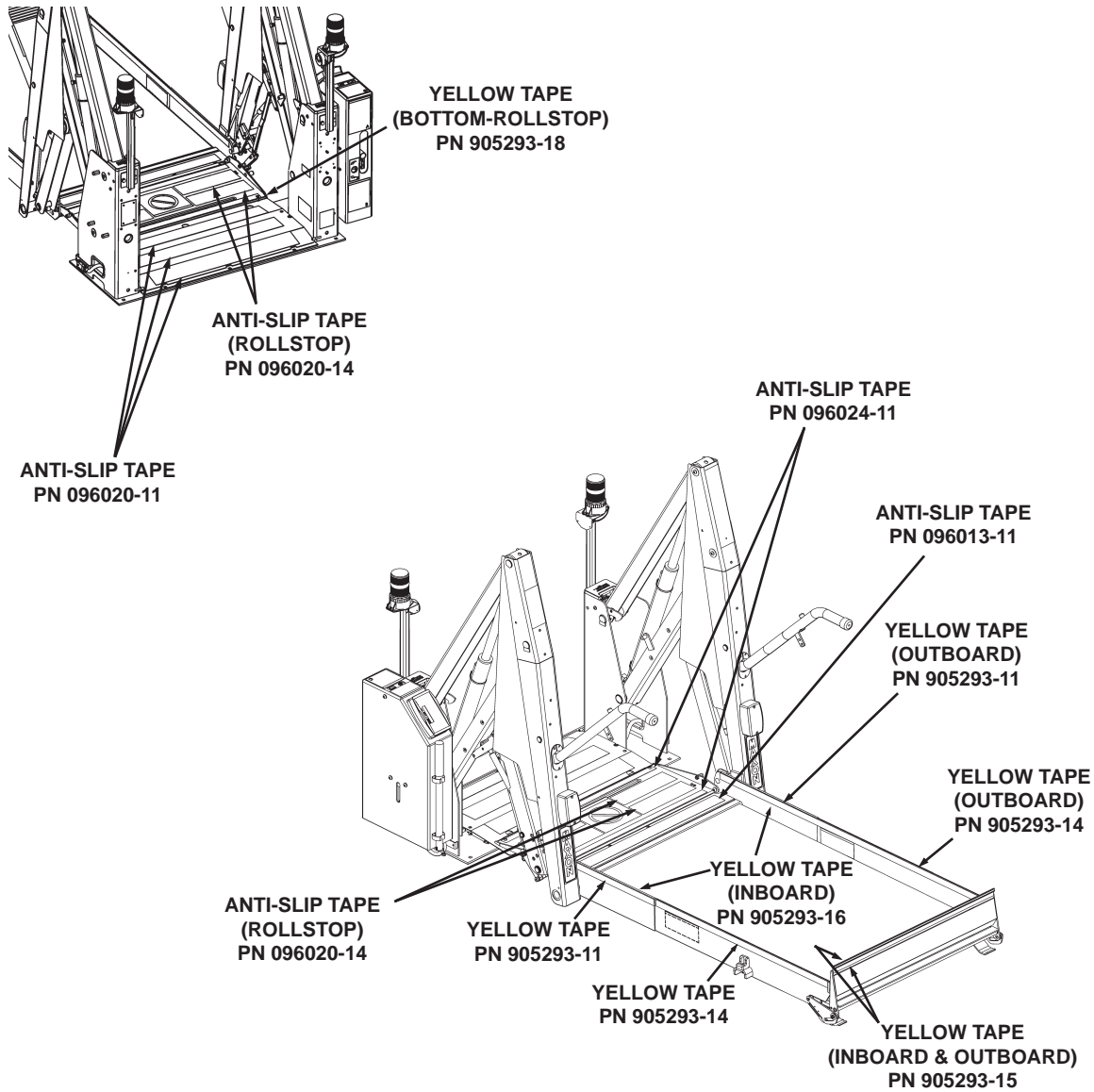


FIG. 70-1

**MAXON®**

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

## (34" WIDE PLATFORM)

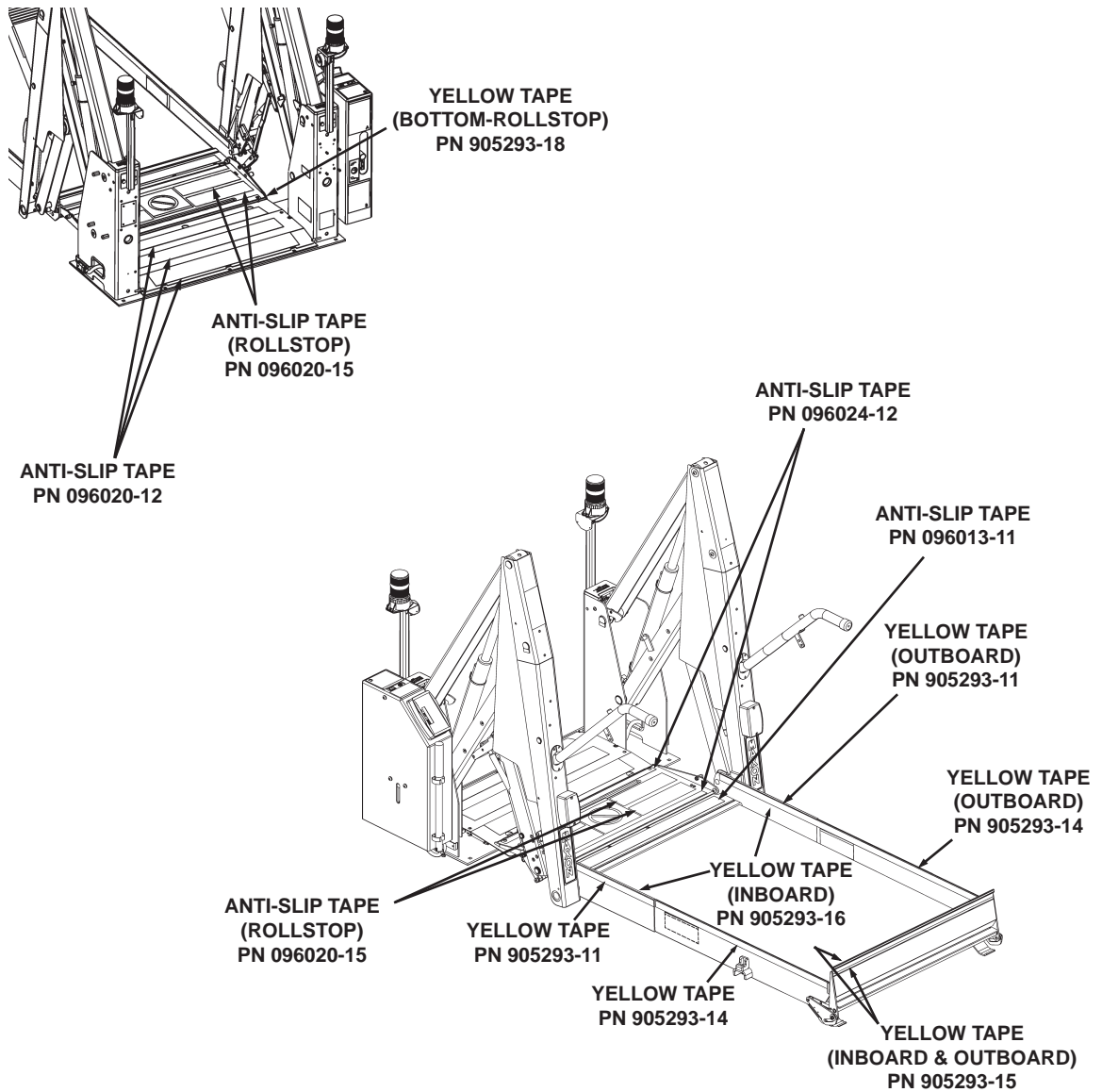


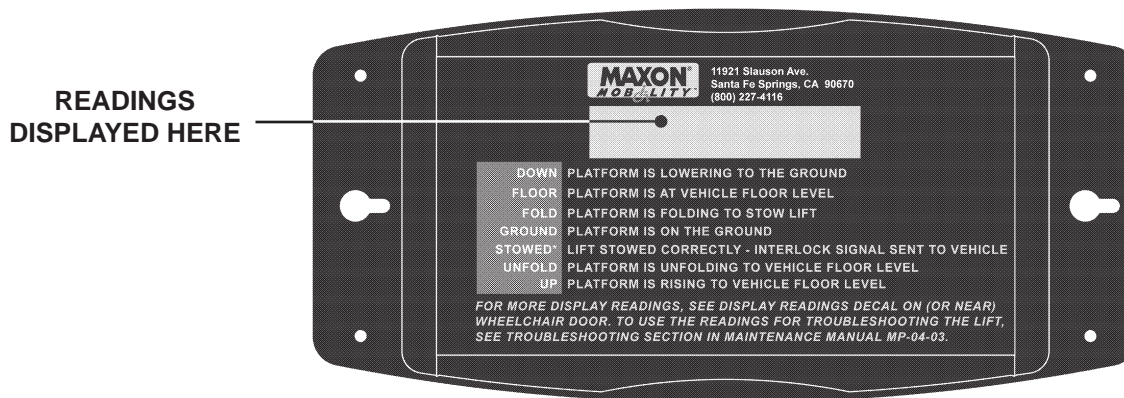
FIG. 71-1



# TROUBLESHOOTING

## CONTROLLER DISPLAY READINGS

The Controller (**FIG. 72-1**) may display any of the following readings while the Lift is operating. Some of the readings indicate normal operation, but some indicate trouble with the Lift or vehicle.



LIFT CONTROLLER DISPLAY  
FIG. 72-1

### STOWED\* (Stowed Star):

Lift is operating normally and the Controller (**FIG. 72-1**) is receiving the interlock signal from the vehicle. The platform has folded, passed the stow switch, and is stowed. The hydraulic system pressure is above 900 PSI and the Lift interlock signal is being sent to the vehicle.

**STOWED.\*** (Stowed Dot Star): Lift is operating normally and the Controller (**FIG. 72-1**) is receiving the interlock signal from the vehicle. The platform has folded, passed the stow switch, and is stowed. The hydraulic system pressure is below 900 PSI. When the Controller recharges hydraulic system pressure every 5 minutes, the **dot (.)** will go away and Controller (**FIG. 72-1**) will read **STOWED\***.

