

WL7A

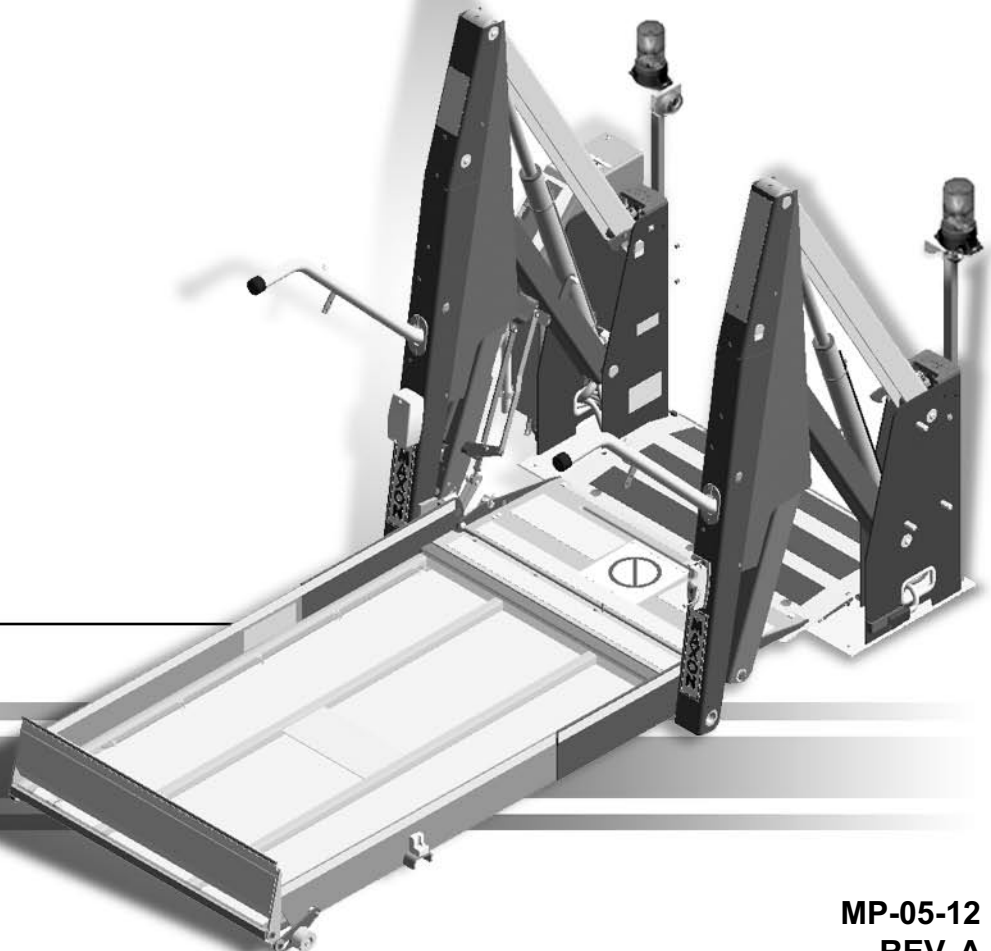
MAXON[®]
MOBILITY[™]

MAINTENANCE MANUAL FOR

WHEELCHAIR LIFT MODEL NO. WL7A

DOT-Public Use Lift

PATENTS PENDING



MAXON[®]

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.

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. 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.

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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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SAFETY SUMMARY

Comply with the following **WARNINGS** and safety precautions while maintaining the Wheel-chair Lift. See Operator's Manual MP-05-11 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 **Operator's Manual MP-05-11**.
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 replacement 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

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

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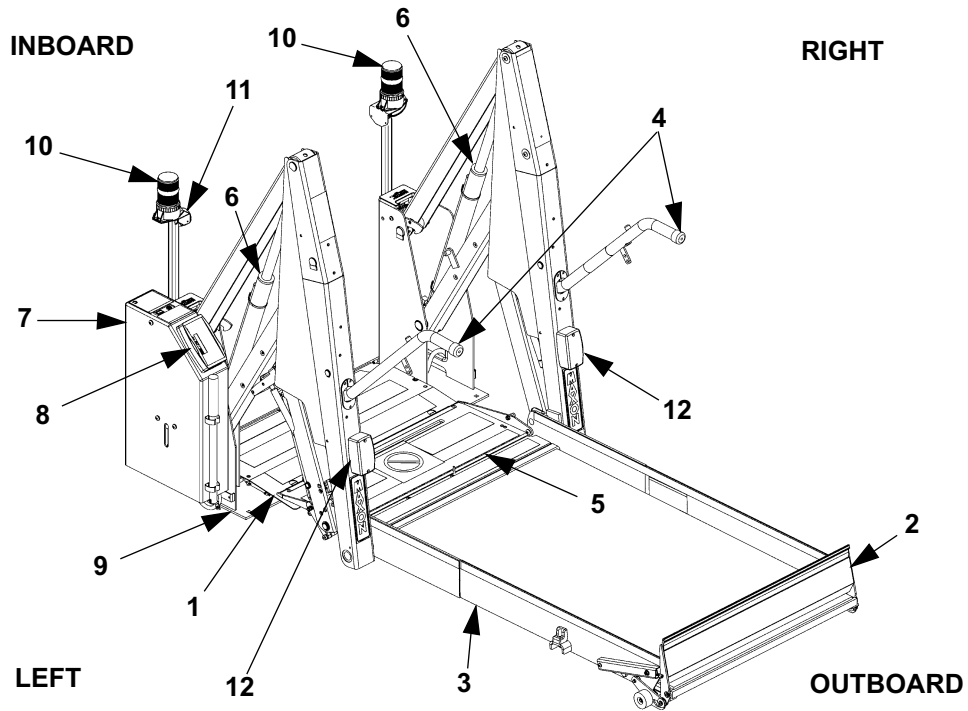
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LIFT COMPONENTS & TERMINOLOGY

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

ITEM	NAME	DESCRIPTION
1.	THRESHHOLD 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.	THRESHHOLD WARNING BEACON	Flashing red light indicates Threshold is occupied by a person or object during "UP/DOWN" operation between vehicle floor and the ground.
11.	THRESHHOLD WARNING ALARM	Audible alarm sounds when Threshold is occupied by a person or object during "UP/ DOWN" operation between vehicle floor and the ground.
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**).

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**).

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 **MP-05-10**.

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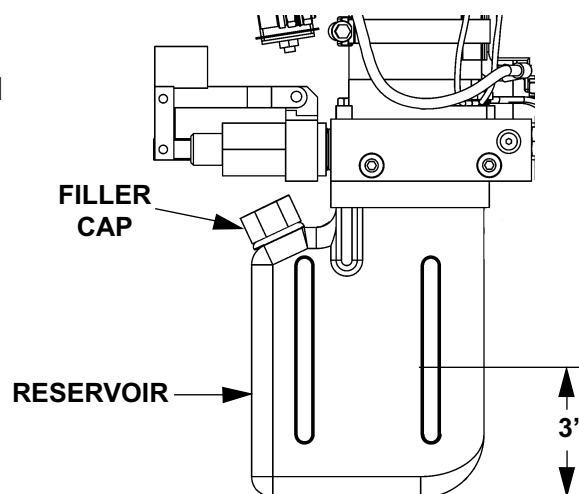
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CHECKING HYDRAULIC FLUID LEVEL

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, clean up 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 11-2**) to level shown in **FIG. 11-1**. Reinstall Filler Cap (**FIG. 11-1**).

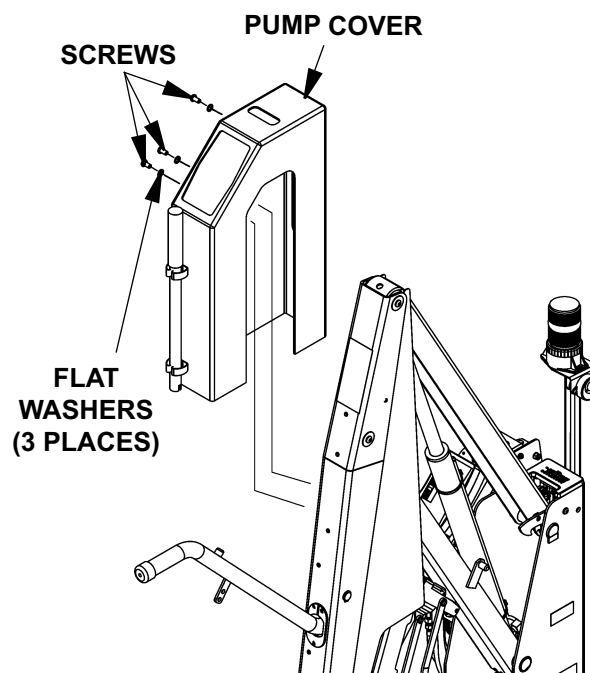


**HYDRAULIC FLUID LEVEL
(LH PUMP SHOWN)
FIG. 11-1**

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

TABLE 11-2

3. Bolt on the Pump Cover as shown in **FIG. 11-2**. Tighten the 5/16"-18 cover screws to approximately **20 LBS.-FT.**



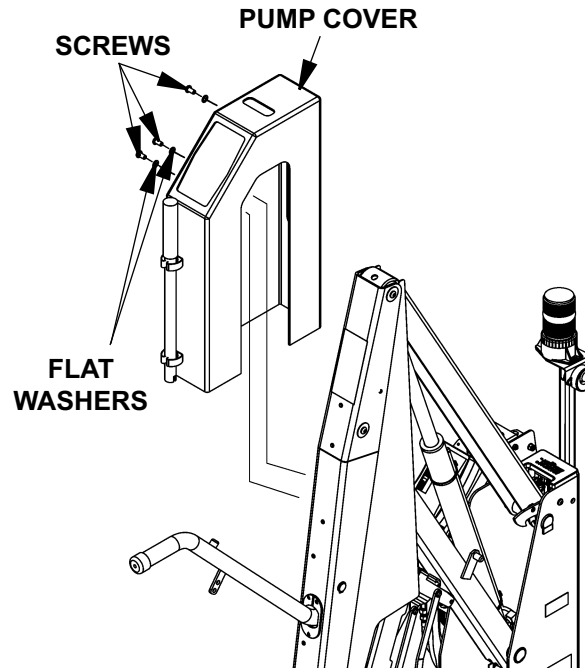
**BOLTING ON THE PUMP COVER
(LH PUMP SHOWN)
FIG. 11-2**

CHANGING HYDRAULIC FLUID

CAUTION

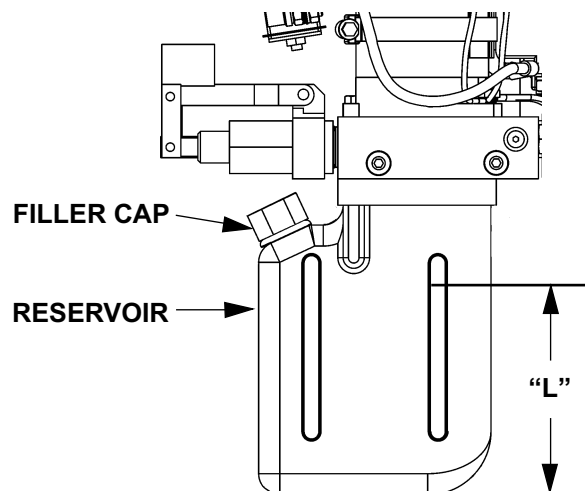
Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

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**

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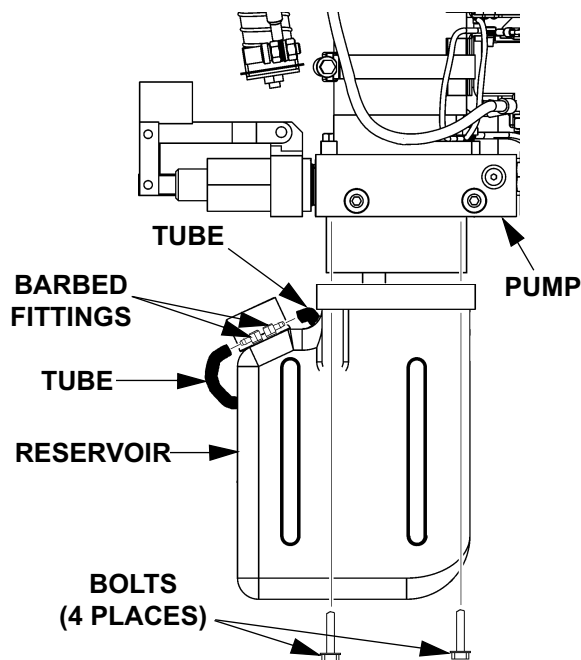
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3. Disconnect the 2 tubes from barbed fittings on the Reservoir (**FIG. 13-1**). Unbolt the Reservoir from Pump. Remove the Reservoir and pour the used hydraulic fluid into a drain pan.
4. Bolt the Reservoir on the Pump. (**FIG. 13-1**). Reconnect 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**).

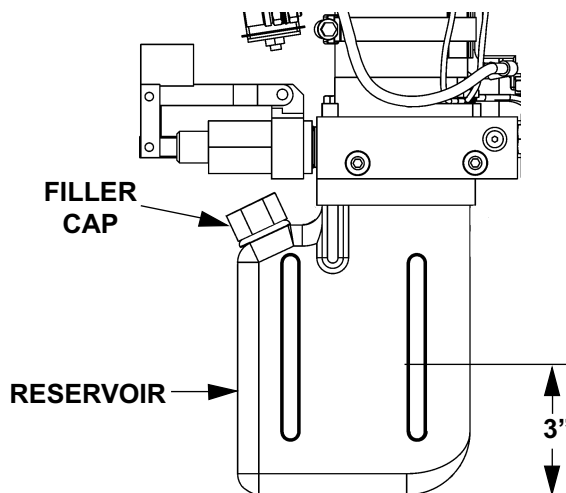
RECOMMENDED HYDRAULIC FLUID	
BRAND	PART NUMBER
ROSEMEAD	THS FLUID 17111
EXXON	UNIVIS HVI 26

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**. Torque the 5/16"-18 cover screws to approximately **20 LBS.-FT.**



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

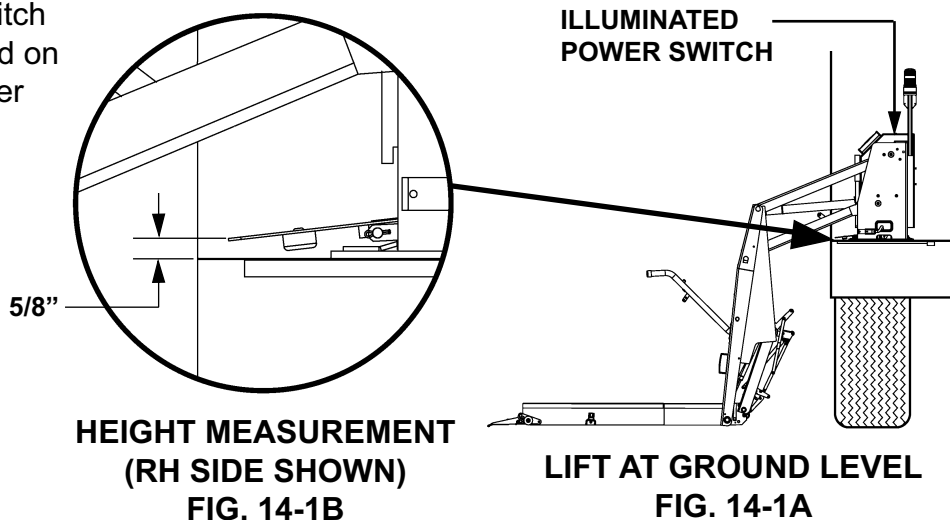


**HYDRAULIC FLUID LEVEL
(LH PUMP SHOWN)
FIG. 13-2**

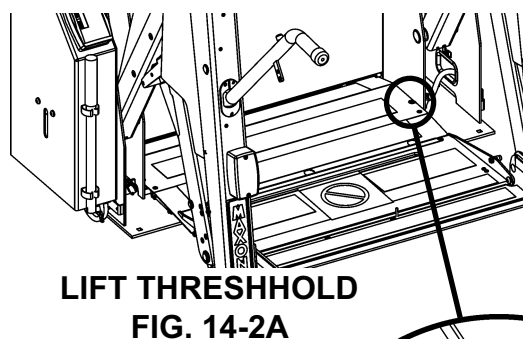
ADJUSTMENTS

MAT SWITCH ADJUSTMENT

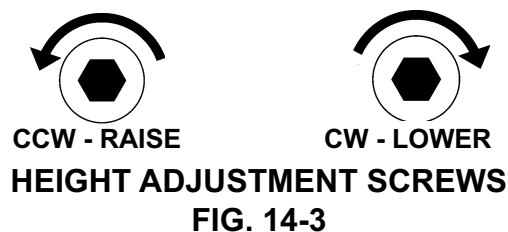
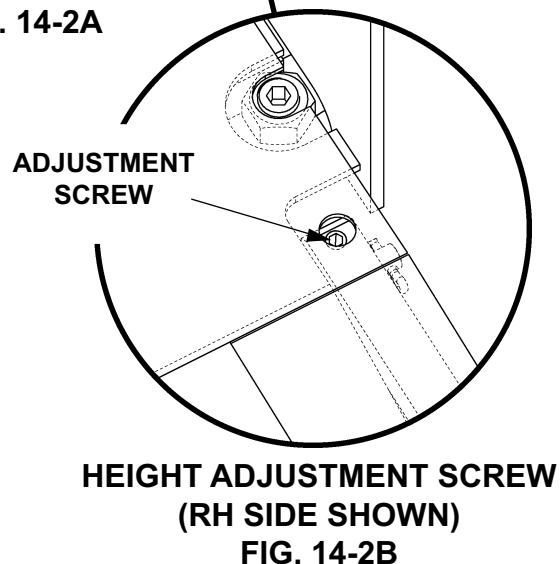
1. Make sure power switch (FIG. 14-1A) is turned on and illuminated. Lower Lift to the ground (FIG. 14-1A).



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.



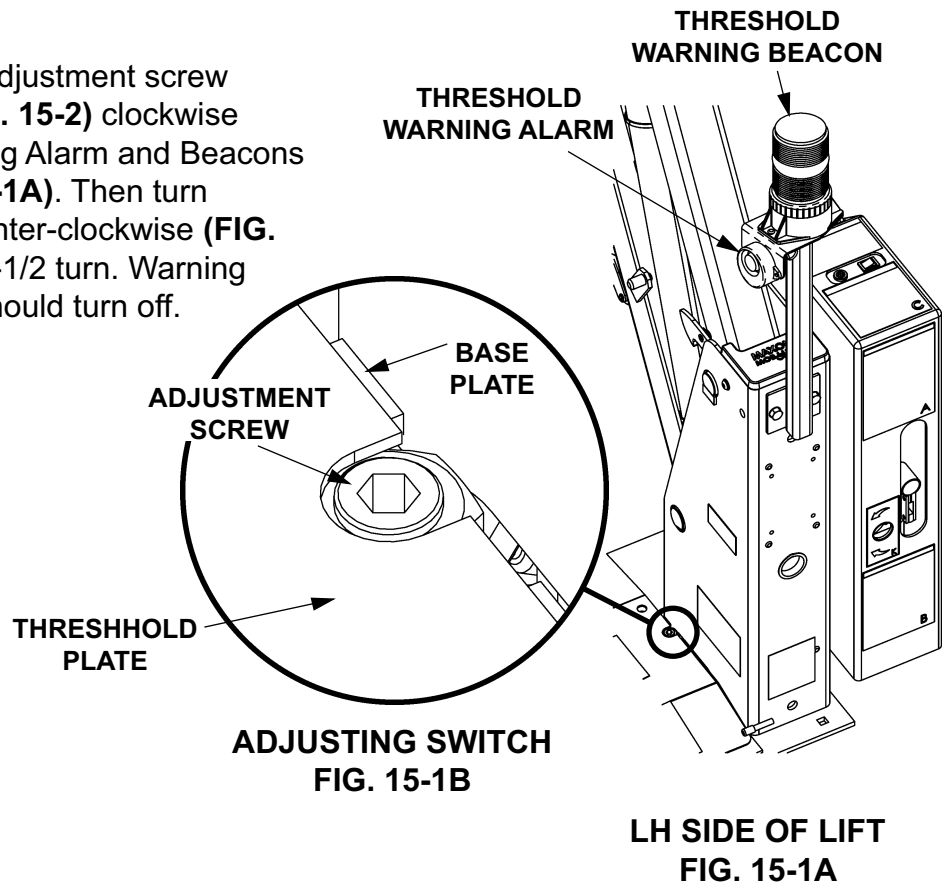
3. Set edge of the Threshold Plate to 5/8" height by turning the adjustment screw on the RH Side of Threshold plate (FIG. 14-2B). Turn adjustment screw counter-clockwise (FIG. 14-3) to raise Threshold Plate or clockwise to lower. Repeat for LH Side of Threshold Plate. Alternately measure height (see 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.



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4. Turn the MAT switch adjustment screw (**FIGS. 15-1B and FIG. 15-2**) clockwise until Threshold Warning Alarm and Beacons are activated (**FIG. 15-1A**). Then turn adjustment screw counter-clockwise (**FIG. 15-2**) approximately 1-1/2 turn. Warning Alarm and Beacons should turn off.



5. Step on Threshold Plate. Warning Alarm and Beacons should activate. If the Warning Alarm and Beacons do not activate, turn Adjustment Screw (**FIG. 15-1B**) clockwise (**FIG. 15-2**) a little. Repeat until Warning Alarm and Beacons activate when you step on Threshold Plate and turn off when you step off Threshold Plate.

