WL7-vers.C

MAXON® MOBILITY™

MAINTENANCE MANUAL

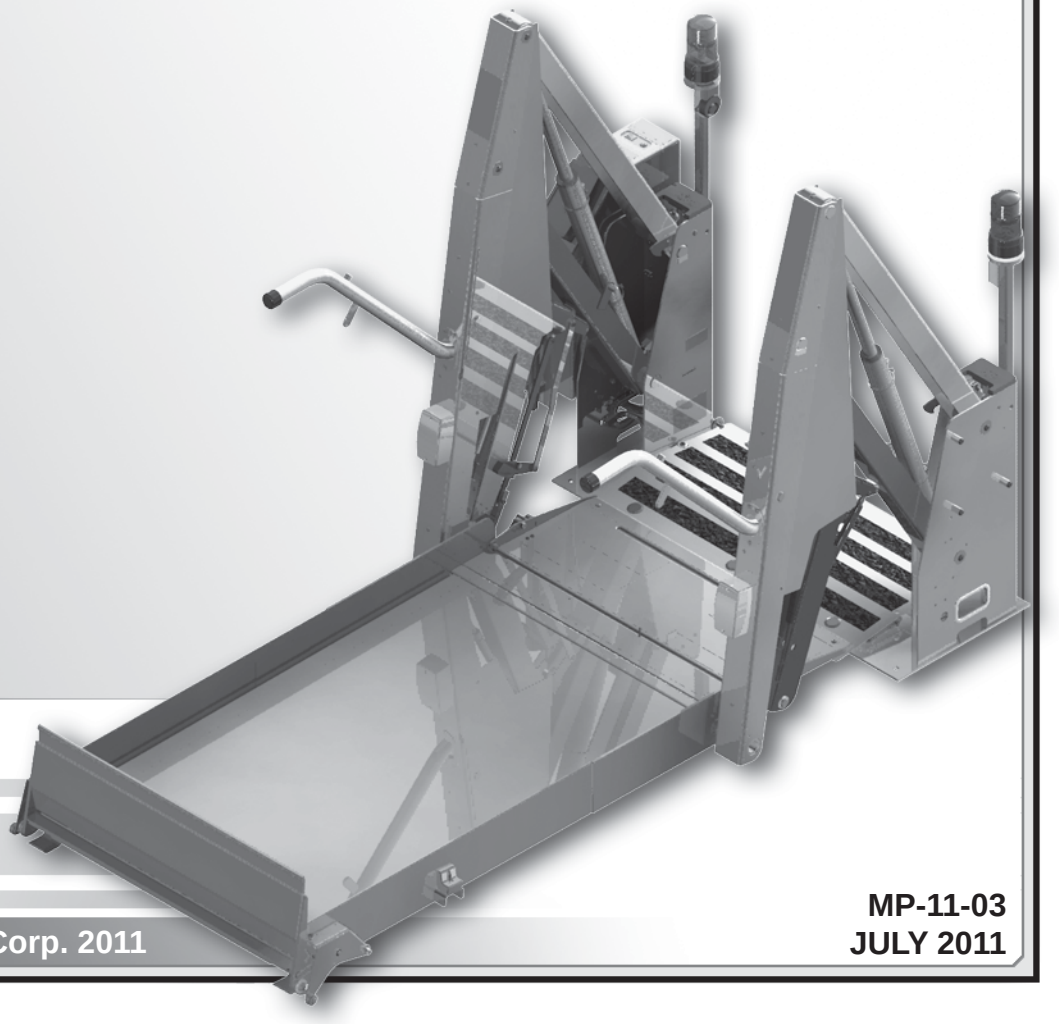
FOR

WHEELCHAIR LIFT MODEL NO.

- **WL7-vers. C**
- **WL7-vers. C-1K**

DOT-Public Use Lift

PATENTS PENDING



MP-11-03
JULY 2011

PATENTS PENDING

MAXON®
LIFT CORP.

11921 Slauson Ave.
Santa Fe Springs, CA. 90670

WARRANTY/ RMA POLICY & PROCEDURE

CUSTOMER SERVICE:
TELEPHONE (562) 464-0099 TOLL FREE (800) 227-4116
FAX: (888) 771-7713

NOTE: Download the latest version of manuals from the Maxon Mobility website at www.maxonmobility.com.

MOBILITY WARRANTY

LIFT WARRANTY

Type of Warranty: Full Parts and Labor

Term of Warranty: 3 years from ship date or 18,000 lift/lower cycles

This warranty shall not apply unless the product is installed, operated and maintained in accordance with MAXON Lift's specifications as set forth in MAXON Lift's Installation, Operation and Maintenance manuals. This warranty does not cover normal 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 3 years of service, or 18,000 lift/lower 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 repairs must be completed using genuine MAXON replacement parts.

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.** Online claims will be given priority processing.

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.

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 returned Lifts 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

MAXON will guarantee all returned genuine MAXON replacement parts upon receipt and inspection of parts and original invoice.

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

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

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

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SAFETY SUMMARY

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

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⚠ 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, 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. 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.

9. 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.

10. If an emergency situation arises (vehicle or Lift) while operating the Lift, immediately release the hand pendant switch.

11. 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.

12. Keep decals clean and legible. If decals are illegible or missing, replace them. **Free replacement decals** are available from **Maxon Customer Service**.

13. 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: cservice@maxonlift.com

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

PATENTS PENDING

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LIFT COMPONENTS & TERMINOLOGY

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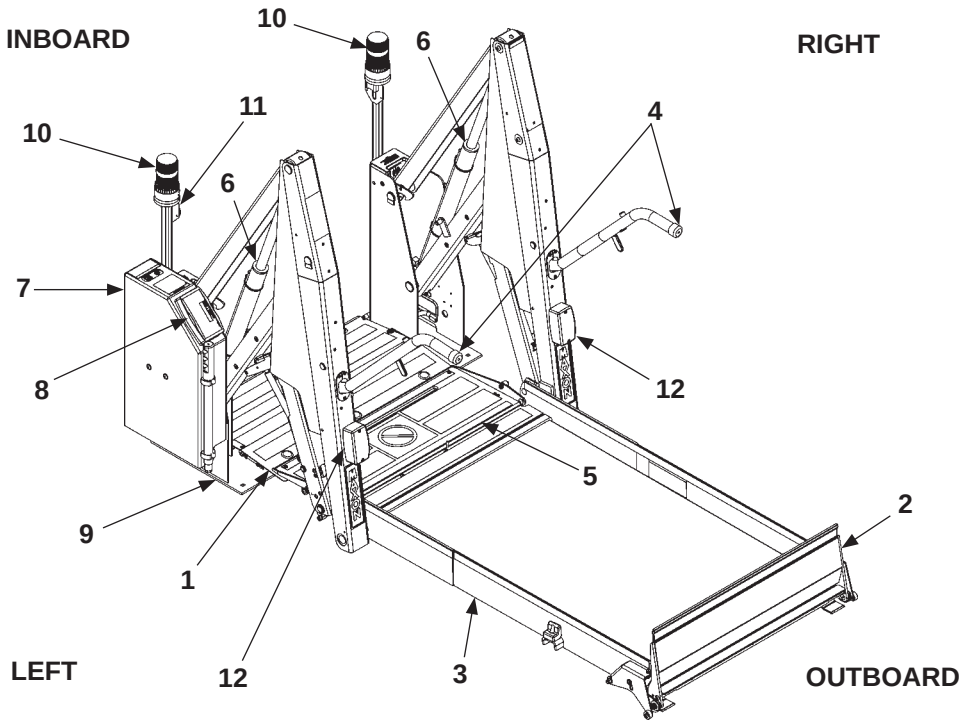

LIFT COMPONENTS (SEE TABLE 9-1)
FIG. 8-1

ITEM	NAME	DESCRIPTION
1	THRESHOLD PLATE	Detects if a 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. 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. 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 (BRAIN BOX)	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. 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. 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

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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

- ☐ Visually inspect the latch solenoids. If necessary, replace both latch solenoids P/N 266955-01 **(see PARTS BREAKDOWN, ELECTRICAL COMPONENTS, Item 19)**.
- ☐ Apply multi-use teflon spray lubricant to the inboard rollstop spring lock & the plunger switch spring on the Lift.

EVERY 5000 LIFTS

- ☐ Replace both platform light bulbs P/N 906475-01 **(see PARTS BREAKDOWN, ELECTRICAL COMPONENTS, Items 26A & 27A)**.

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 8)**.

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

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CHECKING HYDRAULIC FLUID LEVEL

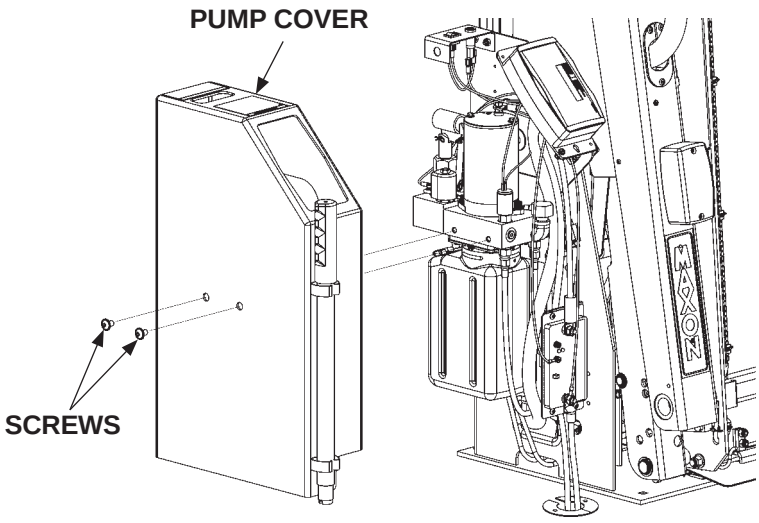
⚠ CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, 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.

2. Raise and stow platform.

3. Unbolt the pump cover as shown in **FIG. 11-1**. Observe the fluid level at the decal on pump reservoir. Fluid level should be in the **MIN-MAX** range shown on decal **(FIG. 11-2)**.



UNBOLTING/BOLTING PUMP COVER (LH PUMP SHOWN) FIG. 11-1

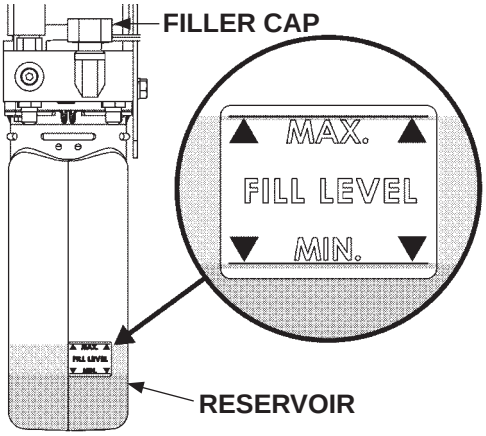
4. Pull out filler cap **(FIG. 11-2)**. Fill the reservoir with hydraulic fluid **(TABLE 11-1)** to level shown in **FIG. 11-2**. Reinstall filler cap **(FIG. 11-2)**.

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

TABLE 11-1

NOTE: If the expected seasonal temperatures are below 20°F, use MIL-H-5606G hydraulic fluid.

5. Bolt on the pump cover as shown in **FIG. 11-1**. Tighten the 5/16”-18 cover screws until snug.



HYDRAULIC FLUID LEVEL (LH PUMP SHOWN) FIG. 11-2

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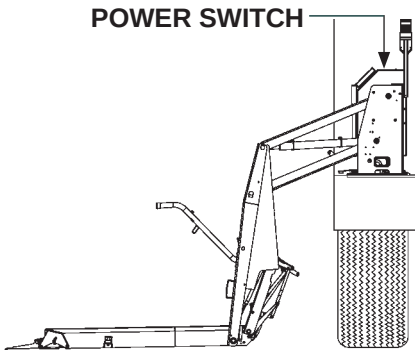
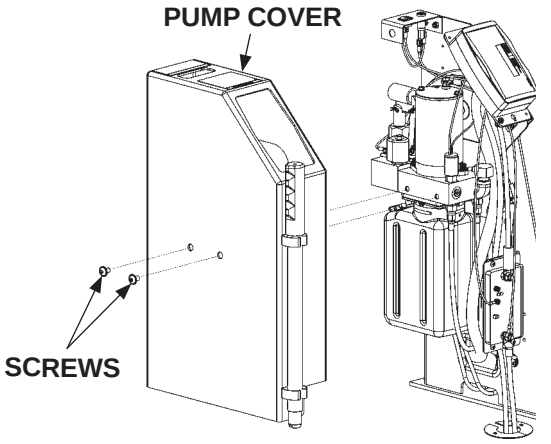
CHANGING HYDRAULIC FLUID

1. Make sure power switch **(FIG. 12-1)** is turned on. Then, lower platform to the ground **(FIG. 12-1)**.



LIFT AT GROUND LEVEL
(RH SIDE SHOWN)
FIG. 12-1

2. Unbolt the pump cover as shown in **FIG. 12-2**.



UNBOLTING PUMP COVER
(LH PUMP SHOWN)
FIG. 12-2

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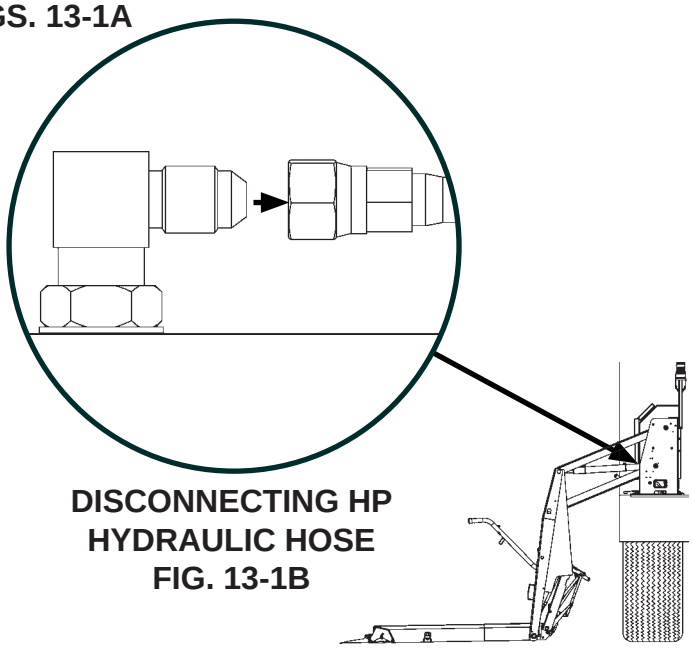
CAUTION

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.

3. On the cylinder farthest from the pump, disconnect high pressure (HP) hose from elbow fitting on the cylinder **(FIGS. 13-1A and 13-1B)**.

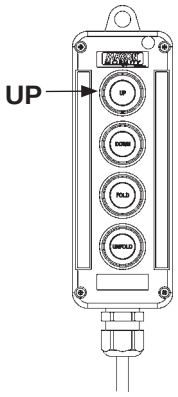


DISCONNECTING HP HYDRAULIC HOSE
FIG. 13-1B

FIG. 13-1A

4. Place the open end of the hose in a 3-gallon bucket.

5. To run the hydraulic pump, press the **UP** switch on the hand pendant **(FIG. 13-2)**. Hold the **UP** switch and listen for sounds of cavitation in the pump. Release the **UP** switch when the pump starts to cavitate.



HAND PENDANT
FIG. 13-2

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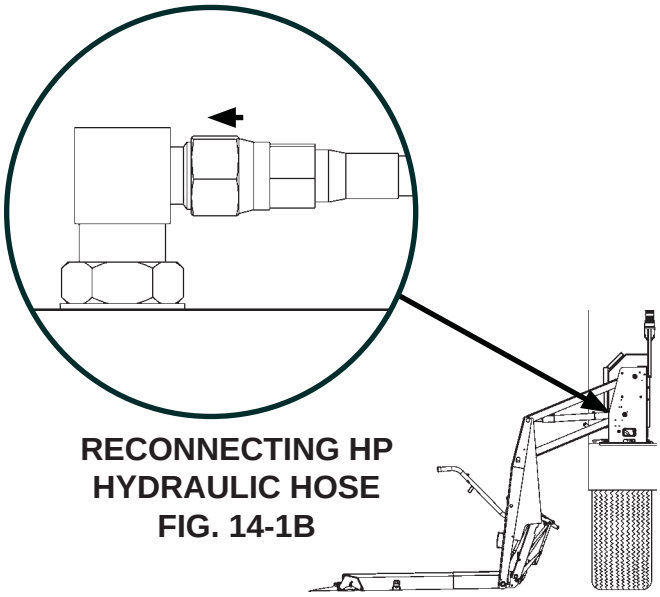
CHANGING HYDRAULIC FLUID - Continued

6. Reconnect the high pressure hose securely to elbow fitting on cylinder **(FIGS. 14-1A and 14-1B)**.



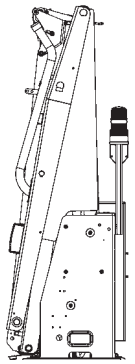
RECONNECTING HP HYDRAULIC HOSE
FIG. 14-1B

FIG. 14-1A

7. Clean up dripped or spilled hydraulic fluid.

8. Repeat steps 3 through 7 for the cylinder next to the pump.

9. Raise and stow platform **(FIG. 14-2)**.



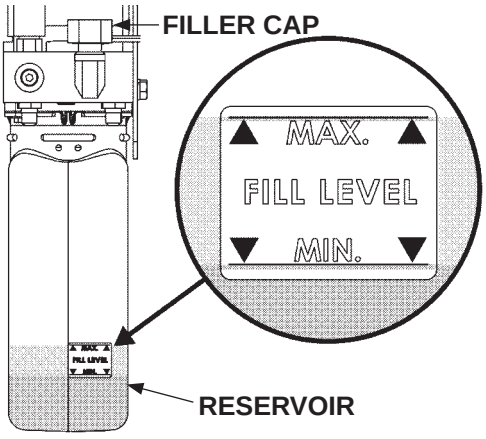
STOWED PLATFORM
FIG. 14-2

10. Pull out filler cap **(FIG. 14-3)**. Fill the reservoir with hydraulic fluid **(TABLE 14-1)** to level shown on decal **(FIG. 14-3)**. Reinstall filler cap **(FIG. 14-3)**.

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

TABLE 14-1

NOTE: If the expected seasonal temperatures are below 20°F, use MIL-H-5606G hydraulic fluid.



HYDRAULIC FLUID LEVEL (LH PUMP SHOWN)
FIG. 14-3

11. Do the **CHECKING HYDRAULIC FLUID** procedure in this manual.

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ADJUSTMENTS
THRESHOLD (MAT) SWITCH ADJUSTMENT

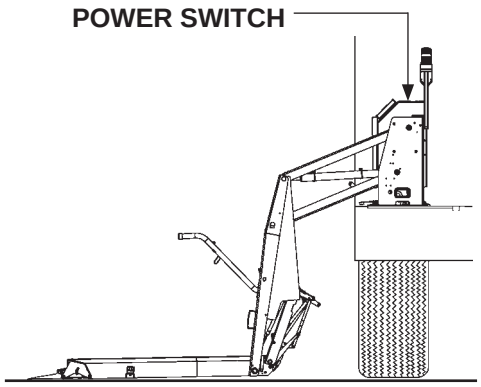
NOTE: Do this procedure if structure of the Lift is undamaged and:

- 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 is below floor level.
- The threshold warning beacons and threshold warning alarm will not turn on when threshold is occupied and platform is below floor level.
- The threshold (MAT) switch (or switches) or threshold plate is 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 turn on when threshold is occupied and platform is below floor level.

1. Make sure power switch is turned on. Lower Lift to the ground **(FIG. 15-1)**.



LIFT AT GROUND LEVEL
FIG. 15-1

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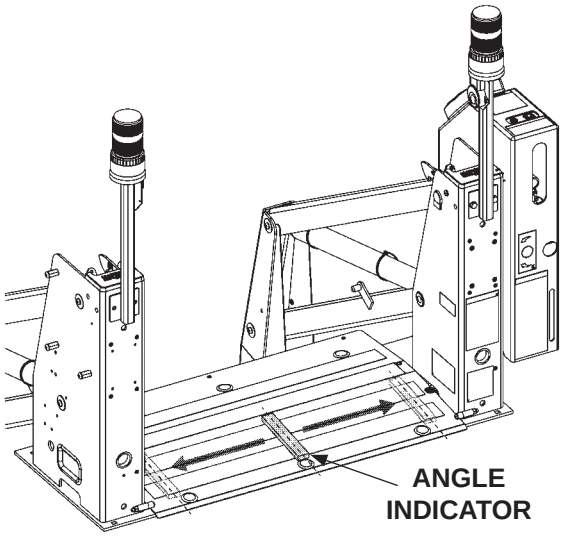
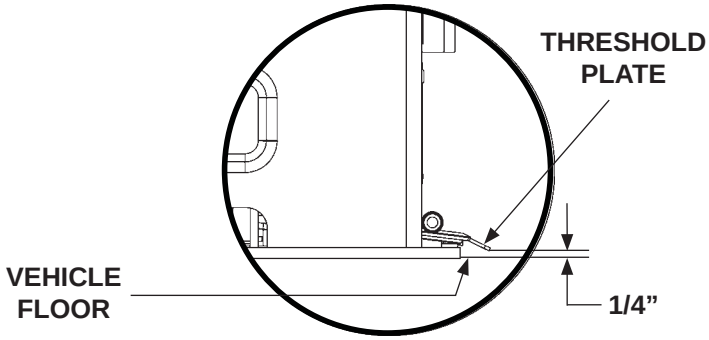
2. Set inside slope angle of threshold plate to 7.1° MAXIMUM as follows. Center angle indicator on the inside slope of threshold plate **(FIG. 16-2)**.



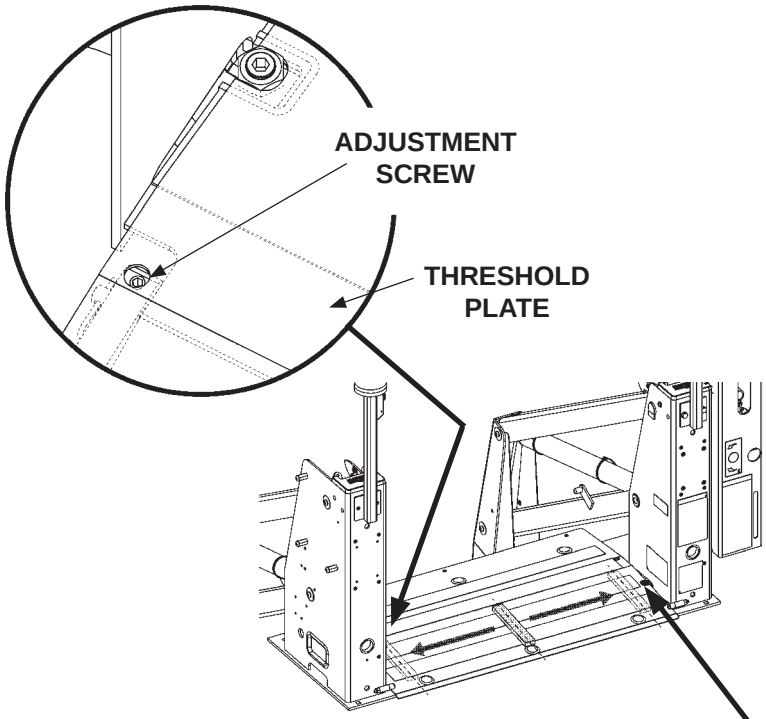
THRESHOLD PLATE INSIDE SLOPE ANGLE 7.1°
FIG. 16-2

3. Measure distance from upper edge of threshold plate to vehicle floor as shown in **FIG. 16-1**. Distance should be 1/4” MAXIMUM at any point across the width of threshold plate.

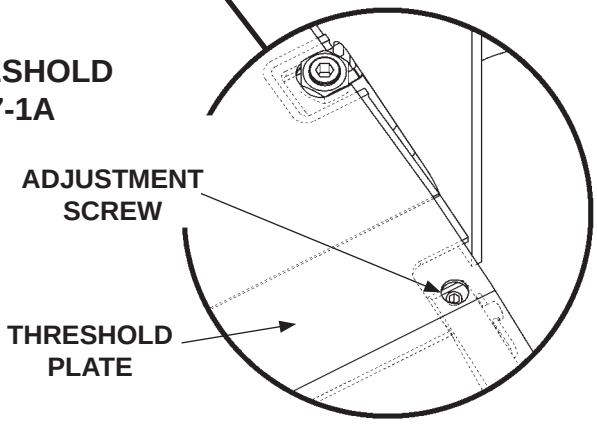


HEIGHT MEASUREMENT
(RH SIDE SHOWN)
FIG. 16-3

4. If necessary, turn threshold plate adjustment screws on the right and left sides of threshold plate to adjust distance to 1/4" maximum **(FIG. 17-1B)**. Turn screws counter-clockwise to raise and clockwise to lower the edge of plate **(FIG. 17-2)**.



LIFT THRESHOLD
FIG. 17-1A



HEIGHT ADJUSTMENT SCREW
(LH SIDE SHOWN)
FIG. 17-1B

HEIGHT ADJUSTMENT SCREWS
FIG. 17-2

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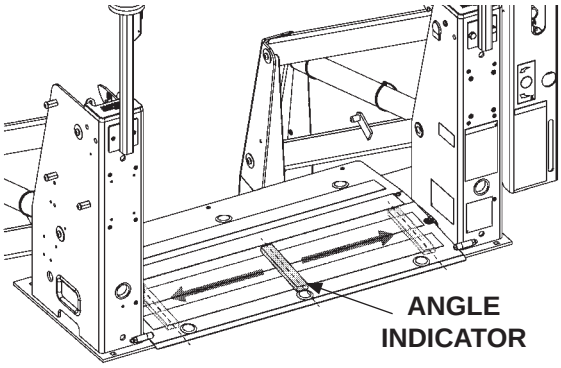
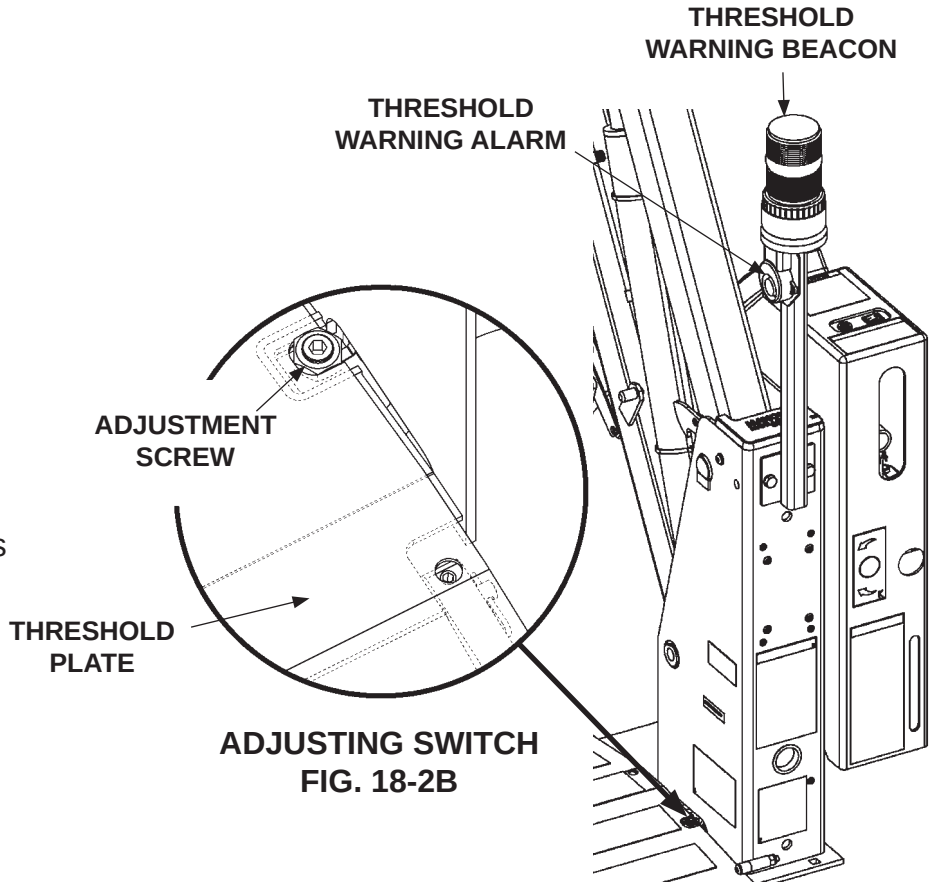
5. Check inside slope angle across width of threshold plate **(FIG. 18-1)**. Angle should be no more than 7.1°. If necessary, repeat steps to raise or lower edge of threshold plate to 1/4" and check for inside slope angle of 7.1° maximum. When angle is set at 7.1° maximum, continue doing procedure.