**STOWED** (Stowed): Lift is operating normally and the Controller (**FIG. 72-1**) is receiving the interlock signal from the vehicle, but the Lift interlock signal is not reaching the vehicle interlock. The platform has folded, passed the stow switch, and is stowed. The hydraulic system pressure is above 900 PSI. If vehicle interlock uses the absence of the Lift interlock signal to prevent vehicle from being moved when lift is not properly stowed, then vehicle will not be allowed to move until it receives interlock signal from the Lift.

Corrective Actions:

1. Make sure the Stow switch is adjusted correctly.  
If required, do the **STOW SWITCH ADJUSTMENT** in this manual. When the platform is resting on the latches, the STOW switch must be closed.
2. If the adjustment does not solve the problem, then check the wire that sends Lift interlock signal to the vehicle interlock (**see ELECTRICAL SYSTEM DIAGRAM**).



### **STOWED.** (Stowed dot):

Lift is operating normally and the Controller (**FIG. 72-1**) is receiving the vehicle's interlock signal, but the Lift interlock signal is not reaching the vehicle interlock. The platform has folded, passed the stow switch, and is stowed. The hydraulic system pressure is below 900 PSI. When the Controller recharges hydraulic system pressure every 5 minutes, the “.” (**dot**) will go away and Controller (**FIG. 72-1**) will read **STOWED**. If the vehicle interlock uses the absence of the Lift interlock signal as a condition to prevent vehicle from being moved (Lift is not stowed correctly), then vehicle will not be allowed to move until it receives the Lift interlock signal.

#### Corrective Actions:

1. Make sure the Stow switch is adjusted correctly.  
If required, do the **STOW SWITCH ADJUSTMENT** in this manual. When the platform is resting on the latches, the STOW switch must be closed.
2. If the adjustment does not solve the problem, then check the wire that sends the Lift interlock signal to the vehicle interlock (**see ELECTRICAL SYSTEM DIAGRAM**).

### **INBRD SW:**

The Inboard Rollstop is not completely closed and locked in position, or the Inboard Rollstop switch is always open.

#### Corrective Actions:

1. Close the Inboard Rollstop. Make sure closing mechanism is working correctly.
2. If the problem remains, go to the diagnostic mode on the Controller and check the “Inboard Rollstop” switch code (**see DIAGNOSTICS**). The 2nd digit in the second set of binary codes (00001111) indicates the “Inboard Rollstop” switch. With the Inboard Rollstop open, push the switch actuator mechanism. If the digit changes from 0 to 1 or from 1 to 0, then the wiring connections and switch are good.
3. If the Controller (**FIG. 72-1**) still reads **INBRD SW**, replace the Controller.

### **OUTBD SW:**

The Outboard Rollstop is not completely closed and locked in position, or the Outboard Rollstop Switch is not functioning correctly.

#### Corrective Actions:

1. Go to diagnostic mode on the Controller and check the “Outboard Rollstop” switch code (**see DIAGNOSTICS**). The 1st digit in the second set of binary codes (00001111) indicates the “Outboard Rollstop” switch. With the Outboard Rollstop open, the digit should be “0”. If closed, the digit should be “1”.  
If the digit does not change when Outboard Rollstop opens and closes:
  - Check and repair switch wiring
  - Replace switch or magnet
2. If the Controller (**FIG. 72-1**) still reads **OUTBD SW**, replace the Controller.

## CONTROLLER DISPLAY READINGS - Continued

### MATT ERR:

The lift's Threshold Plate has pressure on it. There may be a load or occupant on it, or it may need to be adjusted.

#### Corrective Actions:

1. Make sure the MAT switch is adjusted correctly. If required, do the **MAT SWITCH ADJUSTMENT** in this manual.
2. If adjustment does not solve the problem, go to the diagnostic mode on the Controller and check the "Mat" switch code (**see DIAGNOSTICS**). The 6th digit in the first set of binary codes (11110001) indicates the "Mat" switch. Push the actuator lever on each of the 2 MAT switches (only one at a time). If the digit changes from 0 to 1 or from 1 to 0, then the wiring connections and switch are good.
3. If the Controller (**FIG. 72-1**) still reads **MAT SW**, replace the Controller.

### LOCK ERR:

Lift is not stowed, and the interlock signal from the vehicle is not reaching the Controller. For the vehicle interlock to send a signal to the Lift, the vehicle transmission must be in park or neutral, emergency or service brakes must be set, and Lift switch or other controls (as equipped) must be set correctly. Lift can be operated until stowed. Then the Lift cannot be operated until it receives the interlock signal from the vehicle.

#### Corrective Actions:

1. Check all the conditions, controls, and settings on the vehicle interlock and then check the interlock connections to the Lift (**see ELECTRICAL SYSTEM DIAGRAM**).
2. Disconnect the vehicle interlock wire (white with red stripe) from the Lift (**see ELECTRICAL SYSTEM DIAGRAM**). (The vehicle interlock wire is on the same side as the pump.) Then connect the wire to ground. If the **LOCK ERR** reading is gone from the Controller (**FIG. 72-1**), the Lift interlock is operating correctly, get the vehicle interlock repaired.