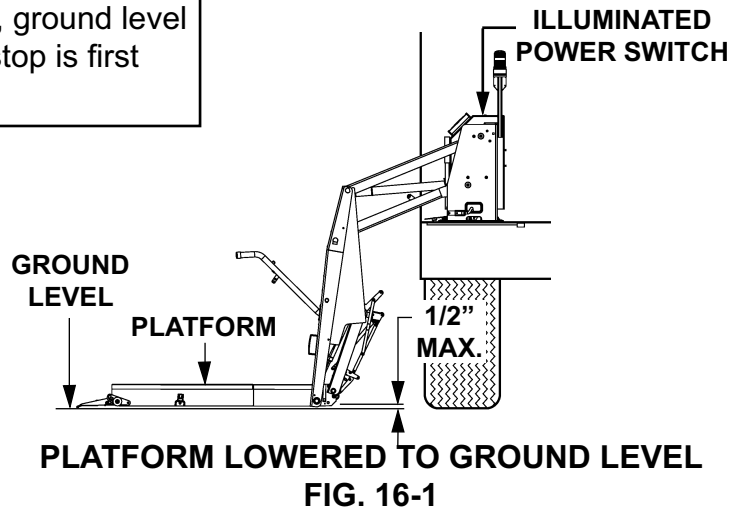
MAT SWITCH ADJUSTMENT SCREWS
FIG. 15-2

PLATFORM TILT ADJUSTMENT

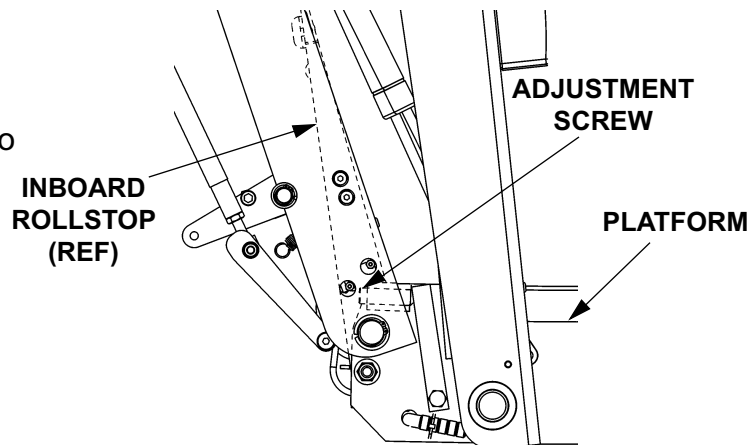
NOTE: The platform tilt adjustment is important for operation of the Outboard Rollstop and for keeping Platform level when it reaches the ground. Vehicle floor height, Lift installation angle, and stiffness of the Vehicle suspension may change the angle of Platform on the ground.

NOTE: For the following procedure, ground level is where the Outboard Rollstop is first fully opened for crossing.

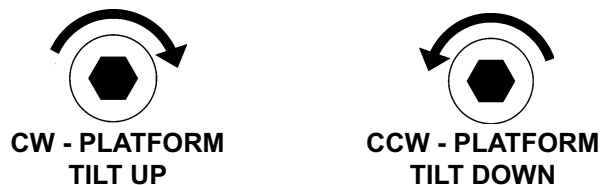
1. Make sure power switch (**FIG. 16-1**) is turned on and illuminated. Lower platform to ground level (**FIG. 16-1**).



2. Measure the distance between the inboard edge of Platform and the ground. Distance should be no more than 1/2" (**FIG. 16-1**).



3. To ensure proper leveling, turn PLATFORM TILT adjustment screws (**FIG. 16-2**) an equal amount, on both sides of Platform. Turn adjustment screws clockwise (**FIG. 16-3**) to tilt the Platform up or counter-clockwise to tilt Platform down.

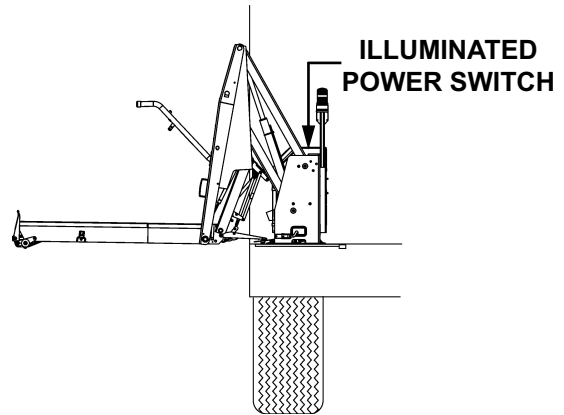


PLATFORM TILT ADJUSTMENT SCREWS
FIG. 16-3

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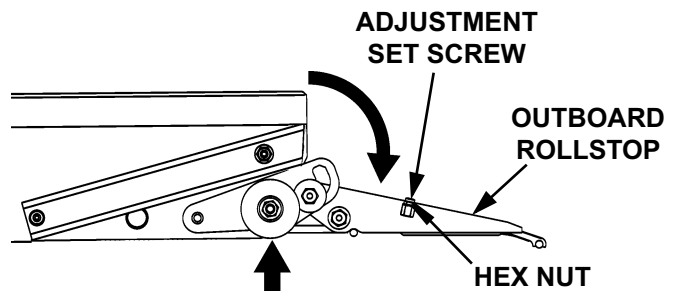
OUTBOARD ROLLSTOP SWITCH ADJUSTMENT

1. Make sure power switch (FIG. 18-1) is turned on and illuminated. Unfold the Lift (FIG. 18-1).



LIFT AT FLOOR LEVEL
(RH SIDE SHOWN)
FIG. 18-1

2. Push up on both Rollers to open the Outboard Rollstop (FIG. 18-2). Hold the Outboard Rollstop open.



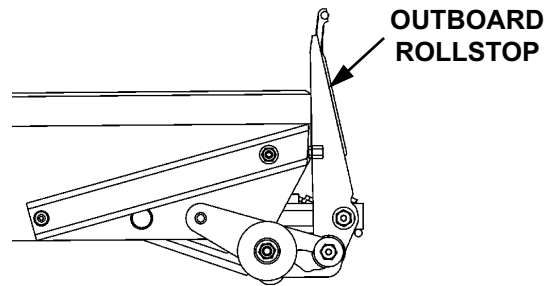
OUTBOARD ROLLSTOP OPENED
(LH SIDE OF PLATFORM SHOWN)
FIG. 18-2

3. Loosen hex nut (FIG. 18-2) on OUTBOARD ROLLSTOP adjustment screw. Turn OUTBOARD ROLLSTOP adjustment screw all the way in clockwise (FIG. 18-3).



CW -
SCREW IN COMPLETELY FOR "OUTBD
SW" READING ON CONTROLLER
OUTBOARD ROLLSTOP SWITCH
ADJUSTMENT SCREW
FIG. 18-3

4. Raise the Outboard Rollstop until completely closed (**FIG. 19-1**). Controller should read **OUTBD SW** (**FIG. 19-2**).

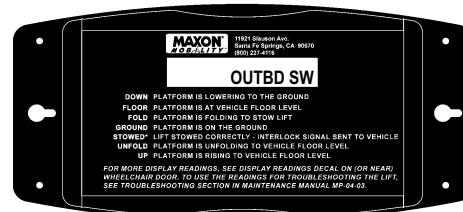


**OUTBOARD ROLLSTOP CLOSED
(LH SIDE OF PLATFORM SHOWN)
FIG. 19-1**

5. Push up on both Rollers to open the Outboard Rollstop (**FIG. 18-2**). Hold the Outboard Rollstop open.

CAUTION

To prevent damage to **OUTBOARD ROLLSTOP** switch, make sure adjustment screw is not backed out far enough to deform the switch actuator when Outboard Rollstop is completely closed.



**CONTROLLER READING -
“OUTBOARD SWITCH”
FIG. 19-2**

6. Turn **OUTBOARD ROLLSTOP** adjustment screw counter-clockwise 1 turn (**FIG. 19-3**). Repeat steps 4 through 6 until Controller reading does not show **OUTBD SW** (**FIG. 19-4**).

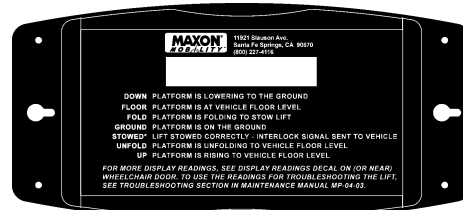


**CCW -
1 TURN AT A TIME UNTIL CON-
TROLLER READING IS NOT
“OUTBD SW”**

7. Push up on both Rollers to open the Outboard Rollstop (**FIG. 18-2**). Hold the Outboard Rollstop open.

**OUTBOARD ROLLSTOP SWITCH
ADJUSTMENT SCREW
FIG. 19-3**

8. Tighten hex nut (**FIG. 18-2**) on **OUTBOARD ROLLSTOP** adjustment screw.

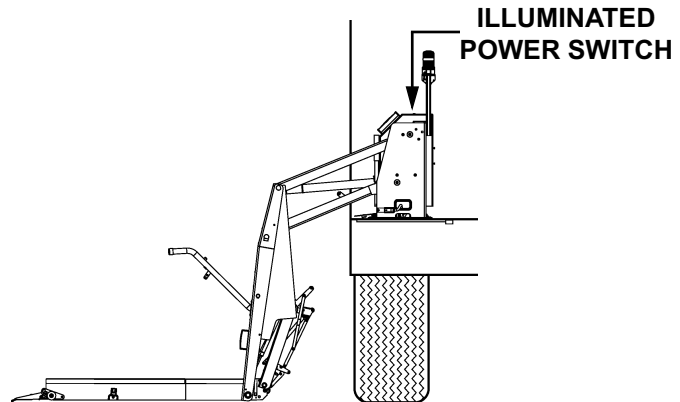


**CONTROLLER NOT READING
“OUTBOARD SWITCH”
FIG. 19-4**

9. Operate the Lift to make sure **OUTBOARD SW** reading does not reappear on Controller.

GROUND SWITCH ADJUSTMENT

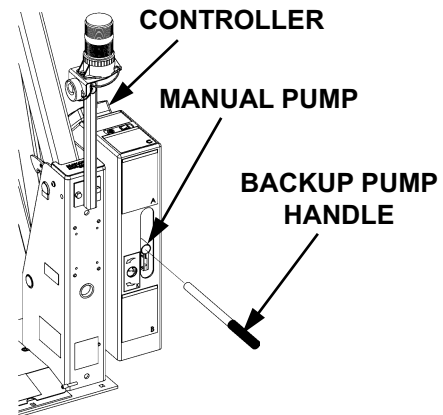
1. Make sure power switch (**FIG. 20-1**) is illuminated and turned on. Lower the Platform to the ground (**FIG. 20-1**).



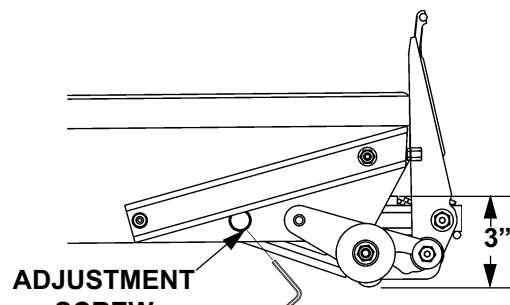
PLATFORM AT GROUND LEVEL
FIG. 20-1

NOTE: When using the Manual 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 Manual Pump before you start pumping with the Handle. See the Operation Manual for more information on operating the Manual Pump.

2. Use the Manual Pump (**FIG. 20-2**) to raise the Lift so the top surface of the Platform is 3" above ground (**FIG. 20-3**). Controller reading should be **UP** (**FIG. 21-1**), but could read **GROUND** (**FIG. 21-2**) if switch requires adjustment.



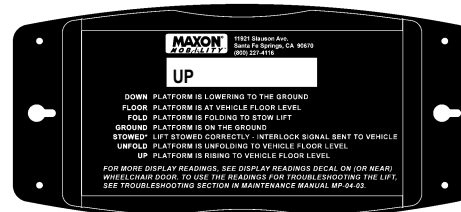
LIFT WITH LH PUMP
(LH TOWER SHOWN)
FIG. 20-2



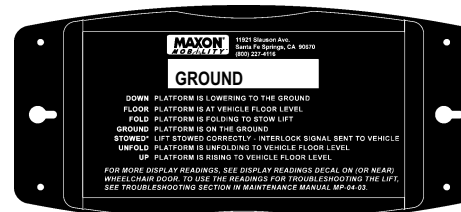
ADJUSTING GROUND SWITCH
FIG. 20-3

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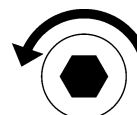


**CONTROLLER READING -
PLATFORM RAISED 3"
ABOVE GROUND
FIG. 21-1**



**CONTROLLER READING -
PLATFORM AT GROUND LEVEL
FIG. 21-2**

3. Turn the GROUND switch adjustment screw (**FIG. 21-3**) counter-clockwise until switch "clicks" and Controller reads **GROUND** (**FIG. 21-2**). Next turn GROUND switch adjustment screw clockwise (**FIGS. 20-3 & 21-3**) until switch "clicks" and Controller reads **UP** (**FIG. 21-1**).



CCW -

**UNTIL CONTROLLER
READS "GROUND"**



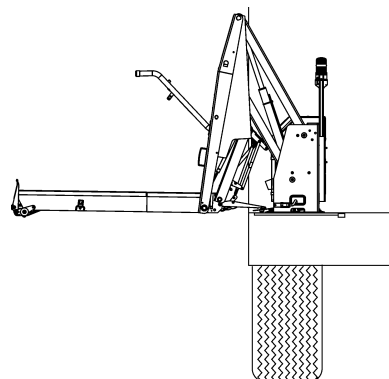
CW -

**UNTIL CONTROLLER
READS "UP"**

**GROUND SWITCH ADJUSTMENT SCREW
FIG. 21-3**

4. Raise the Platform to Vehicle Floor level (**FIG. 21-4**). Then lower the Platform back to the ground (**FIG. 20-1**). Controller should read **GROUND** (**FIG. 21-2**).

5. Use the Manual Pump (**FIG. 20-2**) to raise the Platform so the top surface of Platform is 3" above ground (**FIG. 20-3**). Controller should display **UP** (**FIG. 21-1**).



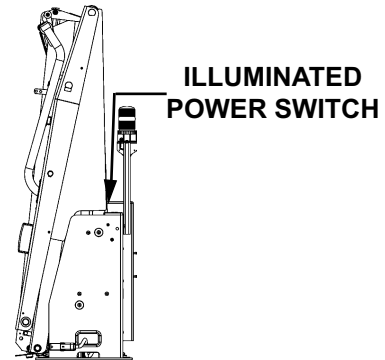
**LIFT AT FLOOR LEVEL
FIG. 21-4**

STOW SWITCH ADJUSTMENT

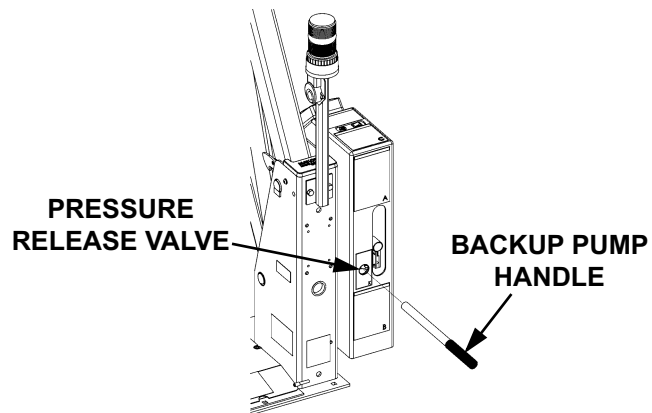
1. Make sure power switch (**FIG. 22-1**) is turned on and illuminated. Stow the Lift (**FIG. 22-1**).

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.

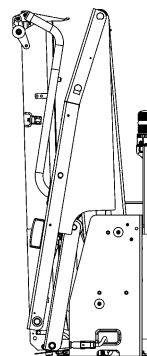
2. Open the pressure release valve (**FIG. 22-2**) counter-clockwise with the Backup Pump Handle. As the Lift starts to unfold and rests against the latches (**FIG. 22-3**), close the pressure release valve (**FIG. 22-2**) clockwise).



**STOWED LIFT
(PUMP ON LH SIDE)
FIG. 22-1**



**LIFT WITH LH PUMP
(LH TOWER SHOWN)
FIG. 22-2**



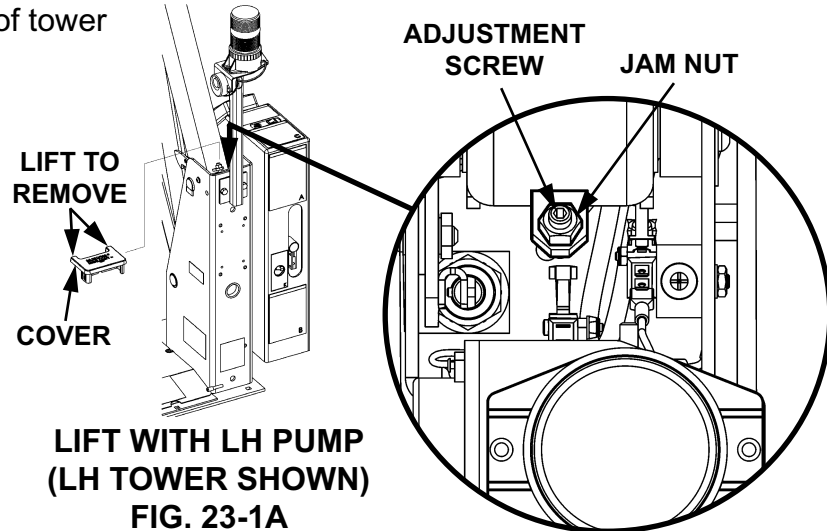
**LIFT RESTING ON
LATCHES
FIG. 22-3**

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NOTE: The STOW switch adjustment screw is always on the same side of the Lift as the Pump Cover.

3. Remove cover from top of tower (FIG. 23-1A).

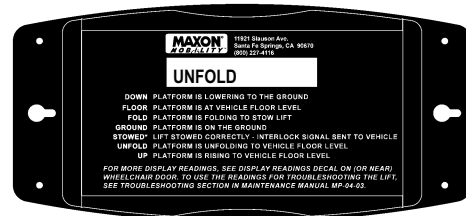


4. Loosen jam nut (FIG. 23-1B) on the STOW switch adjustment screw. Then turn adjustment screw counter-clockwise (FIG. 23-2) until Controller reading is **UNFOLD** (FIG. 23-3). Next turn adjustment screw clockwise (FIG. 23-2) until Controller reading is **STOW** (FIG. 23-4).

STOW SWITCH ADJUSTMENT
FIG. 23-1B

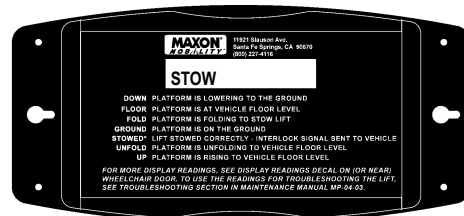


5. Repeat step 1 to stow the Lift and check the Platform in the stowed position.



CONTROLLER READING
FIG. 23-3

6. When adjustment is complete, tighten jam nut (FIG. 23-1B) on the STOW switch adjustment screw.

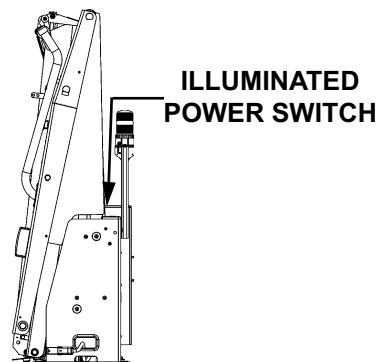


CONTROLLER READING
FIG. 23-4

7. Reinstall cover on tower (FIG. 23-1A).

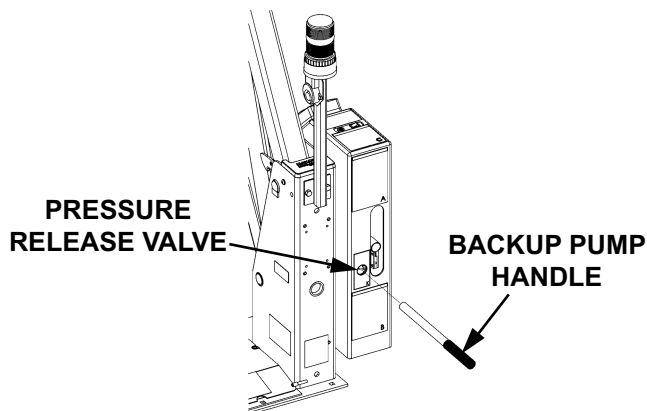
STAR (*) SWITCH ADJUSTMENT

1. Make sure power switch (**FIG. 24-1**) is turned on and illuminated. Stow the Lift (**FIG. 24-1**).

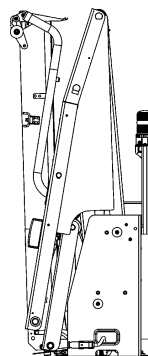


**STOWED LIFT
(PUMP ON LH SIDE)
FIG. 24-1**

2. Open the pressure release valve (**FIG. 24-2**) counter-clockwise with the Backup Pump Handle. As the Lift starts to unfold and rests against the latches (**FIG. 24-3**), close the pressure release valve clockwise (**FIG. 24-2**).