THRESHOLD PLATE INSIDE SLOPE ANGLE 7.1°
FIG. 18-1

6. Turn the adjustment screw clockwise on left side of threshold plate **(FIG. 18-2B)**, until threshold warning alarm and beacon lights are turned on **(FIG. 18-2A)**. Next, turn adjustment screws counter-clockwise until threshold warning alarm and beacon lights are turned off. Then, turn adjustment screw counter-clockwise approximately 1/4-turn **(FIG. 18-3)**.



ADJUSTING SWITCH
FIG. 18-2B

LH SIDE OF LIFT
FIG. 18-2A

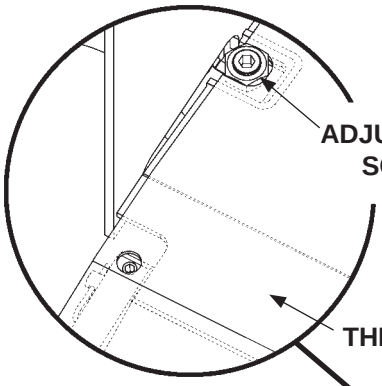
CW - UNTIL ALARM & BEACONS TURN ON

1/4-TURN CCW - ALARM & BEACONS TURN OFF

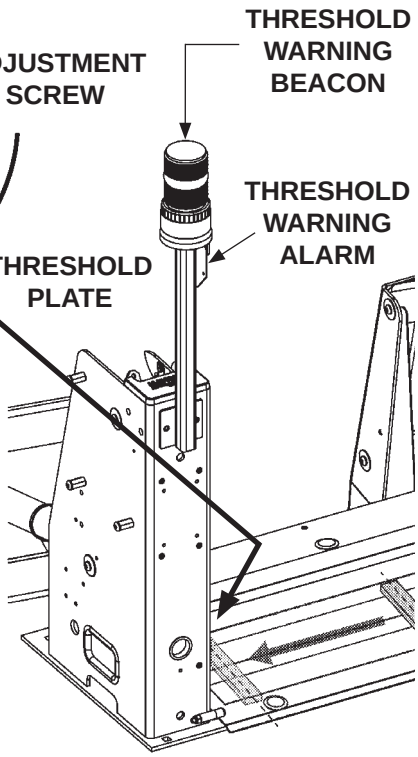
THRESHOLD SWITCH ADJUSTMENT SCREWS
FIG. 18-3

PATENTS PENDING

7. Turn the adjustment screw clockwise on right side of threshold plate **(FIG. 19-1B)**, until threshold warning alarm and beacon lights are turned on **(FIG. 19-1A)**. Next, turn adjustment screws counter-clockwise until threshold warning alarm and beacon lights are turned off. Then, turn adjustment screw approximately 1/4-turn counter-clockwise **(FIG. 19-2)**.



ADJUSTING SWITCH
FIG. 19-1B



RH SIDE OF LIFT
FIG. 19-1A

CW - UNTIL ALARM & BEACONS TURN ON

1/4-TURN CCW - ALARM & BEACONS TURN OFF

THRESHOLD SWITCH ADJUSTMENT SCREWS
FIG. 19-2

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THRESHOLD (MAT) SWITCH ADJUSTMENT - Continued

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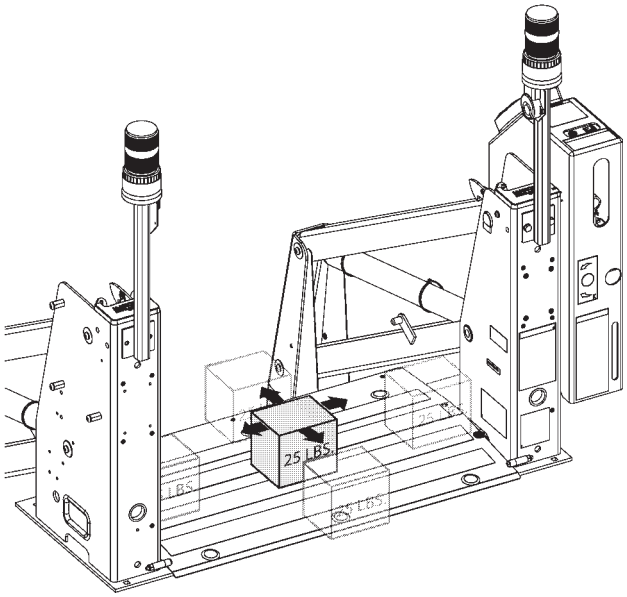
8. Put 25-pound weight on threshold plate **(FIG. 20-1)**. The warning alarm and beacon lights should turn on. If alarm and beacon lights don't come on, alternately turn left side and right side adjustment screws clockwise until alarm & beacon lights are turned on.



25 POUND WEIGHT ON THRESHOLD PLATE
FIG. 20-1

9. Move 25-pound weight to several different places across threshold plate **(FIG. 20-1)**. Alarm and beacon lights should turn on with load anywhere on 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. The lift mounting surface must be parallel to the ground and rigid enough to remain parallel during the adjustment process. Platform must be empty during adjustment. Lift mounting surface must be parallel to ground and bed height must be 29". Vehicle floor height, Lift and stiffness of the vehicle suspension may change the angle of platform on the ground.

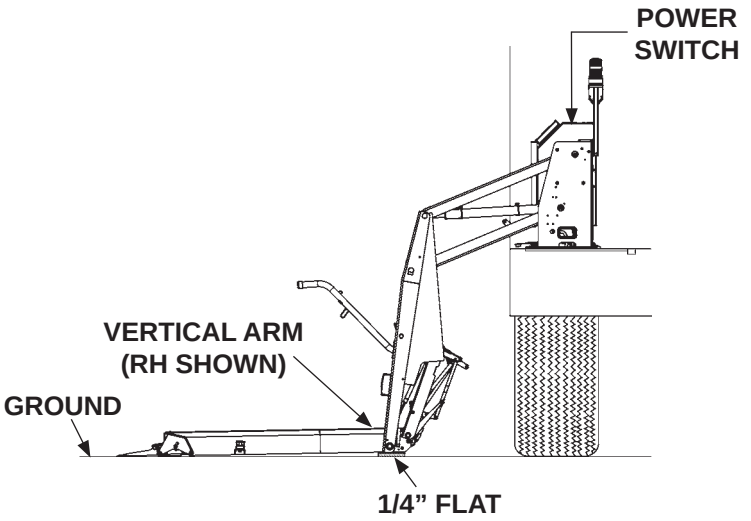
NOTE: Do this procedure if structure of the Lift is undamaged and:

- Outboard rollstop will not open completely 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 opens completely 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. 21-1)** is turned on.



PLATFORM AT GROUND LEVEL WITH VERTICAL ARMS RESTING ON FLATS
FIG. 21-1

2. Lower platform to just above the ground with enough room to place a 1/4" steel flat under bottom of LH and RH vertical arms **(FIG. 21-1)**. Then, lower platform until outboard rollstop is all the way open and vertical arms rest on the 1/4" flats.

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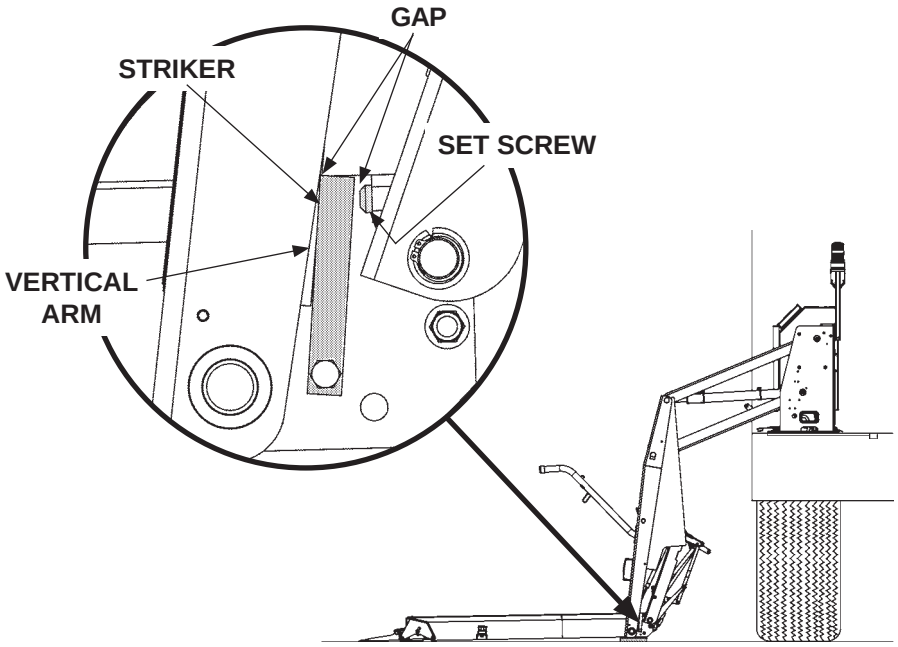
3. Check for gap between tilt adjuster screw and striker or between striker and vertical arm **(FIG. 22-2)**. If gap is between striker and vertical arm, push striker against vertical arm.



GAP BETWEEN TILT ADJUSTMENT SCREW & STRIKER (RH SIDE OF PLATFORM SHOWN)
FIG. 22-2

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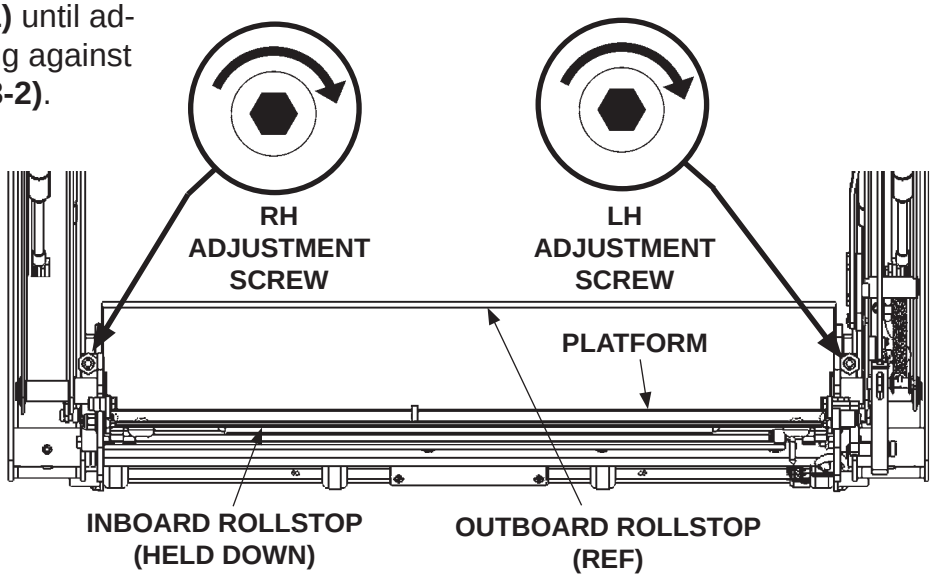
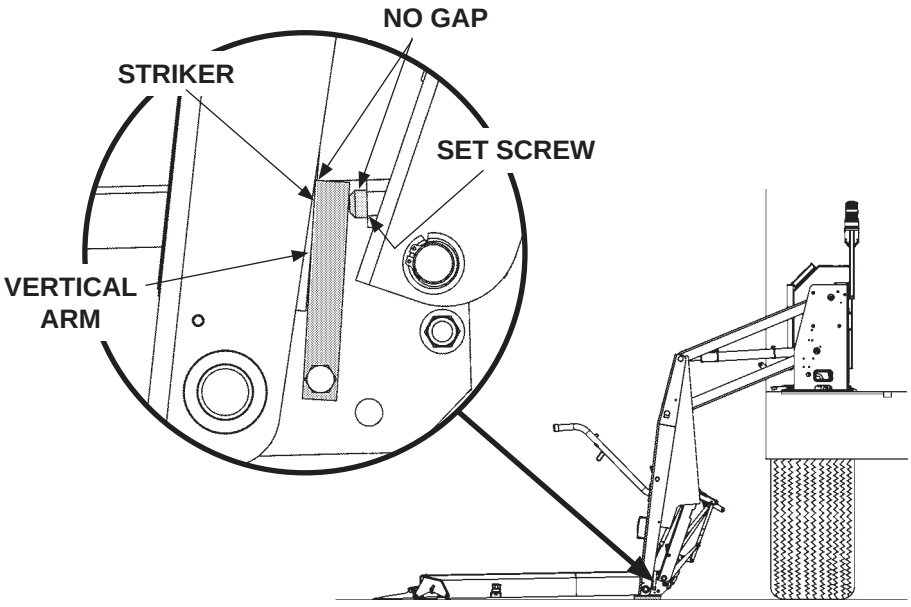
NOTE: To gain access to adjust tilt adjustment screws, release inboard rollstop and hold in down position

4. Turn tilt adjustment screws clockwise on right and left sides of platform **(FIG. 23-1)** until adjuster strikers are snug against vertical arms **(FIG. 23-2)**.



PLATFORM TILT ADJUSTMENT SCREWS (BACK VIEW OF PLATFORM SHOWN) FIG. 23-1



GAP BETWEEN TILT ADJUSTMENT SCREW & STRIKER (RH SIDE OF PLATFORM SHOWN) FIG. 23-2

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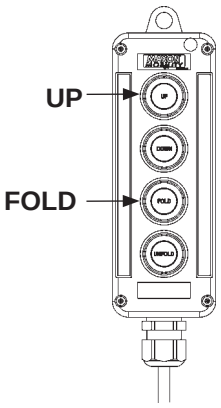
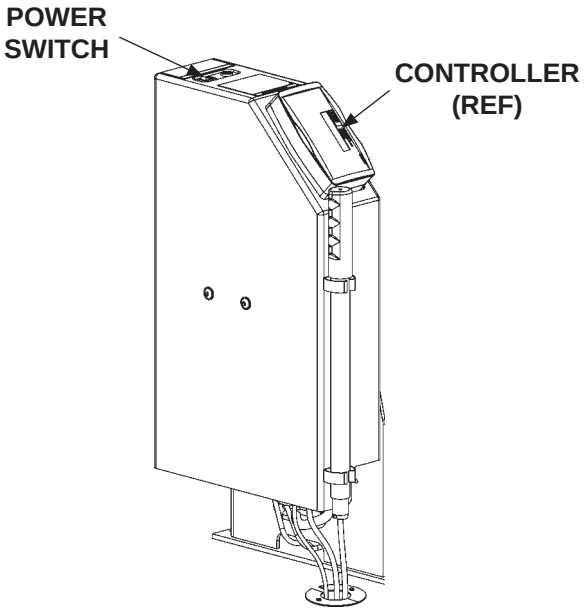
CHANGING CONTROLLER TO SPANISH OR ENGLISH

NOTE: The power switch on the Lift must be turned **OFF** before entering **SETUP**.

1. Turn power switch **OFF (FIG. 24-2)**.

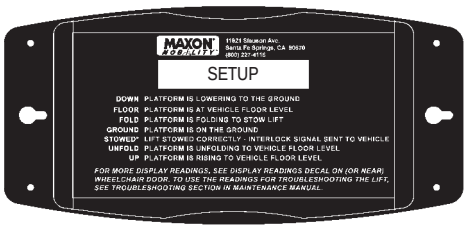


HAND PENDANT: ENTERING SETUP FIG. 24-1



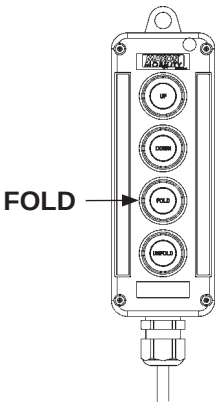
TURNING POWER SWITCH ON/OFF (LH PUMP SHOWN) FIG. 24-2

2. Enter **SETUP** by holding both the **UP** and **FOLD** switches on the hand pendant **(FIG. 24-1)** and turning the power switch **ON** at the same time **(FIG. 24-2)**. Controller will read **SETUP (FIG. 24-3)**.

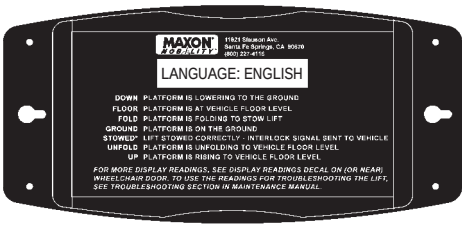


CONTROLLER: ENTERING SETUP FIG. 24-3

3. Push and release the **FOLD** switch **(FIG. 25-1)**. Controller should be in the **LANGUAGE** mode **(FIG. 25-2)**.



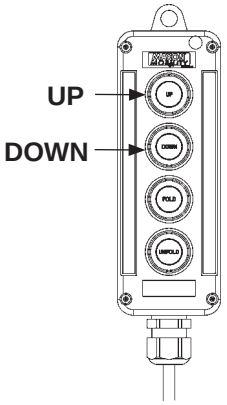
HAND PENDANT: CHANGING SETUP MODE FIG. 25-1



CONTROLLER: LANGUAGE SETTING (ENGLISH OR SPANISH) FIG. 25-2

NOTE: After you exit **SETUP**, the controller readings will be displayed in the language you selected.

4. Push the **UP** switch or **DOWN** switch to change from **ENGLISH** to **SPANISH** (or from **SPANISH** to **ENGLISH**) **(FIGS. 25-2 and 25-3)**.



HAND PENDANT: CHANGING THE SETTING FIG. 25-3

5. Push and release the **FOLD** switch **(FIG. 25-1)** three times to exit **SETUP (FIG. 25-4)**.

CONTROLLER: EXITING SETUP FIG. 25-4

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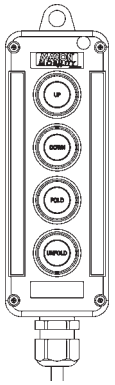
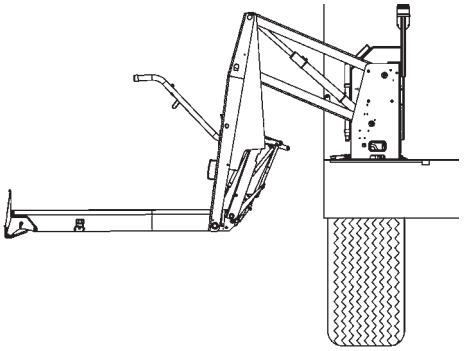
OUTBOARD SWITCH ADJUSTMENT

NOTE: Do the following procedure to ensure outboard roll stop is fully closed before platform can be raised or lowered. This procedure must be done before the **3" SWITCH ADJUSTMENT (MANDATORY)**.

1. Using the hand held control **(FIG. 26-1)**, raise or lower the platform to a comfortable working position **(FIG. 26-2)**. Refer to **Operation Manual** for operating instructions.

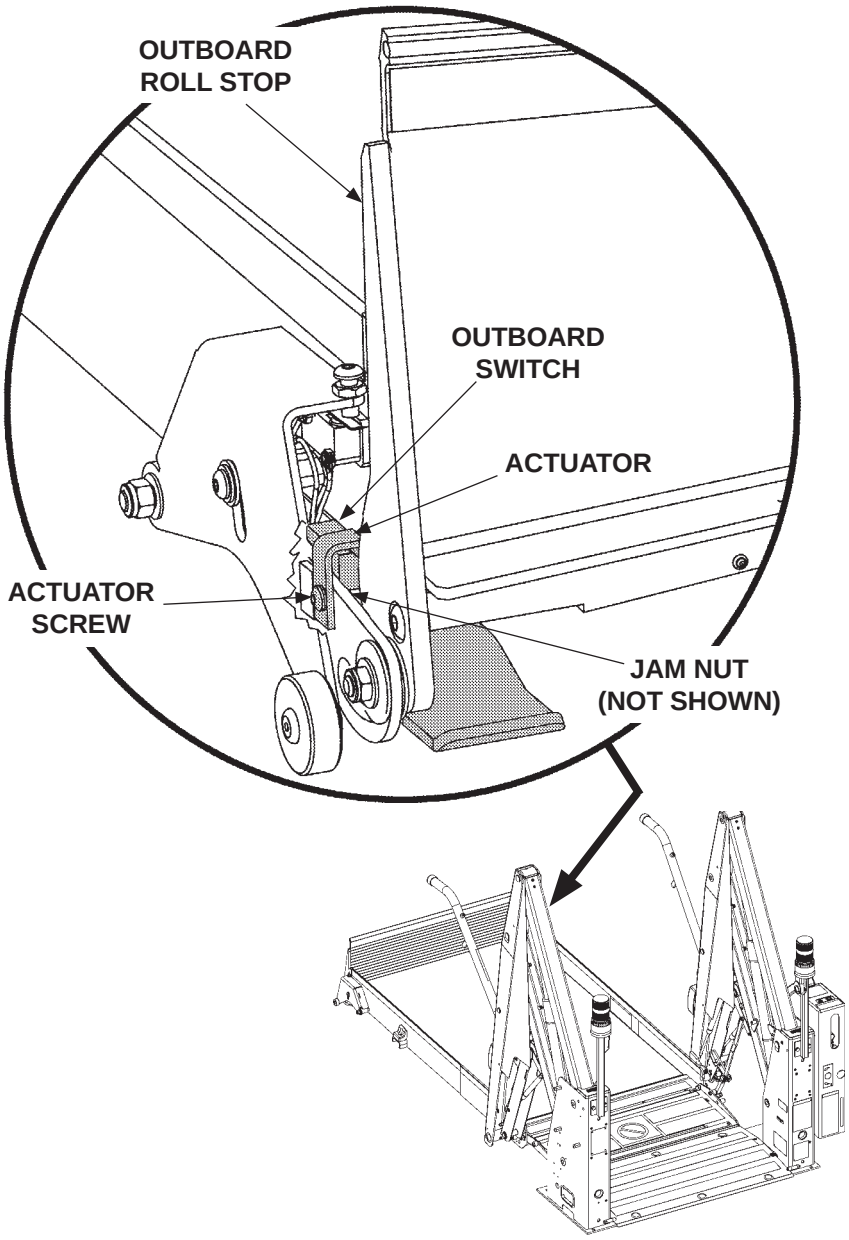


HAND HELD CONTROL
FIG. 26-1



PLATFORM AT COMFORTABLE WORKING POSITION
FIG. 26-2

2. On the left side of the platform, loosen jam nut and screw on outboard switch actuator enough to reposition actuator **(FIG. 27-1).**



LOOSENING ACTUATOR SCREW
FIG. 27-1

3. Ensure outboard roll stop is fully closed **(FIG. 27-1).**

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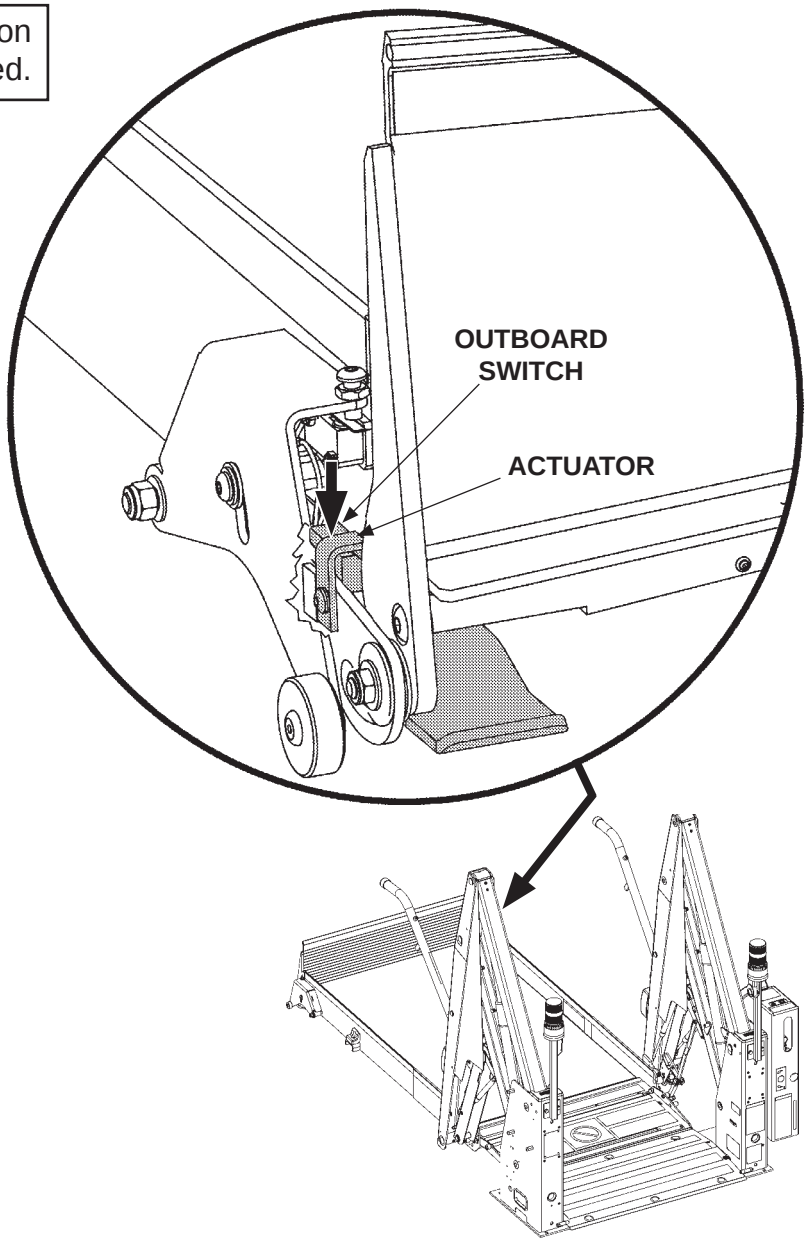
NOTE: Hold actuator in position after switch is activated.