### LOCKED:

This is a normal reading on the Controller (**FIG. 72-1**) if the Lift is stowed and vehicle is being driven. It indicates the Lift cannot be operated because it is not getting the interlock signal from the vehicle. The vehicle normally sends the interlock signal to the Lift when vehicle transmission is in park or neutral, emergency or service brakes are set, and Lift switch or other controls (as equipped) are set correctly. For the Lift to operate, the Controller must display a **STOWED** (**see STOWED\***, **STOWED.\***, and **STOWED**).

**STOW SW:**

The “Stow” switch is normally closed when the Lift is not stowed. This reading indicates the Stow switch is broken or the wiring is disconnected or damaged.

**FOLD SW:**

The switch state (open or closed) does not match the position of the platform. This reading indicates the “Fold” switch is broken or the wiring is disconnected or damaged.

**FOLD.** (Fold dot):

The platform did not pass the “Fold” switch, so the platform is still positioned where the Controller (**FIG. 72-1**) looks for a pressure reading that indicates an occupant on the platform (50+ lbs). The Controller needs the platform to travel a certain distance to measure the hydraulic system pressure (PSI) so Controller can determine if it is okay to fold platform. If the Lift stopped folding in the middle of the platform occupant sensing area, the Controller will not allow the platform to continue folding. To continue operation, platform must be unfolded completely.

**Corrective action:**

Completely unfold the platform to floor level. Then the Controller will allow the platform to be folded and stowed.

**UNFOLD.** (Unfold dot):

The platform did not pass the “Fold” switch, so the platform is still positioned where the Controller (**FIG. 72-1**) looks for a pressure reading that indicates an occupant on the platform (50+ lbs). The Controller will not allow the platform to be folded, so it can only be unfolded at this point. To continue operating the Lift, platform must be unfolded completely.

**Corrective action:**

Completely unfold the platform to floor level. Then the Controller will allow the platform to be folded and stowed.

**UNFOLD. OCCUPIED** (Unfold dot Occupied):

Platform was occupied (50+ lbs. on platform) when trying to fold the platform.

**Corrective action:**

1. Remove occupant (or load) from platform.
2. If there is no occupant or load, go to diagnostic mode on the Controller (**see DIAGNOSTICS**) and read the hydraulic system pressure. Pressure should read between 170PSI to 230PSI. If it is not in the range, change the Pressure Transducer.
3. If it is within range, the platform occupied pressure setting must be changed in the Controller.

## CONTROLLER DISPLAY READINGS - Continued

### GRND SW:

This is the Controller reading (**FIG. 72-1**) if the “Ground” switch is not open when the platform is more than 3” off the ground. (Ground switch senses when platform is 3” off the ground.)

Corrective action:

1. Go to diagnostic mode on the Controller (**see DIAGNOSTICS**) and check the “Ground” switch code. The 5th digit in the first set of binary codes (11110000) indicates the “Ground” switch. With the Outboard Rollstop closed, the digit should be “0”. If open, the digit should be “1”. If the digit does not change when Outboard Rollstop opens and closes:
  - Check and repair switch wiring
  - Replace switch or magnet
2. If the Controller (**FIG. 72-1**) still reads **GRND SW**, change the Controller.

### LOWERING SW:

The state (open or closed) of the “Lowering” switch does not match the position of the platform.

Corrective action:

1. Check the mechanism that activates switch. Then check if the switch is bad.
2. Go to diagnostic mode on the Controller (**see DIAGNOSTICS**) and check the “Lowering” switch code. It is the 3rd digit in the second set of binary codes (00001111). Push the actuator lever on the “Lowering” switch. If the number changes from 0 to 1 or from 1 to 0, then the wiring connections and switch are okay.
3. If the Controller (**FIG. 72-1**) still reads **GRND SW**, change the Controller.
4. If the digit does not change, replace the “Lowering” switch

### SEAT BLT:

Seat belt is not buckled (only on units equipped with a seat belt).

Corrective action:

1. If the belt is engaged, go to diagnostic mode on the Controller (**see DIAGNOSTICS**) and check the “Seat Belt” switch code. It is the 8th digit in the first set of binary codes (11110000). Buckle and unbuckle the Seat Belt. If the digit changes from 0 to 1 or from 1 to 0, then the wiring connections and switch are okay.
2. If the Controller (**FIG. 72-1**) still reads **SEAT BLT**, change the Controller.
3. If the digit does not change, replace the seat belt.

**OCCUPIED:**

There may be a load or occupant on the platform when the Controller (**FIG. 72-1**) looks for a pressure reading that indicates an occupant on the platform (50+ lbs).

Corrective action:

1. Remove occupant or load from the platform.
2. If there is no occupant or load, go to diagnostic mode on the Controller (**see DIAGNOSTICS**) and check the hydraulic system pressure reading (PSI). It should be between 170PSI to 230PSI. If reading is not in the range, change the Pressure Transducer.
3. If the Controller (**FIG. 72-1**) still reads “**OCCUPIED**”, the platform occupied pressure setting must be changed in the Controller or the Controller must be changed.