**LIFT WITH LH PUMP
(LH TOWER SHOWN)
FIG. 24-2**



**LIFT RESTING ON
LATCHES
FIG. 24-3**

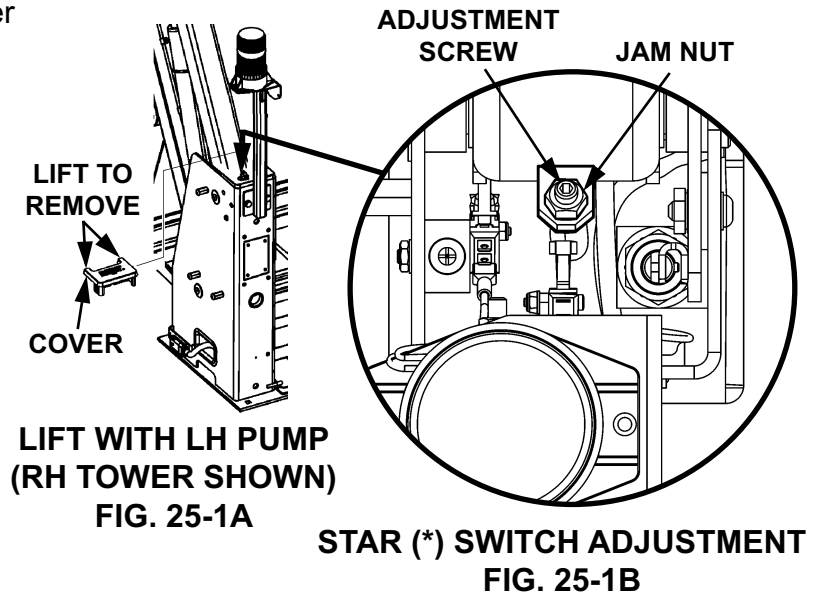
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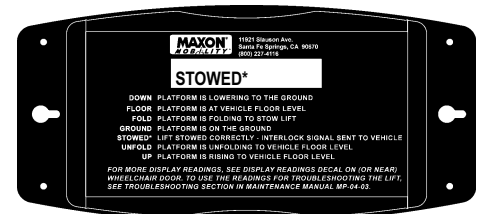
NOTE: The STAR (*) adjustment screw is always on the opposite side of the Lift from the Pump Cover.

3. Remove cover from top of tower (FIG. 25-1A).

4. Loosen jam nut (FIG. 25-1B). Turn the STAR (*) switch adjustment screw (FIGS. 25-1B & 25-3) until Lift Controller displays **STOWED*** (FIG. 25-2).



5. Next turn the STAR (*) switch adjustment screw (FIG. 25-3) another 1/2 turn clockwise. Then tighten jam nut (FIG. 25-1B).



**CONTROLLER READING -
PLATFORM STOWED & STAR
SWITCH ACTIVATED**
FIG. 25-2

6. Repeat steps 1 and 2. Lift Controller should display **STOWED*** (FIG. 25-2) when Lift is stowed and when Lift is resting on the latches.



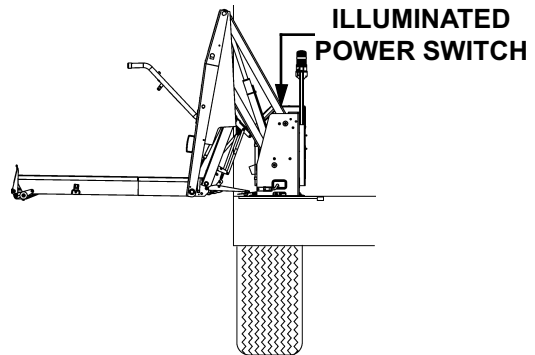
7. Reinstall cover on tower (FIG. 25-1A).

**STAR (*) SWITCH
ADJUSTMENT SCREW**
FIG. 25-3

FOLD SWITCH ADJUSTMENT

NOTE: The FOLD switch adjustment screw is always on the same side of the Lift as the Pump Cover.

1. Make sure power switch (**FIG. 26-1**) is turned on and illuminated. Unfold the Platform to floor level (**FIG. 26-1**). Make sure Controller is reading **FLOOR** (**FIG. 26-2**) before going to the next step.

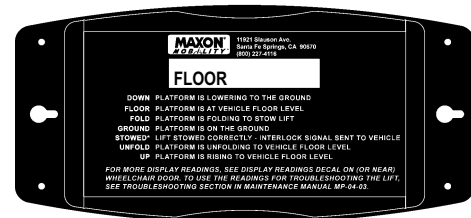


**LIFT AT FLOOR LEVEL
FIG. 26-1**

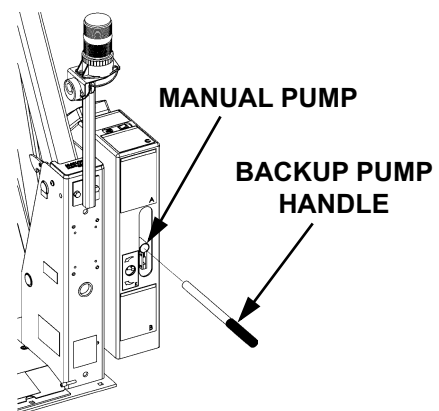
NOTE: When using the Manual Pump, first make sure the notches are lined up vertically on tip of the Manual Back-up Handle. Then make sure Handle is fully engaged with Manual Pump before you start pumping with the Handle. See the Operation Manual for more information on operating the Manual Pump.

NOTE: Watch the Controller readings as the Platform starts folding.

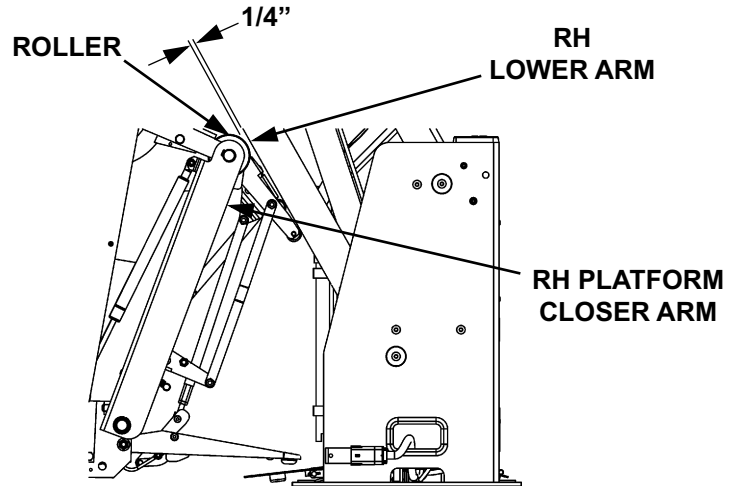
2. Use the Backup Pump (**FIG. 26-3**) to move the roller on the RH Platform Closer Arm to approximately 1/4" from the bottom of the RH Lower Arm (**FIG. 27-1**).



**CONTROLLER READING -
PLATFORM AT FLOOR LEVEL
FIG. 26-2**



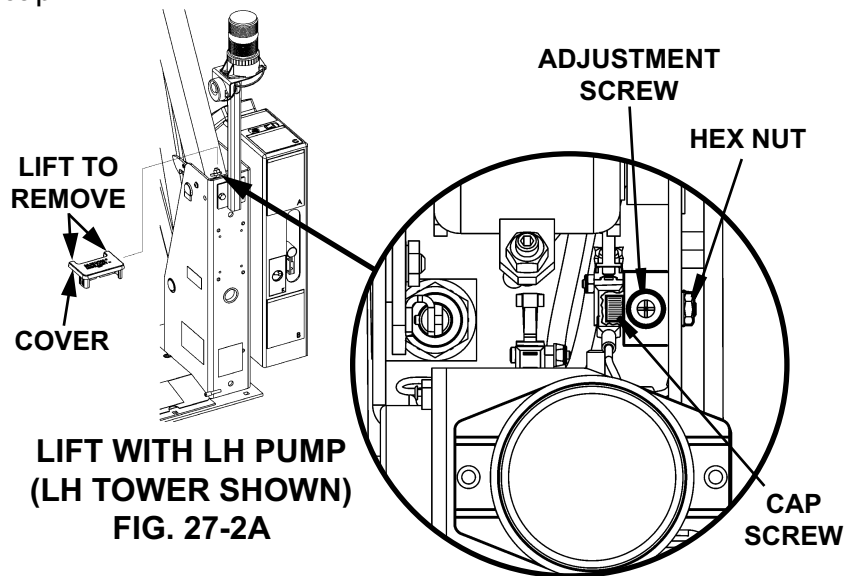
**LIFT WITH LH PUMP
(LH TOWER SHOWN)
FIG. 26-3**



**CHECKING ROLLER 1/4" CLEARANCE
(RH TOWER SHOWN)
FIG. 27-1**

3. Remove cover from top of tower (**FIG. 27-2A**).

4. Loosen hex nut and cap screw (**FIG. 27-2B**).



**FOLD SWITCH ADJUSTMENT
FIG. 27-2B**

FOLD SWITCH ADJUSTMENT - Continued

5. Turn adjustment screw clockwise or counter-clockwise as required (**FIG. 28-1**) until Controller reads **FOLD**. (**FIG. 28-2**) and then **FLOOR** (**FIG. 28-3**).



CW -

LIFT STARTS FOLDING WITH
ROLLER FARTHER FROM ARM

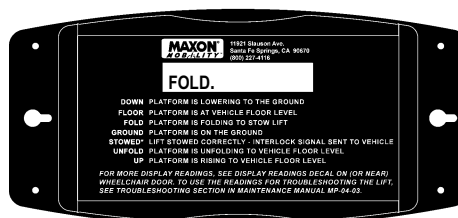


CCW -

LIFT STARTS FOLDING WITH
ROLLER CLOSER TO ARM

FOLD SWITCH ADJUSTMENT SCREW

FIG. 28-1



CONTROLLER READING - PLATFORM FOLDING

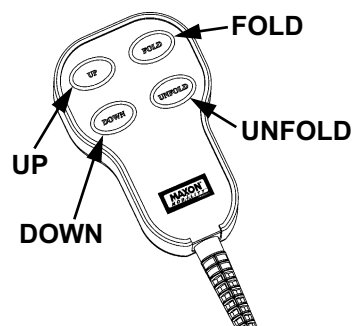
FIG. 28-2



CONTROLLER READING - PLATFORM AT FLOOR LEVEL

FIG. 28-3

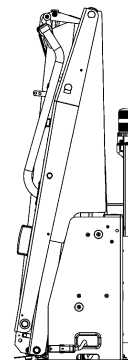
6. Push **FOLD** on the Hand Control (**FIG. 28-4**) to stow the Lift (**FIG. 29-1**).



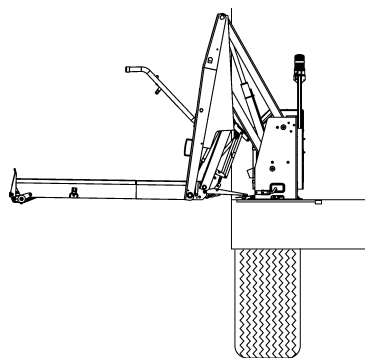
HAND CONTROL

FIG. 28-4

7. Push **UNFOLD** on the Hand Control (**FIG. 28-4**) to unfold the Lift to floor level (**FIG. 29-2**). Make sure Controller reads **FLOOR** (**FIG. 28-3**).

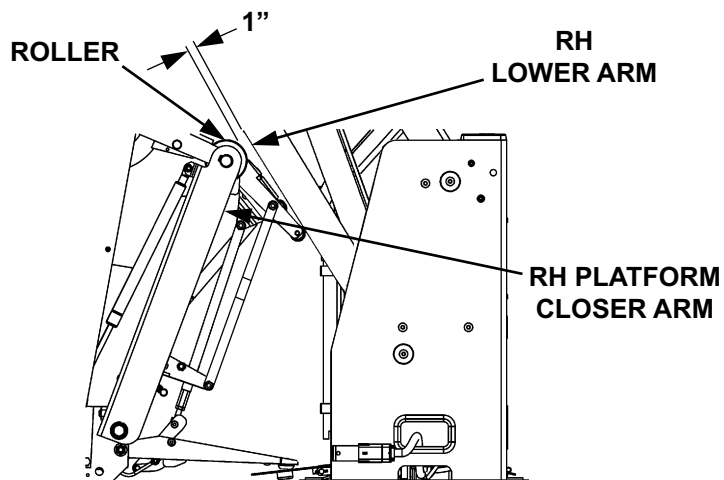


**STOWED LIFT
(PUMP ON LH SIDE)
FIG. 29-1**



**LIFT AT FLOOR LEVEL
FIG. 29-2**

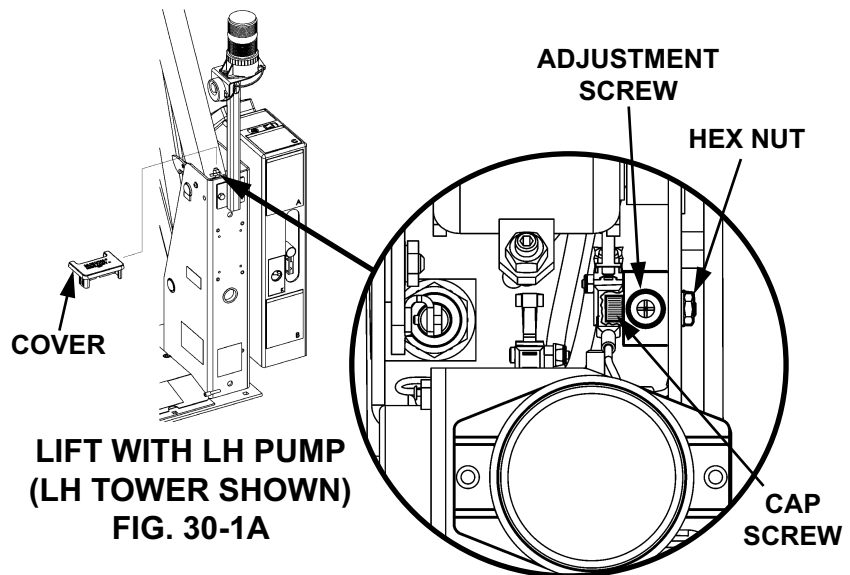
8. Make sure roller on the RH Platform Closer Arm is approximately 1" from the bottom of the RH Lower Arm (**FIG. 29-3**).



**ROLLER 1" CLEARANCE
(RH TOWER SHOWN)
FIG. 29-3**

FOLD SWITCH ADJUSTMENT - Continued

9. Repeat steps 1 through 8 if required. If adjustment is complete, tighten hex nut and cap screw (**FIG. 30-1B**) to keep the adjuster setting.

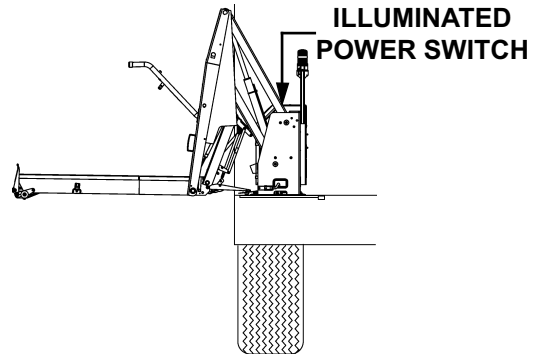


10. Reinstall the Cover on top of tower (**FIG. 30-1A**)

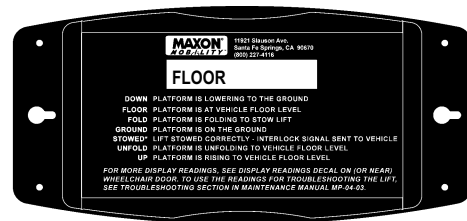
LOWERING SWITCH ADJUSTMENT

NOTE: The Platform LOWERING switch adjustment screw is always on the opposite side of the Lift from the Pump Cover.

1. Make sure power switch (**FIG. 31-1**) is turned on and illuminated. Unfold the Platform to floor level (**FIG. 31-1**). Make sure Controller is reading **FLOOR** (**FIG. 31-2**).



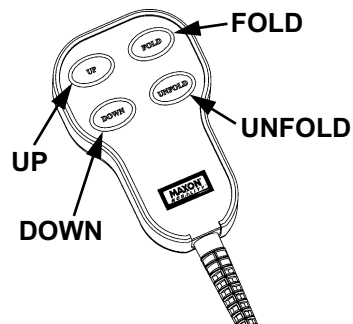
**LIFT AT FLOOR LEVEL
FIG. 31-1**



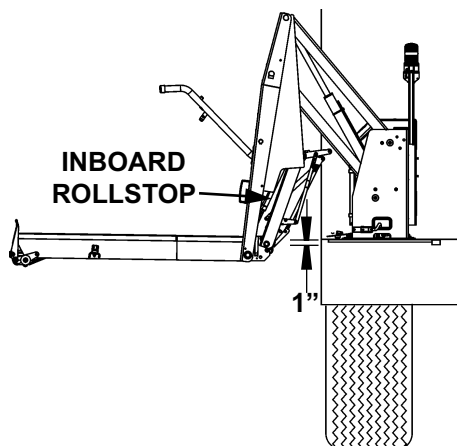
**CONTROLLER READING -
PLATFORM AT FLOOR LEVEL
FIG. 31-2**

LOWERING SWITCH ADJUSTMENT - Continued

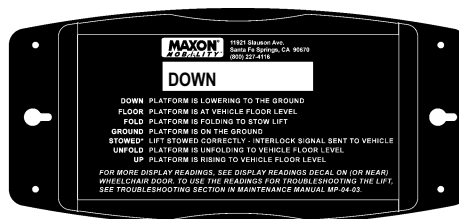
2. Use hand control (**FIG. 32-1**) to lower the Platform **DOWN** approximately 1" below vehicle floor level (**FIG. 32-2**). Make sure Inboard Rollstop is raised up fully (**FIG. 32-2**) and Controller is reading **DOWN** (**FIG. 32-3**).



**HAND CONTROL
FIG. 32-1**



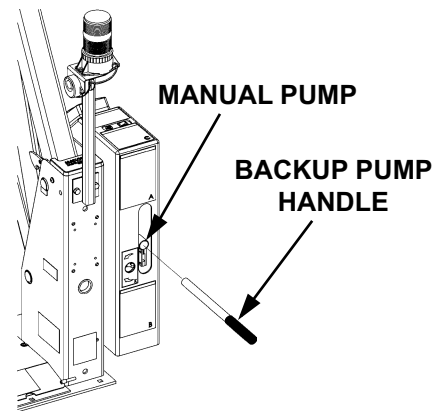
**PLATFORM 1" BELOW
FLOOR LEVEL
FIG. 32-2**



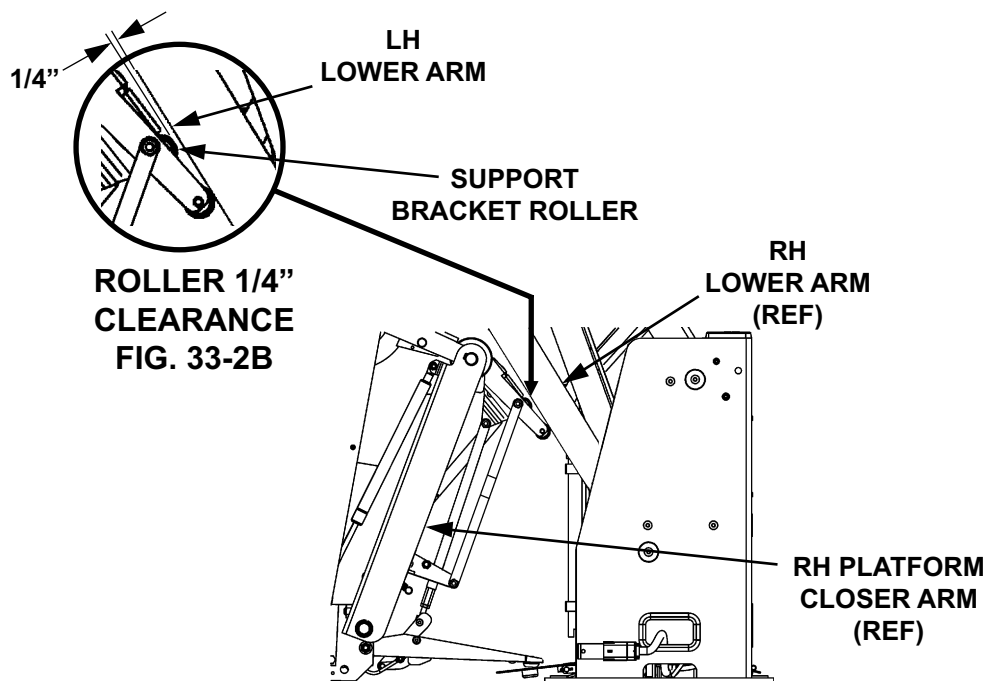
**CONTROLLER READING -
PLATFORM 1" BELOW FLOOR LEVEL
FIG. 32-3**

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.

3. Use the Backup Pump (FIG. 33-1) to raise Platform until Support Bracket Roller is approximately 1/4" from the bottom of the LH Lower Arm (FIGS. 33-2A and 33-2B).