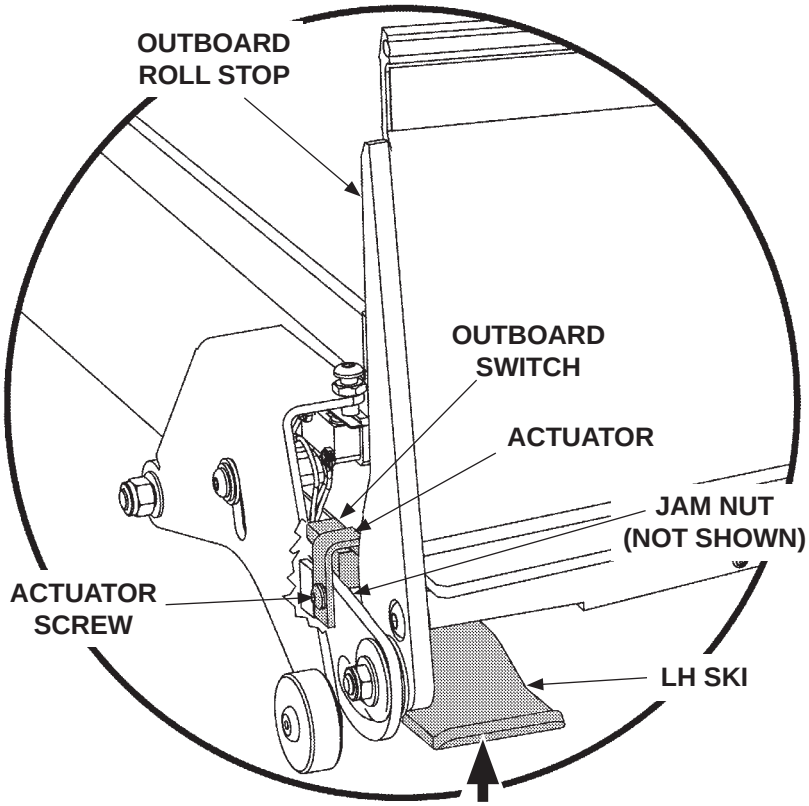
4. Push down on actuator until outboard switch activates with an audible “click” **(FIG. 28-1)**. Controller display should read **“OUTBD SW”** as shown in **FIG. 28-2**.



ACTIVATING OUTBOARD SWITCH
FIG. 28-1

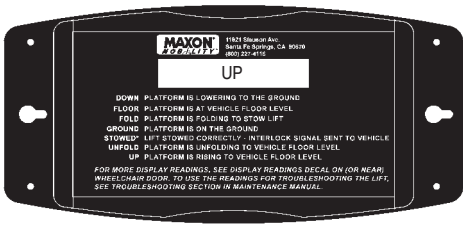
CONTROLLER: OUTBD SW
FIG. 28-2

5. While holding actuator, push up on LH ski until outboard switch gives an audible “click” **(FIG. 29-1)**. Switch should be deactivated and controller display should read **“UP”** or **“DOWN”** as shown in **FIGS. 29-2 or 29-3**.



LIFTING LH SKI TO DEACTIVATE OUTBOARD SWITCH
FIG. 29-1

6. Tighten actuator screw securely **(FIG. 29-1)**.



CONTROLLER: UP
FIG. 29-2

CONTROLLER: DOWN
FIG. 29-3

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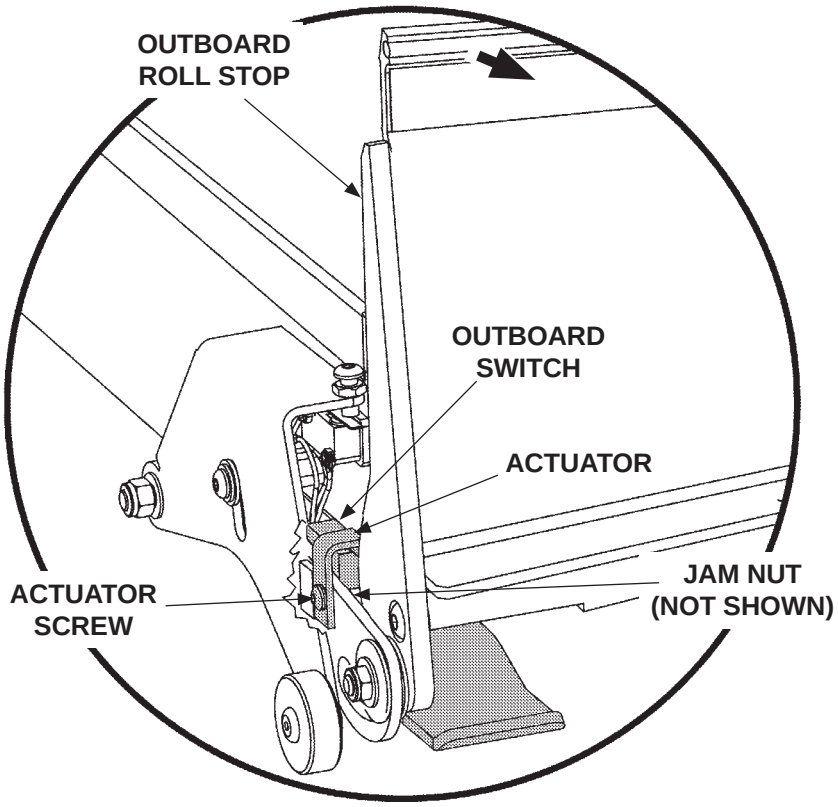
OUTBOARD SWITCH ADJUSTMENT - Continued

7. Attempt to open outboard roll stop **(FIG. 30-1)**. Outboard roll stop should remain closed and locked in position.



OUTBOARD ROLL STOP IN CLOSED POSITION
FIG. 30-1

8. Tighten jam nut securely **(FIG. 30-1)**.

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STOW SWITCH ADJUSTMENT

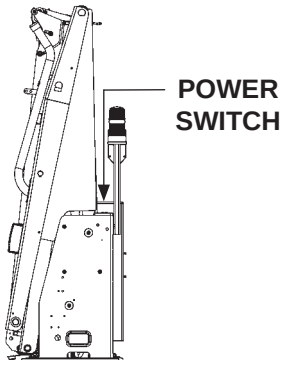
NOTE: Do this procedure if structure of the Lift is undamaged and:

- Controller reads **FOLD** or **UNFOLD** when platform is stowed or has settled on the latches.
- Vehicle will not move because interlock conditions are not being met.
- 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.
- Vehicle interlock conditions are met and the vehicle will move.

1. Make sure power switch **(FIG. 31-1)** is turned on. Stow the Lift **(FIG. 31-1)**.



STOWED LIFT
(LIFT WITH LH PUMP)
FIG. 31-1

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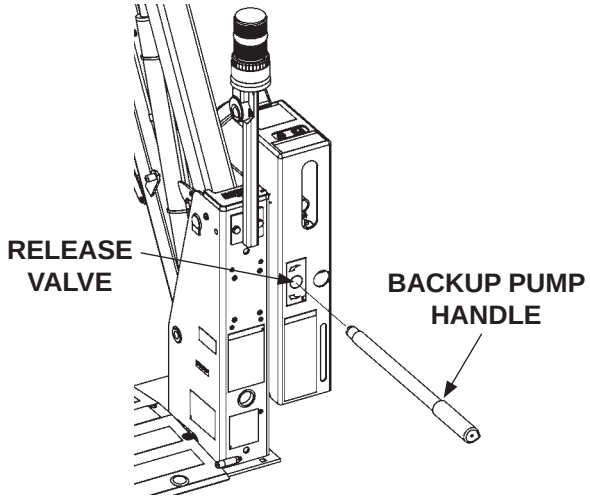
⚠ CAUTION

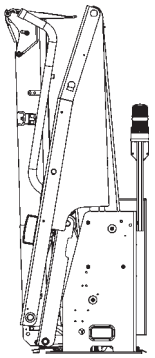
To prevent possible injury, stay clear of the Lift when the controller repressurizes the hydraulic system. The system will repressurize every 5 minutes after the Lift is turned ON. If necessary, turn the Lift OFF and then ON again to continue the adjustment.

NOTE: When the power switch is turned on, you have 5 minutes to do the adjustment before the controller repressurizes hydraulic system and stows the Lift.

2. To open the release valve **(FIG. 32-1)**, turn the backup pump handle counterclockwise.

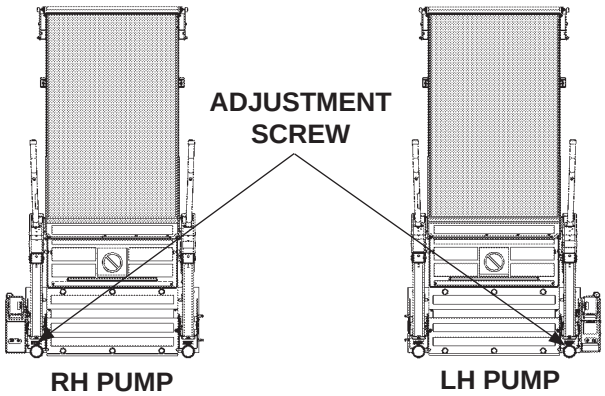


USING BACKUP PUMP TO UNFOLD (LIFT WITH LH PUMP)
FIG. 32-1



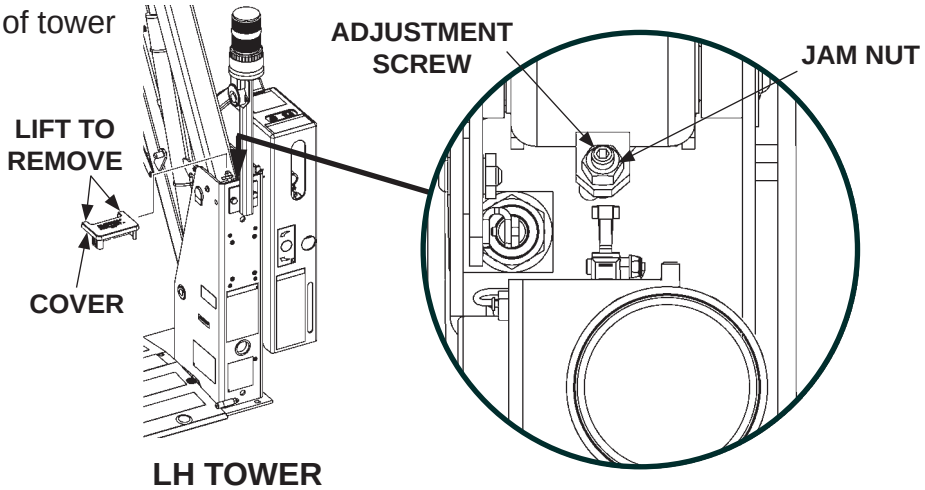
LIFT RESTING ON LATCHES
FIG. 32-2

NOTE: The STOW switch adjustment screw is always on the same side of the Lift as the pump cover **(FIG. 32-3)**.



LOCATION OF ADJUSTMENT SCREW
FIG. 32-3

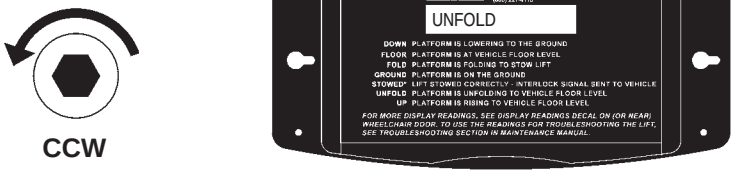
3. Remove cover from top of tower **(FIG. 33-1A)**.



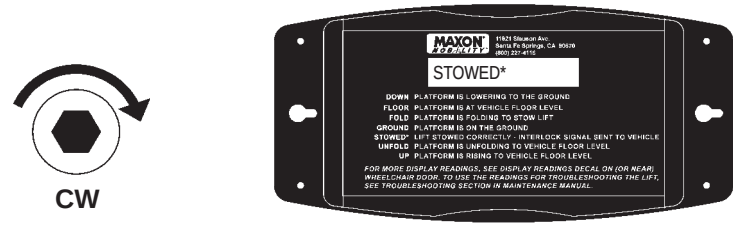
LH TOWER (LIFT WITH LH PUMP) FIG. 33-1A

STOW SWITCH ADJUSTMENT FIG. 33-1B

4. Loosen jam nut **(FIG. 33-1B)** on the STOW switch adjustment screw. Next, turn adjustment screw counter-clockwise (CCW) **(FIG. 33-2)** until controller reads **UNFOLD**. Turn adjustment screw clockwise (CW) **(FIG. 33-3)** until controller reads **STOWED***. Then, turn the adjustment screw 1/2 turn CW **(FIG. 33-4)**.



ADJUST SO CONTROLLER READS "UNFOLD" FIG. 33-2



ADJUST SO CONTROLLER READS "STOWED* " FIG. 33-3

5. Use the hand pendant to stow Lift **(FIG. 29-3)**. 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. 33-1B)**.

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

ADJUSTMENT SCREW FIG. 33-4

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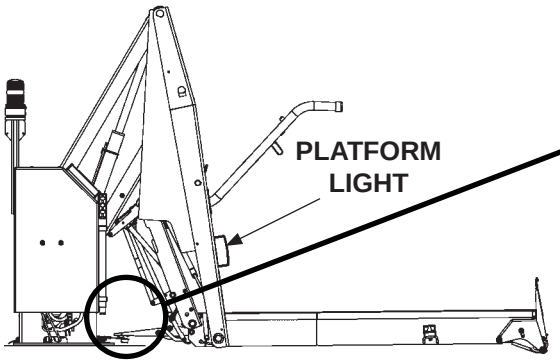
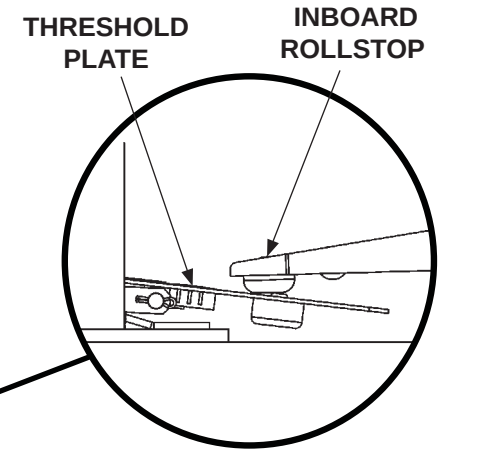
FLOOR POSITION ADJUSTMENT

NOTE: Do the following procedure to ensure the inboard rollstop rests on threshold plate when platform is at vehicle floor level.

1. Unfold the platform until the lights illuminate at floor level or raise the platform to floor level as shown in **FIG. 34-1A**.



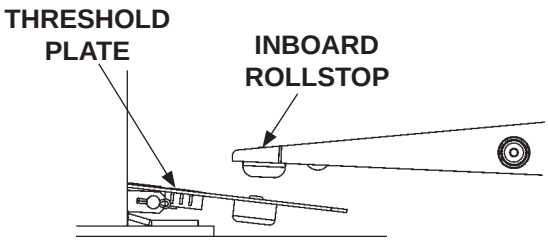
**PLATFORM AT FLOOR LEVEL
(LH SIDE SHOWN)
FIG. 34-1A**



**INBOARD ROLLSTOP RESTING
ON THRESHOLD PLATE
FIG. 34-1B**

2. Inspect the threshold plate. The inboard rollstop should rest on threshold plate as shown in **FIG. 34-1B**.

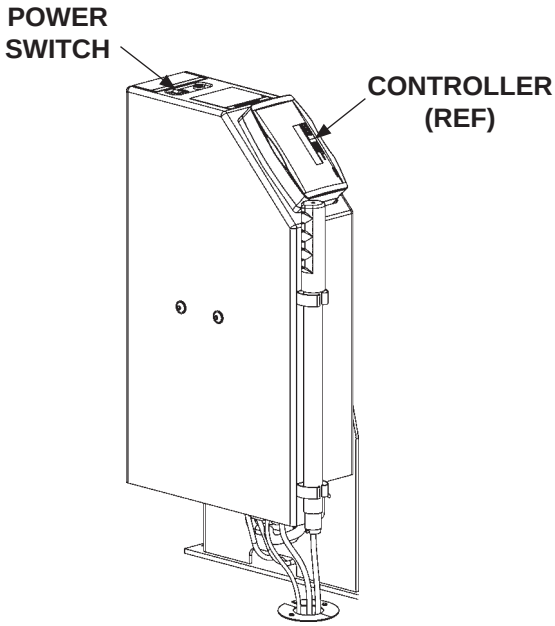
3. If the inboard rollstop does not rest on the threshold plate **(FIG. 35-1)**, go to INSTRUCTION 4.



INBOARD ROLLSTOP WITH GAP BETWEEN THRESHOLD PLATE
FIG. 35-1

NOTE: The power switch on the Lift must be turned **OFF** before entering **SETUP**.

4. Turn power switch **OFF (FIG. 35-2)**.



TURNING POWER SWITCH ON/OFF (LH PUMP SHOWN)
FIG. 35-2

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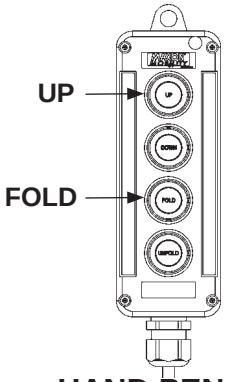
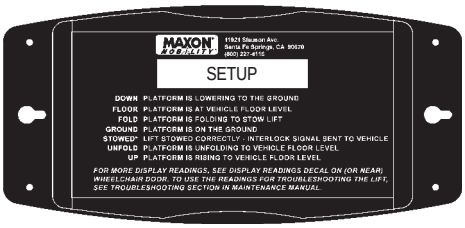
FLOOR POSITION ADJUSTMENT - Continued

5. Enter **SETUP** by holding both the **UP** and **FOLD** switches on the hand pendant **(FIG. 36-1)** and turning the power switch **ON** at the same time **(FIG. 32-2)**. Controller will read **SETUP (FIG. 36-2)**.

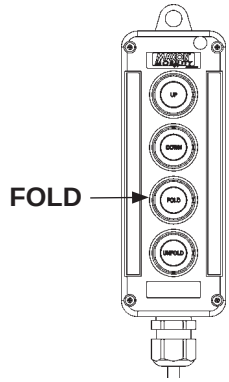


HAND PENDANT:
ENTERING SETUP
FIG. 36-1



CONTROLLER:
ENTERING SETUP
FIG. 36-2

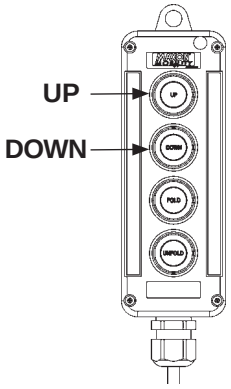
6. Push and release the **FOLD** switch **(FIG. 36-3)** two times to access the **FLOOR POS** setting **(FIG. 36-4)**.



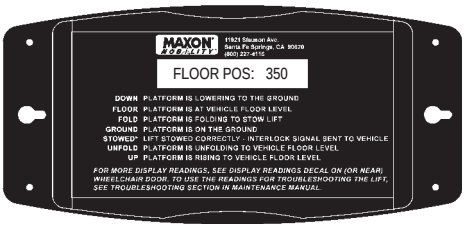
HAND PENDANT:
CHANGING SETUP MODE
FIG. 36-3

CONTROLLER:
SETTING FLOOR POSITION
(EXAMPLE READING SHOWN)
FIG. 36-4

7. To close the gap between inboard rollstop and threshold plate, push the **DOWN** switch from 5 to 10 times **(FIG. 37-1)**. The **FLOOR POS** number displayed on the controller **(FIG. 37-2)** will decrease by 1 each time you push the **DOWN** button. To reverse the position setting, push the **UP** switch 1 or more times **(FIG. 37-1)**. The **FLOOR POS** number displayed on the controller **(FIG. 37-2)** will increase by 1 each time you push the **UP** button.

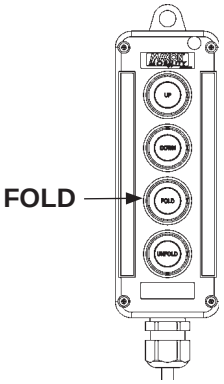


HAND PENDANT:
CHANGING THE SETTING
FIG. 37-1

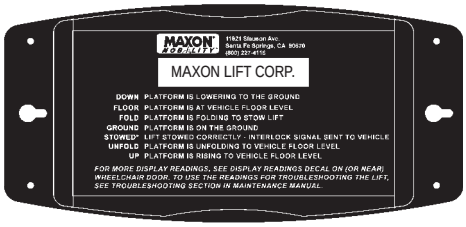


CONTROLLER:
SETTING FLOOR POSITION
(EXAMPLE READING SHOWN)
FIG. 37-2

8. Push and release the **FOLD** switch **(FIG. 37-3)** to exit **SETUP (FIG. 37-4)**.



HAND PENDANT:
CHANGING SETUP MODE
FIG. 37-3



CONTROLLER:
EXITING SETUP
FIG. 37-4

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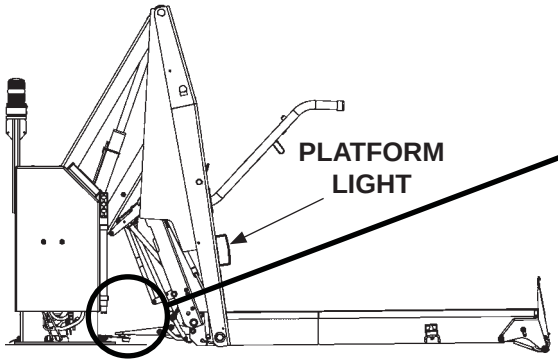
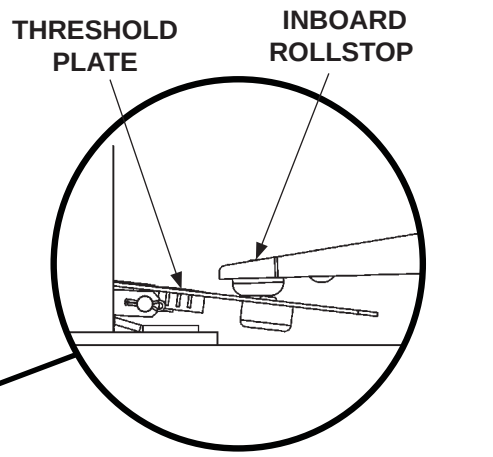
FLOOR POSITION ADJUSTMENT - Continued

9. Lower the platform until the inboard rollstop is in the up and locked position. Next, raise the platform to floor level **(FIG. 38-1A)**. Verify that the inboard rollstop rests on threshold plate as shown in **FIG 38-1B**. If necessary, repeat this entire procedure.



PLATFORM AT FLOOR LEVEL
(LH SIDE SHOWN)
FIG. 38-1A



INBOARD ROLLSTOP RESTING
ON THRESHOLD PLATE
FIG. 38-1B

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INBOARD SWITCH ADJUSTMENT

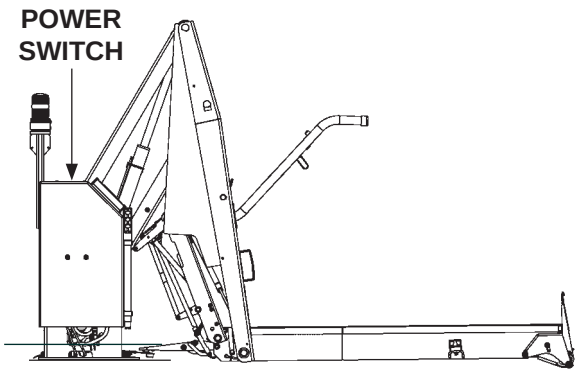
NOTE: Do this procedure if structure of the Lift is undamaged and:

- The Controller reads "**IBRS 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 "**IBRS SW**" when the Inboard Rollstop is locked in the up position.

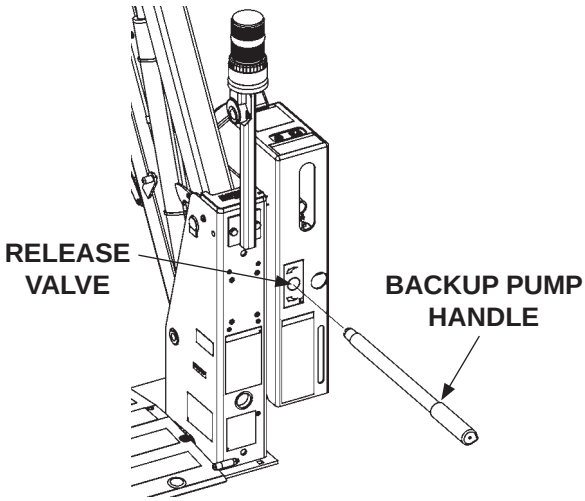
1. Position the platform at floor level **(FIG. 39-1)**.



PLATFORM AT FLOOR LEVEL
(LH SIDE SHOWN)
FIG. 39-1

2. Turn **OFF** power switch on pump cover **(FIG. 39-1)**.

3. Using the manual backup pump **(FIG. 39-2)**, lower the platform until inboard rollstop (IBRS) is locked in the up position **(FIG. 33-1)**. Refer to **Operation Manual** for instructions to operate the manual pump.



USING BACKUP PUMP TO UNFOLD
(LIFT WITH LH PUMP)
FIG. 39-2

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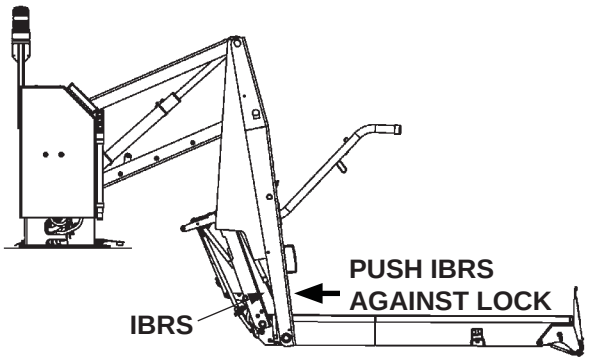
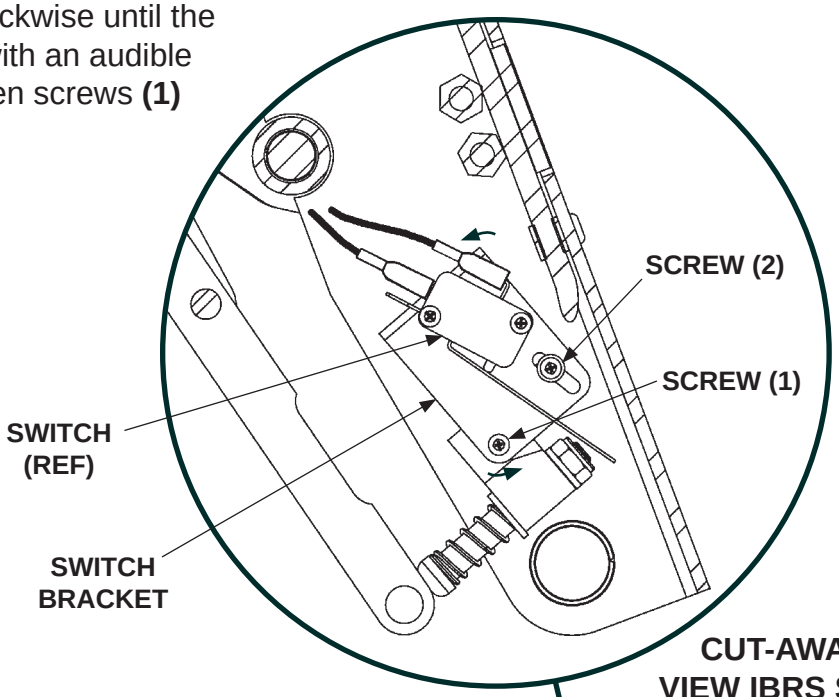
4. Push the inboard rollstop back against the lock as if a wheel-chair is pushing on the rollstop **(FIG. 40-1)**.