**PSI SEN:**

The Pressure Transducer is reading outside of the acceptable range of hydraulic system pressure (PSI) for the function that Lift is performing.

Corrective action:

1. Check for disconnected or damaged Pressure Transducer wiring.
2. If wiring is okay, replace Pressure Transducer

**LOW BAT:**

Battery is below 12.2 volts. Controller allows the Lift to operate until battery voltage goes below 12.0 volts.

Corrective action:

1. Start the vehicle to charge battery.
2. If that does not help, check if the battery is bad.
3. If the battery is OK, check to see if it is charging.
4. If battery is not charging, make sure the power cable and ground cable are in good condition, and the connections on both ends are clean and tight.

**CHRG BAT:**

This reading appears when the platform is being raised or lowered and the battery is below 12.0 volts. The Controller will only allow the platform to be raised, folded, and stowed until battery is re-charged.

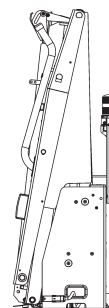
Corrective action:

1. Start the vehicle to charge battery.
2. If that does not help, check if the battery is bad.
3. If the battery is okay, check to see if it is charging.
4. If battery is not charging, make sure the power cable and ground cable are in good condition, and the connections on both ends are clean and tight.

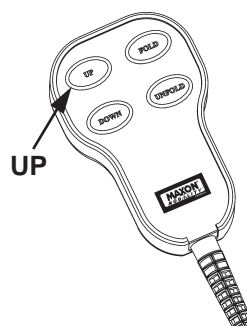
## DIAGNOSTIC MODE

To display Diagnostic readings on the Controller:

- If the Platform is positioned above floor level (**FIG. 78-1**), press the **UP** button, on the Hand Control (**FIG. 78-2**), 11 times.

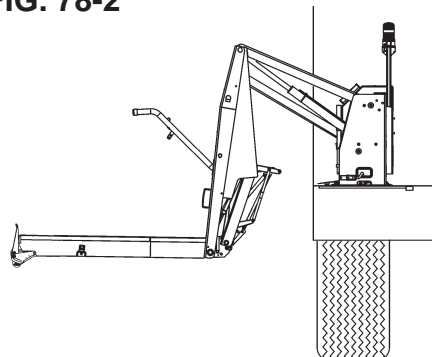


**PLATFORM ABOVE FLOOR  
LEVEL (STOWED)  
FIG. 78-1**

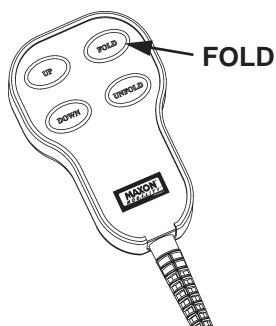


**HAND CONTROL  
FIG. 78-2**

- If the Platform is positioned below floor level (**FIG. 78-3**). Press the **FOLD** button, on the Hand Control (**FIG. 78-4**), 11 times.



**PLATFORM BELOW FLOOR LEVEL  
FIG. 78-3**



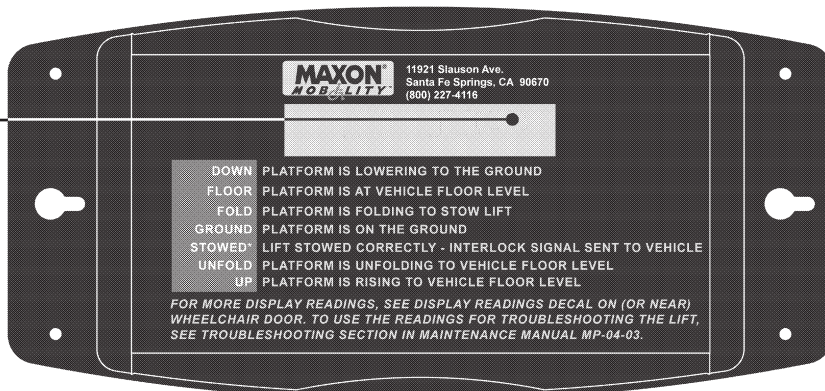
**HAND CONTROL  
FIG. 78-4**

**MAXON**<sup>®</sup>

11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

Once the diagnostic readings appear on the Controller (**FIG. 79-1**), you can scroll through the readings. If you pushed the **UP** button 11 times to get to the diagnostic mode, scroll with the **UP** button. If you pushed the **FOLD** button 11 times to get to the diagnostic mode, scroll with the **FOLD** button.

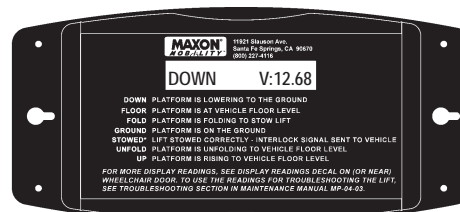
READINGS  
DISPLAYED HERE



**LIFT CONTROLLER DISPLAY**  
**FIG. 79-1**

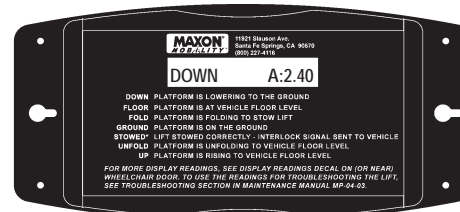
The Controller (**FIG. 79-1**) will display the following readings. Push the button once for each reading.