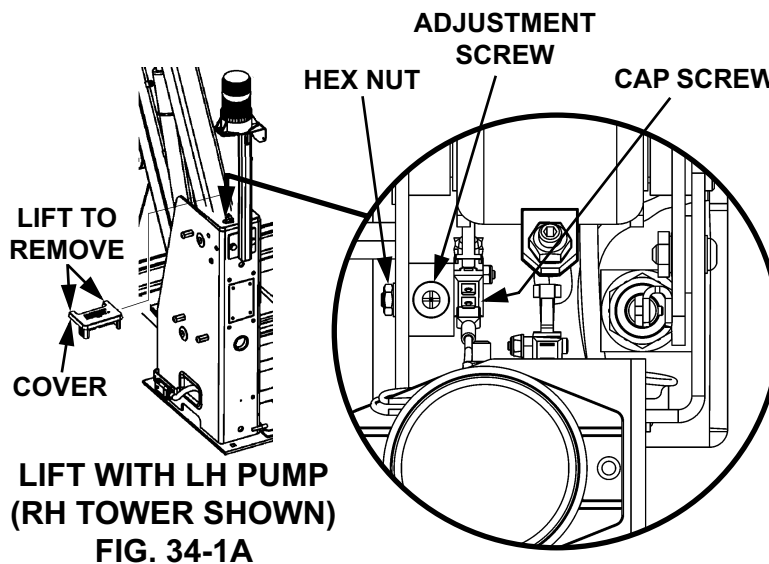
**LIFT WITH LH PUMP
(LH TOWER SHOWN)
FIG. 33-1**



**CHECKING SUPPORT BRACKET
ROLLER CLEARANCE
(RH TOWER SHOWN)
FIG. 33-2A**

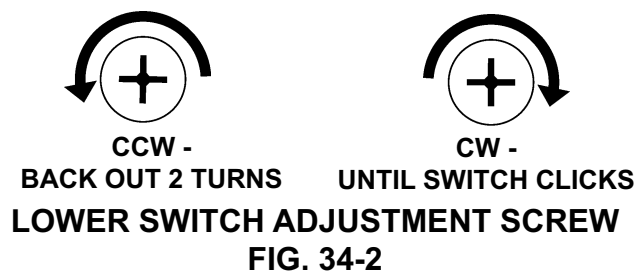
LOWERING SWITCH ADJUSTMENT - Continued

4. Remove the Cover from top of tower (**FIG. 34-1A**).

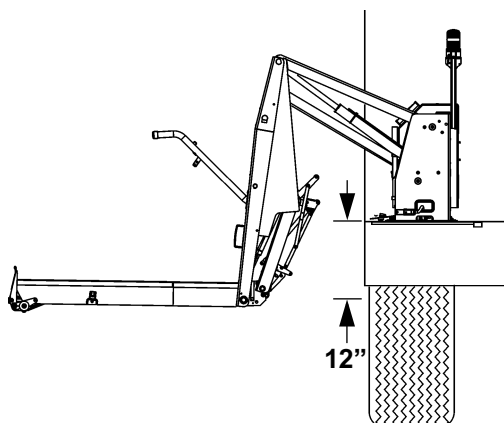


**LOWER SWITCH ADJUSTMENT
FIG. 34-1B**

5. Loosen hex nut and cap screw (**FIG. 34-1B**). Next turn adjustment screw counter-clockwise 2 turns (**FIG. 34-2**). Then turn adjustment screw clockwise (**FIG. 34-2**) until LOWER switch clicks.

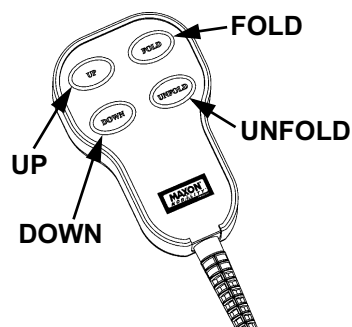


6. Use hand control (**FIG. 35-1**) to lower the Platform **DOWN** approximately 12" below vehicle floor level (**FIG. 34-3**).



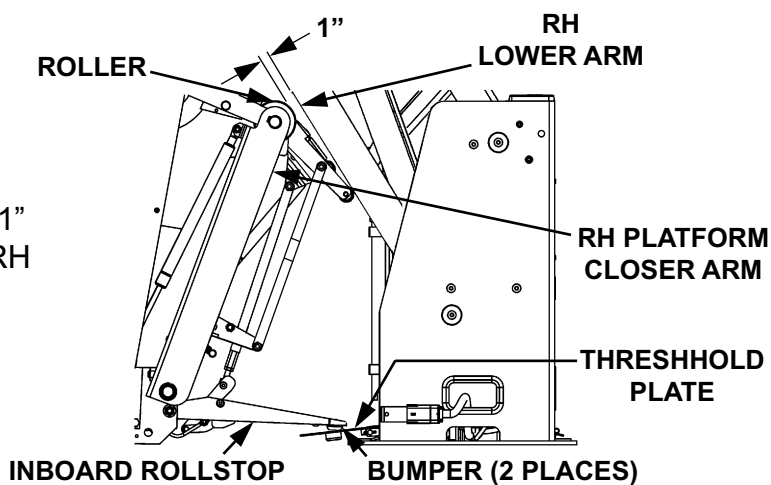
**PLATFORM 12" BELOW
FLOOR LEVEL
FIG. 34-3**

7. Next use hand control (**FIG. 35-1**) to raise the Platform **UP** until it stops at floor level (**FIG. 35-2**). Controller should read **FLOOR** (**FIG. 35-3**). Inboard Rollstop should be completely open and bumpers resting on Threshold Plate (**FIG. 35-2**).



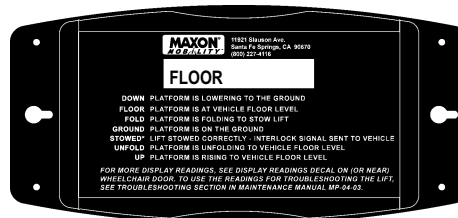
**HAND CONTROL
FIG. 35-1**

8. Make sure there is approximately 1" clearance between Roller on the RH Closer Arm and bottom of the RH Lower Arm (**FIG. 35-2**).



**CHECKING ROLLER 1" CLEARANCE
(RH TOWER SHOWN)
FIG. 35-2**

9. If needed, turn the adjustment screw as shown in **FIG. 35-4** to decrease or increase clearance between roller on the RH Platform Closer Arm and the bottom of the RH Lower Arm (**FIG. 35-2**). Repeat steps 6 through 8 to check for correct clearance.



**CONTROLLER READING -
PLATFORM AT FLOOR LEVEL
FIG. 35-3**

10. When adjustment is complete, tighten hex nut and cap screw (**FIG. 34-1B**).

11. Reinstall cover on tower (**FIG. 34-1A**).



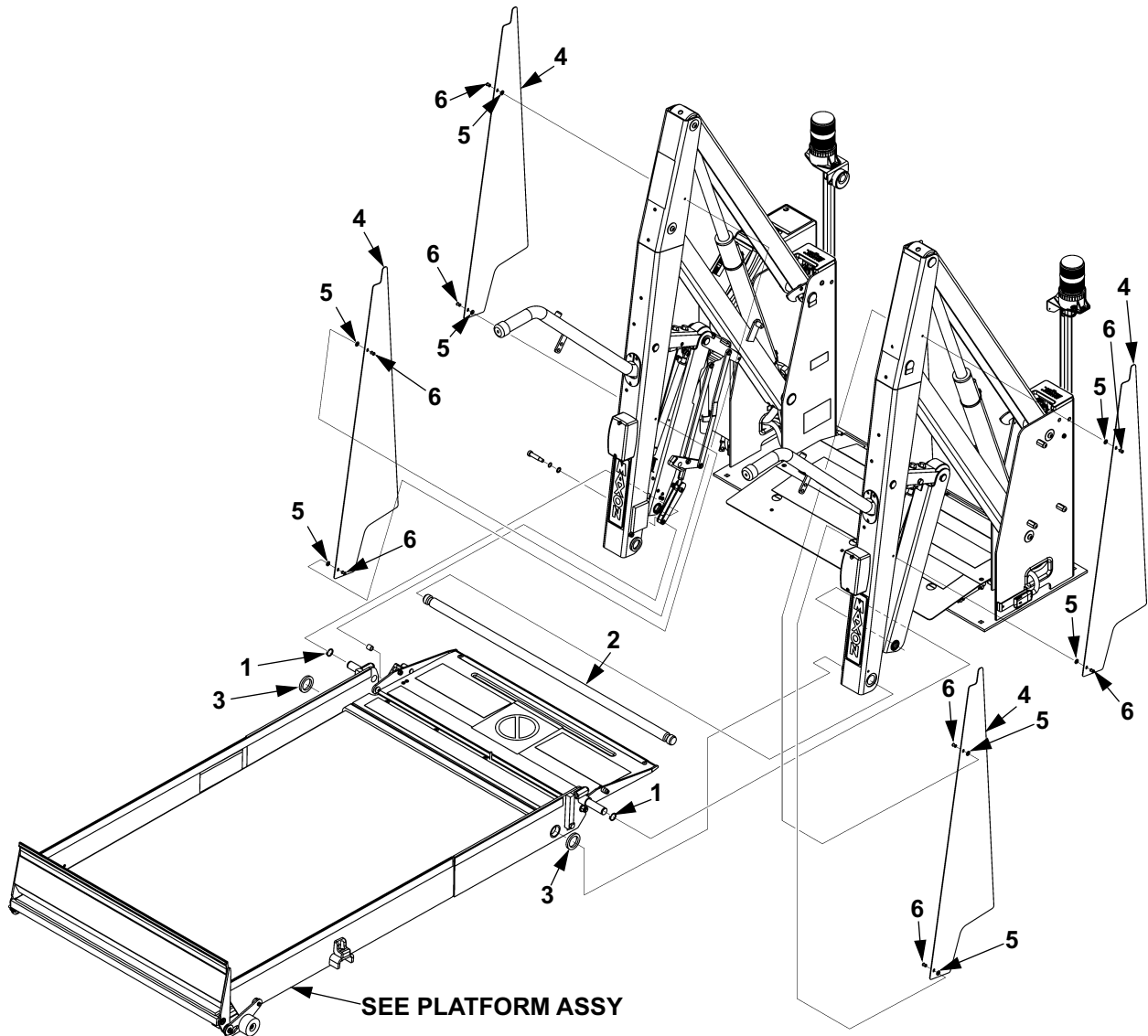
**DECREASE CLEARANCE INCREASE CLEARANCE
LOWER SWITCH ADJUSTMENT SCREW
FIG. 35-4**

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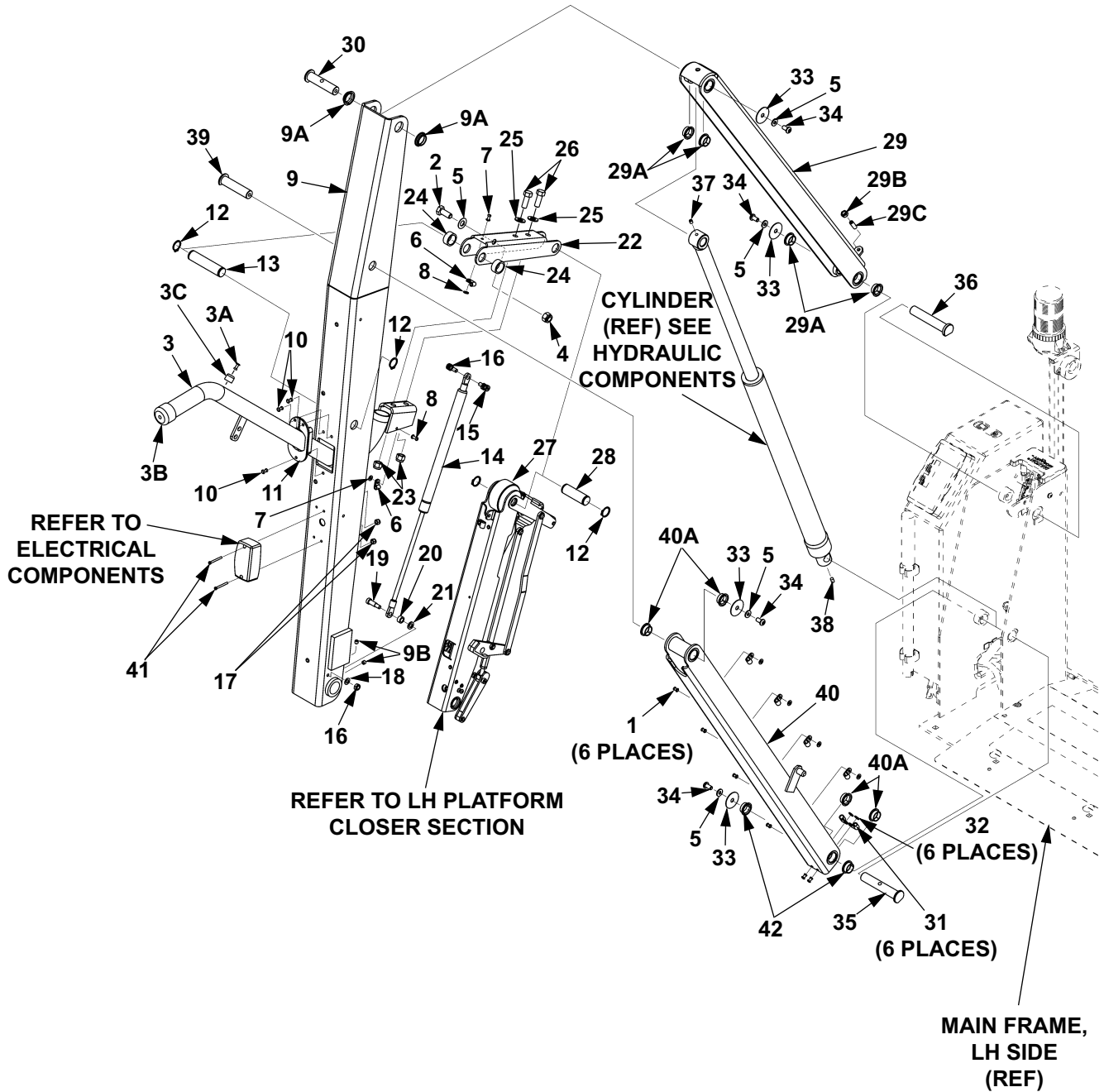
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PARTS BREAKDOWN MAIN ASSEMBLY-1



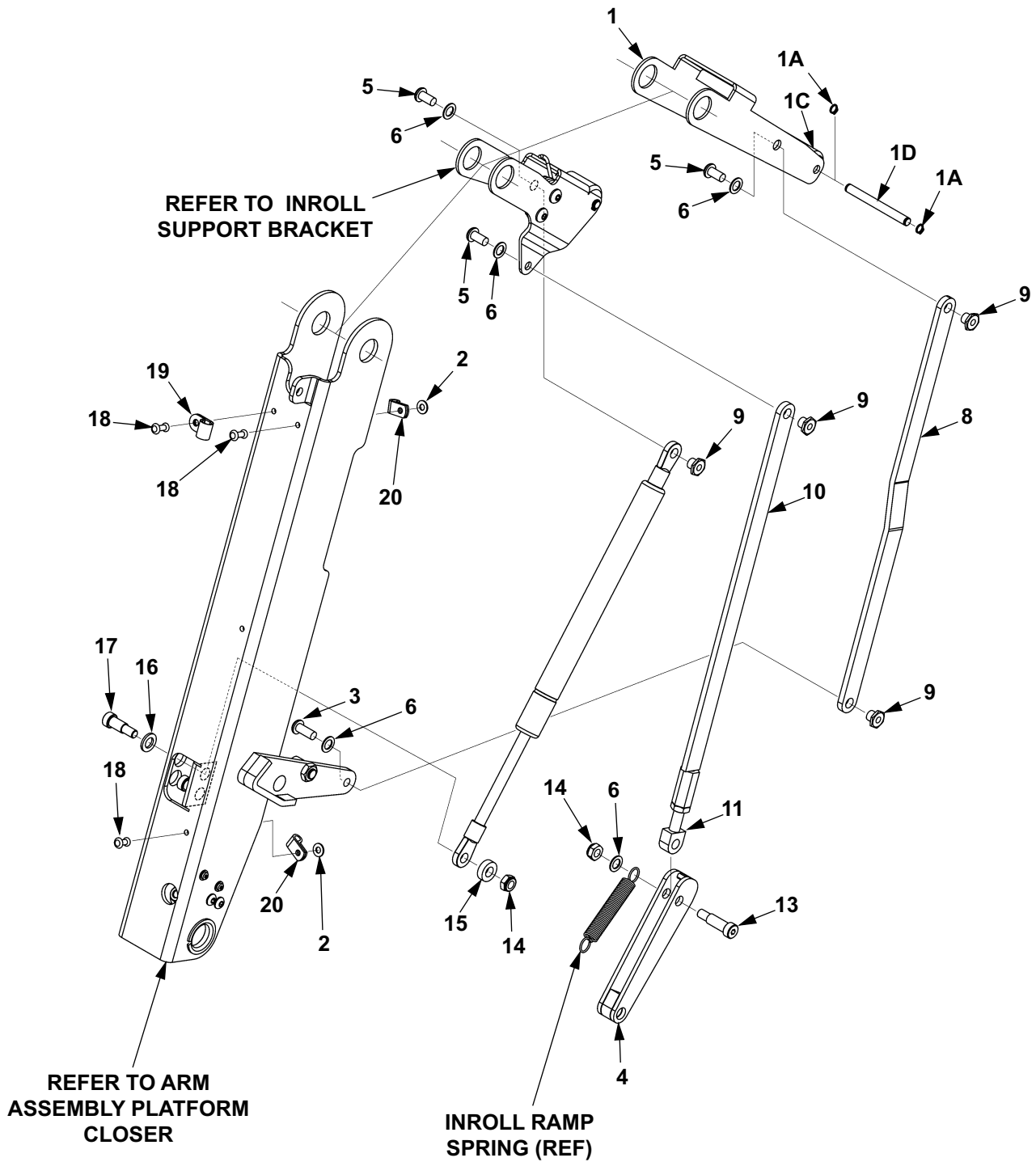
ITEM	QTY.	PART NO.	DESCRIPTION
1	2	905005	RETAINING RING, 3/4"
2	1	265038-03	SHAFT, 36" LG.
		265038-04	SHAFT, 39" LG.
3	2	261321	SPACER
4	4	267110-01	PINCH SHIELD, PLASTIC
5	8	902000-5	FLAT WASHER, #10
6	8	904002-2	RIVET, 3/16" DIA. X 9/16" LG.

MAIN ASSEMBLY-2



ITEM	QTY.	PART NO.	DESCRIPTION
1	6	904002-2	RIVET, 0.19" 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, 0.156" 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	906414-01	CABLE CLAMP
7	2	904004-3	RIVET, 0.156" DIA X 0.550" LG.
8	2	902000-4	FLAT WASHER, #8
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	3	904004-2	RIVET, 3/16" DIA. X.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
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	902000-8	FLAT WASHER, 5/16"
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, 23/8" LG.
29	1	266609-01	UPPER ARM ASSEMBLY (BEARINGS INCLUDED)
29A	4	265072	SELF LUBE BEARING
29B	1	901005	HEX NUT, 5/16"-18, GRADE 8
29C	1	903006-1	SET SCREW, 5/16"-18 X 1" LG.
30	1	266641-01	PIN, UPPER ARM
31	6	905056	CLAMP
32	6	902000-5	FLAT WASHER, #10
33	4	902004-02	FENDER FLAT WASHER, 11/32"
34	4	900001-11	BUTTON SCREW, 5/16"-18 X 5/8" LG.
35	1	266641-02	PIN, LOWER ARM-TOWER
36	1	266642-02	PIN, UPPER ARM-TOWER
37	1	903002-7	SET SCREW, 1/4"-20 X 3/8" LG.
38	1	903002-1	SET SCREW 1/4"-20 X 1/2" LG.
39	1	266642-01	PIN, LOWER ARM-VERTICAL ARM
40	1	266611-01	LOWER ARM ASSEMBLY LH (BEARINGS INCLUDED)
40A	4	265072	SELF LUBE BEARING
41	2	900023-11	PAN HEAD SCREW, #8-32 X 2" LG.
42	2	265072	SELF LUBE BEARING