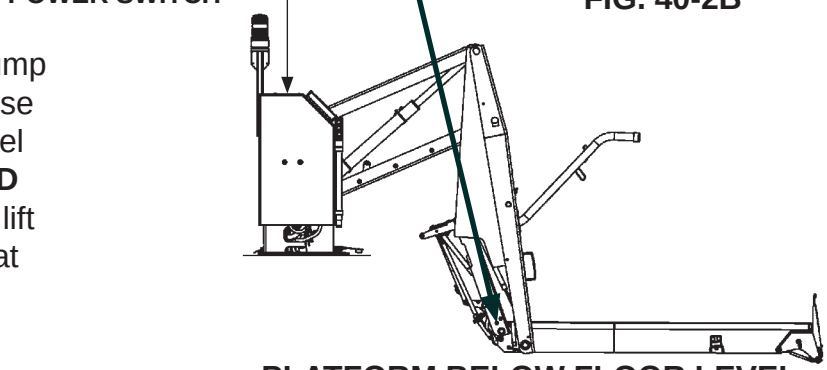
PLATFORM BELOW FLOOR LEVEL, WITH IBRS UP (LH SIDE SHOWN)
FIG. 40-1

5. On the inboard rollstop switch, loosen screws **(1)** and **(2)** one-half turn **(FIG. 40-2B)**. Next, rotate switch bracket clockwise until the switch activates with an audible "click". Then tighten screws **(1)** and **(2)** securely.



CUT-AWAY OF VIEW IBRS SWITCH
FIG. 40-2B

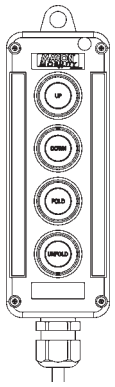
6. Turn **ON** power switch on pump cover **(FIG. 40-2A)**. Then raise **(UP)** the platform to floor level **(FIG. 32-1)**. Verify that **"INBD SW"** is not displayed on the lift controller. If necessary repeat this procedure.



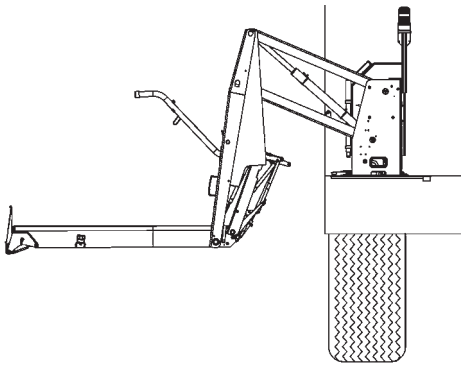
PLATFORM BELOW FLOOR LEVEL, WITH IBRS UP (LH SIDE SHOWN)
FIG. 40-2A

3” GROUND SWITCH ADJUSTMENT

1. Using the hand held control **(FIG. 41-1)**, raise or lower the platform to a comfortable working position **(FIG. 41-2)**. Refer to **Operation Manual** for operating instructions.

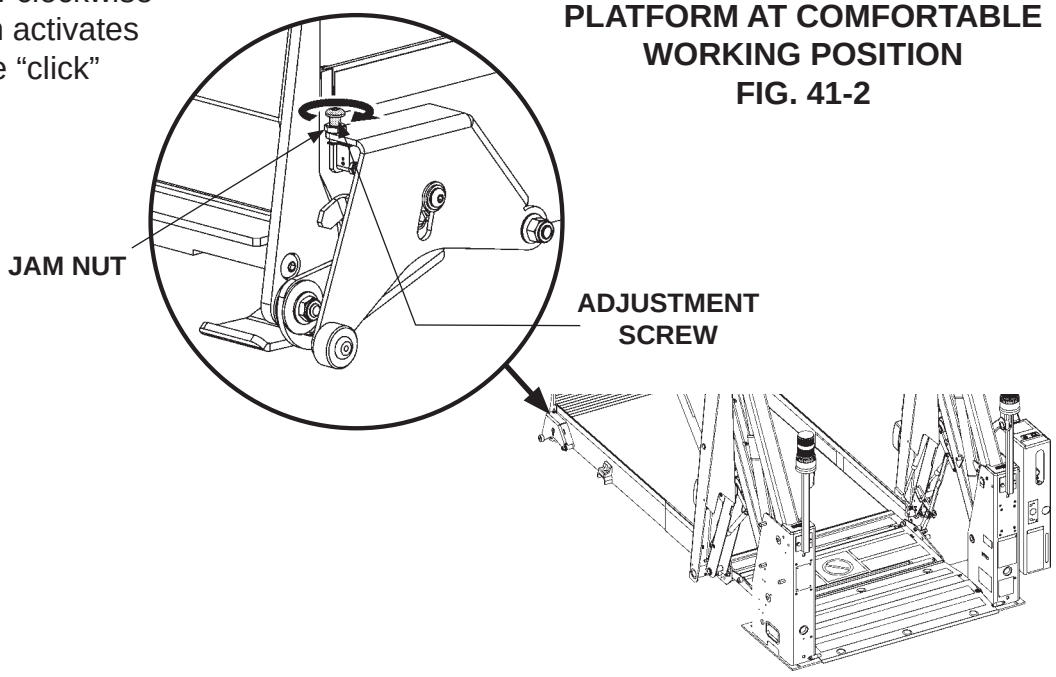


HAND HELD CONTROL
FIG. 41-1



PLATFORM AT COMFORTABLE WORKING POSITION
FIG. 41-2

2. On the right side of the platform, loosen jam nut on 3” ground switch adjustment screw. Then, turn adjustment screw clockwise until the switch activates with an audible “click” **(FIG. 41-3)**.



TURNING RH GROUND SWITCH
FIG. 41-3

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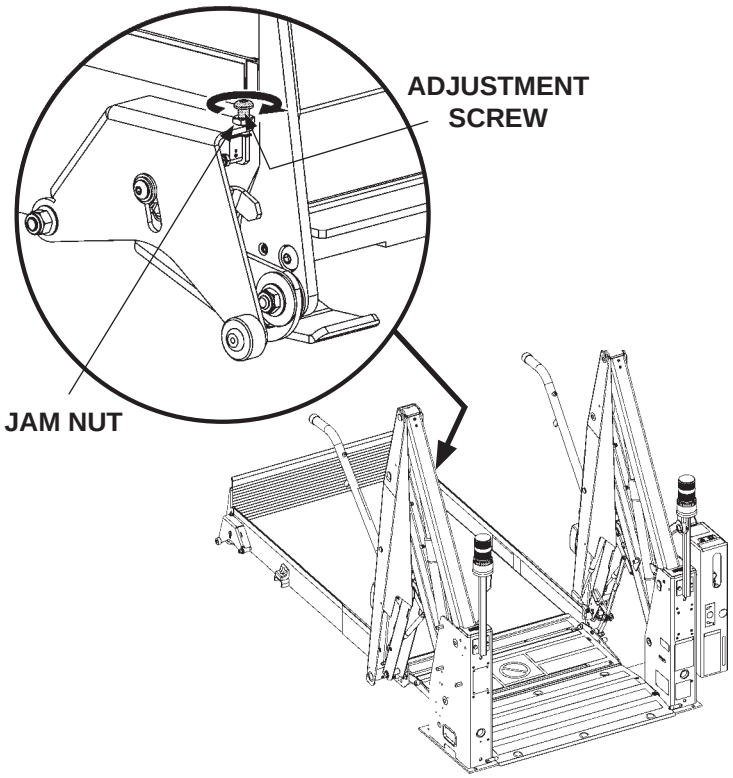
PATENTS PENDING

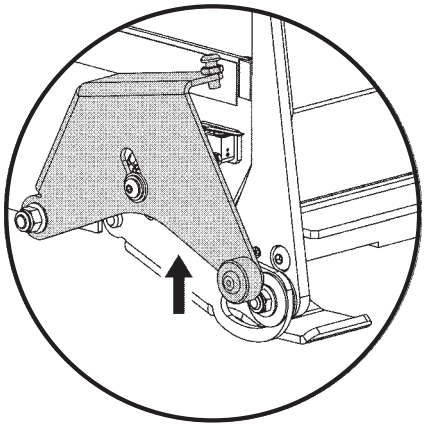
3” GROUND SWITCH ADJUSTMENT - Continued

3. On the left side of the platform, loosen jam nut on 3” ground switch adjustment screw. Next, turn adjustment screw clockwise until the switch activates with an audible “click” **(FIG. 42-1)**. Then turn screw approximately 1/2-turn clockwise.

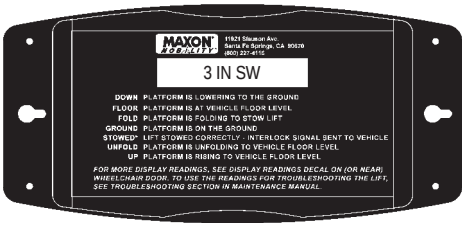


TURNING LH GROUND SWITCH
FIG. 42-1

4. Lift the 3” ground bracket to deactivate switch **(FIG. 42-2)**. The display on Controller should read “**3 IN SW**” **(FIG. 42-3)**.



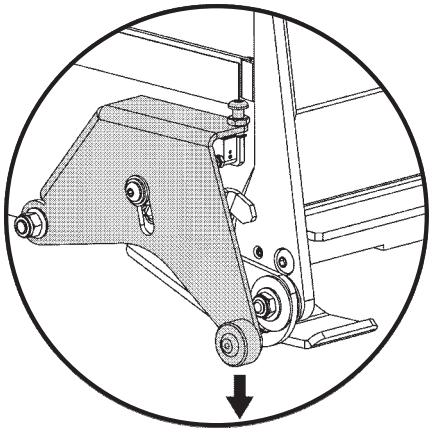
3” GROUND BRACKET, LH SIDE
FIG. 42-2



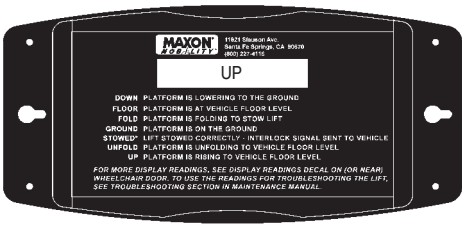
CONTROLLER: 3 IN SW
FIG. 42-3

5. Release the 3” ground bracket **(FIG. 43-1)**. Controller should read **UP** or **DOWN (FIGS. 43-2 and FIG. 43-3)**.

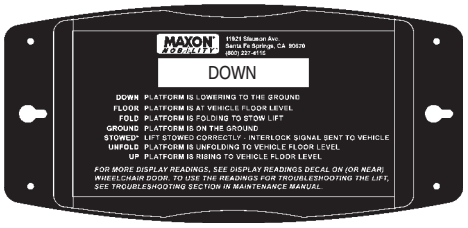
NOTE: If Controller does not read **UP** or **DOWN**, repeat steps 3 through 5.



3” GROUND BRACKET, LH SIDE
FIG. 43-1



CONTROLLER: UP
FIG. 43-2



CONTROLLER: DOWN
FIG. 43-3

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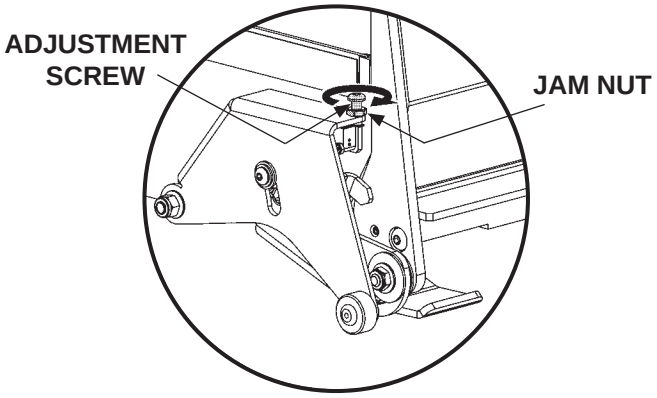
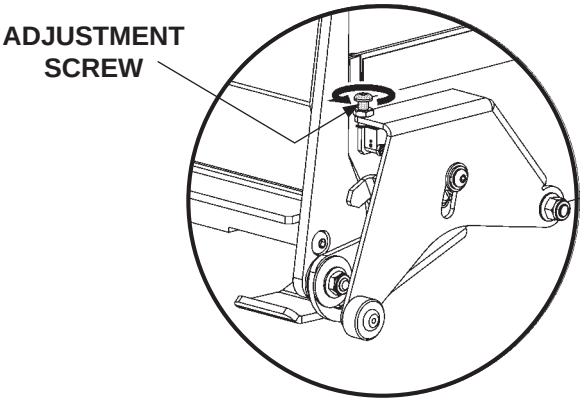
3" GROUND SWITCH ADJUSTMENT - Continued

6. Repeat steps 4 and 5 to ensure adjustment is done correctly. Then turn screw clockwise 1 full turn and tighten jam nut **(FIG. 44-1)**.

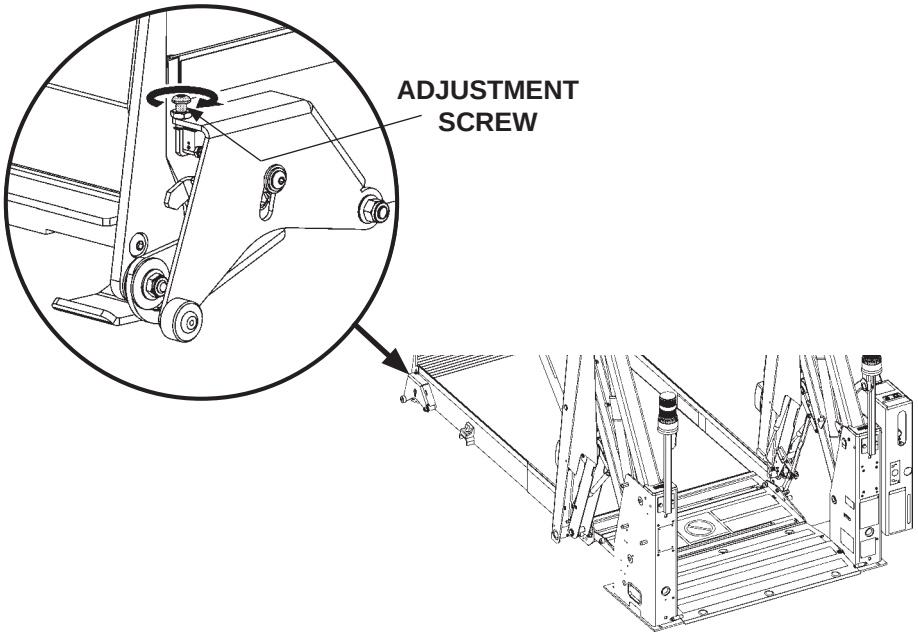


ADJUSTMENT SCREW & JAM NUT, LH SIDE
FIG. 44-1

7. On the right side of the platform, turn ground switch adjustment screw counter-clockwise to deactivate the switch **(FIG. 44-2)**. Next, turn adjustment screw clockwise until switch activates with an audible "click" **(FIG. 44-3)**. Then, turn screw approximately 1/2-turn clockwise.

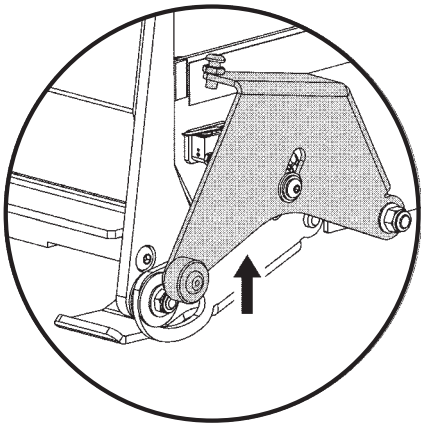


TURNING GROUND SWITCH CCW, RH SIDE
FIG. 44-2



TURNING RH GROUND SWITCH
FIG. 44-3

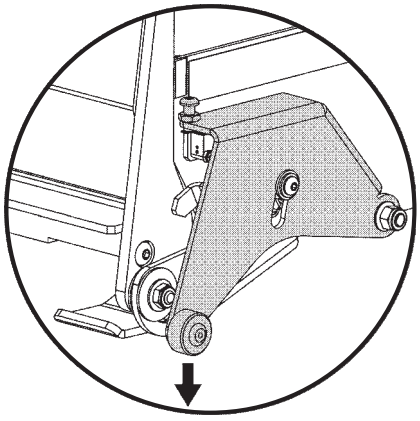
8. Lift the 3” ground bracket to deactivate switch **(FIG. 45-1)**. The display on Controller should read “**3 IN SW**” **(FIG. 45-2)**.



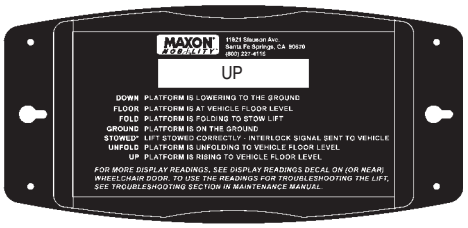
3” GROUND BRACKET, RH SIDE
FIG. 45-1

CONTROLLER: 3 IN SW
FIG. 45-2

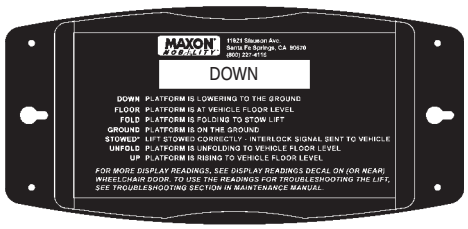
9. Release the 3” ground bracket **(FIG. 45-3)**. Controller should read **UP** or **DOWN (FIGS. 45-4 and FIG. 45-5)**.



3” GROUND BRACKET, RH SIDE
FIG. 45-3



CONTROLLER: UP
FIG. 45-4



CONTROLLER: DOWN
FIG. 45-5

NOTE: If Controller does not read **UP** or **DOWN**, repeat steps 7 through 9.

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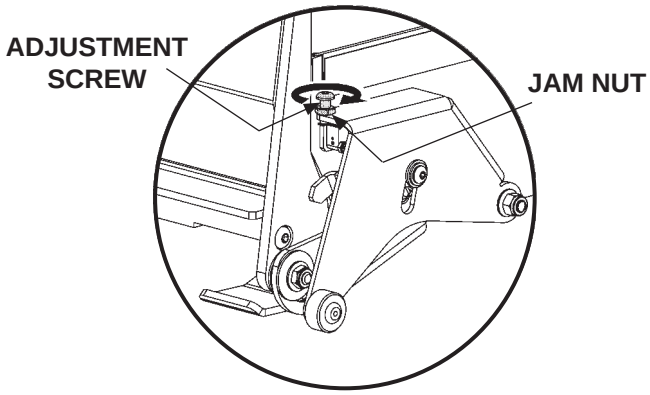
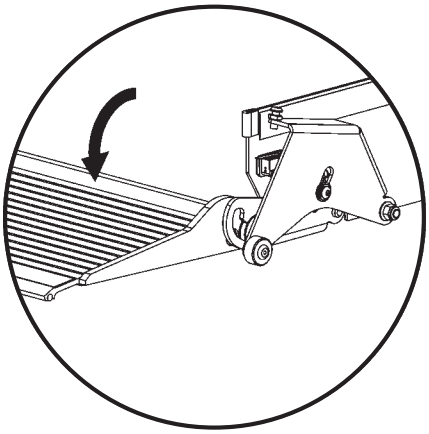
10. Repeat steps 7 and 8 to ensure adjusment is done correctly. Then turn screw clockwise 1 turn and tighten jam nut **(FIG. 46-1)**.



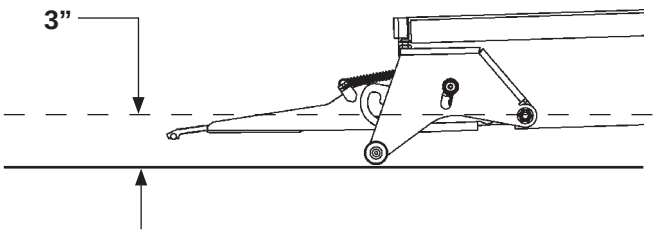
ADJUSTMENT SCREW & JAM NUT, RH SIDE
FIG. 46-1

11. Lower the platform to ground level until outboard rollstop fully opens **(FIG. 46-2)**. Then hold out board ramp open **(FIG. 46-2)**.



PLATFORM AT GROUND LEVEL WITH OUTBOARD ROLLSTOP OPEN (RH SIDE SHOWN)
FIG. 46-2

12. Raise the platform. Platform should stop moving up a short distance above the ground. When platform stops, measure the distance between load carrying surface of platform and the ground **(FIG. 46-1)**. Distance should be 3" or less.



PLATFORM 3" ABOVE GROUND
FIG. 46-1

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PARTS BREAKDOWN
MAIN ASSEMBLY-1

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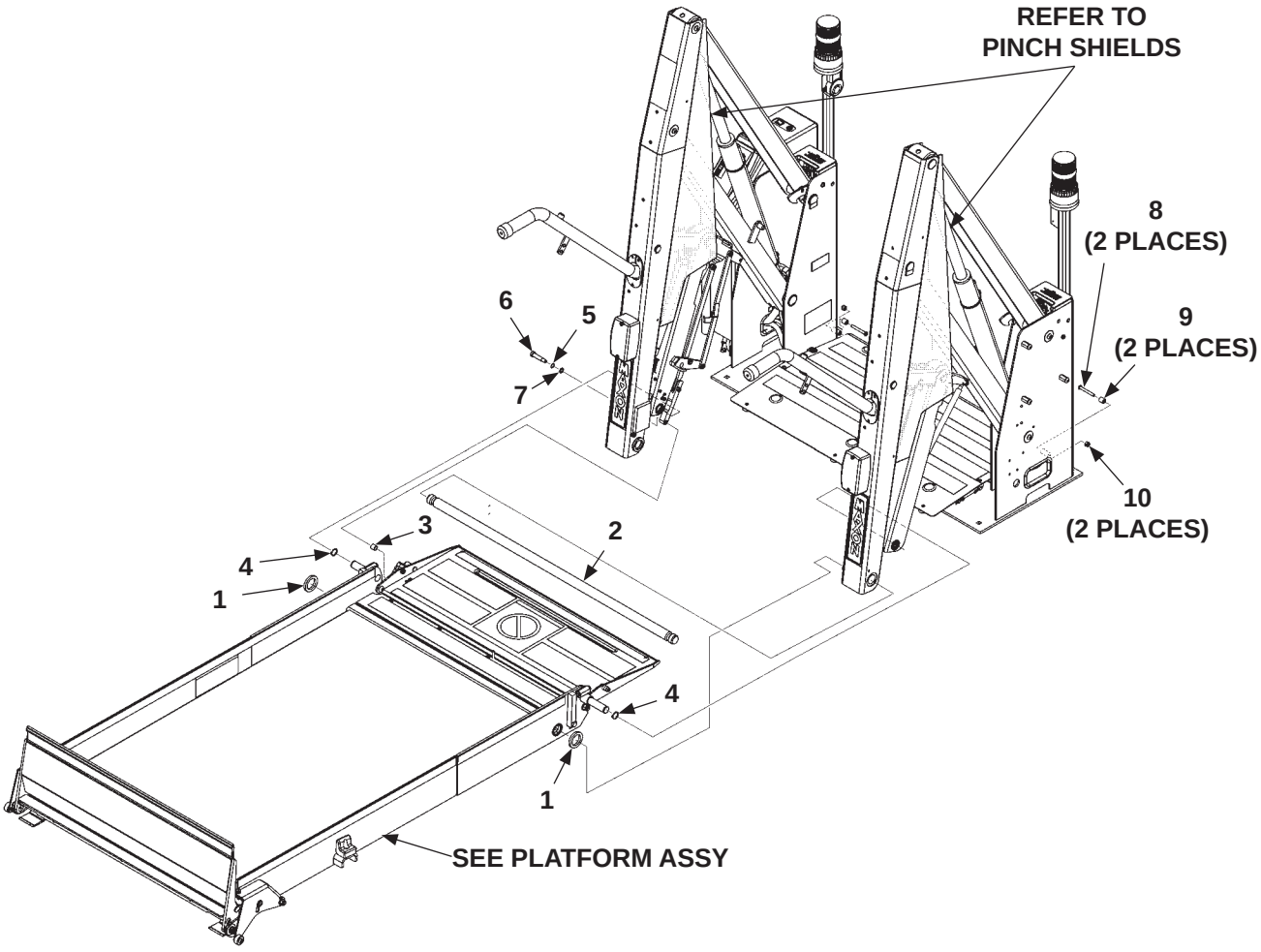
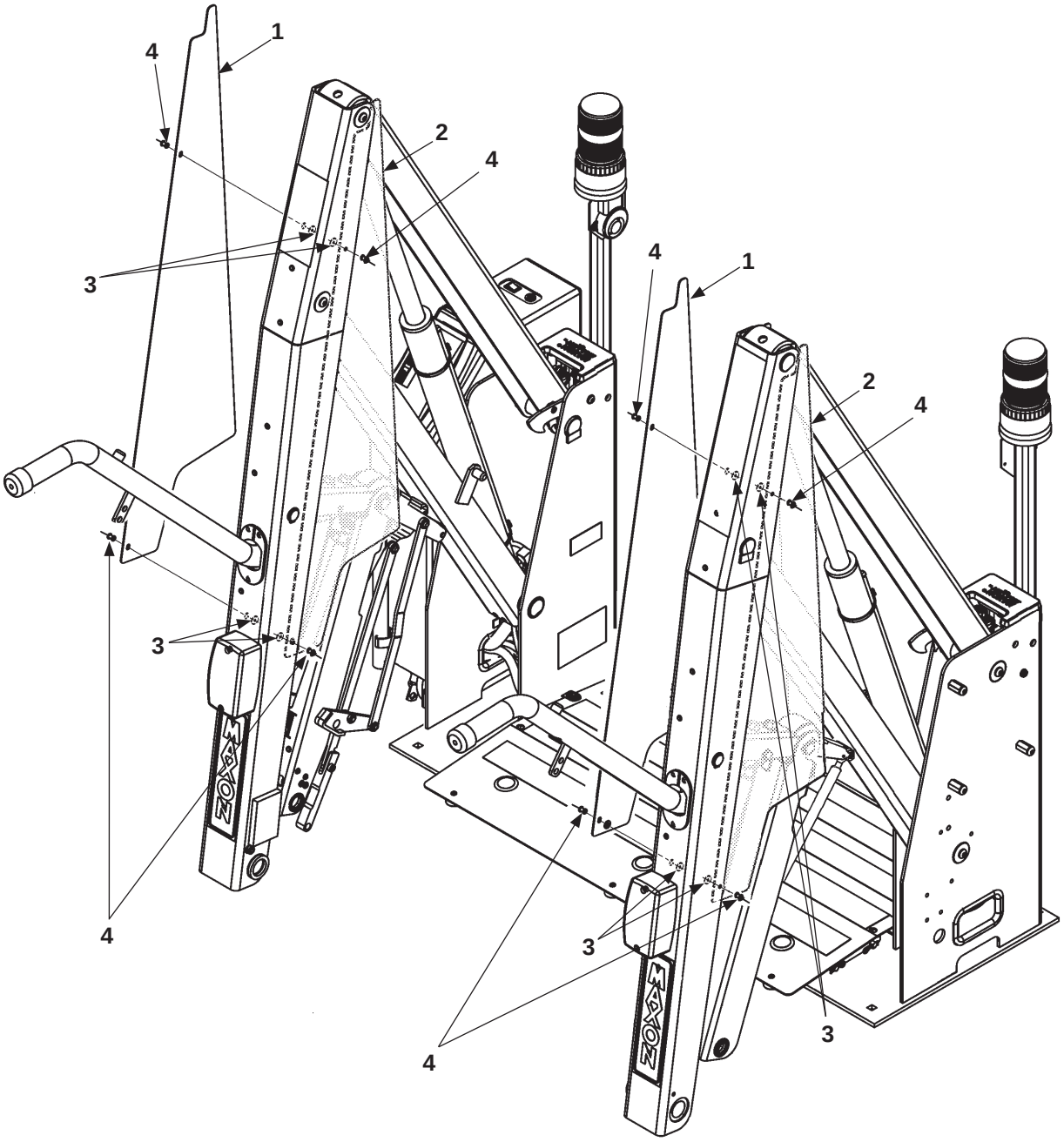


ITEM	QTY.	PART NO.	DESCRIPTION
1	2	261321	SPACER
2	1	265038-03	SHAFT, 36” LG. (FOR 30” WIDE PLATFORM)
		265038-04	SHAFT, 39” LG. (FOR 33” WIDE PLATFORM)
		265038-05	SHAFT, 40” LG. (FOR 34” WIDE PLATFORM)
3	1	266545-08	BEARING, 3/8” I.D. X 1/2” LG.
4	2	905005	RETAINING RING, 3/4”
5	1	267592-02	SPRING (WASHER), WAVE, 3/8” I.D.
6	1	900723-07	SHOULDER SCREW, 3/8” X 1-1/4” LG.
7	1	903402-08	FLAT WASHER, 3/8”
8	2	905342-07	SPACER, NYLON, 1/4” I.D.X 1/2” O.D. X 1/2”
9	2	901000	NYLON NUT, 1/4”-20
10	2	900005-8	BUTTON SCREW, 1/4”-20 X 2

PATENTS PENDING

PINCH SHIELDS



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	267968-01	PINCH SHIELD, PLASTIC (LH SIDE OF VERT.-ARM)
2	2	267968-02	PINCH SHIELD, PLASTIC (RH SIDE OF VERT.-ARM)
3	8	902000-5	FLAT WASHER, #10
4	8	904002-2	RIVET, 3/16” DIA. X 9/16” LG.