### 1. Battery Voltage (**FIG. 79-2**)



**EXAMPLE CONTROLLER**  
**DIAGNOSTIC READING**  
**FIG. 79-2**

### 2. Lift Current (**FIG. 79-3**)



**EXAMPLE CONTROLLER**  
**DIAGNOSTIC READING**  
**FIG. 79-3**



# **DIAGNOSTIC MODE - Continued**

- Status display of first set of switches:  
The reading for the first set of 8 switches is in binary code (i.e. 11110101) (**FIGS. 80-1 and 80-2**). Read the status from left to right for the first set of 8 binary codes. A “1” means open and “0” is closed. The first 4 of 8 status numbers will always read 1 (i.e. 11110101) (**TABLE 80-1**).



**EXAMPLE CONTROLLER  
DIAGNOSTIC READING  
FIG. 80-1**

CODE DIGITS —	1	1	1	1	0	1	0	1
	1	2	3	4	5	6	7	8

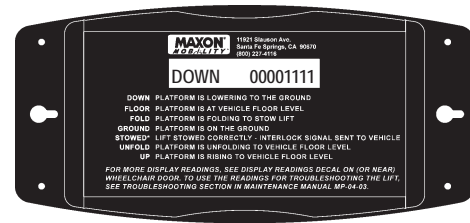
**CODES FOR FIRST SET OF SWITCHES  
FIG. 80-2**

POSITION	CODE	FUNCTION
1	Always 1	Not in Use (extra switch)
2	Always 1	Not in Use (extra switch)
3	Always 1	Not in Use (extra switch)
4	Always 1	Not in Use (extra switch)
5	1 or 0	Ground Switch (1 open/ground level, 0 closed/above ground level)
6	1 or 0	Mat Switch (1 open/no pressure, 0 closed/pressure)
7	1 or 0	Folding Switch (1 open/at or below floor level, 0 closed/above floor level)
8	1 or 0	Seat Belt Switch (1 open/engaged, 0 closed/disengaged)

**STATUS READINGS FOR FIRST SET OF CODES  
TABLE 80-1**



4. Status display of 2nd set of switches:  
The reading for the second set of 8 switches is in binary code (i.e. 00001111) (**FIGS. 81-1 and 81-2**). Read the status from left to right for the second set of 8 binary codes (**TABLE 81-1**).



**EXAMPLE CONTROLLER  
DIAGNOSTIC READING  
FIG. 81-1**

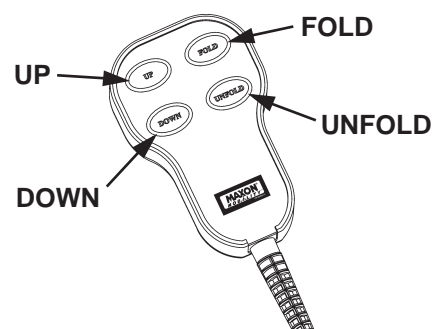
CODE DIGITS —	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
	1	2	3	4	5	6	7	8

**CODES FOR SECOND SET OF SWITCHES  
FIG. 81-2**

POSITION	CODE	FUNCTION
<b>1</b>	1 or 0	Outboard Switch (1 open/Outboard Rollstop not up, 0/closed Outboard Rollstop up)
<b>2</b>	1 or 0	Inboard Switch (1 open/ 0 closed)
<b>3</b>	1 or 0	Lowering Switch (1 open/below floor level, 0 closed at or above floor level)
<b>4</b>	1 or 0	Stow Switch (1 open/not stowed, 0 closed/stowed)
<b>5</b>	1 or 0	UNFOLD Button (1 open/not pressed, 0 closed/button pressed)
<b>6</b>	1 or 0	FOLD Button (1 open/not pressed, 0 closed/button pressed)
<b>7</b>	1 or 0	DOWN Button (1 open/not pressed, 0 closed/button pressed)
<b>8</b>	1 or 0	UP Button (1 open/not pressed, 0 closed/button pressed)

**STATUS READINGS FOR SECOND SET OF CODES  
TABLE 81-1**

5. Use the second set of codes to check the Hand Control (**FIG. 81-3**). The 4 buttons on the Hand Control can be checked individually. When displaying the second set of binary codes, press each of the 4 buttons to see if the status of the buttons changes from “1” to “0”. If one button does not change code, trace the function for that button. If none of the 4 buttons change code, then the Hand Control or the connecting wiring harness is bad.



**HAND CONTROL  
FIG. 81-3**

## DIAGNOSTIC MODE - Continued

**NOTE:** The **UNFOLD, FOLD, DOWN, & UP** switches will each display a “0” when the applicable button is pressed on the Hand Control.