LH PLATFORM CLOSER

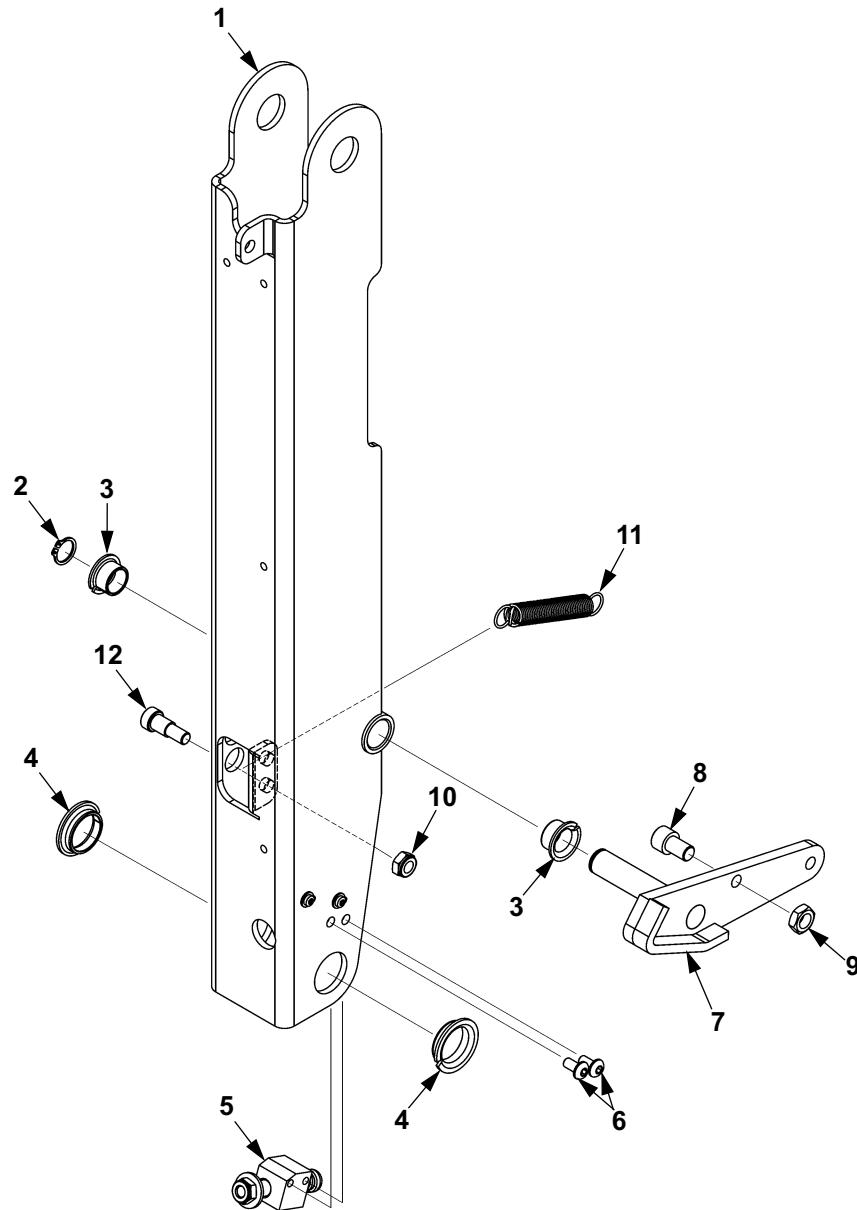


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ITEM	QTY.	PART NO.	DESCRIPTION
1	1	267552-01	INROLL LOCK BRACKET ASSEMBLY
1A	2	905004-01	RETAINING RING, 1/4"
1B	1	267577-02	PIN, 1/4" X 2-13/32" LG.
1C	1	267450-02	ROLLER, 2-1/8" LG.
2	2	902000-4	FLAT WASHER, #8
3	1	900719-4	BUTTON SCREW 1/4"-20 X 5/8" LG.
4	1	267498-01	LOWER LINK WELDMENT
5	3	900719-03	BUTTON SCREW 1/4-20 X 1/2" LG.
6	5	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"
12	1	267423-01	GAS SPRING
13	1	900727-05	SHOULDER SCREW 5/16" X 3/4" LG.
14	2	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, .156" DIA X .550" LG.
19	1	905056	CABLE CLAMP
20	2	906414-01	CABLE CLAMP

PLATFORM CLOSER ARM

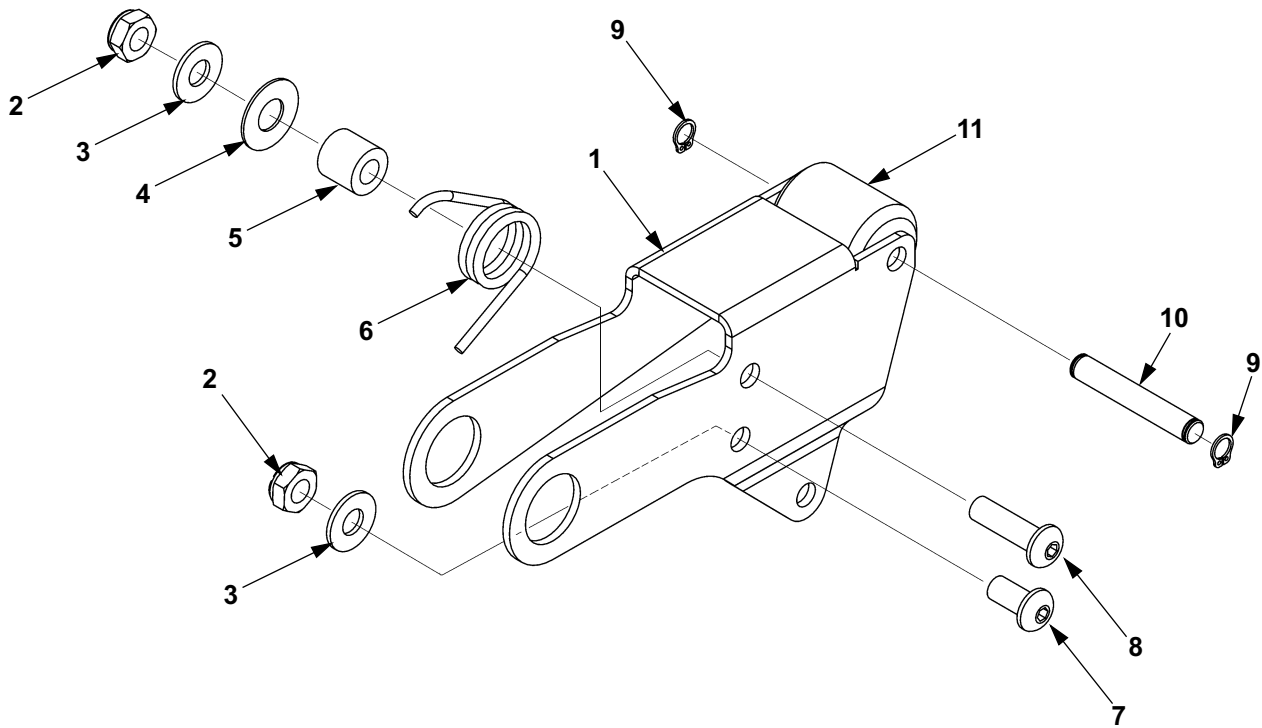


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ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267622-01	PLATFORM CLOSER ARM ASSEMBLY
2	1	905004-02	RETAINING RING, 1/2"
3	2	908062-06	SELF LUBE BEARING
4	2	265017	SELF LUBE BEARING
5	1	267621-01	SWITCH/SPRING, ASSEMBLY
6	2	900722-02	BUTTON SCREW, 10-24 X 3/8" 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	267591-01	INROLL RAMP SPRING
12	1	900062-2	SHOULDER SCREW, 5/16" X 3/8" LG.

INROLL SUPPORT BRACKET

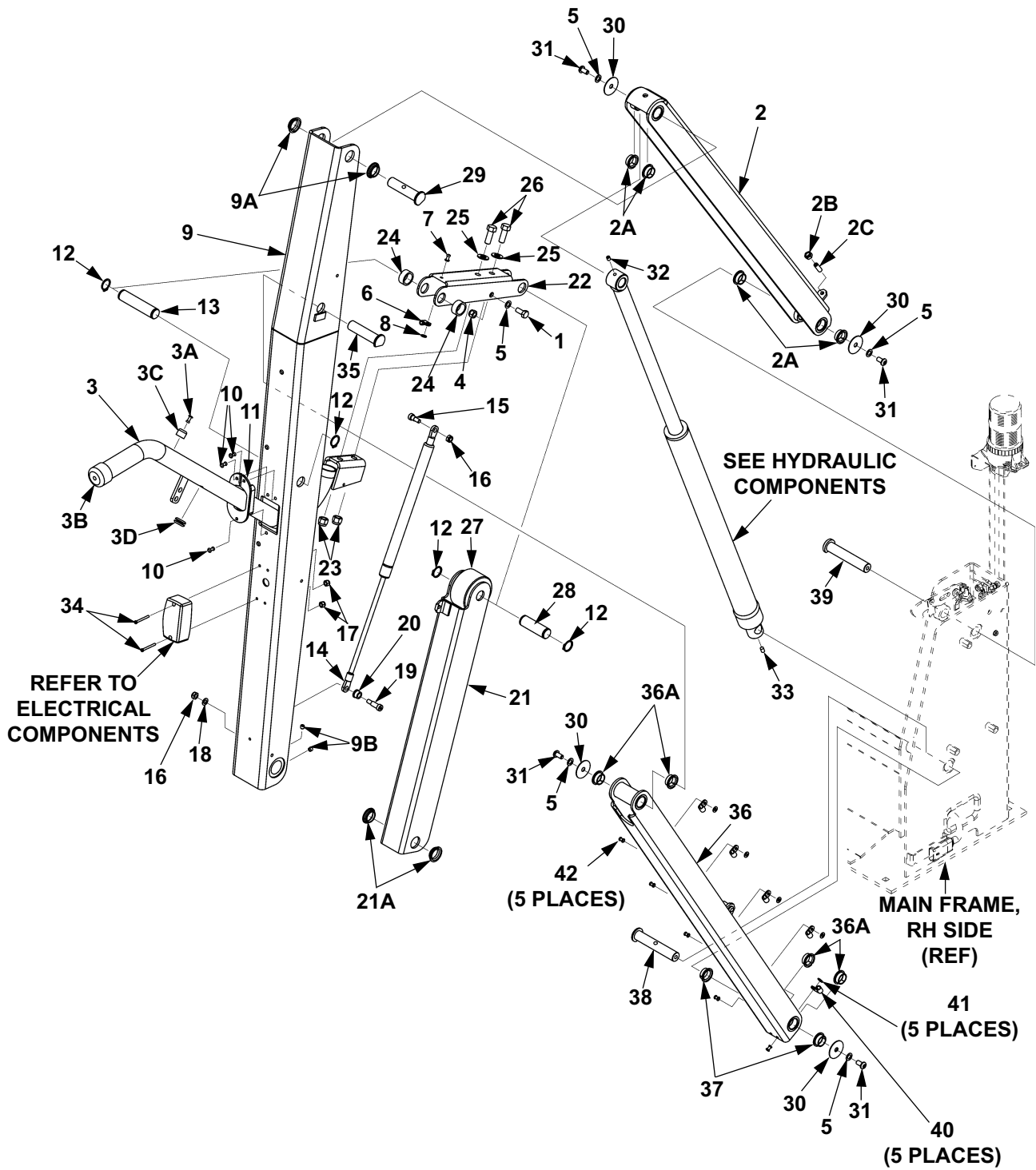


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ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267549-01	INROLL SUPPORT BRACKET
2	2	901016-2	HEX NUT, 1/4"-20
3	2	903409-01	WASHER
4	1	903402-02	FLAT WASHER
5	1	267456-01	LOCK SPRING PIN
6	1	267560-01	LOCK SPRING
7	1	900719-03	BUTTON SCREW, 1/4"-20 X 1/2" LG.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

MAIN ASSEMBLY-3

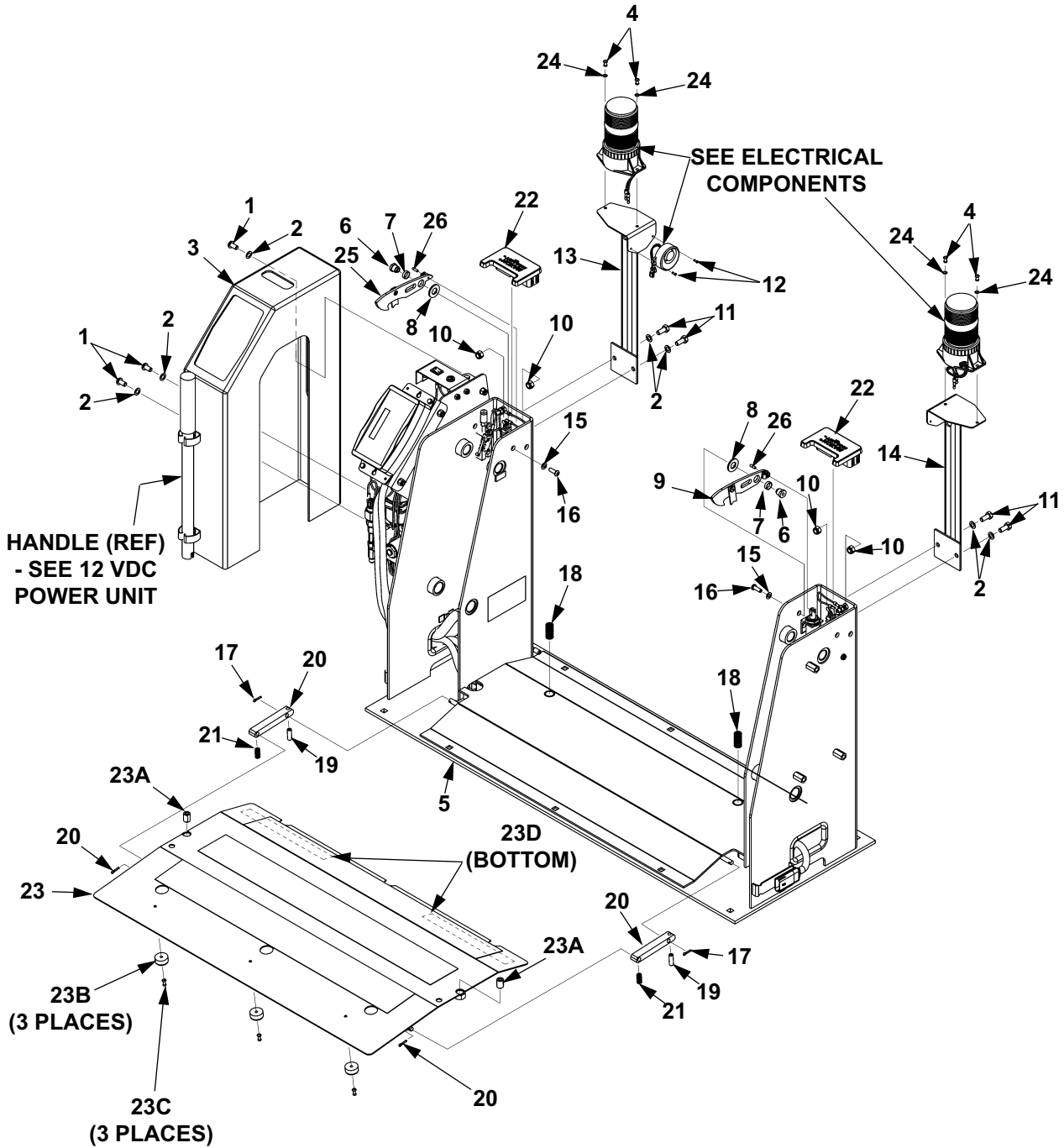


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ITEM	QTY.	PART NO.	DESCRIPTION
1	2	900009-3	CAP SCREW, 5/16"-18 X 3/4" LG, GRADE 8
2	1	266609-01	UPPER ARM ASSEMBLY (BEARINGS INCLUDED)
2A	4	265072	SELF LUBE BEARING
2B	1	901005	HEX NUT, 5/16"-18, GRADE 8
2C	1	903006-1	SET SCREW, 5/16"-18 X 1" LG.
3	1	266756-01	HANDRAIL ASSEMBLY RH
3A	1	904004-3	RIVET, .0156" 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, .0156" 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
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, .19" DIA X 0.55" LG.

MAIN ASSEMBLY-4



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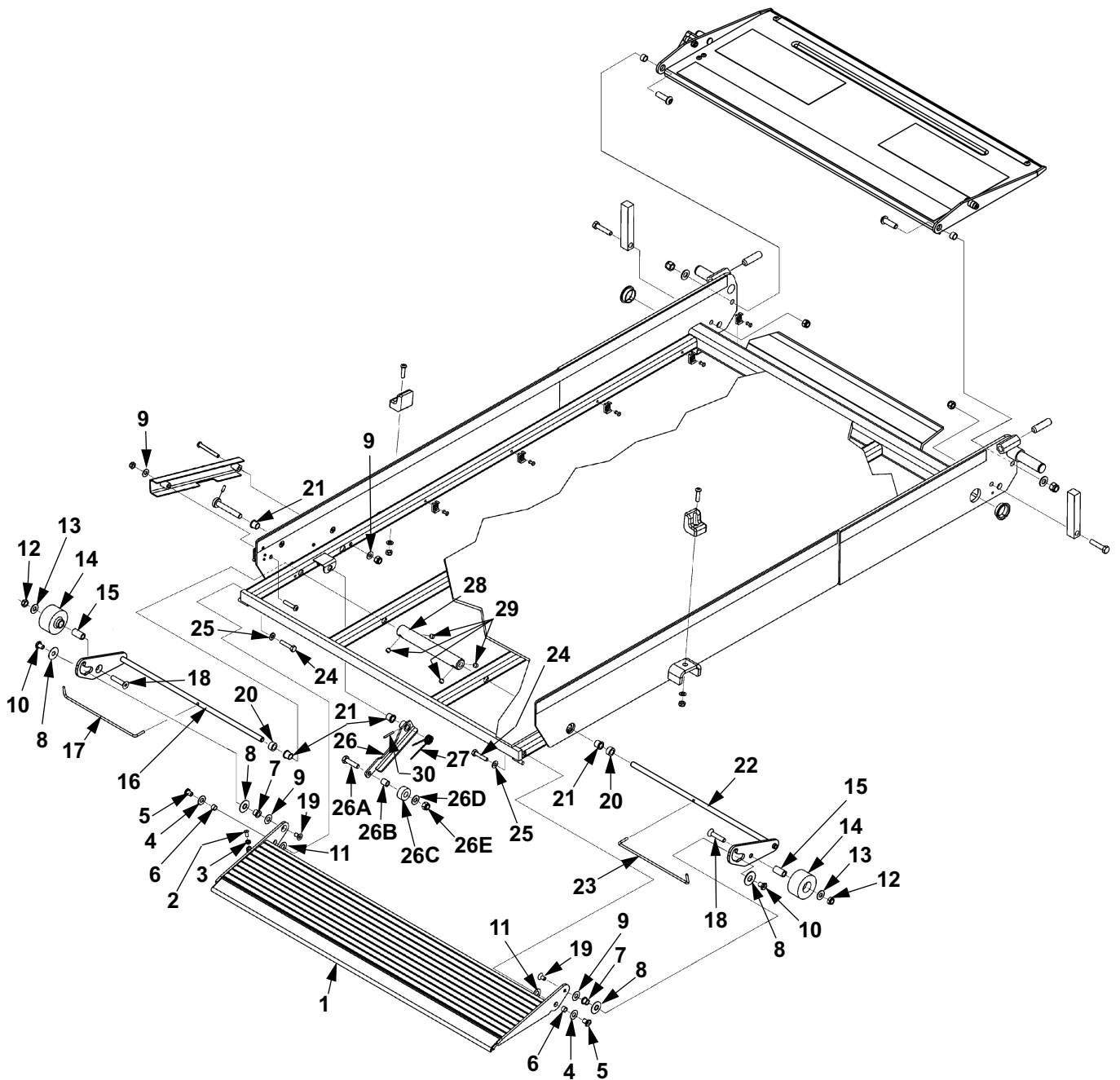
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ITEM	QTY.	PART NO.	DESCRIPTION
1	3	900001-11	BUTTONHEAD SCREW, 5/16"-18 X 5/8" LG.
2	7	902000-7	FLAT WASHER, 5/16"
3	1	266827-01	COVER ASSEMBLY, LH
		266828-01	COVER ASSEMBLY, RH
4	4	904002-2	RIVET, 3/16" DIA. X 0.565" LG.
5	1	267515-01	MAIN FRAME (FOR 30" WIDE PLATFORM)
		267515-02	MAIN FRAME (FOR 33" WIDE PLATFORM)
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"
23A	2	267349-01	SET SCREW, 1/2"-20 X 1" LG. (WITH VIBRA-TITE)
23B	3	905314-04	BUMPER WITH WASHER
23C	3	904004-3	RIVET, 0.156" 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