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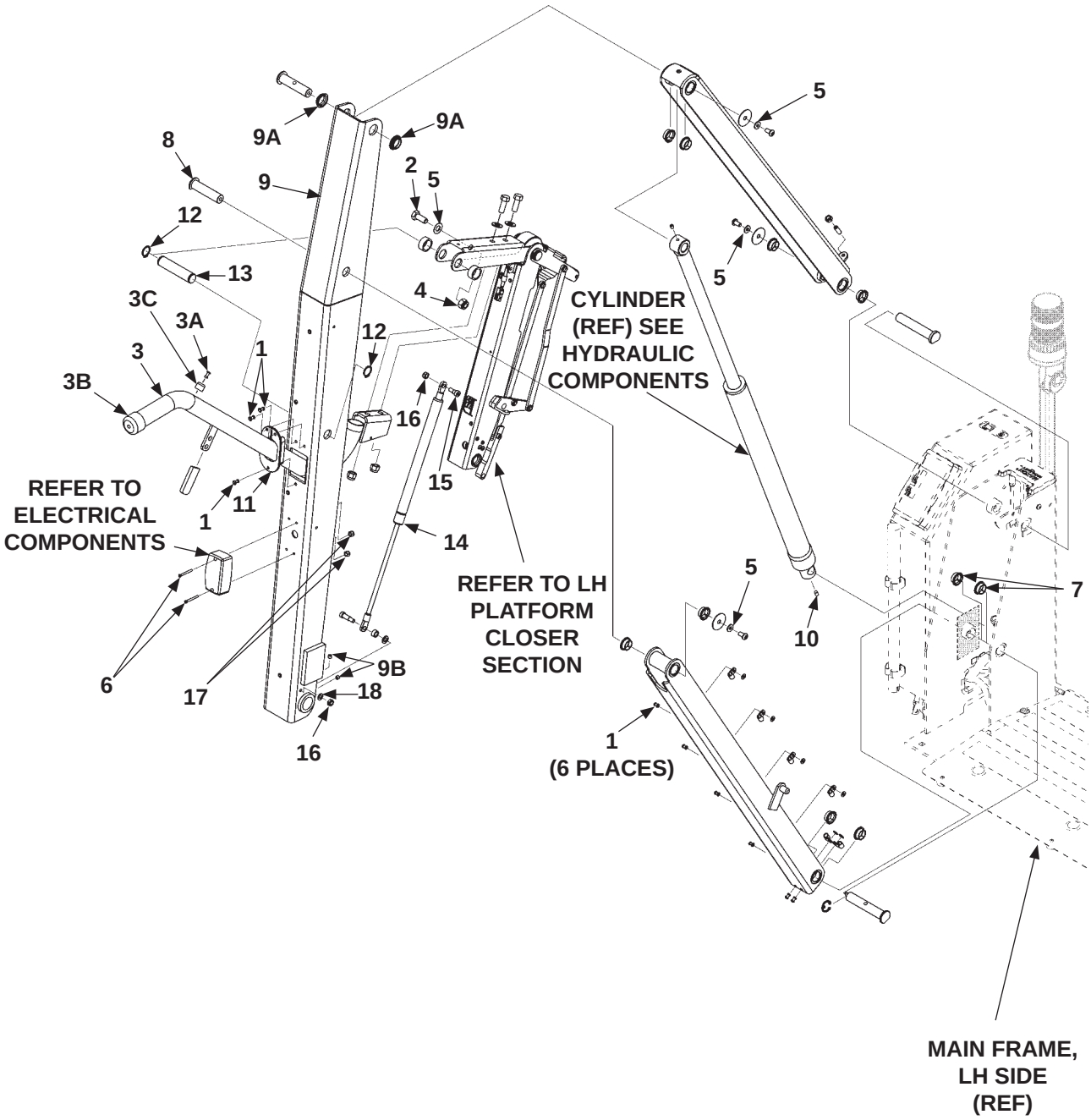
MAIN ASSEMBLY-2



ITEM	QTY.	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	4	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”

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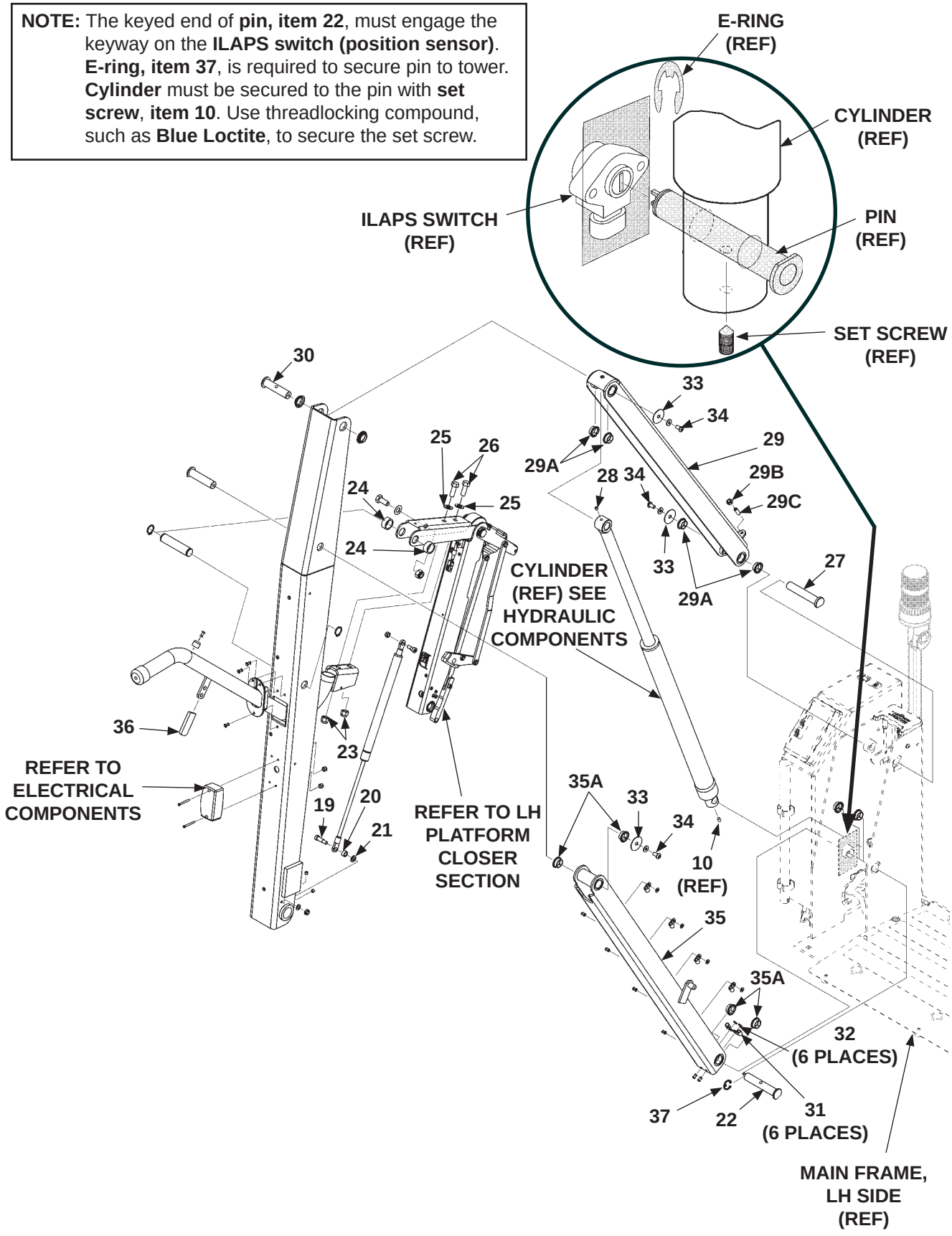
MAIN ASSEMBLY-2 - Continued

NOTE: The keyed end of **pin, item 22**, must engage the keyway on the **ILAPS switch (position sensor)**. **E-ring, item 37**, is required to secure pin to tower. **Cylinder** must be secured to the pin with **set screw**, **item 10**. Use threadlocking compound, such as **Blue Loctite**, to secure the set screw.



ITEM	QTY.	PART NO.	DESCRIPTION
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	267758-01	PIN (KEYED FOR ILAPS SWITCH)
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	266642-02	PIN, UPPER ARM-TOWER
28	1	903002-7	SET SCREW, 1/4”-20 X 3/8” 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	3	902004-02	FENDER FLAT WASHER, 11/32”
34	3	900001-11	BUTTON SCREW, 5/16”-18 X 5/8” LG.
35	1	266611-01	LOWER ARM ASSEMBLY LH (BEARINGS INCLUDED)
35A	4	265072	SELF LUBE BEARING
36	1	267623-01	VINYL CAP
37	1	905138-09	E-RING, EXT. (5/8” SHAFT DIA.) (FOR ILAPS SWITCH PIN)

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LH PLATFORM CLOSER

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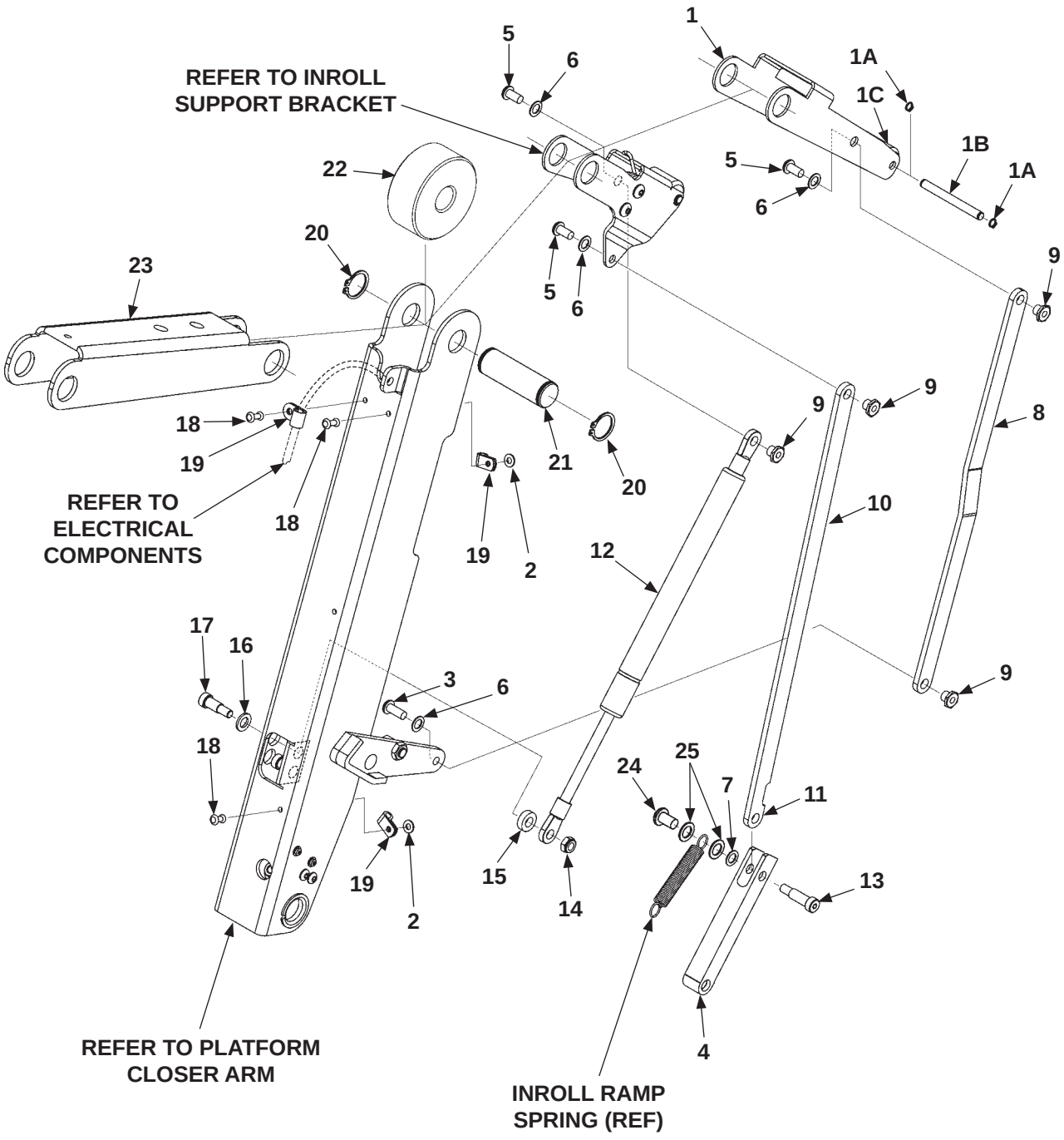

ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	267500-02	INROLL RAMP ARM MAIN ASSY (LH PLATFORM CLOSER)
1	1	267552-01	INROLL LOCK BRACKET ASSEMBLY
1A	2	905004-01	RETAINING RING, 1/4”
1B	1	267577-02	PIN, 1/4” X 2-13/32” LG.
1C	1	267450-02	ROLLER, 2-1/8” LG.
2	2	902000-4	FLAT WASHER, #8
3	1	900719-04	BUTTON SCREW, 1/4”-20 X 5/8” LG.
4	1	267546-01	LOWER LINK
5	3	900719-03	BUTTON SCREW, 1/4”-20 X 1/2” LG.
6	4	903402-07	FLAT WASHER
7	1	903412-01	FLAT WASHER, 1/4” STAINLESS STEEL
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 (45 LBS. PRESSURE)
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” I.D. X 7/8” O.D.

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PLATFORM CLOSER ARM

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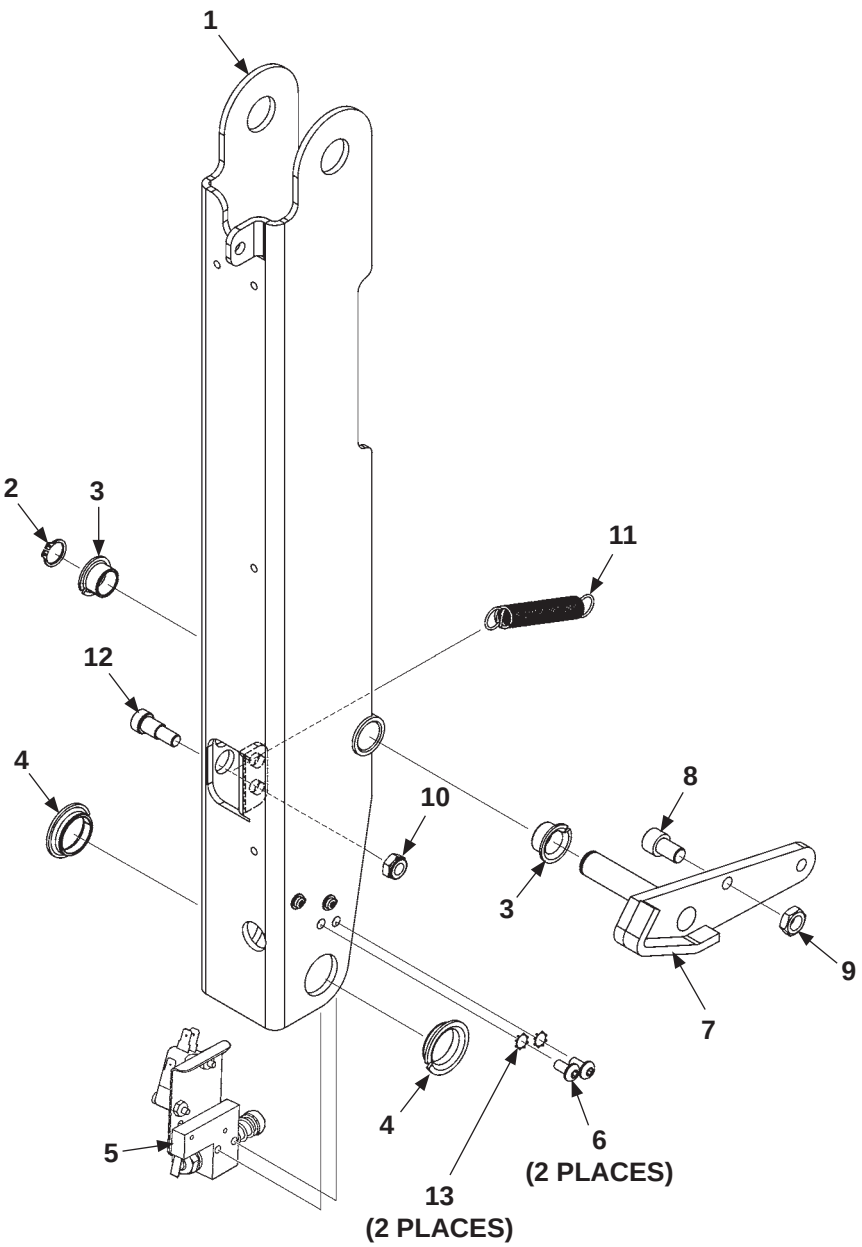

ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267622-01	PLATFORM CLOSER ARM ASSEMBLY
2	1	905004-02	RETAINING RING, 1/2”
3	2	908062-06	SELF LUBE BEARING
4	2	265017	SELF LUBE BEARING
5	1	267753-01	SWITCH/SPRING ASSEMBLY
6	2	900722-02	BUTTON SCREW, 10-24 X 3/8” LG.
7	1	267565-02	INROLL LOCK WELDMENT
8	1	900726-02	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.
13	2	903401-01	EXTERNAL TOOTH WASHER, 3/16”

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INROLL SUPPORT BRACKET

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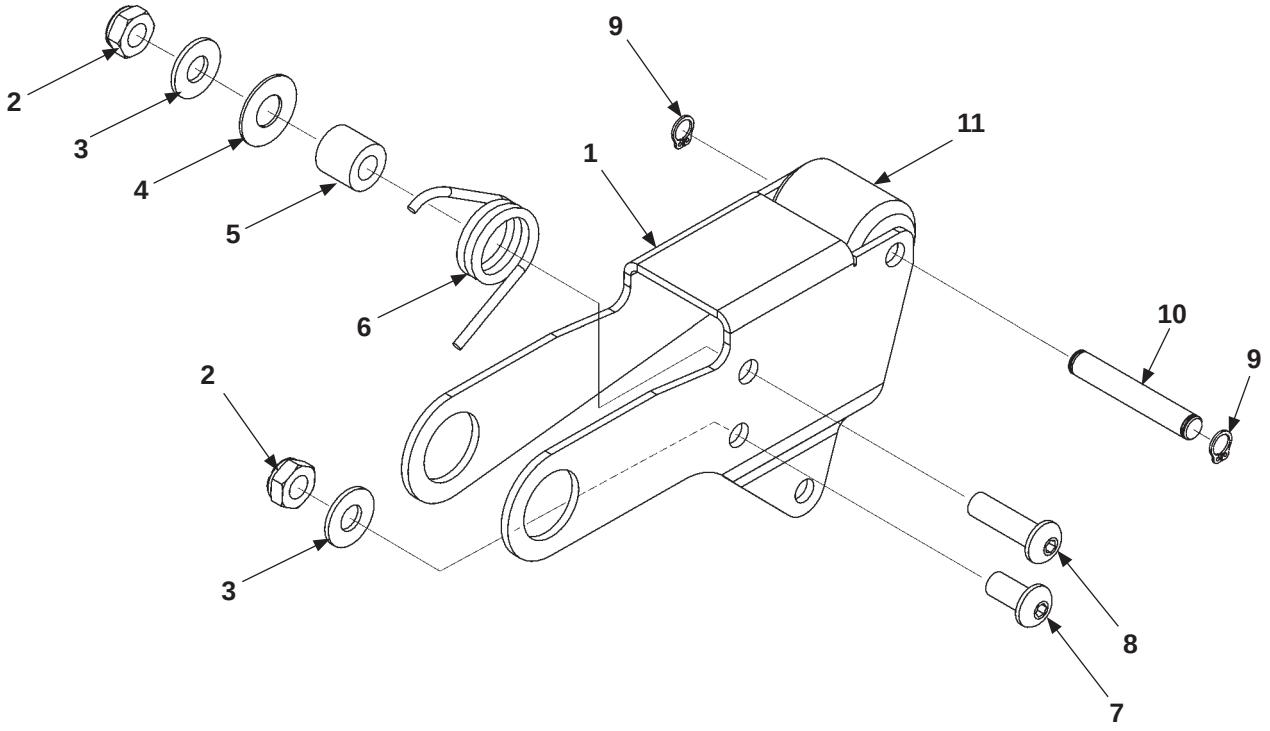

ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267549-01	INROLL SUPPORT BRACKET
2	2	901016-2	HEX NUT, 1/4”-20
3	2	903409-01	WASHER
4	1	903402-02	FLAT WASHER
5	1	267456-01	LOCK SPRING PIN
6	1	267560-01	LOCK SPRING
7	1	900719-03	BUTTON SCREW, 1/4”-20 X 1/2” LG.
8	1	900719-06	BUTTON SCREW, 1/4”-20 X 7/8” LG.
9	2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

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MAIN ASSEMBLY-3

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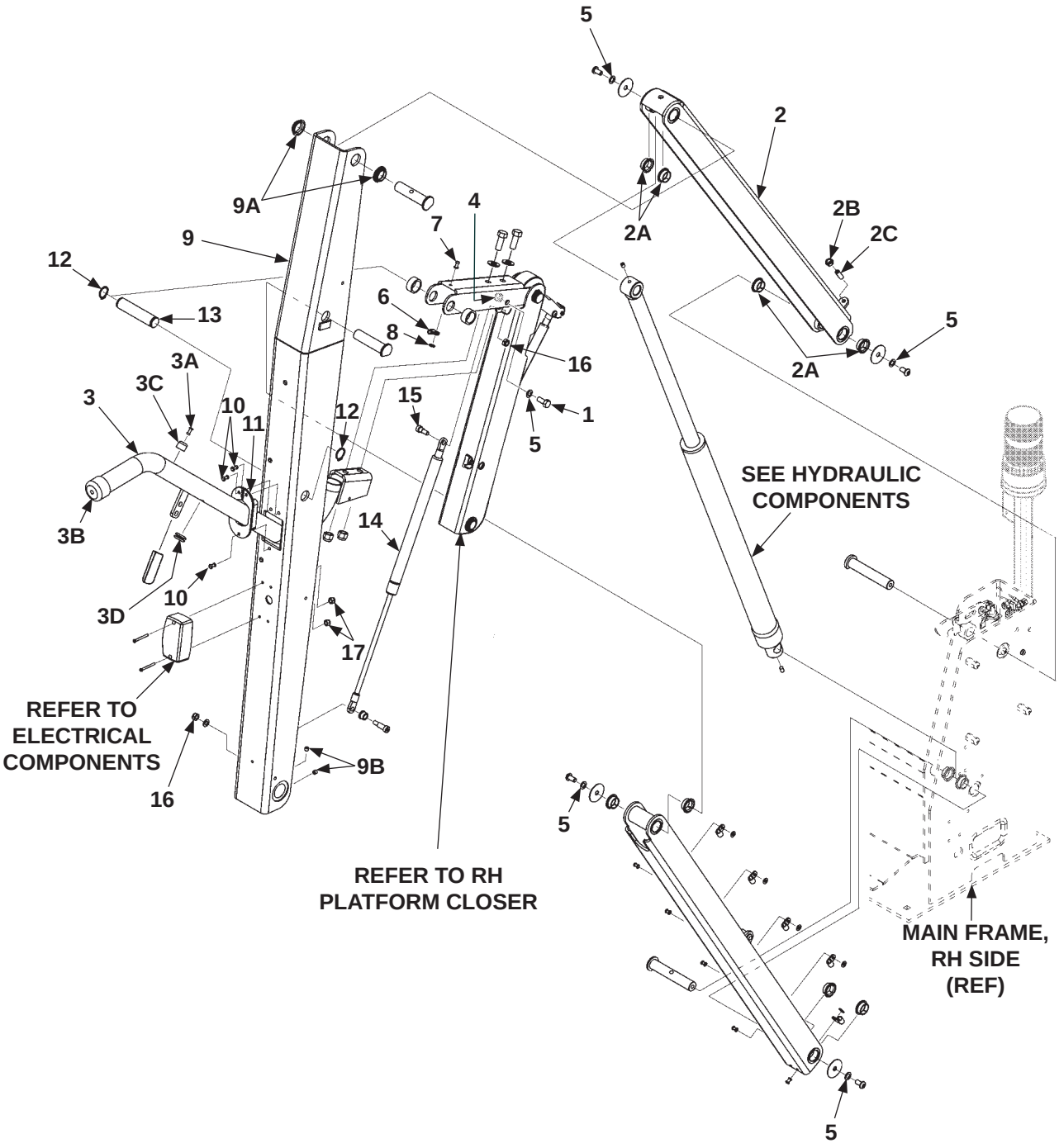

ITEM	QTY.	PART NO.	DESCRIPTION
1	2	900009-3	CAP SCREW, 5/16”-18 X 3/4” LG, GRADE 8
2	1	266609-01	UPPER ARM ASSEMBLY (BEARINGS INCLUDED)
2A	4	265072	SELF LUBE BEARING
2B	1	901005	HEX NUT, 5/16”-18, GRADE 8
2C	1	903006-1	SET SCREW, 5/16”-18 X 1” LG.
3	1	266756-01	HANDRAIL ASSEMBLY, RH
3A	1	904004-3	RIVET,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