LIFT POSITION	1ST DISPLAY OF CODE DIGITS								2ND DISPLAY OF CODE DIGITS							
	NOT USED (ALWAYS “1”)	NOT USED (ALWAYS “1”)	NOT USED (ALWAYS “1”)	NOT USED (ALWAYS “1”)	GROUND SWITCH	MAT SWITCH	FOLDING SWITCH	SEAT BELT SWITCH	OUTBOARD SWITCH	INBOARD SWITCH	LOWERING SWITCH	STOW SWITCH	UNFOLD SWITCH (NOTE)	FOLD SWITCH (NOTE)	DOWN SWITCH (NOTE)	UP SWITCH (NOTE)
STOWED*	1	1	1	1	0	0	0	1	0	1	0	0	1	1	1	1
ABOVE/ON LOCKING LATCHES	1	1	1	1	0	0	0	1	0	1	0	0	1	1	1	1
BELOW LOCKING LATCHES	1	1	1	1	0	1	0	1	0	1	0	1	1	1	1	1
BELOW FOLD SW, ABOVE LOWERING SW	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1
FLOOR	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1
BELOW LOWERING SW, ABOVE GROUND SW	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1
3” ABOVE THE GROUND	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1
LESS THAN 3” ABOVE GROUND	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
GROUND	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1

**CONTROLLER DIAGNOSTIC MODE  
SWITCH STATUS READINGS BY POSITION OF LIFT  
TABLE 82-1**

**MAXON®**

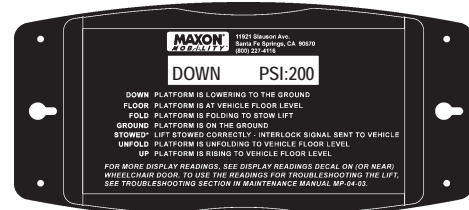
11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

6. Internal Volts (FIG. 83-1).



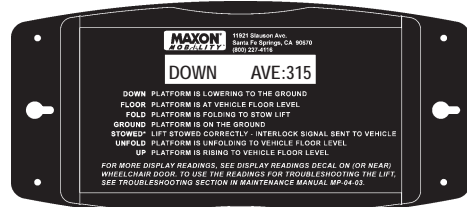
**EXAMPLE CONTROLLER  
DIAGNOSTIC READING  
FIG. 83-1**

7. Hydraulic Pressure (FIG. 83-2)



**EXAMPLE CONTROLLER  
DIAGNOSTIC READING  
FIG. 83-2**

8. Average Pre-fold Pressure (FIG. 83-3)



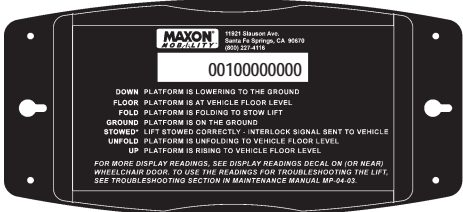
**EXAMPLE CONTROLLER  
DIAGNOSTIC READING  
FIG. 83-3**

# OVERLOAD ERRORS

Overload Error code readings are not displayed when the Controller is in diagnostic mode. They are only displayed on the Controller when an Overload Error occurs while operating the Lift. Each function of the Lift is assigned a limit on how much electrical current it can draw. If the electrical current goes over the limit, the Controller stops the Lift to prevent damage. Then the Controller reading will show which Lift function was operating at the time of the overload. The Controller reading will flash between **ERROR: OVERLOAD!** (FIG. 84-1) and an 11-digit code (i.e. 00100000000) (see FIG. 84-2 & TABLE 84-1). A “1” in the output code means that a specific function was on when the overload occurred, and “0” means that a specific function was off when the overload occurred.



**EXAMPLE CONTROLLER  
ERROR CODE READING  
FIG. 84-1**



**EXAMPLE CONTROLLER  
ERROR CODE READING  
FIG. 84-2**

LIFT FUNCTIONS —

CODE DIGITS —

ERROR OVERLOAD CODE READINGS ON THE CONTROLLER										
NOT USED	NOT USED	RAISE	LOWER	FOLD	UNFOLD	VISUAL	AUDIO	PLATFORM LIGHTS	EXTRA OUTPUT	UNLATCH
0	0	1	0	0	0	0	0	0	0	0