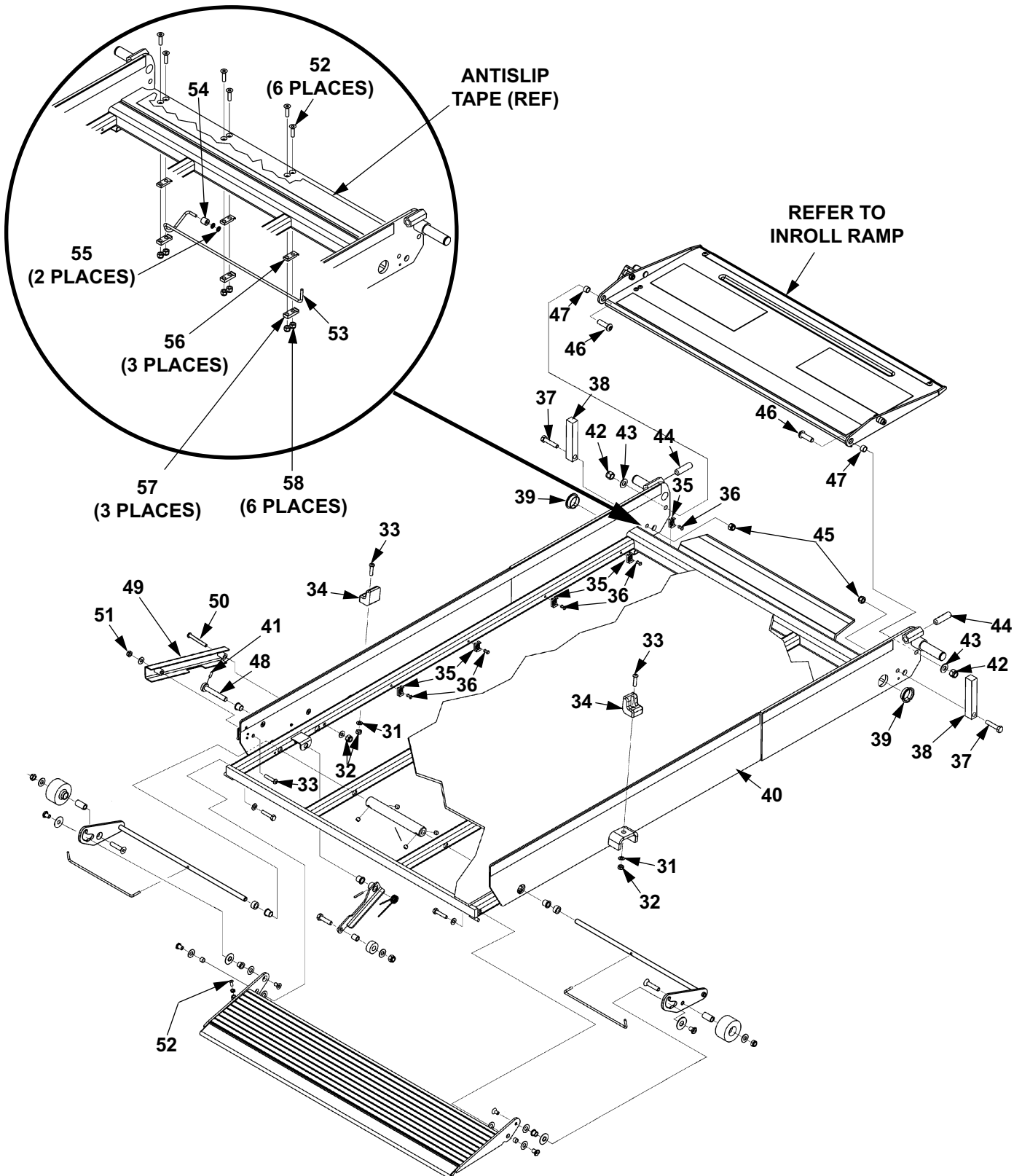
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ITEM	QTY.	PART NO.	DESCRIPTION
1	1	266714-01	OUTROLL RAMP, 30"
		266714-02	OUTROLL RAMP, 33"
2	1	900023-4	SCREW, PAN HD, 8-32 X1/2" LG. (STAINLESS)
3	1	903107-01	HEX NUT, 8-32
4	2	903402-02	FLAT WASHER, 3/4", NYLON
5	2	266719-02	SWIVEL NUT, THIN HEX, 1/2"
6	2	266545-04	BEARING
7	2	266893-02	ROLLER FLANGED
8	4	903409-04	FLAT WASHER, 1/2", 1-1/8" O.D. (STAINLESS)
9	4	903409-01	FLAT WASHER, 9/32", 1" O.D. (STAINLESS)
10	2	266719-01	SWIVEL NUT, 1/2"
11	2	261314	NYLON WASHER WITH CHAIR
12	2	901016-3	LOCK NUT, THIN HEAD, 5/16"-18
13	2	903409-02	FLAT WASHER, 11/32", 3/4" O.D. (STAINLESS)
14	2	266717-01	ROLLER
15	2	092020-10	ROLLER BUSHING
16	1	266712-01	LOCKING BRACKET, LH
17	1	265063-02	TORSION SPRING LH
18	2	900712-01	SOCKET SCREW 5/16"-18 X 1-1/2" LG. (STAINLESS)
19	2	900711-01	SOCKET SCREW 1/4"-20 X 1/2" LG. (STAINLESS)
20	2	905016-03	NYLON SPACER, 0.39" I.D., 5/8" LG.
21	4	265057	BUSHING, STOP ACTUATOR
22	1	266712-02	LOCKING BRACKET, RH
23	1	265063-01	TORSION SPRING, RH
24	2	901603-07	HEX BOLT 1/4"-20 X 1-1/4" LG. (STAINLESS)
25	2	903412-01	FLAT WASHER, 1/4" (STAINLESS)
26	1	267107-01	BRACKET ASSEMBLY, 3" LIMIT SWITCH
26A	1	901602-07	HEX BOLT 5/16"-18 X 1-1/4" LG. (STAINLESS)
26B	1	908036-01	BEARING, SLEEVE
26C	1	266813-01	ROLLER, LIMIT BRACKET
26D	1	903409-02	FLAT WASHER, 11/32", 3/4" O.D. (STAINLESS)
26E	1	903106-10	HEX NUT, NYLON INSERT, 5/16"-18 (STAINLESS)
27	1	267104-01	SPRING, 3" LIMIT SWITCH
28	1	266311-01	COLLAR STOP ACTUATOR
29	4	901200-01	SET SCREW, 5/16"-24 X 5/16 LG. (CONE TIP)
30	1	905128-02	ROLL PIN, 1/8" X 3/4" LG.

PLATFORM ASSEMBLY - Continued

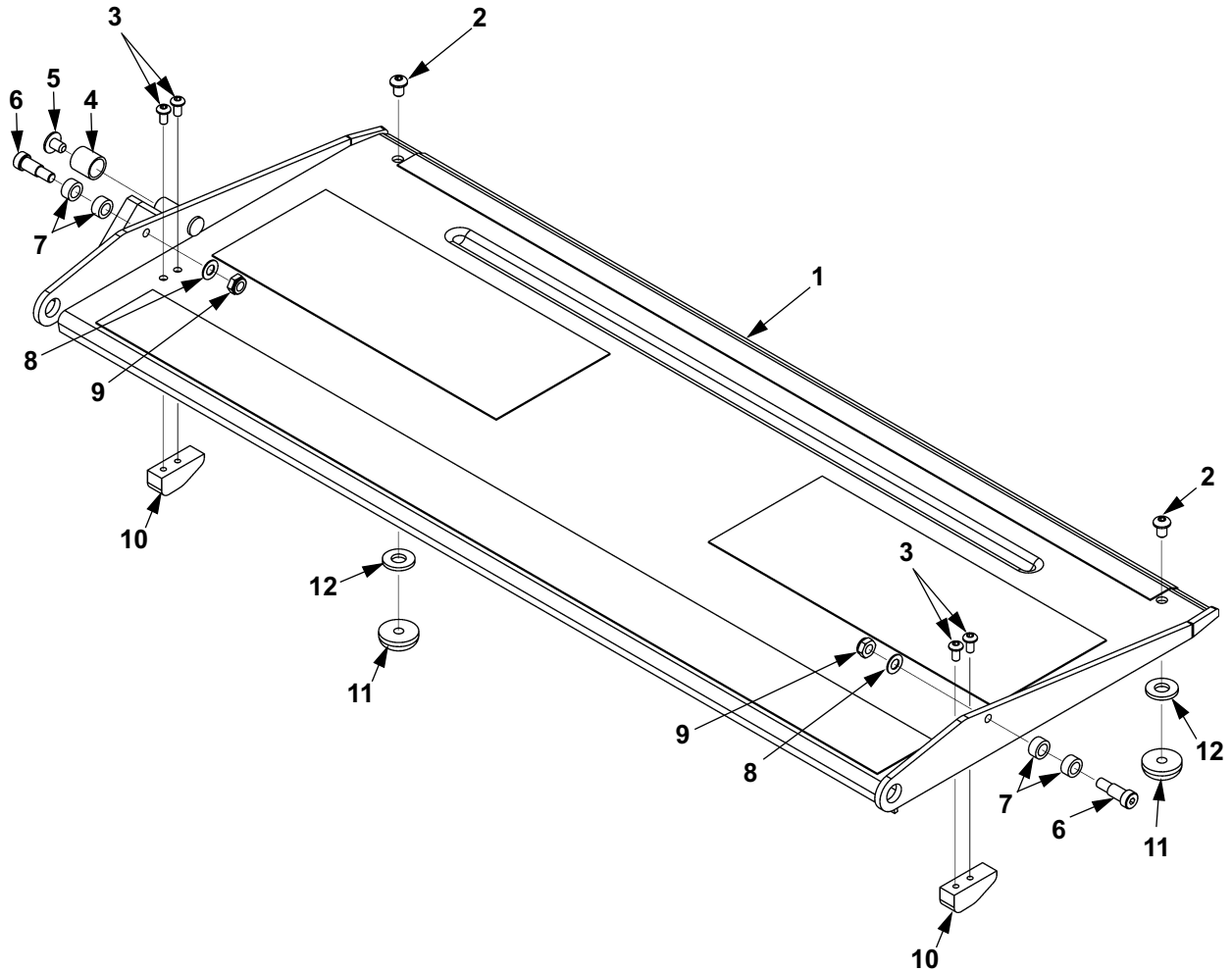


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ITEM	QTY.	PART NO.	DESCRIPTION
31	2	902013-09	FLAT WASHER, 1/4"
32	3	901000	LOCK NUT, 1/4"-20
33	3	900005-5	BUTTON SCREW 1/4"-20 X 1-1/4" LG.
34	2	266623-01	PLATFORM STOP
35	5	905070-01	CABLE TIE HOLDER
36	5	904004-3	RIVET, 0156" DIA. X .550 LG.
37	2	900009-6	CAP SCREW, 5/16"-18 X 1-1/2" LG., GRADE 8
38	2	266725-01	STRIKER, PLATFORM ADJUSTER
39	2	265062	SELF LUBE BEARING
40	1	266639-01	PLATFORM WELDMENT, 30" WIDE
		266639-02	PLATFORM WELDMENT, 33" WIDE
41	1	901203-05	SET SCREW, 8-32 X 1/2" (CUPPED TIP)
42	2	901002	LOCK NUT, 3/8"-16
43	2	902013-11	FLAT WASHER, 3/8"
44	2	903010-01	SET SCREW, SELF-LOCKING, 1/2"-13
45	2	901001	LOCK NUT, 5/16"-18
46	2	900064-06	BUTTONHEAD SCREW 3/8"-16 X 1-1/4" LG.
47	2	266893-03	BEARING, FLANGE
48	1	267103-01	PIN, 3" LIMIT SWITCH
49	1	267111-01	COVER WELDMENT
50	1	900005-10	BUTTON SCREW, 1/4"-20 X 2-1/2" LG.
51	1	901016-2	LOCK NUT, THIN, 1/4"-20
52	6	900044-6	SOCKET SCREW, 1/4"-20 X 1" LG.
53	1	267574-01	INROLL RAMP TORSION SPRING
54	1	267576-01	TORSION SPRING ROLLER
55	2	267587-01	PUSH RETAINER
56	3	267554-01	UPPER TORSION SPRING BLOCK
57	3	267555-01	LOWER TORSION SPRING BLOCK
58	6	901000	LOCK NUT, 1/4"-20

INROLL RAMP (INBOARD ROLLSTOP)



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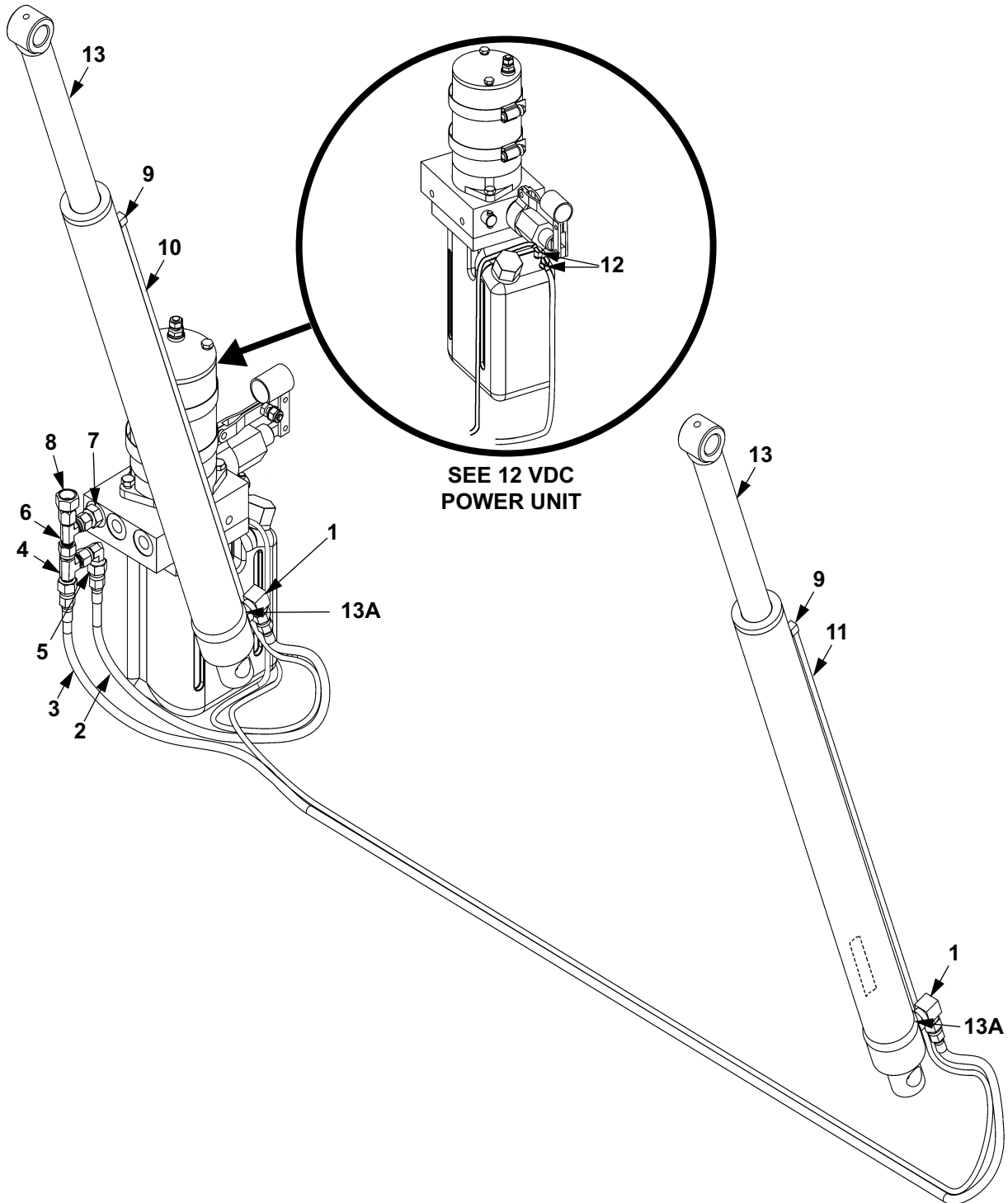
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ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267618-01	INROLL RAMP, 30" WIDE
		267618-02	INROLL RAMP, 33" WIDE
2	2	900005-1	BUTTON SCREW, 1/4"-20 X 3/8" LG.
3	4	900722-02	BUTTON SCREW, 10-20 X 3/8" LG.
4	1	267465-01	LOCK ROLLER BUSHING
5	1	900725-01	FLANGE 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

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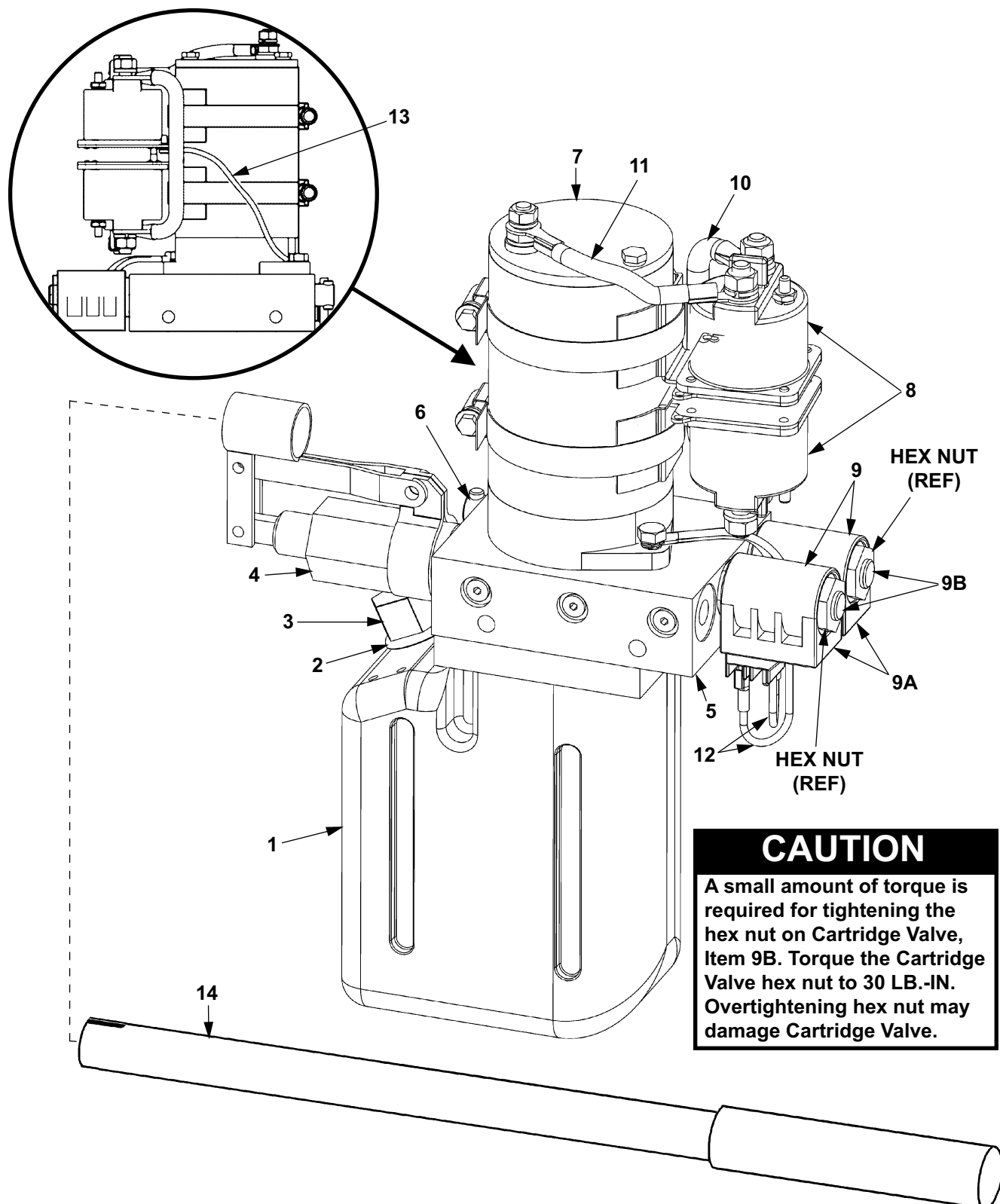
ITEM	QTY.	PART NO.	DESCRIPTION
1	2	906718-01	ELBOW, 90° O-RING, SAE#6 - JIC#4 MALE
2	1	261351	HOSE ASSEMBLY, 27" LG. (1/8" I.D.)
3	1	261350	HOSE ASSEMBLY, 63" LG. (1/8" I.D.)
4	1	905026	TEE FITTING, JIC#4 M-M-F
5	1	905027	ELBOW FITTING, JIC#4 M-F
6	1	905250	TEE, SWIVEL BRANCH NUT, JIC 1/4"
7	1	450017	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 (SEE NOTE)
13A	2	906717-01	FLOW CONTROL VALVE (SEE NOTE)

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.

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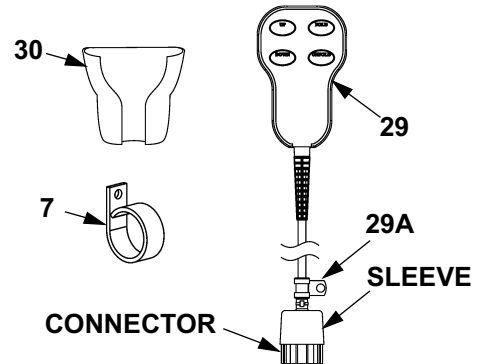
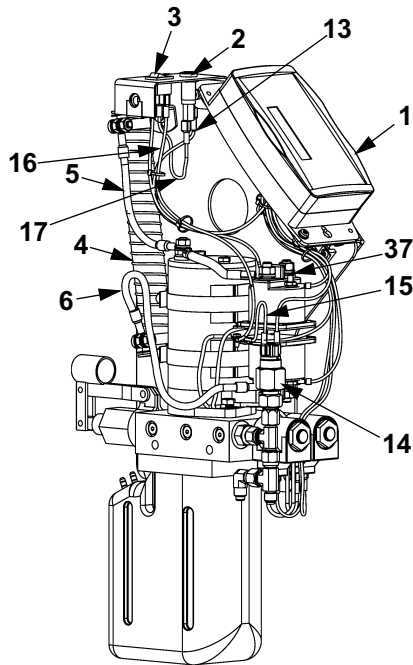
12 VDC POWER UNIT



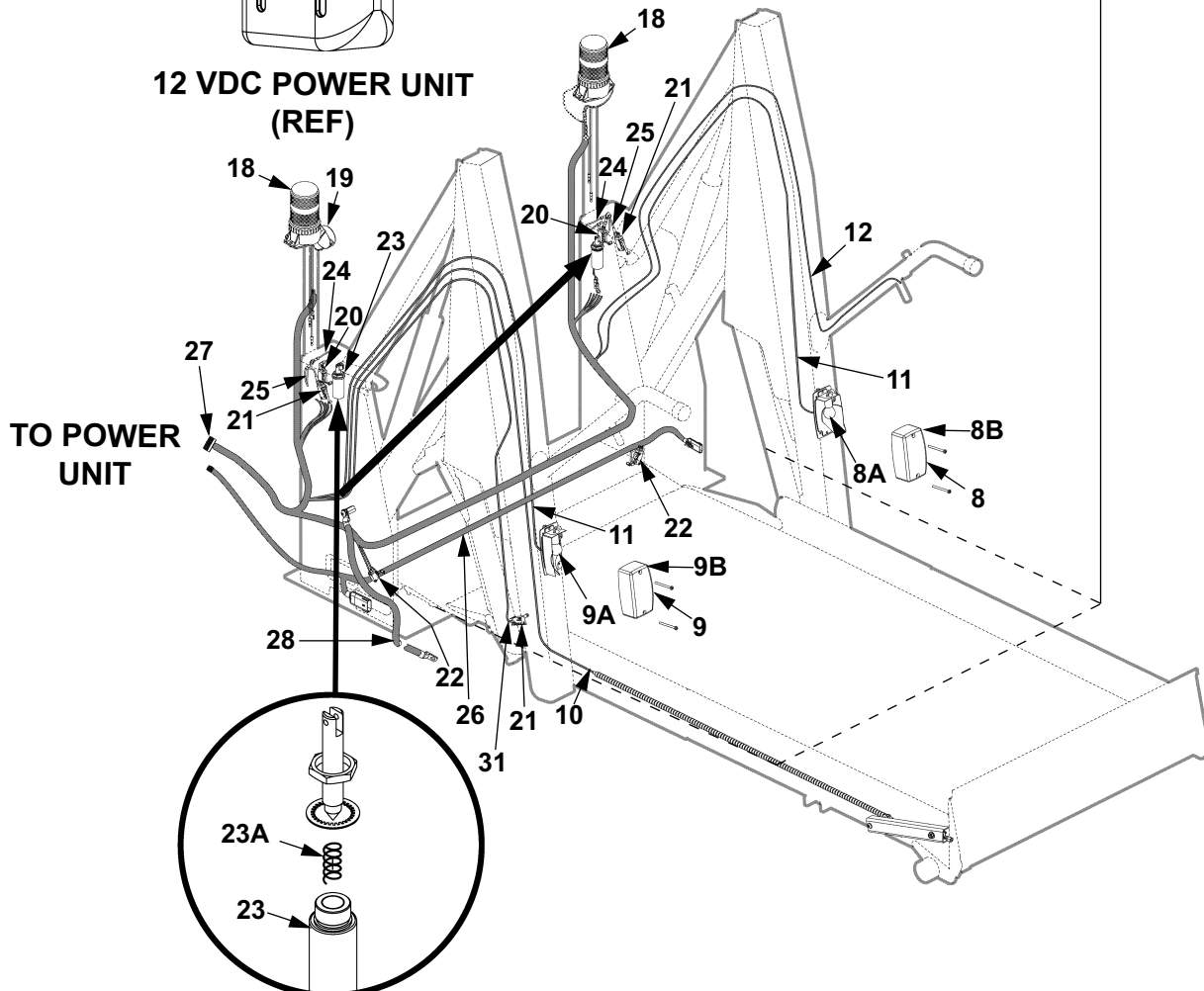
ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	266950-01	PUMP ASSEMBLY, WL7
1	1	265117-02	RESERVOIR, 2 QT.
2	1	266971-01	GROMMET
3	1	266970-01	FILLER/BREATHER (CAP)
4	1	265116	HAND PUMP
5	1	265119	PUMP BLOCK
6	1	265131	MANUAL LOWERING VALVE
7	1	265118	MOTOR, 12 VDC, 1 TERMINAL
8	2	265115-01	SOLENOID SWITCH, 12VDC (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	261249	PUMP HANDLE

ELECTRICAL COMPONENTS

NOTE: Before disconnecting or connecting Hand Control, roll back sleeve from connector to gain access to connector lock.