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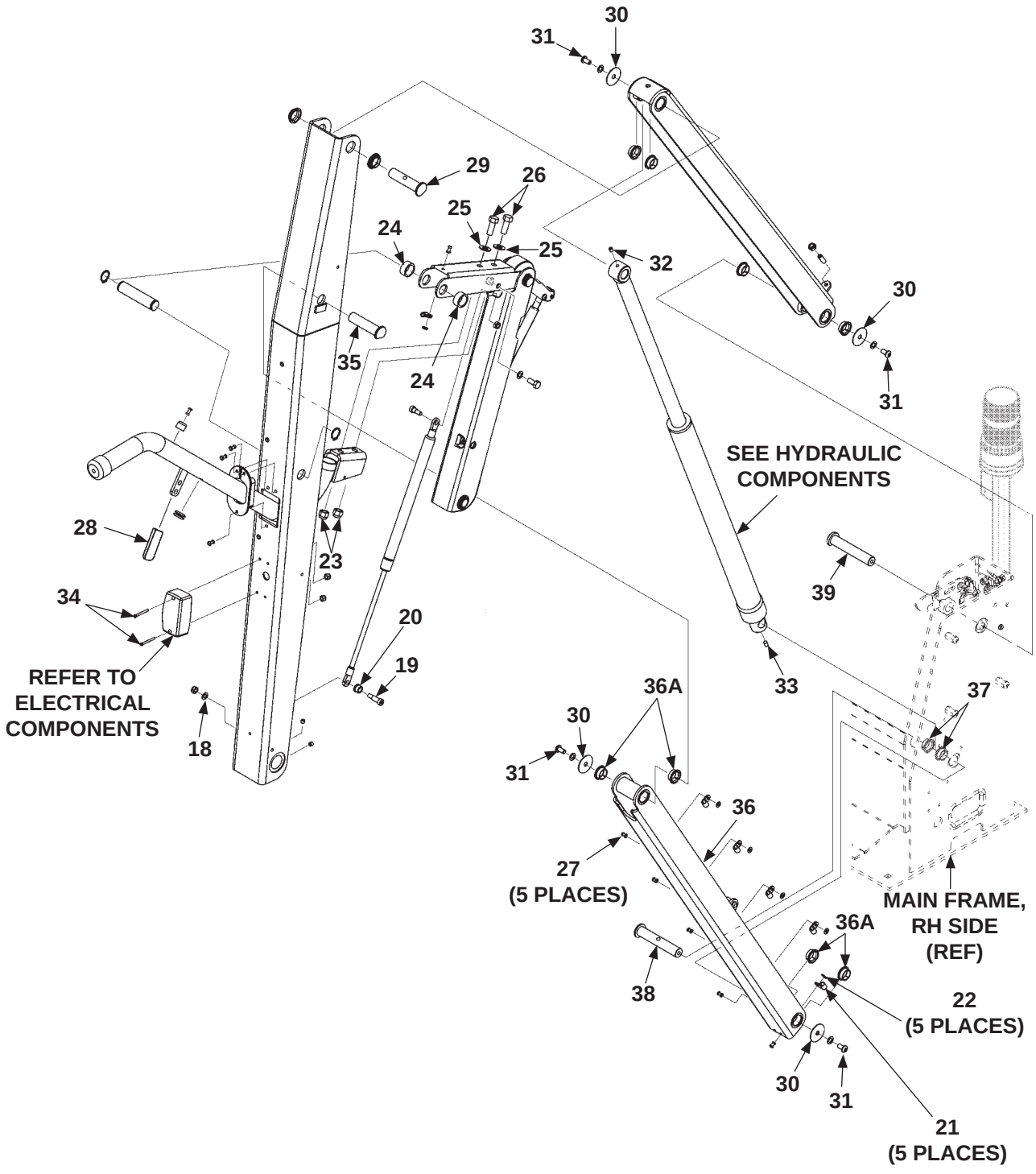
MAIN ASSEMBLY-3 - Continued



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	5	905056	CLAMP
22	5	902000-5	FLAT WASHER, #10
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	5	904002-2	RIVET, 3/16” DIA. X 0.55” LG.
28	1	267623-01	VINYL CAP
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	REF	PAN HEAD SCREW, #8-32 X 2” LG. (PART OF LAMP ASSY)
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

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RH PLATFORM CLOSER

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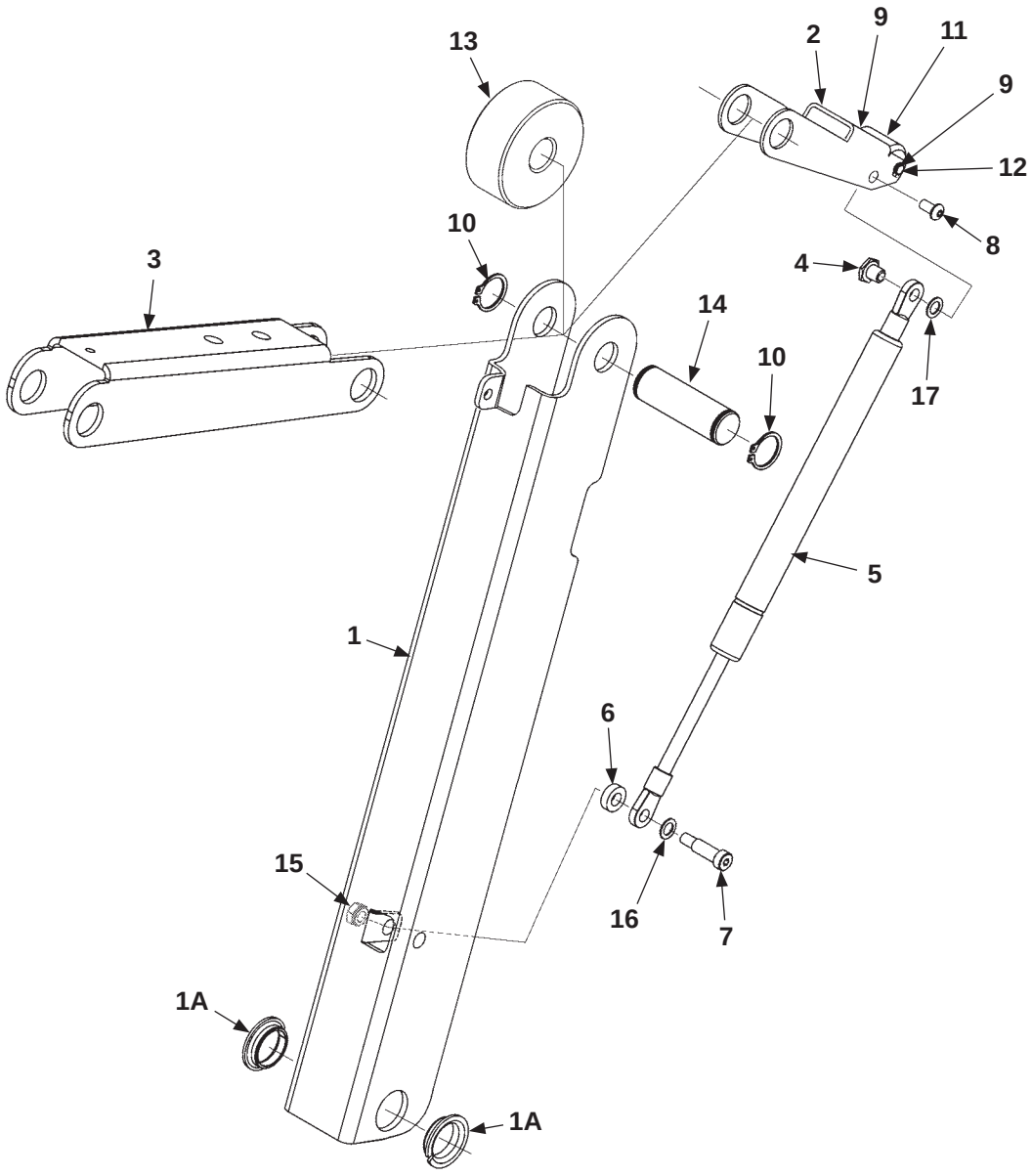

ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	268815-01	RH PLATFORM CLOSER
1	1	268812-01	ARM (RH PLATFORM CLOSER)
1A	2	265017	BEARING, SELF-LUBE, 3/4” DIA. X 1/4” LG.
2	1	268814-01	ARM (DUMMY ROLLER)
3	1	266616-01	BRACKET, KNUCKLE SUPPORT
4	1	266719-03	SWIVEL NUT, 1/2” HEX, 1/4”-20
5	1	267423-01	GAS SPRING
6	1	267482-01	SPACER, 5/16” DIA. X 3/16” LG.
7	1	900062-3	SHOULDER SCREW, 1/4”-20, 5/16” X 1/2” LG. SHOULDER
8	1	900719-03	BUTTON SCREW, 1/4”-20 X 1/2” LG.
9	2	905004-01	RETAINING RING, 1/4”
10	2	905005	RETAINING RING, 3/4”
11	1	266626-02	ROLLER, 1.17” WIDE
12	1	267577-01	ROLLER PIN, 1/4” X 1-1/2” LG.
13	1	267450-01	INROLL RAMP ROLLER
14	1	265036	PIN, SNAP RING
15	1	901016-2	LOCK NUT, THIN HD, 1/4”-20
16	1	902008	FLAT WASHER, 5/16”
17	1	903402-07	FLAT WASHER, NYLON, 5/16” X 1/2” O.D.

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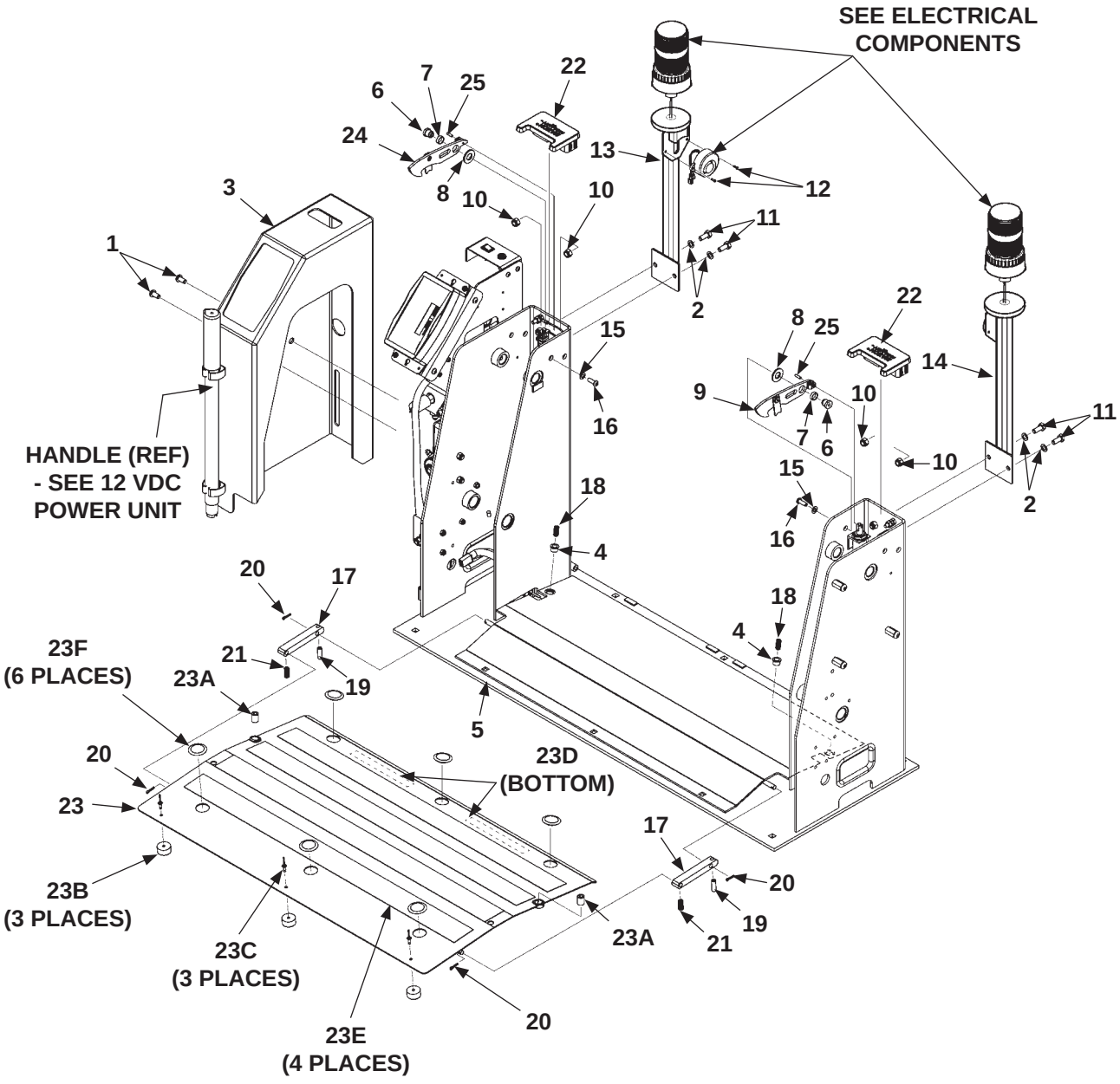
MAIN ASSEMBLY-4



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	900733-02	FLANGE SCREW, 5/16”-18 X 1/2” LG.
2	4	902000-7	FLAT WASHER, 5/16”
3	1	267972-01	COVER ASSEMBLY, LH
		267973-01	COVER ASSEMBLY, RH
4	2	268832-02	POLYESTER (1” X 2” PIECE)
5	1	269180-01	MAIN FRAME (FOR 30” WIDE PLATFORM)
		269180-02	MAIN FRAME (FOR 33” WIDE PLATFORM)
		269180-03	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	900000-3	HEX BOLT, 5/16”-18 X 3/4” LG, GRADE 8
12	2	904000-1	RIVET, BLIND, 1/8” DIA. X 1/2” LG.
13	1	267470-01	LIGHT MOUNT BRACKET, LH
14	1	267470-02	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	908073-01	SPRING
19	2	903006-1	SET SCREW, 5/16”-18 X 1” LG.
20	4	904711-08	COTTER PIN
21	2	908073-01	SPRING
22	2	267210-01	TOWER COVER
23	1	269181-01	THRESHOLD PLATE, 30”
		269181-02	THRESHOLD PLATE, 33”
		269181-03	THRESHOLD PLATE, 34”
23A	2	269186-01	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	096046-10	RUBBER SEAL, ADHES. BACK, 8” LG.
23E	4	096025-10	TAPE, ANTISLIP 2”W, BLK 25 LG.
23F	6	908108-10	PLUG, BUTTON HEAD, 1” HOLE
24	1	266569-01	LATCH ASSEMBLY, LH
25	2	905128-03	ROLL PIN, 1/8” DIA. X 1/2” LG.

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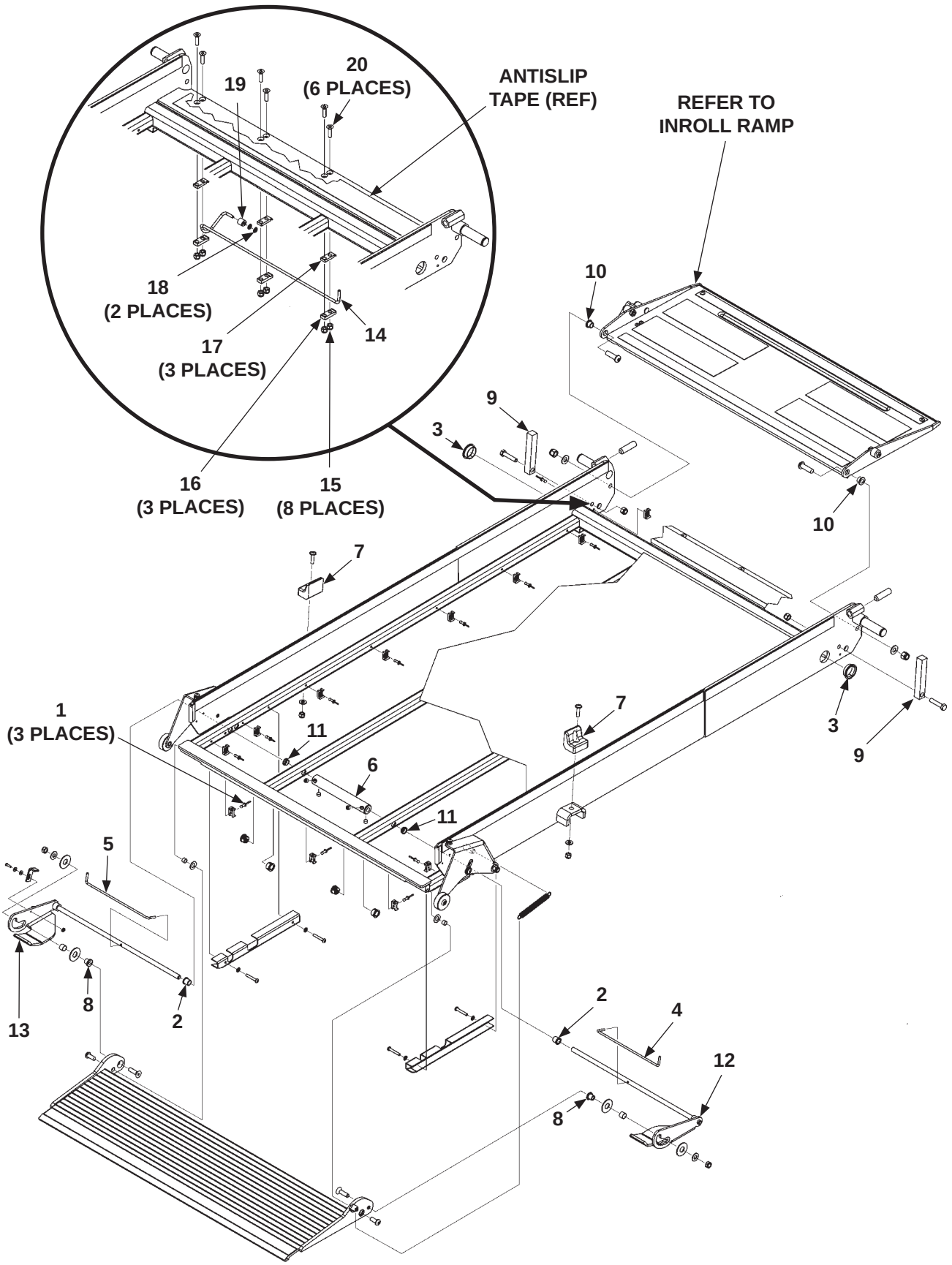
PLATFORM ASSEMBLY



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PATENTS PENDING

ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	269200-01	PLATFORM ASSY, 30” W X 53” LG.
		269200-02	PLATFORM ASSY, 33” W X 53” LG.
		269200-03	PLATFORM ASSY, 34” W X 53” LG.
1	3	903721-06	RIVET, 0.16X.5 - .63
2	2	265057	BUSHING, STOP ACTUATOR
3	2	265062	BEARING SELF LUBE, 1” DIA. X 3/8” LG.
4	1	269192-01	TORSION SPRING, RH
5	1	269192-02	TORSION SPRING, LH
6	1	266311-01	COLLAR STOP ACTUATOR
7	2	268225-01	PLATFORM STOP
8	2	269027-01	SWIVEL HEX NUT, 1/2” (THIN HEAD)
9	2	266725-01	PLATFORM ADJUSTER STRIKER
10	2	266893-03	FLANGE BEARING, 3/8” I.D. X 3/4” LG.
11	2	267172-06	SNAP-IN BEARING, 7/16”
12	1	269025-02	SKI, WELDMENT, RH
13	1	269025-01	SKI, WELDMENT, LH
14	1	267574-01	TORSION SPRING, INROLL RAMP
15	8	901000	NYLON NUT, 1/4”-20
16	3	267555-01	LOWER TORSION SPRING BLOCK
17	3	267554-01	UPPER TORSION SPRING BLOCK
18	2	267587-01	PUSH RETAINER, 3/16” DIA. SHAFT
19	1	267576-01	TORSION SPRING ROLLER
20	6	900044-6	SOCKET SCREW, 1/4”-20 X 1” LG.

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PLATFORM ASSEMBLY - Continued

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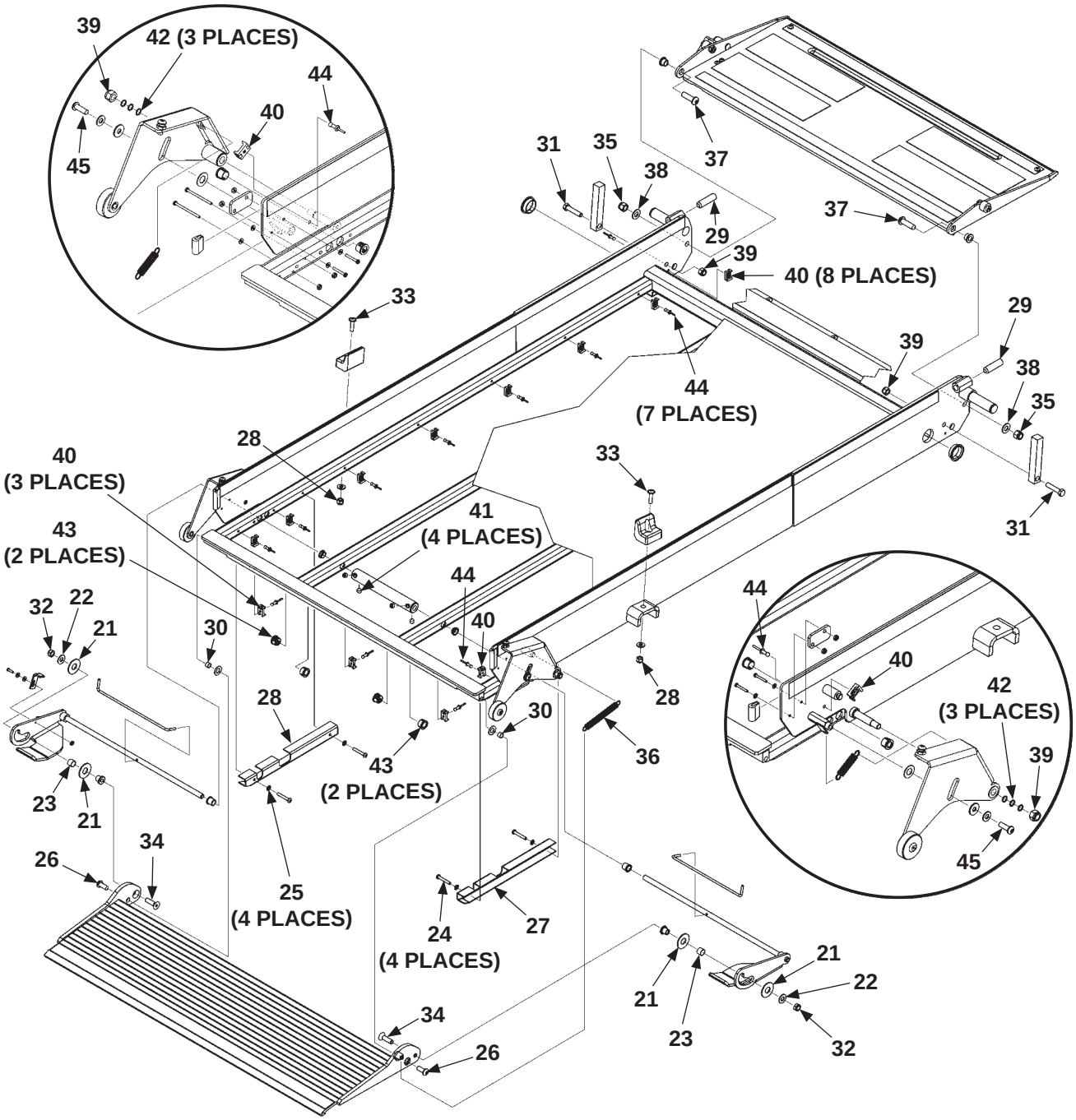

ITEM	QTY.	PART NO.	DESCRIPTION
21	4	903402-12	FLAT WASHER, NYLON, .51” I.D. X 1-1/4” O.D.
22	2	903409-02	FENDER WASHER, 0.344 X 3/4” O.D., SS
23	2	269029-01	SPACER, SWIVEL NUT
24	4	900722-08	BUTTON SCREW, 10-24 X 1-1/4” LG.
25	4	903401-01	WASHER, EXTERNAL TOOTH, 3/16”
26	2	900013-2	BUTTON HEAD SCREW, 5/16”-18 X 3/4” LG.
27	1	269170-02	PLATFORM CABLE COVER, RH
28	1	269170-01	PLATFORM CABLE COVER, LH
29	2	903010-01	SET SCREW, SELF-LOCKING, CUP PT, 1/2”-20
30	2	267487-01	BEARING, SLEEVE, 3/8” O.D. X 1/4” LG. (SS)
31	2	900009-6	CAP SCREW, 5/16”-18 X 1-1/2” LG, GR8
32	2	901016-3	LOCK NUT, THIN HEAD, 1/4”-20
33	2	900725-04	HEX SKT HD SCREW, FLANGED, 1/4”-20 X 1” LG.
34	2	900021-11	FLAT HEAD SOCKET SCREW, 5/16”-18 X 1-1/8”
35	2	901002	NYLON NUT, 3/8”-16
36	1	908176-03	SPRING, EXT. .38 O.D. X .048 X 3 LG, SS
37	2	900064-06	BUTTON SCREW, 3/8”-16 X 1-1/4” LG.
38	2	902013-11	FLAT WASHER, 3/8”
39	4	901001	LOCK NUT, 5/16”-18
40	14	905070-01	CABLE TIE HOLDER, 2-WAY, HEAVY DUTY
41	4	901200-01	SET SCREW, CONE PT, 5/16”-24 X 5/16” LG.
42	6	903406-04	SHIM, SHOULDER SCREW, .31, .03 THK.
43	4	908082-02	BUSHING, NYLON .63
44	10	903721-03	RIVET, 5/32” DIA. X .550” LG.
45	2	900719-05	BUTTON SCREW, 1/4”-20 X 3/4”, SS