**ERROR OVERLOAD CODE  
(EXAMPLE OVERLOAD SHOWN FOR RAISE FUNCTION)  
TABLE 84-1**

# SYSTEM DIAGRAMS

## HYDRAULIC SYSTEM DIAGRAM

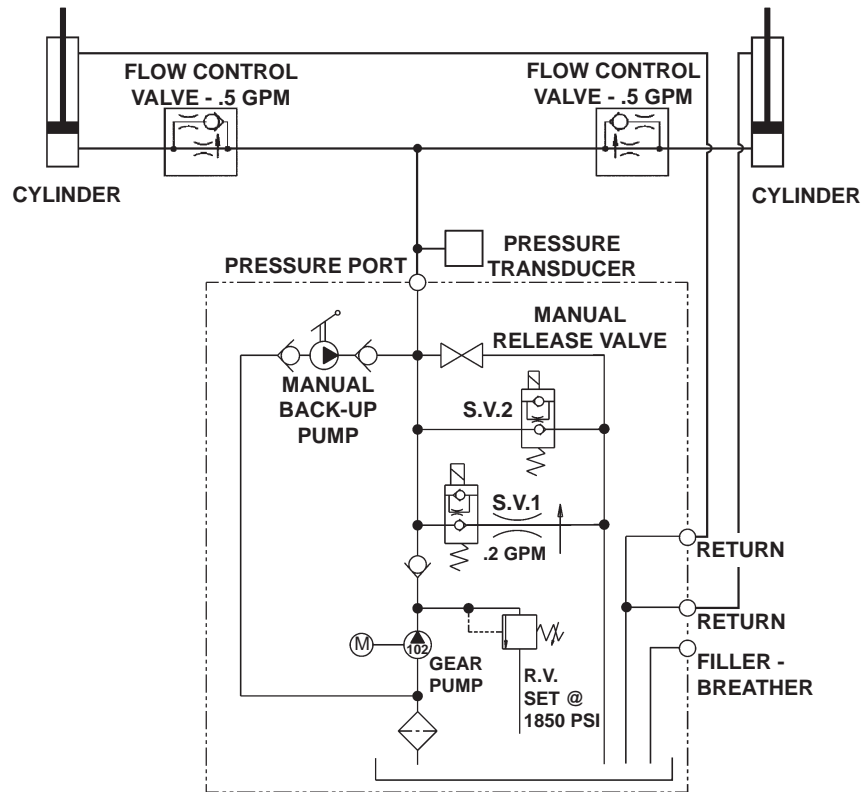


FIG. 85-1

# ELECTRICAL SYSTEM DIAGRAM

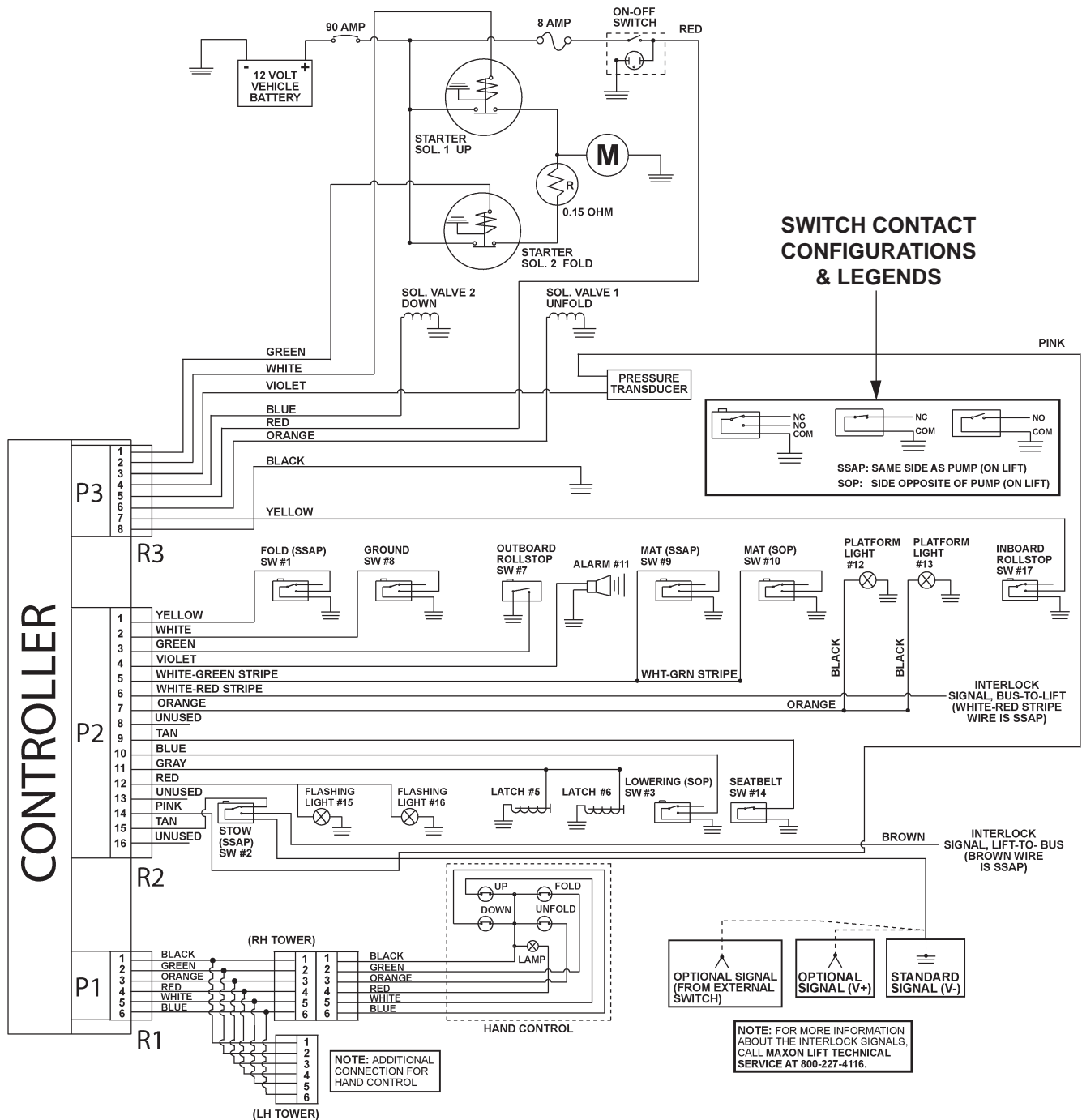


FIG. 86-1