**12 VDC POWER UNIT
(REF)**



**TO POWER
UNIT**

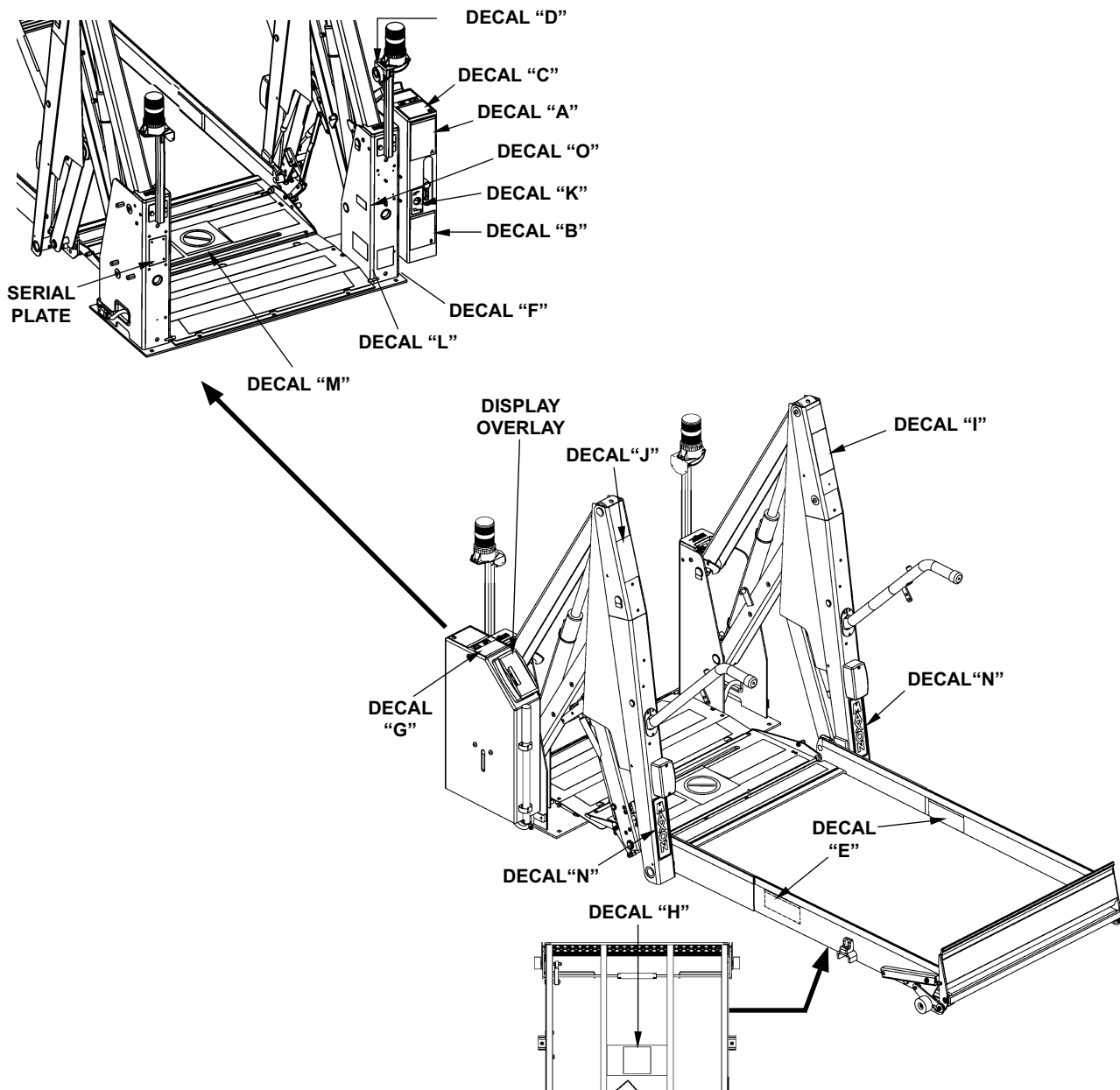
TUBULAR SOLENOID

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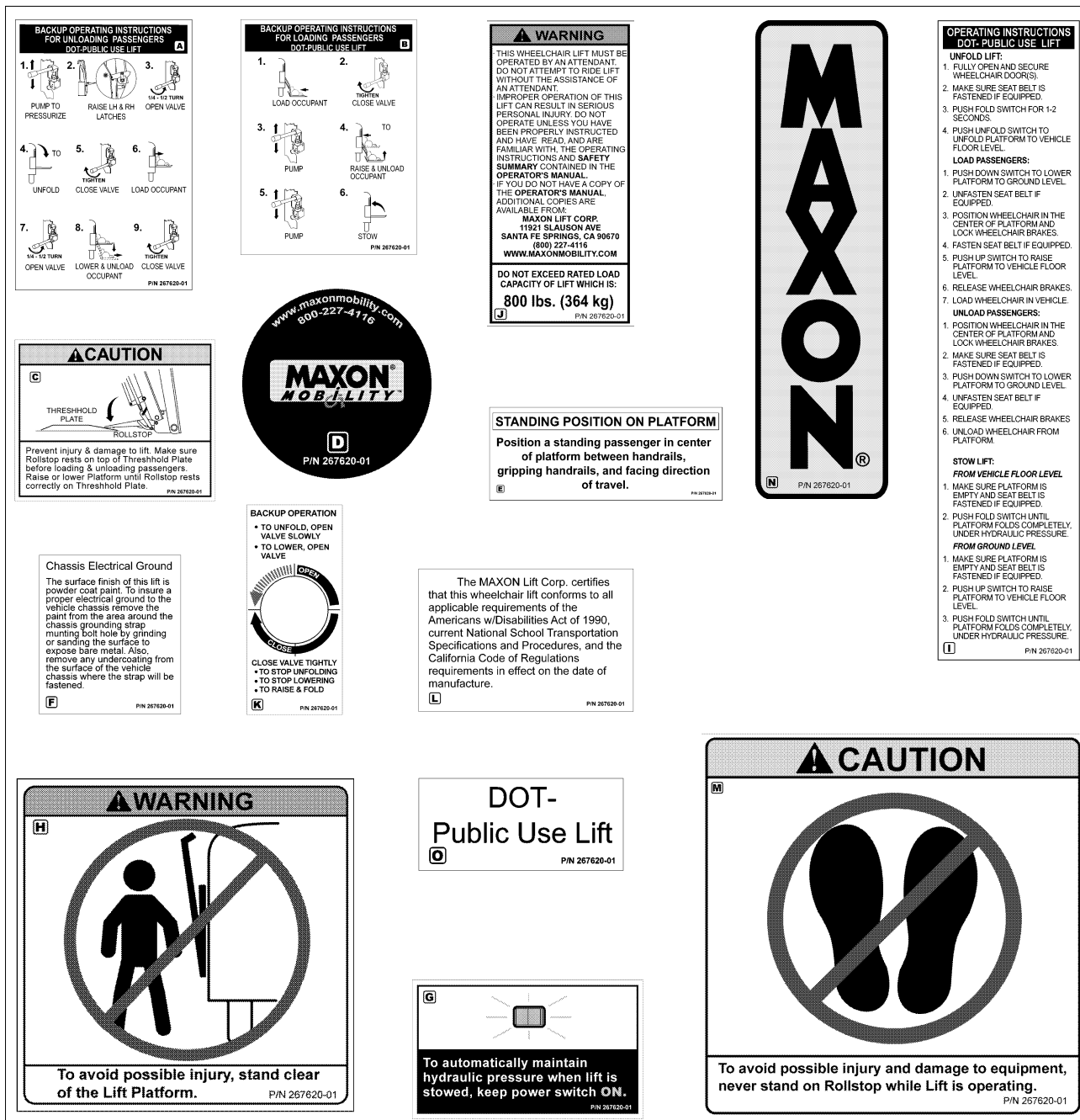
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	267651-01	CONTROLLER ASSEMBLY
2	1	906462-01	FUSE WITH FUSE HOLDER
3	1	906441-02	ROCKER SWITCH
4	1	265121	RESISTOR 300 WATT
5	1	266895-01	WIRE ASSEMBLY
6	1	266896-01	WIRE ASSEMBLY
7	1	267355-01	HOOK (CONTROL CABLE STORAGE)
8	1	267276-02	LAMP ASSEMBLY WITH HARDWARE, RIGHT
8A	1	906475-01	BULB (AUTOMOTIVE TYPE 1156)
8B	1	906476-01	LENS
9	1	267276-01	LAMP ASSEMBLY, WL7 PLATFORM, LEFT (WITH HARDWARE)
9A	1	906475-01	BULB, 1156
9B	1	906476-01	LENS
10	1	266897-01	CABLE ASSEMBLY
11	2	266899-01	CABLE ASSEMBLY
12	1	266929-01	SEATBELT HARNESS
13	1	266933-01	WIRE ASSEMBLY
14	1	267351-01	TRANSDUCER, 0-2000 PSI
15	1	266956-01	WIRE ASSEMBLY
16	1	266957-01	WIRE ASSEMBLY
17	1	266958-01	WIRE ASSEMBLY
18	2	266921-01	STEADY BURN LAMP
19	1	266922-01	ELECTRIC SIREN
20	2	266881-01	WATERTIGHT SWITCH
21	3	906434-01	WATERTIGHT SWITCH
22	2	266881-02	WATERTIGHT SWITCH
23	2	266955-01	TUBULAR SOLENOID
23A	1	266562-01	SOLENOID SPRING
24	2	266926-01	WIRE ASSEMBLY, 5" LG.
25	2	266924-01	WIRE ASSEMBLY, 6" LG.
26	1	266925-01	EXTENSION HARNESS
27	1	267617-01	MAIN HARNESS (LH PUMP)
		267617-02	MAIN HARNESS (RH PUMP)
28	1	251871-06	CABLE ASSEMBLY, 2 GA, 48" LG. (GROUNDING CABLE)
29	1	266904-02	HAND CONTROL, ARMORED
29A	1	906479-01	CLAMP
30	1	266728-01	HAND CONTROL BRACKET
31	1	267616-01	RAMP SWITCH WIRE ASSEMBLY

DECALS AND DECAL PLACEMENT



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:

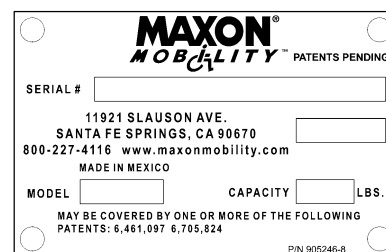
MAXON Lift Corp. - Customer Service
11921 Slauson Ave., Santa Fe Springs, CA 90670
Phone: (800) 227-4116 FAX: (888) 771-7713
E-mail: cservice@maxonlift.com



DECAL SET P/N 267620-01
FIG. 63-1



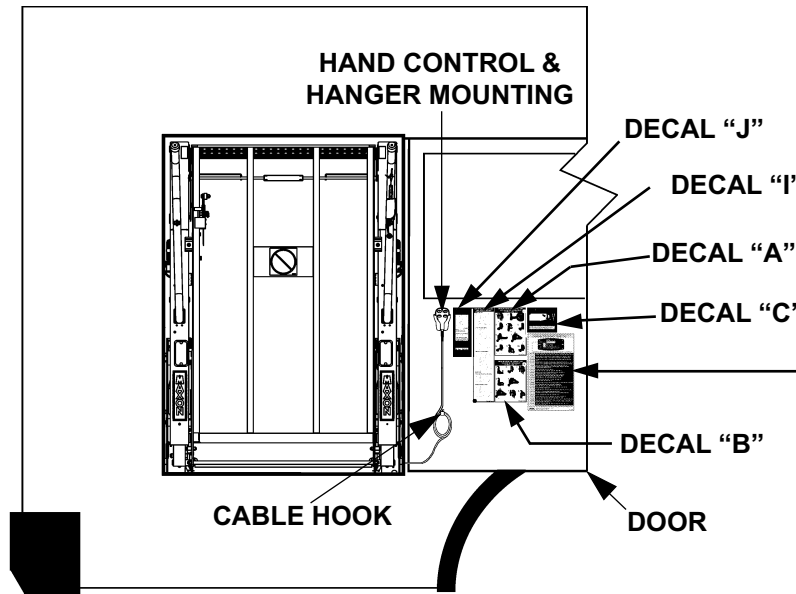
DECAL-OVERLAY
P/N 267630-01



SERIAL PLATE
P/N 905246-8

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DECALS AND DECAL PLACEMENT - Continued



**TYPICAL PLACEMENT OF DECALS ON VEHICLE
FIG. 64-1**

USE DISPLAY READINGS ON THE CONTROLLER TO HELP YOU OPERATE & TROUBLESHOOT THE WL7 LIFT.

CONTROLLER READINGS THAT INDICATE IF THE LIFT IS OPERABLE:

- CHRG BAT - BATTERY CHARGE IS TOO LOW TO OPERATE LIFT - LIFT WILL ONLY RAISE & STOW UNTIL BATTERY IS RECHARGED - FULLY CHARGE BATTERY BEFORE CONTINUING TO OPERATE LIFT
- FOLD - LIFT STOPPED FOLDING BEFORE IT COULD PASS THE FOLD SWITCH - PRESS UNFOLD BUTTON UNTIL LIFT REACHES FLOOR LEVEL, THEN PRESS FOLD BUTTON
- FOLD SW - "FOLD" SWITCH ACTIVATED AT INCORRECT TIME - DOES NOT MATCH POSITION OF LIFT - GET QUALIFIED MECHANIC TO ADJUST "FOLD" SWITCH (SEE MAINT. MANUAL WP-65-12)
- ORND SW - "GROUND" SWITCH ACTIVATED AT INCORRECT TIME - DOES NOT MATCH POSITION OF LIFT - RAISE OUTBOARD END OF PLATFORM - IF READING DOESN'T CHANGE, RAISE & RELEASE "GROUND" SWITCH ROLLER ARE UNDER PLATFORM
- HIGH V - BATTERY VOLTAGE TOO HIGH - LIFT WILL ONLY RAISE & STOW - GET QUALIFIED MECHANIC TO REPAIR VEHICLE CHARGING SYSTEM BEFORE CONTINUING TO OPERATE LIFT
- INBRD SW - INBOARD ROLLSTOP SWITCH NOT ACTIVATING - INBOARD ROLLSTOP MAY BE OPEN - CLOSE INBOARD ROLLSTOP IF OPEN
- JAMMED - HYDRAULIC SYSTEM PRESSURE IS TOO HIGH - GET QUALIFIED MECHANIC TO REPAIR LIFT
- LOCKED - NO INTERLOCK SIGNAL FROM VEHICLE - LIFT CAN'T BE OPERATED, VEHICLE CAN BE MOVED - TO ALLOW LIFT TO OPERATE, VEHICLE MUST BE PREVENTED FROM MOVING
- LOOKED - SAME AS "LOCKED" - HYDRAULIC SYSTEM PRESSURE IS BELOW 900 PSI - MAY REPRESSURIZE
- LOCK ERR - LIFT NOT STOWED, VEHICLE ALLOWED TO MOVE - PREVENT VEHICLE FROM MOVING & STOW LIFT
- LOWER SW - "LOWER" SWITCH ACTIVATED - TIRING IS INCORRECT - DOES NOT MATCH POSITION OF LIFT - GET QUALIFIED MECHANIC TO ADJUST "LOWER" SWITCH (SEE MAINT. MANUAL WP-65-12)
- LOW BAT - CHARGE BATTERY ASAP - LIFT WILL OPERATE UNTIL "CHRG BAT" IS SHOWN
- MAT ERR - MAT SWITCH ACTIVATED - OCCUPANT ON THRESHOLD - MOVE OCCUPANT FROM THRESHOLD INTO VEHICLE
- DISOCCUP - OCCUPANT (WHEELS OR MORE) ON PLATFORM - MOVE OCCUPANT FROM PLATFORM INTO VEHICLE
- OUTBD SW - OUTBOARD ROLLSTOP MAY BE OPEN - IF POSSIBLE, PUSH ROLLSTOP CLOSED
- PSI SEN - PRESSURE SENSOR SIGNAL IS TOO LOW OR TOO HIGH (OUT OF RANGE) - GET QUALIFIED MECHANIC TO REPAIR LIFT
- SEAT BELT - SEAT BELT UNBUCKLED (IF EQUIPPED) - BUCKLE TO OPERATE LIFT
- STOWED - LIFT IS STOWED - NO INTERLOCK SIGNAL SENT TO VEHICLE - LIFT WILL OPERATE - CAN'T MOVE VEHICLE - GET QUALIFIED MECHANIC TO ADJUST STAR (T) SWITCH (SEE MAINT. MANUAL WP-65-12)
- STOWED - SAME AS "STOWED" - HYDRAULIC SYSTEM PRESSURE BELOW 900 PSI - MAY REPRESSURIZE
- STOWED - LIFT IS STOWED - INTERLOCK SIGNAL SENT TO VEHICLE - VEHICLE CAN BE MOVED
- STOWED - SAME AS "STOWED" - HYDRAULIC SYSTEM PRESSURE IS BELOW 900 PSI - MAY REPRESSURIZE
- STOW SW - "STOW" SWITCH ACTIVATED WHEN LIFT IS NOT STOWED - TIRING IS INCORRECT - DOES NOT MATCH POSITION OF LIFT - GET QUALIFIED MECHANIC TO ADJUST "STOW" SWITCH (SEE MAINT. MANUAL WP-65-12)

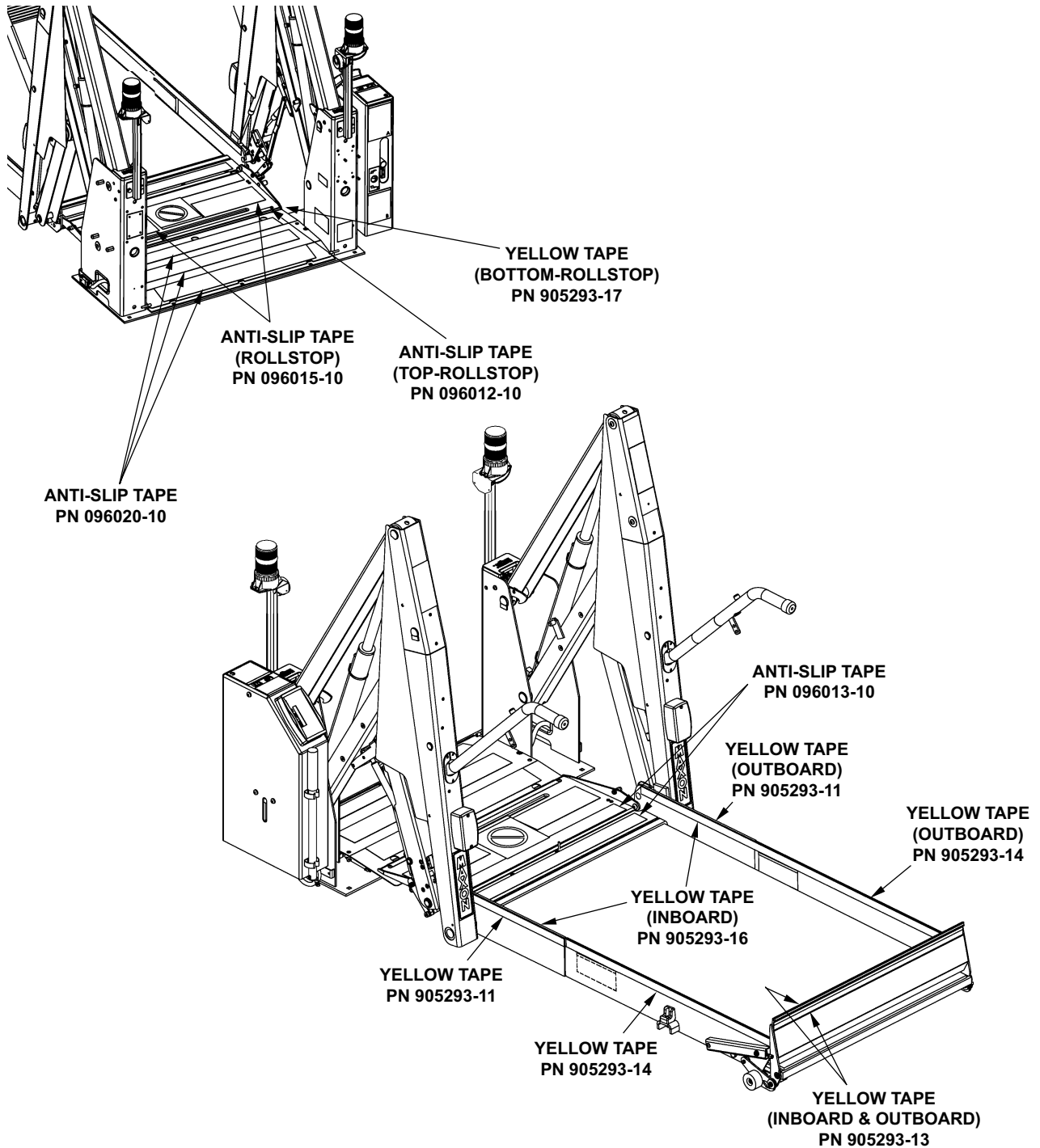
NOTE: IF LIFT WILL NOT OPERATE WITH THE HAND CONTROL, USE MANUAL BACKUP SYSTEM.