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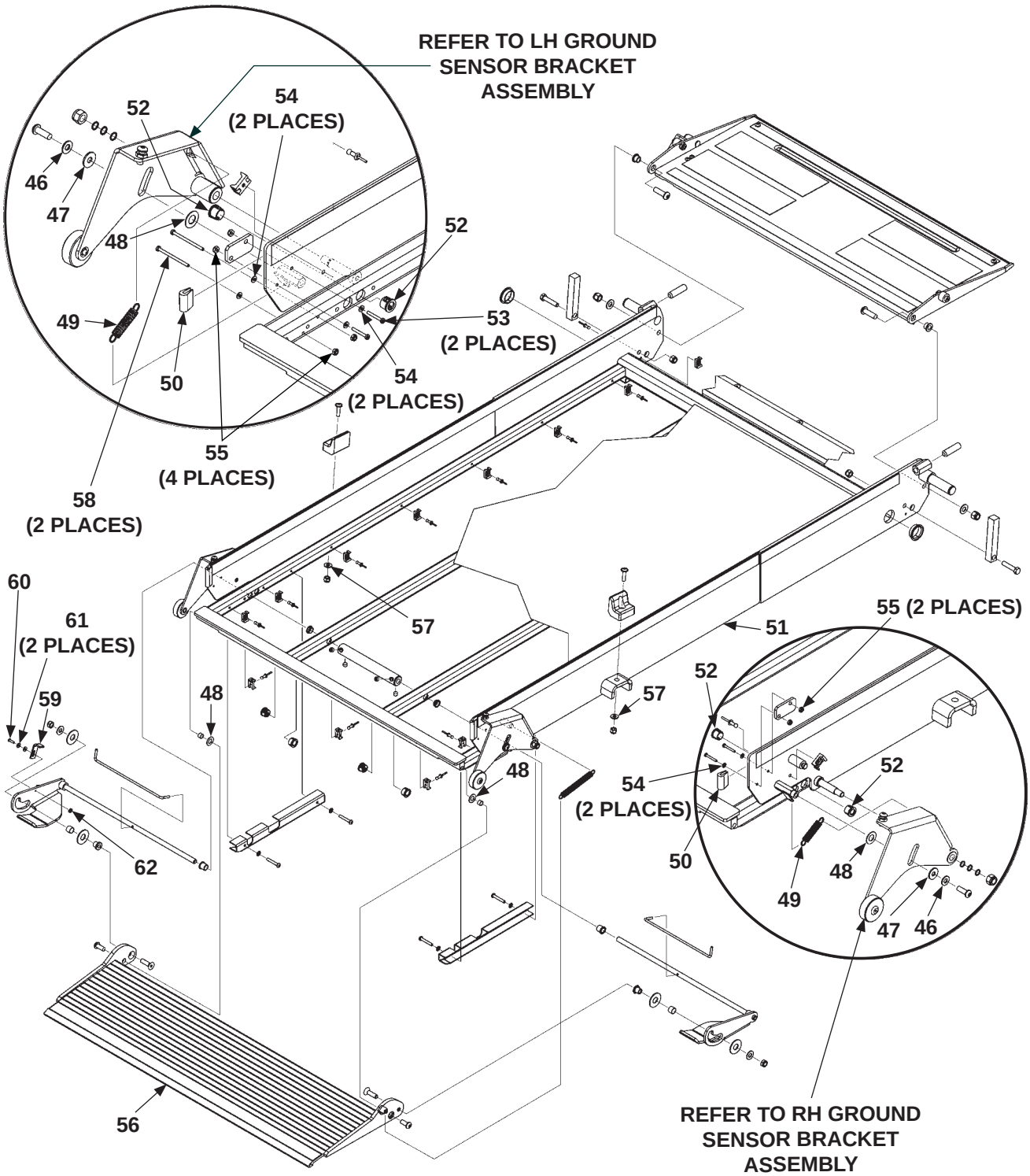
PLATFORM ASSEMBLY - Continued



ITEM	QTY.	PART NO.	DESCRIPTION
46	2	903412-01	FLAT WASHER, 1/4", SS
47	2	903402-06	FLAT WASHER, NYLON, .26 I.D. X .69 O.D.
48	4	903402-13	FLAT WASHER, NYLON, .39"I.D. X .75" O.D.
49	2	908176-02	SPRING, EXT. .38 O.D. X .048, SS
50	2	096028-10	TRIM MOLDING
51	1	269201-01	PLATFORM, 30 X 53" WIDE
		269201-02	PLATFORM, 33 X 53" WIDE
		269201-03	PLATFORM, 34 X 53" WIDE
52	4	908082-01	BUSHING, NYLON .5
53	4	900709-13	PAN HEAD SCREW, SS, 4-40 X .88
54	6	903411-01	FLAT WASHER, #4, SS
55	6	903108-01	NYLON NUT, 4-40, SS
56	1	269030-01	OUTBOARD ROLLSTOP, 30" WIDE
		269030-02	OUTBOARD ROLLSTOP, 33" WIDE
		269030-03	OUTBOARD ROLLSTOP, 34" WIDE
57	2	902013-09	FLAT WASHER, 1/4"
58	2	900709-18	PAN HEAD SCREW, 4-40 X 1-3/4" LG.
59	1	269048-01	ACTUATOR, OUTROLL RAMP SWITCH
60	1	900713-06	BUTTON SCREW, 6-32 X 1/2" LG.
61	2	903446-01	FLAT WASHER, #6
62	1	903119-01	HEX NUT, 6-32

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INROLL RAMP (INBOARD ROLLSTOP)

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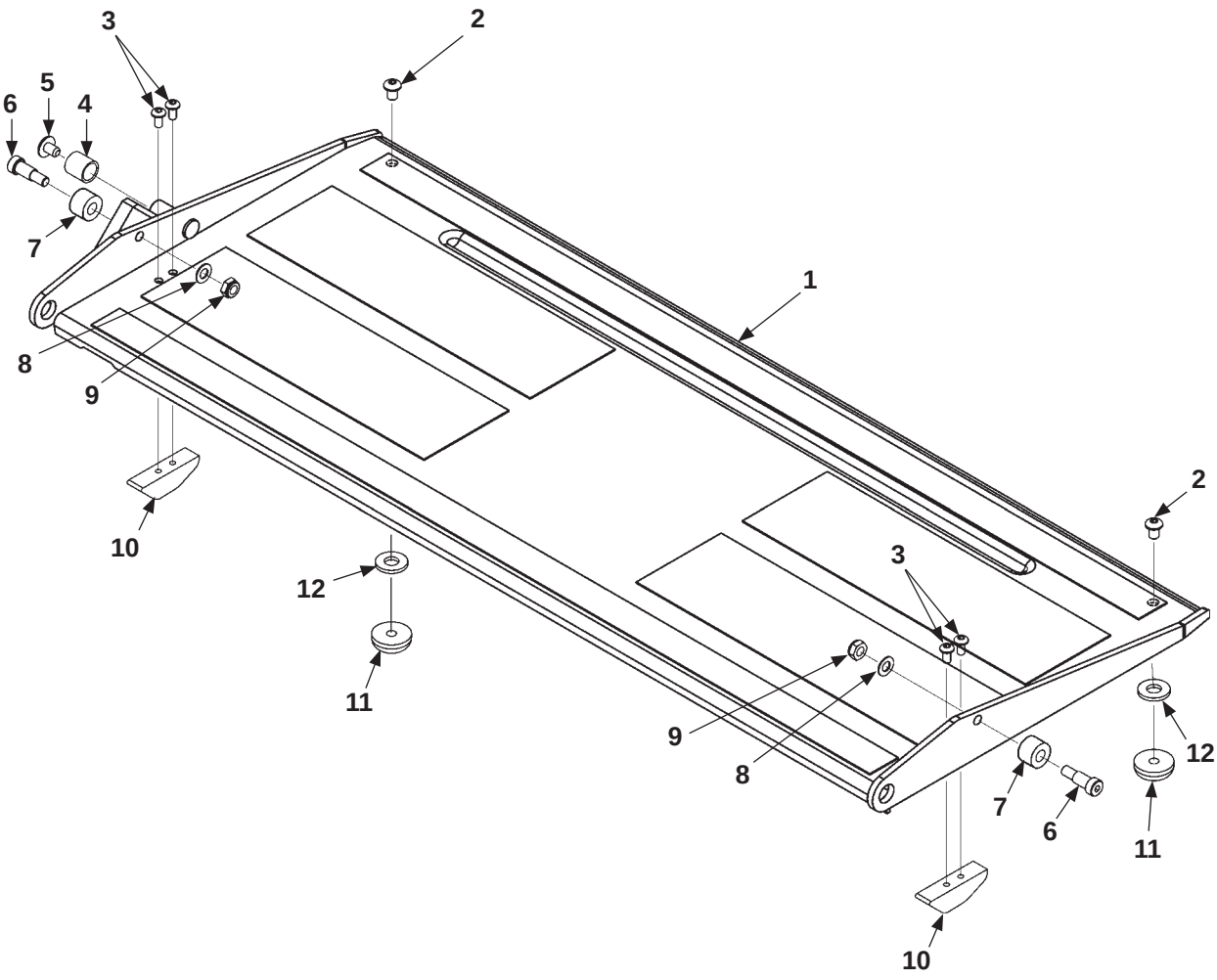

ITEM	QTY.	PART NO.	DESCRIPTION
1	REF	267618-01	INROLL RAMP (INBOARD ROLLSTOP), 30” WIDE
		267618-02	INROLL RAMP (INBOARD ROLLSTOP), 33” WIDE
		267618-03	INROLL RAMP (INBOARD ROLLSTOP), 34” WIDE
2	2	900005-1	BUTTON SCREW, 1/4”-20 X 3/8” LG.
3	4	900722-02	BUTTON SCREW, 10-24 X 3/8” LG.
4	1	267465-01	LOCK 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	2	905332-01	SPACER, 3/4” O.D. x 1/2” 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.

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LH GROUND SENSOR BRACKET ASSEMBLY

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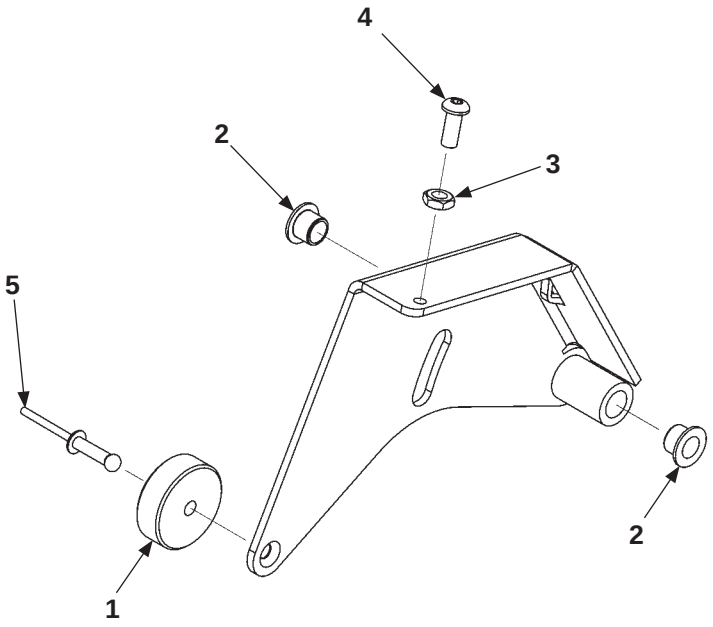
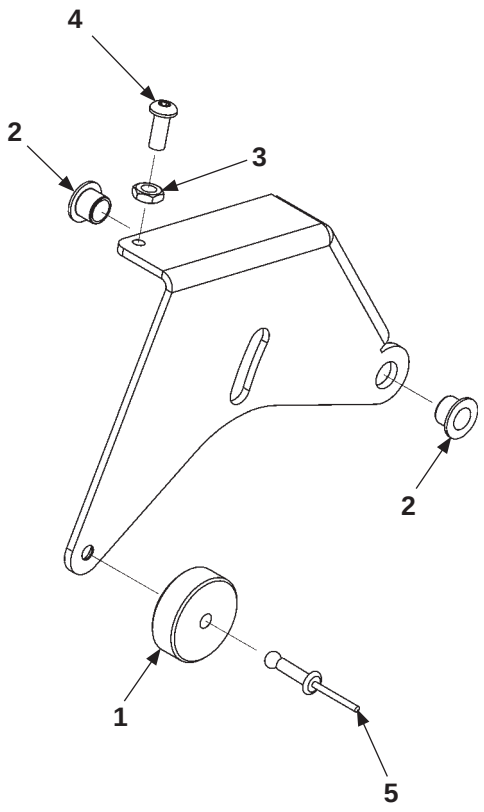


ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	269035-01	GROUND SENSOR BRACKET ASSEMBLY , LH
1	1	269051-01	ROLLER
2	2	908094-01	FLANGE BEARING, 3/8” I.D. X 3/4” LG.
3	1	903130-01	HEX HEAD JAM NUT, 1/4”-20
4	1	900719-04	BUTTON SCREW, 1/2”-20 X 5/8” LG.
5	1	903719-05	RIVET, 1/4” DIA. X 1/2”-5/8”

RH GROUND SENSOR BRACKET ASSEMBLY



ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	269035-01	GROUND SENSOR BRACKET ASSEMBLY , LH
1	1	269051-01	ROLLER
2	2	908094-01	FLANGE BEARING, 3/8” I.D. X 3/4” LG.
3	1	903130-01	HEX HEAD JAM NUT, 1/4”-20
4	1	900719-04	BUTTON SCREW, 1/2”-20 X 5/8” LG.
5	1	903719-05	RIVET, 1/4” DIA. X 1/2”-5/8”

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HYDRAULIC COMPONENTS

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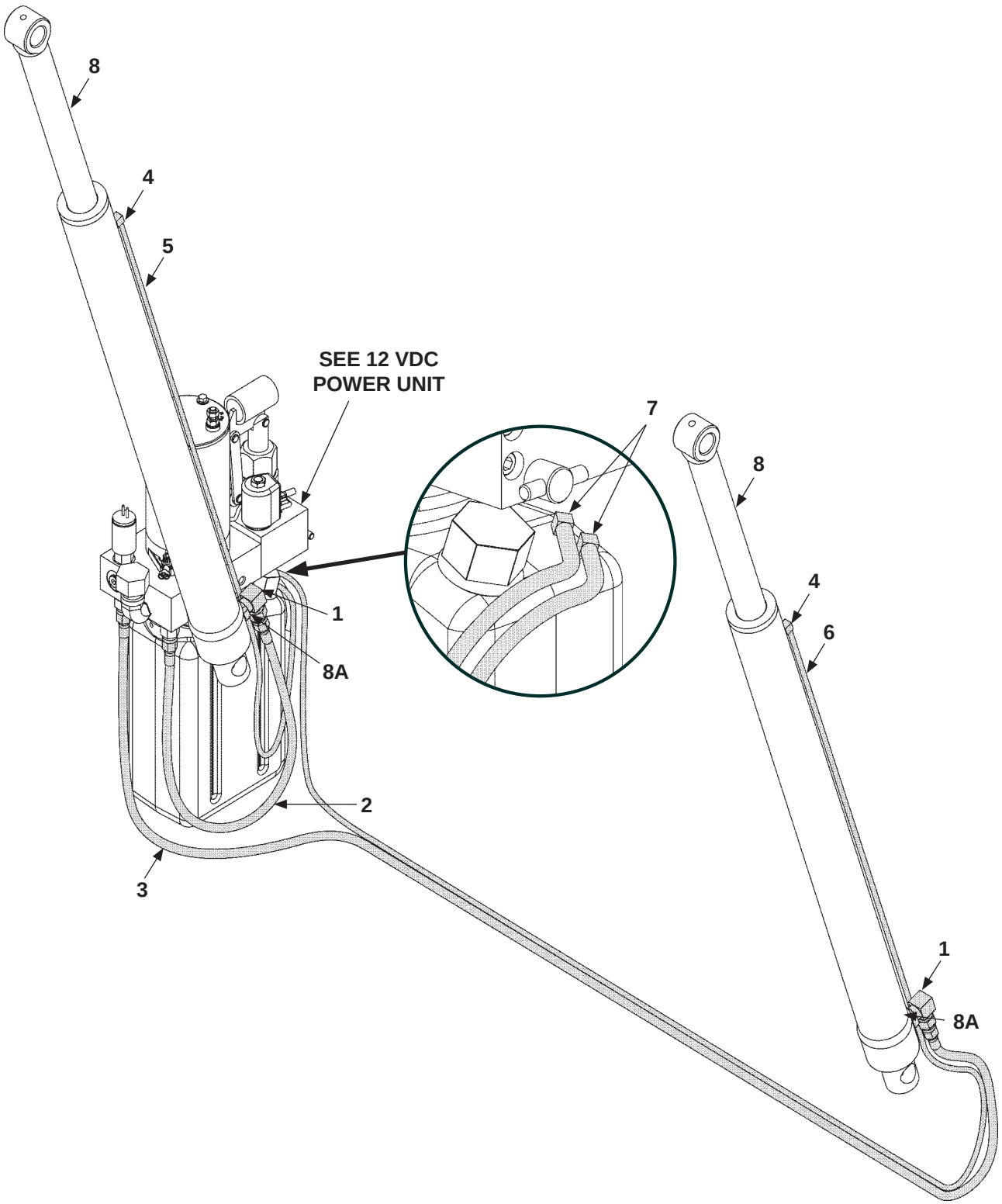

ITEM	QTY.	PART NO.	DESCRIPTION
1	2	906718-01	ELBOW, 90° O-RING, SAE#6 - JIC#4 MALE
2	1	267742-01	HOSE ASSEMBLY, 30” LG. (1/8” I.D.), JIC#4
3	1	267743-01	HOSE ASSEMBLY, 68” LG. (1/8” I.D.), JIC#4
4	2	905024	ELBOW FITTING, MALE #10-32 - 1/4”, BARB
5	1	224370-23	HOSE, PLASTIC, 1/4” X 56” LG. (1/8” I.D.)
6	1	224370-24	HOSE, PLASTIC, 1/4” X 91” LG. (1/8” I.D.)
7	2	906767-01	UNION ELBOW, 1/4” O.D. TUBE
8	1	269310-01	HYD. CYLINDER, (MATCHED PAIR, 1-1/2” X 19” STROKE, REFER TO NOTE)
8A	1	269309-01	FLOW CONTROL VALAVES (MATCHED PAIR, REFER TO NOTE)

NOTE: For Lift to operate correctly, cylinders must match. If one cylinder needs replacement, both must be replaced with a matched set. If a flow control valve must be replaced, a matched set is required to replace that valve in both cylinders.

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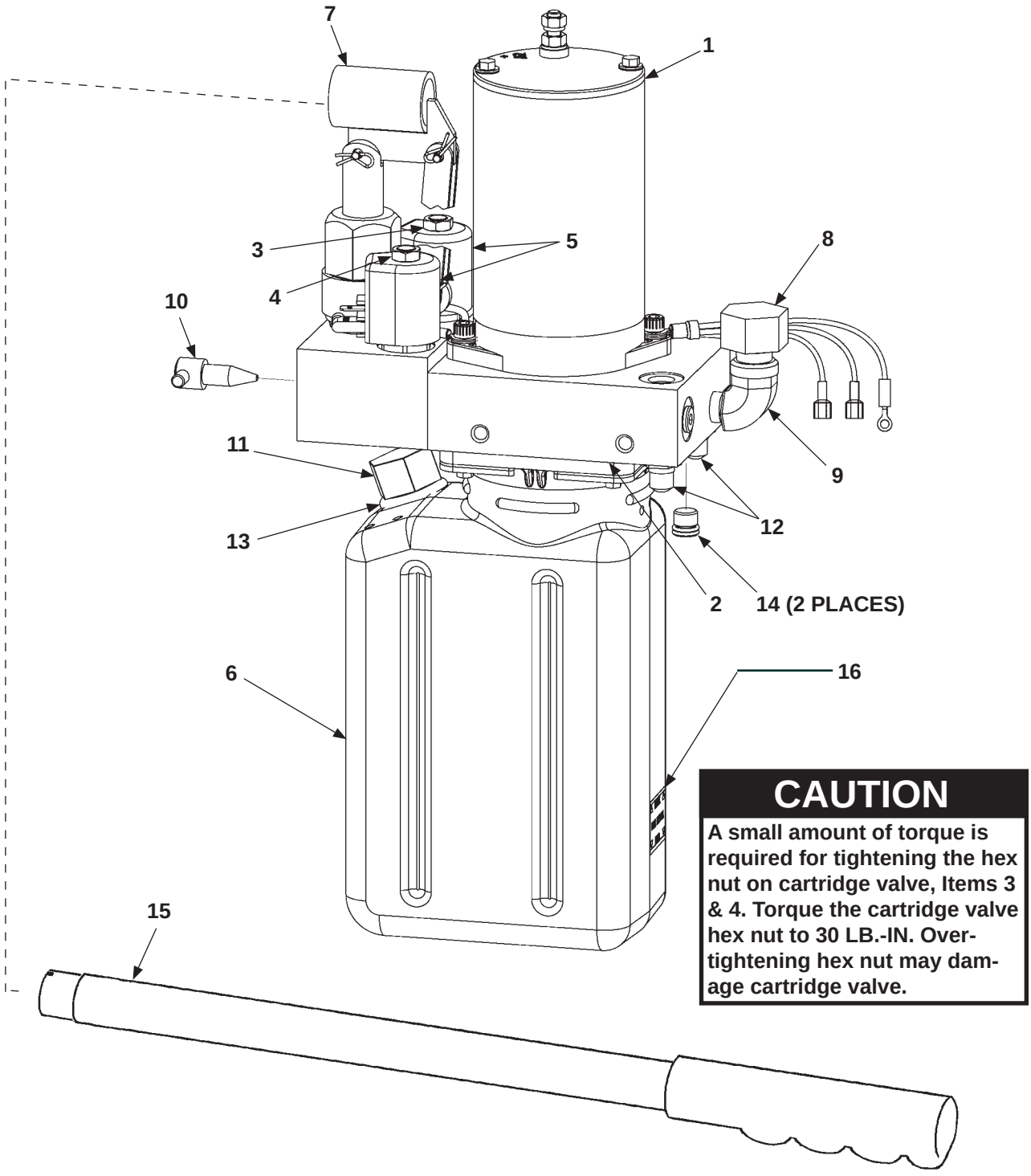
12 VDC POWER UNIT

CAUTION

The pressure relief valve, item 8, is adjusted at the factory and fitted with an anti-tamper seal to discourage adjustment. Attempts to adjust the pressure relief valve can cause the Lift to operate incorrectly.



CAUTION

A small amount of torque is required for tightening the hex nut on cartridge valve, Items 3 & 4. Torque the cartridge valve hex nut to 30 LB.-IN. Overtightening hex nut may damage cartridge valve.

ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	268154-01	12 VDC POWER UNIT
1	1	265118	MOTOR, 12 VDC
2	1	269036-01	GEAR PUMP
3	1	268212-01	POPPET VALVE, NC 2-WAY
4	1	268213-01	SPOOL VALVE, NC 2-WAY
5	2	268211-01	COIL, 10 VDC, SPADE
6	1	268167-01	RESERVOIR, 2 QT.
7	1	268210-01	MANUAL HAND PUMP
8	1	268895-01	FILLER-BREATHER
9	1	268166-01	ELBOW, 3/8”
10	1	265131	NEEDLE VALVE, MANUAL
11	1	280806-01	BREATHER
12	2	906741-01	FITTING, STRAIGHT, O-RING #6 & JIC #4
13	1	908016-01	RUBBER GROMMET
14	2	906806-01	PLUG, O-RING
15	1	267965-01	PUMP HANDLE
16	1	906730-01	LABEL, MIN/MAX FILL LEVEL

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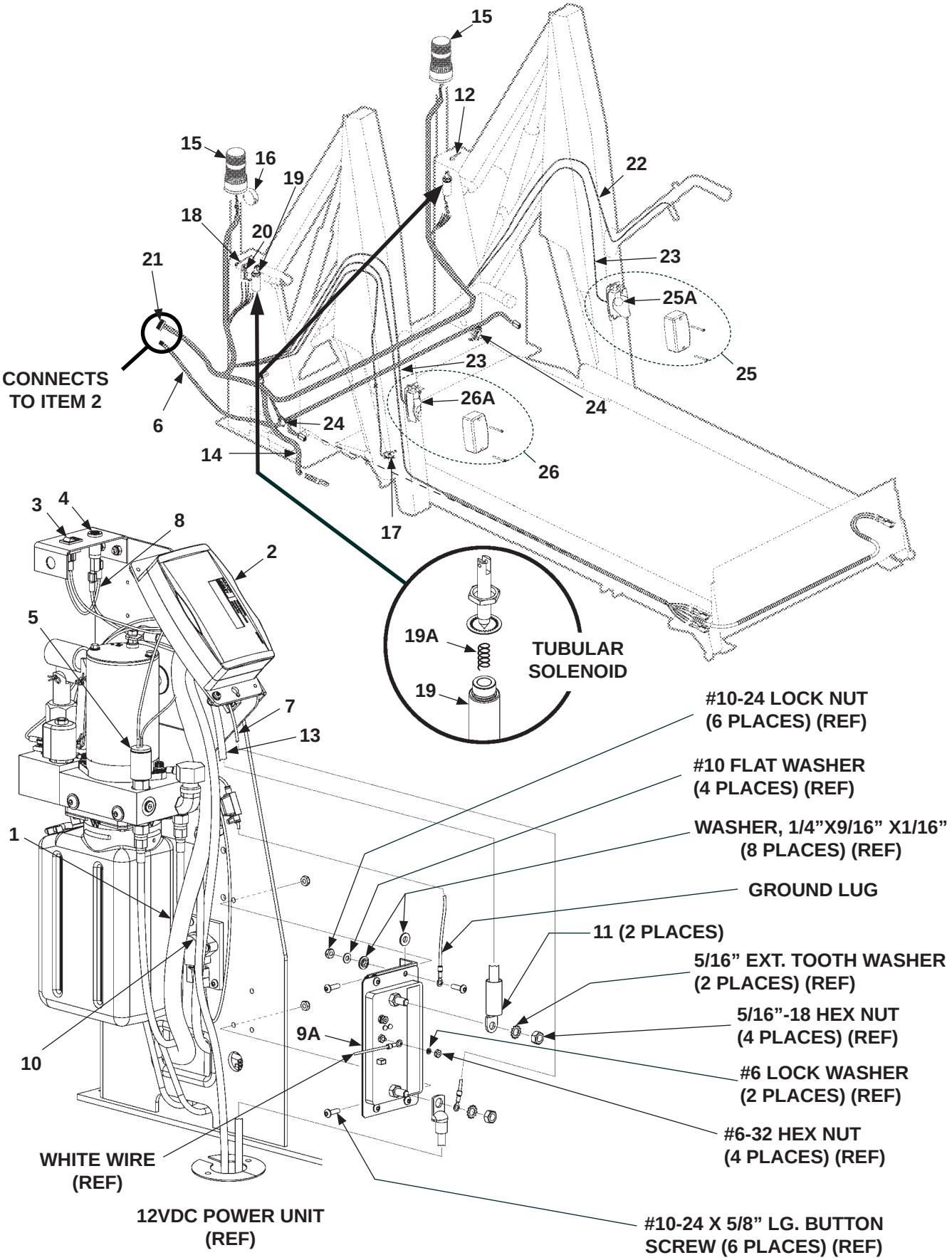
ELECTRICAL COMPONENTS



PATENTS PENDING

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	267751-01	PUMP HARNESS, WL-7, C
2	1	269301-01	CONTROLLER ASSY, WL-7, C
3	1	906588-01	ROCKER SWITCH, WITH LEGEND
4	1	906462-01	FUSE WITH FUSE HOLDER
5	1	267748-01	TRANSDUCER ASSY, 0-2000 PSI
6	1	268031-01	EXTENSION HARNESS
7	1	283697-01	WIRE ASSY, (FUSE-TO-DC RELAY)
8	1	267941-01	WIRE ASSY, (FUSE-TO-ROCKER SWITCH)
9	1	267969-01	DC RELAY ASSY (LH PUMP) (INCLUDES SCREWS, NUTS & WASHERS)
		267969-02	DC RELAY ASSY (RH PUMP) (INCLUDES SCREWS, NUTS & WASHERS)
9A	1	267915-01	DC RELAY, 100 AMP
10	1	267907-01	ILAPS SWITCH ASSY, (LH PUMP)
		267907-02	ILAPS SWITCH ASSY, (RH PUMP)
11	2	268152-02	LUG COVER, RED (POWER CABLE)
12	1	268093-01	WIRE ASSY, 10” LG. (18 GA BLACK)
13	1	267942-02	CABLE ASSEMBLY, 2 GA (16” LG.)
14	1	251871-06	CABLE ASSEMBLY, 2 GA, 48” LG. (GROUNDING CABLE)
15	2	267471-01	STEADY BURN LAMP (RED BEACON ASSEMBLY)
16	1	266922-01	ELECTRIC SIREN
17	1	267753-01	INROLL RAMP (INBD ROLLSTOP) SWITCH & SPRING ASSEMBLY
18	1	266926-01	WIRE ASSEMBLY, 5” LG.
19	2	266955-01	TUBULAR SOLENOID
19A	1	266562-01	SOLENOID SPRING
20	1	266881-01	WATERTIGHT SWITCH
21	1	267944-01	MAIN HARNESS (LH PUMP)
		267944-02	MAIN HARNESS (RH PUMP)
22	1	266929-01	SEATBELT HARNESS
23	2	266899-01	CABLE ASSEMBLY
24	2	266881-02	WATERTIGHT SWITCH
25	1	267911-02	LAMP ASSEMBLY WITH HARDWARE, RIGHT
25A	1	906475-01	BULB (AUTOMOTIVE TYPE 1156)
26	1	267911-01	LAMP ASSEMBLY WITH HARDWARE, LEFT
26A	1	906475-01	BULB (AUTOMOTIVE TYPE 1156)