MAXON
11921 Slauson Avenue, Santa Fe Springs, CA 90670
(800) 227-4116 FAX (888) 771-7713
A DIVISION OF MAXON LIFT CORP.

P/N 267629-01

**DECAL
P/N 267629-01**

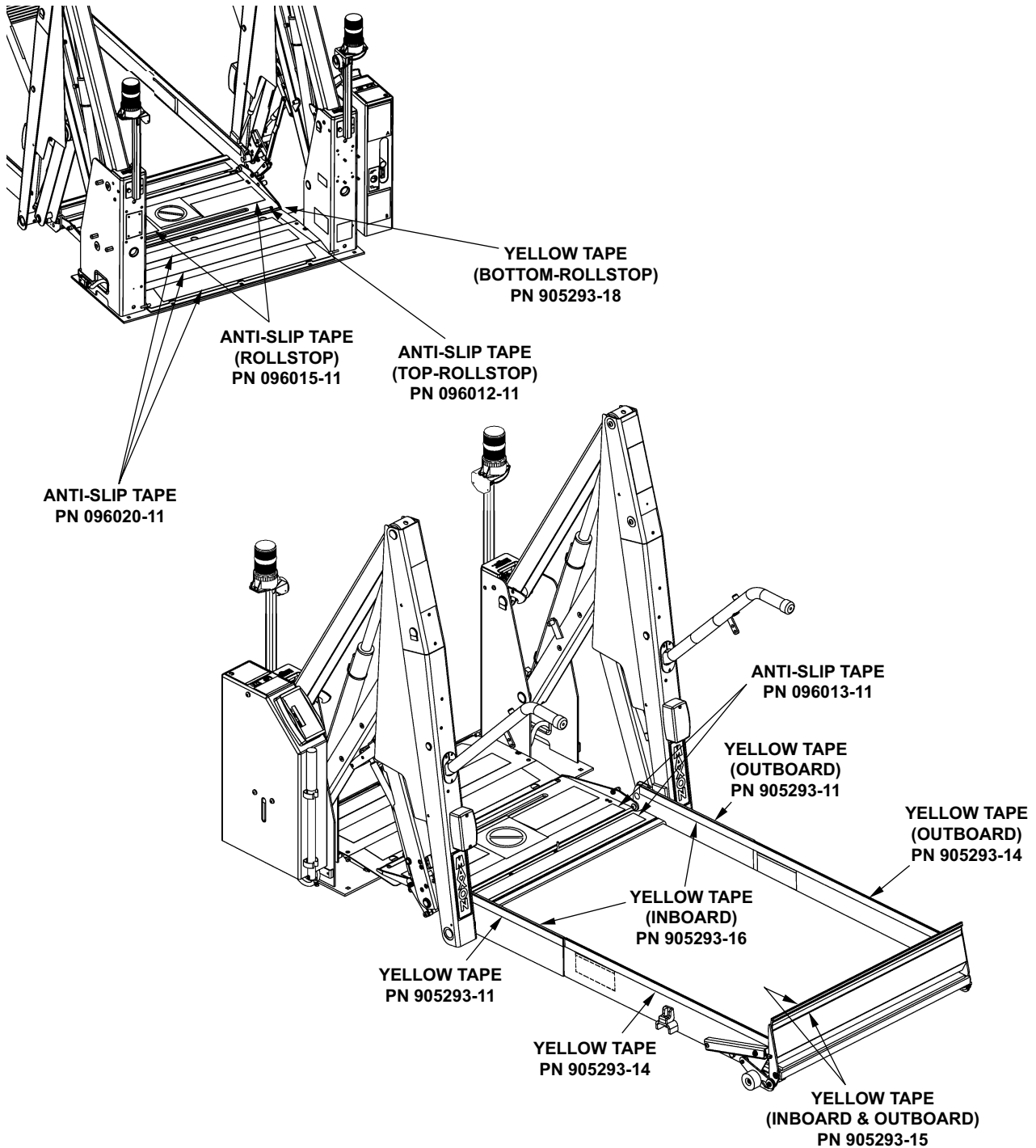
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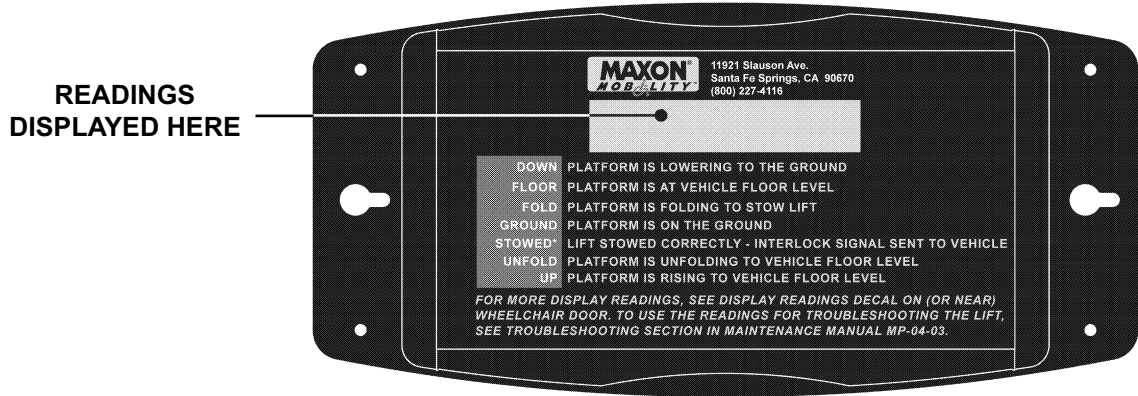
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TROUBLESHOOTING

CONTROLLER DISPLAY READINGS

The Controller (**FIG. 67-1**) 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. 67-1

STOWED* (Stowed Star):

Lift is operating normally and the Controller (**FIG. 67-1**) 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. 67-1**) 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. 67-1**) will read **STOWED***.

STOWED (Stowed): Lift is operating normally and the Controller (**FIG. 67-1**) 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 Star (*) switch is adjusted correctly.
If required, do the **STAR (*) SWITCH ADJUSTMENT** in this manual. When the platform is resting on the latches, the STAR (*) 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**).

CONTROLLER DISPLAY READINGS - Continued

STOWED. (Stowed dot):

Lift is operating normally and the Controller (**FIG. 67-1**) 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. 67-1**) 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 Star (*) switch is adjusted correctly.
If required, do the **STAR (*) SWITCH ADJUSTMENT** in this manual. When the platform is resting on the latches, the STAR (*) 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. 67-1**) 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 making contact at the correct time and needs to be adjusted.

Corrective Actions:

1. Make sure the Outboard Rollstop switch is adjusted correctly. If required, do the **OUTBOARD ROLLSTOP SWITCH ADJUSTMENT** in this manual.
2. If adjustment does not solve the problem, 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, push the actuator lever on the “Outboard Rollstop” switch. 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. 67-1**) still reads **OUTBD SW**, replace the Controller.

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. 67-1**) still reads **MAT SW**, replace the Controller.

JAMMED:

The Pressure Transducer is reading abnormally high pressure when the platform is folding. Check for an obstruction on the Lift or a damaged part that may be causing the Lift to bind.

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. 67-1**), the Lift interlock is operating correctly, get the vehicle interlock repaired.

LOCKED:

This is a normal reading on the Controller (**FIG. 67-1**) 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**).

CONTROLLER DISPLAY READINGS - Continued

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. 67-1**) 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. 67-1**) 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.

GRND SW:

This is the Controller reading (**FIG. 67-1**) 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. 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 “Ground” switch code. The 5th digit in the first set of binary codes (11110000) indicates the “Ground” switch. Push the actuator lever on the “Ground” switch. If the digit changes from 0 to 1 or from 1 to 0, then the wiring connections and switch are okay.
3. If the Controller (**FIG. 67-1**) 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. 67-1**) 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. 67-1**) still reads **SEAT BLT**, change the Controller.
3. If the digit does not change, replace the seat belt.

CONTROLLER DISPLAY READINGS - Continued

OCCUPIED:

There may be a load or occupant on the platform when the Controller (**FIG. 67-1**) 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 DI-AGNOSTICS**) 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. 67-1**) 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.

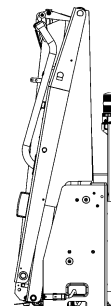
Corrective action:

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.

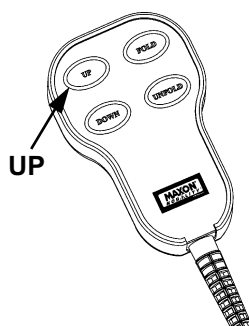
DIAGNOSTIC MODE

To display Diagnostic readings on the Controller:

- If the Platform is positioned above floor level (**FIG. 73-1**), press the **UP** button, on the Hand Control (**FIG. 73-2**), 11 times.

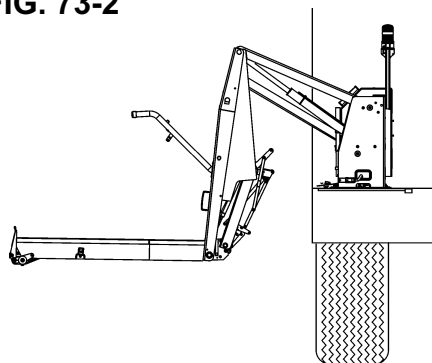


**PLATFORM ABOVE FLOOR
LEVEL (STOWED)**
FIG. 73-1

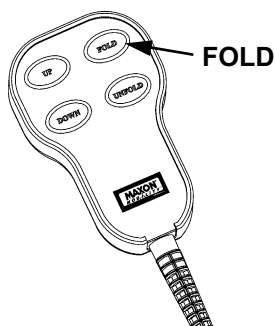


HAND CONTROL
FIG. 73-2

- If the Platform is positioned below floor level (**FIG. 73-3**). Press the **FOLD** button, on the Hand Control (**FIG. 73-4**), 11 times.



PLATFORM BELOW FLOOR LEVEL
FIG. 73-3

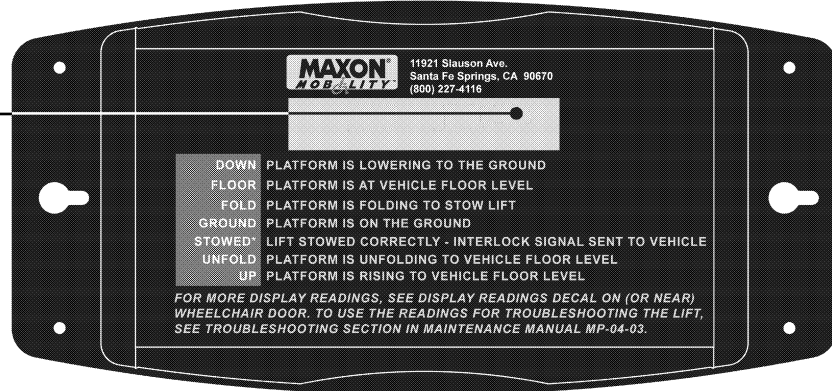


HAND CONTROL
FIG. 73-4

DIAGNOSTIC MODE - Continued

Once the diagnostic readings appear on the Controller (**FIG. 74-1**), 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.

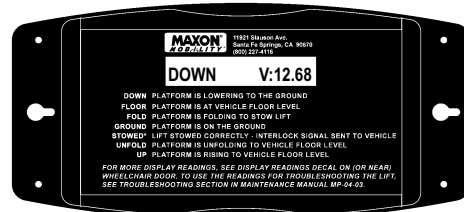
READINGS
DISPLAYED HERE



LIFT CONTROLLER DISPLAY
FIG. 74-1

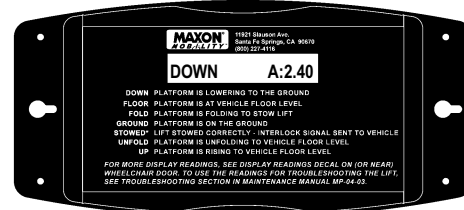
The Controller (**FIG. 74-1**) will display the following readings. Push the button once for each reading.

1. Battery Voltage (**FIG. 74-2**)



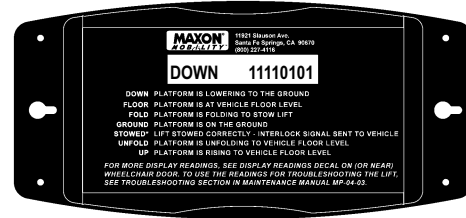
**EXAMPLE CONTROLLER
DIAGNOSTIC READING**
FIG. 74-2

2. Lift Current (**FIG. 74-3**)



**EXAMPLE CONTROLLER
DIAGNOSTIC READING**
FIG. 74-2

3. Status display of first set of switches:
The reading for the first set of 8 switches is in binary code (i.e. 11110101) (**FIGS. 75-1 and 75-2**). 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 75-1**).



**EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 75-1**

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

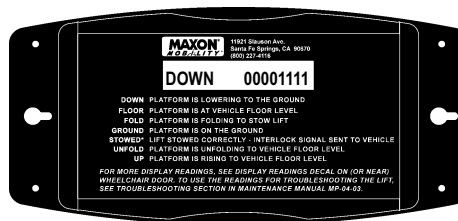
**CODES FOR FIRST SET OF SWITCHES
FIG. 75-2**

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 75-1**

DIAGNOSTIC MODE - Continued

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. 76-1 and 76-2**). Read the status from left to right for the second set of 8 binary codes (**TABLE 76-1**).



**EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 76-1**

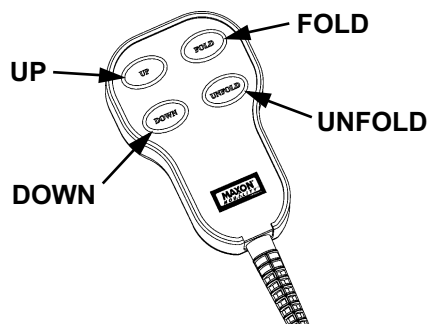
CODE DIGITS —	0	0	0	0	1	1	1	1
	1	2	3	4	5	6	7	8

**CODES FOR SECOND SET OF SWITCHES
FIG. 76-2**

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

**STATUS READINGS FOR SECOND SET OF CODES
TABLE 76-1**

5. Use the second set of codes to check the Hand Control (**FIG. 76-3**). 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. 76-3**

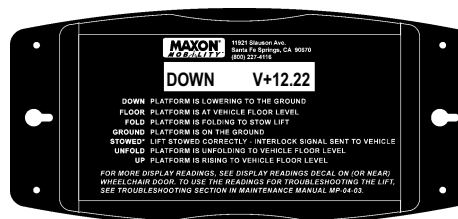
NOTE: The **UNFOLD**, **FOLD**, **DOWN**, & **UP** switches will each display a “0” when the applicable button is pressed on the Hand Control.

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	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 77-1**

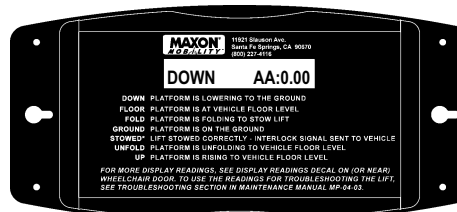
DIAGNOSTIC MODE - Continued

6. Internal Volts (FIG. 78-1).



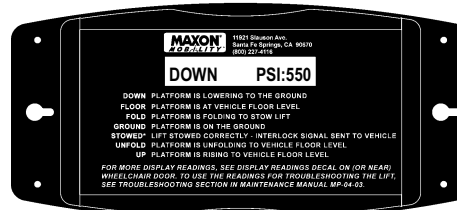
**EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 78-1**

7. Actuator Amps (FIG. 78-2).



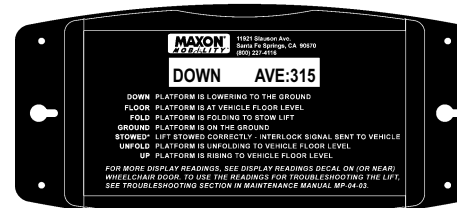
**EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 78-2**

8. Hydraulic Pressure (FIG. 78-3)



**EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 78-3**

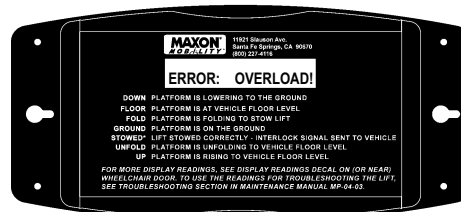
9. Average Pre-fold Pressure (FIG. 78-4)



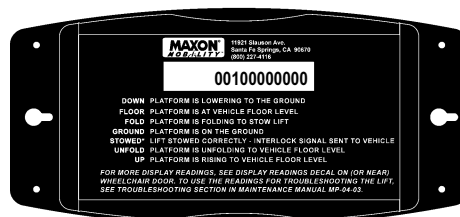
**EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 78-4**

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. 79-1) and an 11-digit code (i.e. 00100000000) (see FIG. 79-2 & TABLE 79-1). 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. 79-1**



**EXAMPLE CONTROLLER
ERROR CODE READING
FIG. 79-2**

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

**ERROR OVERLOAD CODE
(EXAMPLE OVERLOAD SHOWN FOR RAISE FUNCTION)
TABLE 79-1**

SYSTEM DIAGRAMS

HYDRAULIC SYSTEM DIAGRAM

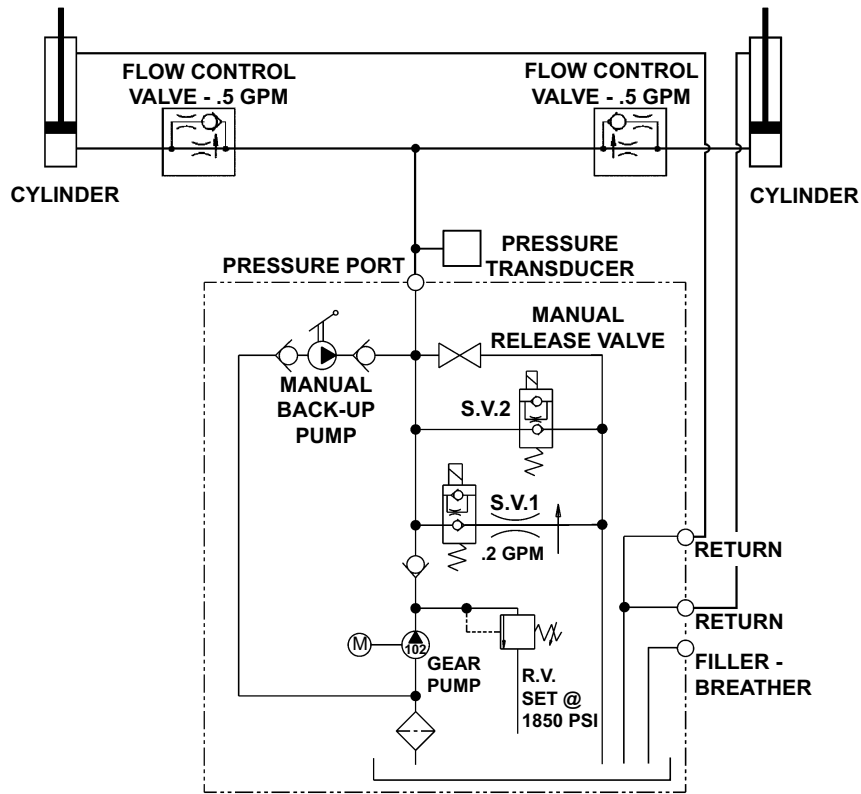


FIG. 80-1

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