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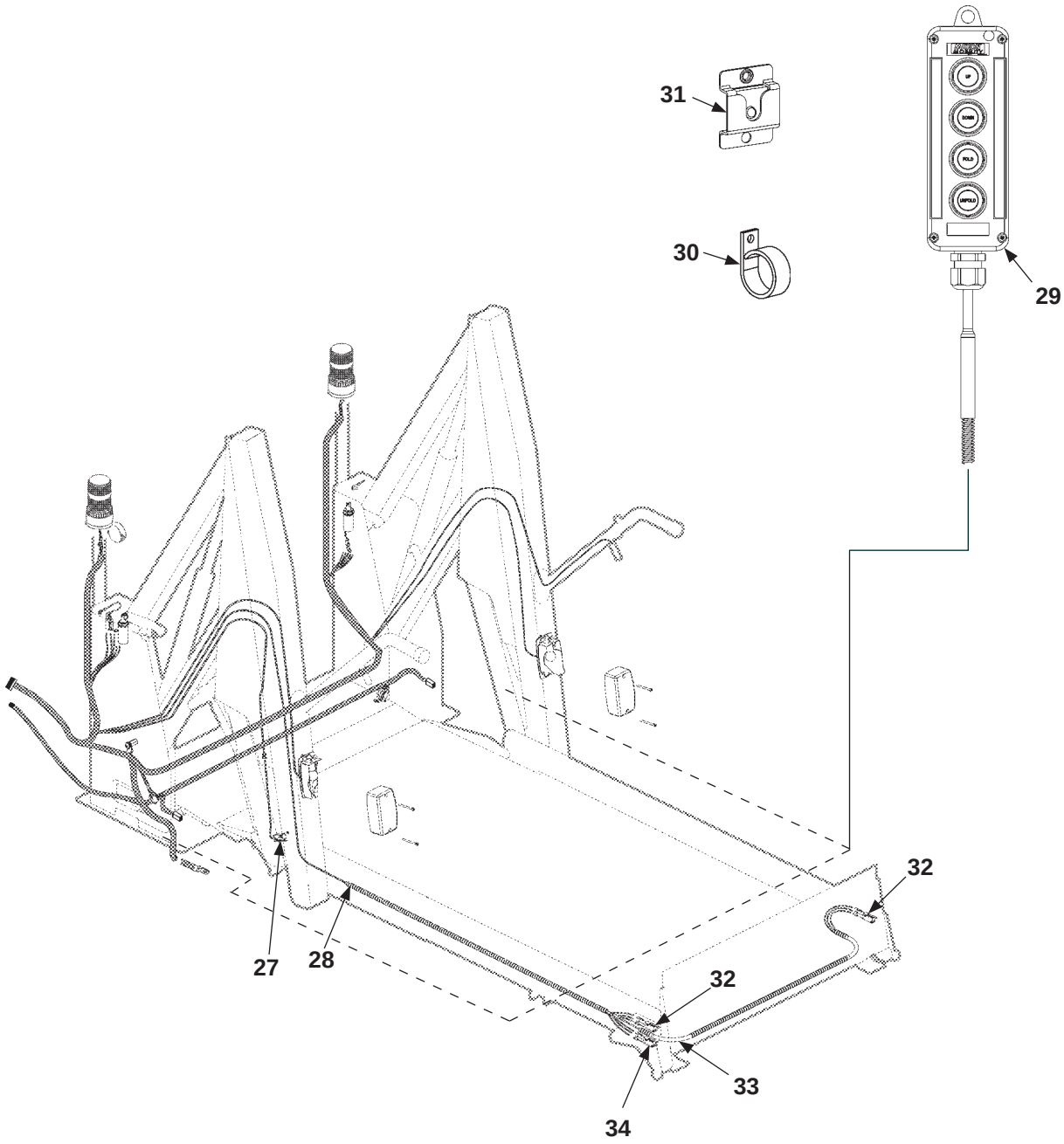

ITEM	QTY.	PART NO.	DESCRIPTION
27	1	267616-01	RAMP SWITCH WIRE ASSEMBLY
28	1	269202-01	CABLE ASSEMBLY, PLATFORM
29	1	269060-02	HAND PENDANT, ARMORED
30	1	267355-01	HOOK (PENDANT CABLE STORAGE)
31	1	268039-01	BRACKET, PENDANT HOLDER
32	2	269033-01	SWITCH ASSY (GROUND SWITCH, 5-1/2” LG. WIRING)
33	1	269064-01	SWITCH ASSY (OUTBOARD SWITCH, 7-1/2” LG. WIRING)
34	1	269045-01	SWITCH ASSEMBLY, OUTROLL STOP

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DECALS AND DECAL PLACEMENT

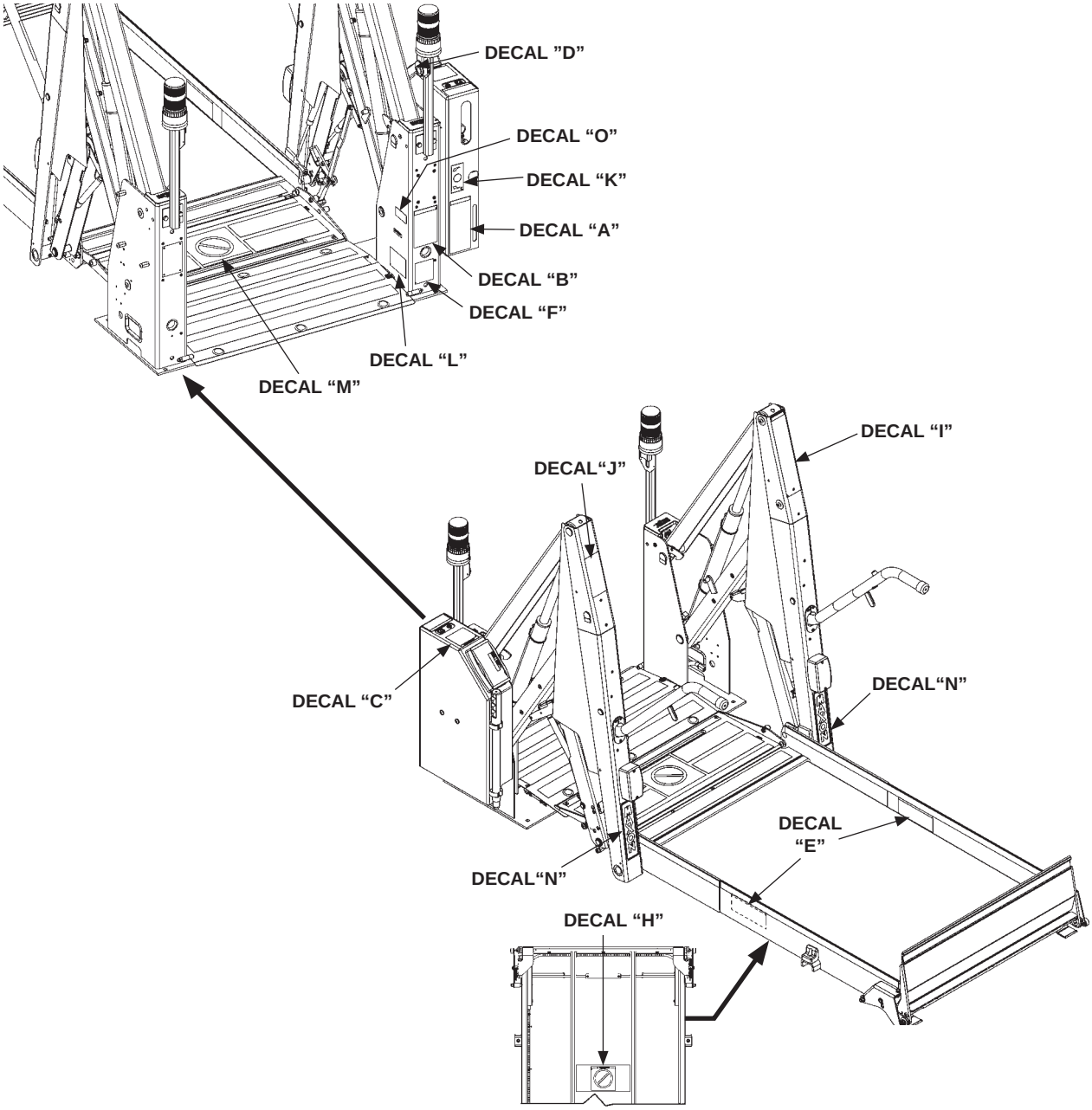


FIG. 86-1

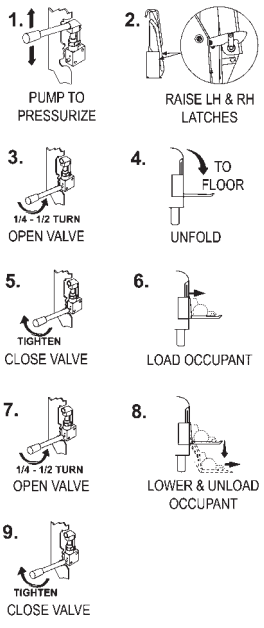
All **WARNING**, **CAUTION**, and **OPERATION** decals provided with Wheelchair Lift must always be in place on the Lift and vehicle **(see FIG. 73-1)**, and must always be legible. If decals are missing or illegible, get free replacement decals from:

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

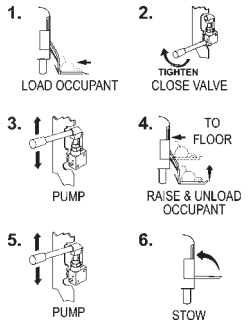
MAXON® 11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

DECALS FOR WL7-vers. C

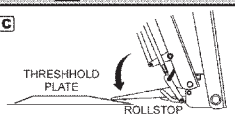
BACKUP OPERATING INSTRUCTIONS FOR UNLOADING PASSENGERS
DOT-PUBLIC USE LIFT A



BACKUP OPERATING INSTRUCTIONS FOR LOADING PASSENGERS
DOT-PUBLIC USE LIFT B



⚠ CAUTION C



Prevent injury & damage to lift. Make sure Rollstop rests on top of Threshhold Plate before loading & unloading passengers. Raise or lower Platform until Rollstop rests correctly on Threshhold Plate.

MAXON® N

OPERATING INSTRUCTIONS
DOT- PUBLIC USE LIFT

UNFOLD LIFT:
1. FULLY OPEN AND SECURE WHEELCHAIR DOOR(S).
2. MAKE SURE SEAT BELT IS FASTENED IF EQUIPPED.
3. PUSH FOLD SWITCH FOR 1-2 SECONDS.
4. PUSH UNFOLD SWITCH TO UNFOLD PLATFORM TO VEHICLE FLOOR LEVEL.

LOAD PASSENGERS:
1. PUSH DOWN SWITCH TO LOWER PLATFORM TO GROUND LEVEL.
2. UNFASTEN SEAT BELT IF EQUIPPED.
3. POSITION WHEELCHAIR IN THE CENTER OF PLATFORM AND LOCK WHEELCHAIR BRAKES.
4. FASTEN SEAT BELT IF EQUIPPED.
5. PUSH UP SWITCH TO RAISE PLATFORM TO VEHICLE FLOOR LEVEL.
6. RELEASE WHEELCHAIR BRAKES.
7. LOAD WHEELCHAIR IN VEHICLE.

UNLOAD PASSENGERS:
1. POSITION WHEELCHAIR IN THE CENTER OF PLATFORM AND LOCK WHEELCHAIR BRAKES.
2. MAKE SURE SEAT BELT IS FASTENED IF EQUIPPED.
3. PUSH DOWN SWITCH TO LOWER PLATFORM TO GROUND LEVEL.
4. UNFASTEN SEAT BELT IF EQUIPPED.
5. RELEASE WHEELCHAIR BRAKES
6. UNLOAD WHEELCHAIR FROM PLATFORM.

STOW LIFT:

FROM VEHICLE FLOOR LEVEL
1. MAKE SURE PLATFORM IS EMPTY AND SEAT BELT IS FASTENED IF EQUIPPED.
2. PUSH FOLD SWITCH UNTIL PLATFORM FOLDS COMPLETELY, UNDER HYDRAULIC PRESSURE.

FROM GROUND LEVEL
1. MAKE SURE PLATFORM IS EMPTY AND SEAT BELT IS FASTENED IF EQUIPPED.
2. PUSH UP SWITCH TO RAISE PLATFORM TO VEHICLE FLOOR LEVEL.
3. PUSH FOLD SWITCH UNTIL PLATFORM FOLDS COMPLETELY, UNDER HYDRAULIC PRESSURE.

I

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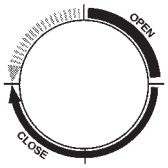
D

STANDING POSITION ON PLATFORM

Position a standing passenger in center of platform between handrails, gripping handrails, and facing direction of travel.

E

BACKUP OPERATION
- TO UNFOLD, OPEN VALVE SLOWLY
- TO LOWER, OPEN VALVE



CLOSE VALVE TIGHTLY
- TO STOP UNFOLDING
- TO STOP LOWERING
- BEFORE RAISING & FOLDING

K

Chassis Electrical Ground

The surface finish of this lift is powder coat paint. To insure a proper electrical ground to the vehicle chassis remove the paint from the area around the chassis grounding strap munting bolt hole by grinding or sanding the surface to expose bare metal. Also, remove any undercoating from the surface of the vehicle chassis where the strap will be fastened.

F

The MAXON Lift Corp. certifies that this wheelchair lift conforms to all applicable requirements of the Americans w/Disabilities Act of 1990, current National School Transportation Specifications and Procedures, and the California Code of Regulations requirements in effect on the date of manufacture.

L

⚠ WARNING

- THIS WHEELCHAIR LIFT MUST BE OPERATED BY AN ATTENDANT. DO NOT ATTEMPT TO RIDE LIFT WITHOUT THE ASSISTANCE OF AN ATTENDANT.
- IMPROPER OPERATION OF THIS LIFT CAN RESULT IN SERIOUS PERSONAL INJURY. DO NOT OPERATE UNLESS YOU HAVE BEEN PROPERLY INSTRUCTED AND HAVE READ, AND ARE FAMILIAR WITH, THE OPERATING INSTRUCTIONS AND **SAFETY SUMMARY** CONTAINED IN THE **OPERATOR'S MANUAL.**
- IF YOU DO NOT HAVE A COPY OF THE **OPERATOR'S MANUAL**, ADDITIONAL COPIES ARE AVAILABLE FROM:

MAXON LIFT CORP.
11921 SLAUSON AVE
SANTA FE SPRINGS, CA 90670
(800) 227-4116
WWW.MAXONMOBILITY.COM

DO NOT EXCEED RATED LOAD CAPACITY OF LIFT WHICH IS:

800 lbs. (364 kg)

J

⚠ WARNING H

To avoid possible injury, stand clear of the Lift Platform.

⚠ CAUTION M

To avoid possible injury and damage to equipment, never stand on Rollstop while Lift is operating.

DOT-
Public Use Lift
O

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DECAL SET P/N 268302-01
FIG. 87-1

PATENTS PENDING

DECALS AND DECAL PLACEMENT - Continued

DECALS FOR WL7-vers. C-1K

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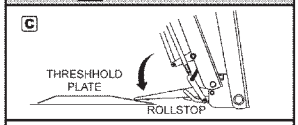
BACKUP OPERATING INSTRUCTIONS FOR UNLOADING PASSENGERS
DOT-PUBLIC USE LIFT A

1. PUMP TO PRESSURIZE
2. RAISE LH & RH LATCHES
3. OPEN VALVE (1/4 - 1/2 TURN)
4. UNFOLD (TO FLOOR)
5. CLOSE VALVE (TIGHTEN)
6. LOAD OCCUPANT
7. OPEN VALVE (1/4 - 1/2 TURN)
8. LOWER & UNLOAD OCCUPANT
9. CLOSE VALVE (TIGHTEN)

BACKUP OPERATING INSTRUCTIONS FOR LOADING PASSENGERS
DOT-PUBLIC USE LIFT B

1. LOAD OCCUPANT
2. CLOSE VALVE (TIGHTEN)
3. PUMP
4. RAISE & UNLOAD OCCUPANT (TO FLOOR)
5. PUMP
6. STOW

CAUTION C



Prevent injury & damage to lift. Make sure Rollstop rests on top of Threshhold Plate before loading & unloading passengers. Raise or lower Platform until Rollstop rests correctly on Threshhold Plate.

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OPERATING INSTRUCTIONS
DOT- PUBLIC USE LIFT

UNFOLD LIFT:
1. FULLY OPEN AND SECURE WHEELCHAIR DOOR(S).
2. MAKE SURE SEAT BELT IS FASTENED IF EQUIPPED.
3. PUSH FOLD SWITCH FOR 1-2 SECONDS.
4. PUSH UNFOLD SWITCH TO UNFOLD PLATFORM TO VEHICLE FLOOR LEVEL.

LOAD PASSENGERS:
1. PUSH DOWN SWITCH TO LOWER PLATFORM TO GROUND LEVEL.
2. UNFASTEN SEAT BELT IF EQUIPPED.
3. POSITION WHEELCHAIR IN THE CENTER OF PLATFORM AND LOCK WHEELCHAIR BRAKES.
4. FASTEN SEAT BELT IF EQUIPPED.
5. PUSH UP SWITCH TO RAISE PLATFORM TO VEHICLE FLOOR LEVEL.
6. RELEASE WHEELCHAIR BRAKES.
7. LOAD WHEELCHAIR IN VEHICLE.

UNLOAD PASSENGERS:
1. POSITION WHEELCHAIR IN THE CENTER OF PLATFORM AND LOCK WHEELCHAIR BRAKES.
2. MAKE SURE SEAT BELT IS FASTENED IF EQUIPPED.
3. PUSH DOWN SWITCH TO LOWER PLATFORM TO GROUND LEVEL.
4. UNFASTEN SEAT BELT IF EQUIPPED.
5. RELEASE WHEELCHAIR BRAKES
6. UNLOAD WHEELCHAIR FROM PLATFORM.

STOW LIFT:

FROM VEHICLE FLOOR LEVEL
1. MAKE SURE PLATFORM IS EMPTY AND SEAT BELT IS FASTENED IF EQUIPPED.
2. PUSH FOLD SWITCH UNTIL PLATFORM FOLDS COMPLETELY, UNDER HYDRAULIC PRESSURE.

FROM GROUND LEVEL
1. MAKE SURE PLATFORM IS EMPTY AND SEAT BELT IS FASTENED IF EQUIPPED.
2. PUSH UP SWITCH TO RAISE PLATFORM TO VEHICLE FLOOR LEVEL.
3. PUSH FOLD SWITCH UNTIL PLATFORM FOLDS COMPLETELY, UNDER HYDRAULIC PRESSURE.

I

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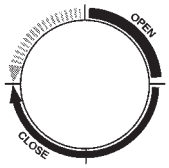
STANDING POSITION ON PLATFORM

Position a standing passenger in center of platform between handrails, gripping handrails, and facing direction of travel. E

BACKUP OPERATION
- TO UNFOLD, OPEN VALVE SLOWLY
- TO LOWER, OPEN VALVE



CLOSE VALVE TIGHTLY
- TO STOP UNFOLDING
- TO STOP LOWERING
- BEFORE RAISING & FOLDING

K

Chassis Electrical Ground

The surface finish of this lift is powder coat paint. To insure a proper electrical ground to the vehicle chassis remove the paint from the area around the chassis grounding strap munting bolt hole by grinding or sanding the surface to expose bare metal. Also, remove any undercoating from the surface of the vehicle chassis where the strap will be fastened.

F

The MAXON Lift Corp. certifies that this wheelchair lift conforms to all applicable requirements of the Americans w/Disabilities Act of 1990, current National School Transportation Specifications and Procedures, and the California Code of Regulations requirements in effect on the date of manufacture.

L

WARNING

THIS WHEELCHAIR LIFT MUST BE OPERATED BY AN ATTENDANT. DO NOT ATTEMPT TO RIDE LIFT WITHOUT THE ASSISTANCE OF AN ATTENDANT.
IMPROPER OPERATION OF THIS LIFT CAN RESULT IN SERIOUS PERSONAL INJURY. DO NOT OPERATE UNLESS YOU HAVE BEEN PROPERLY INSTRUCTED AND HAVE READ, AND ARE FAMILIAR WITH, THE OPERATING INSTRUCTIONS AND **SAFETY SUMMARY** CONTAINED IN THE **OPERATOR'S MANUAL.**
IF YOU DO NOT HAVE A COPY OF THE **OPERATOR'S MANUAL**, ADDITIONAL COPIES ARE AVAILABLE FROM:

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11921 SLAUSON AVE
SANTA FE SPRINGS, CA 90670
(800) 227-4116
WWW.MAXONMOBILITY.COM

DO NOT EXCEED RATED LOAD CAPACITY OF LIFT WHICH IS:
1000 lbs. (453 kg)

J

WARNING H

To avoid possible injury, stand clear of the Lift Platform.

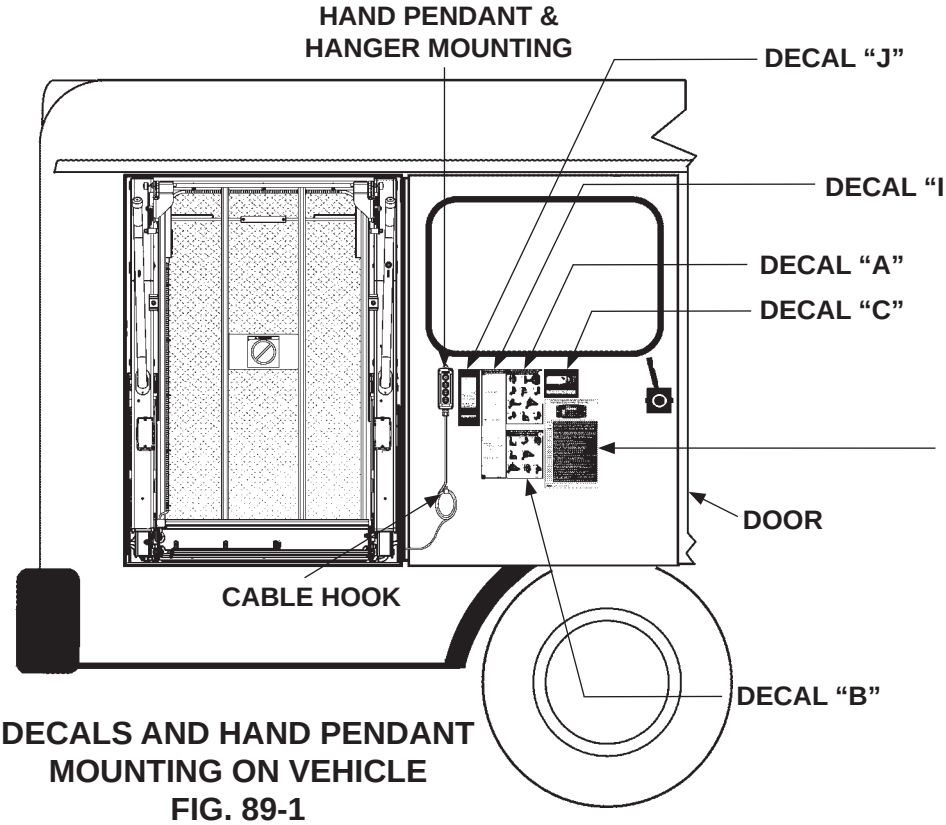
CAUTION M

To avoid possible injury and damage to equipment, never stand on Rollstop while Lift is operating.

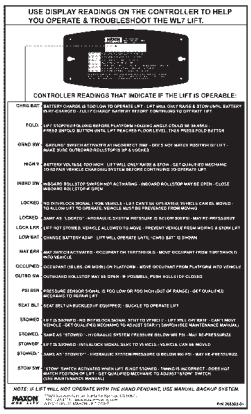
DOT-
Public Use Lift
O

DECAL SET P/N 268302-03
FIG. 88-1

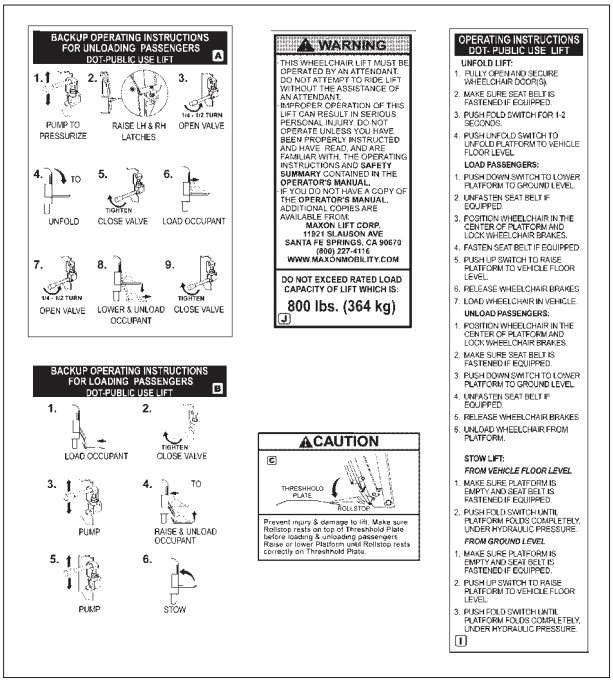
PATENTS PENDING



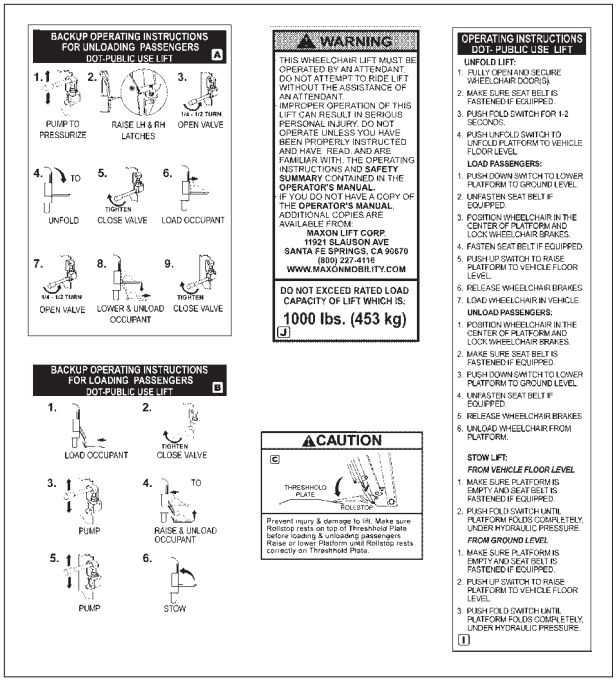
DECALS AND HAND PENDANT MOUNTING ON VEHICLE
FIG. 89-1



DECAL "A"
P/N 268303-01



DECAL SET FOR WL7-vers.C
P/N 267620-02
FIG. 89-2



DECAL SET FOR WL7-vers.C-1K
P/N 267620-04
FIG. 89-3

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PATENTS PENDING

SERIAL PLATE & CONTROLLER

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

CONTROLLER OVERLAY
P/N 267630-01

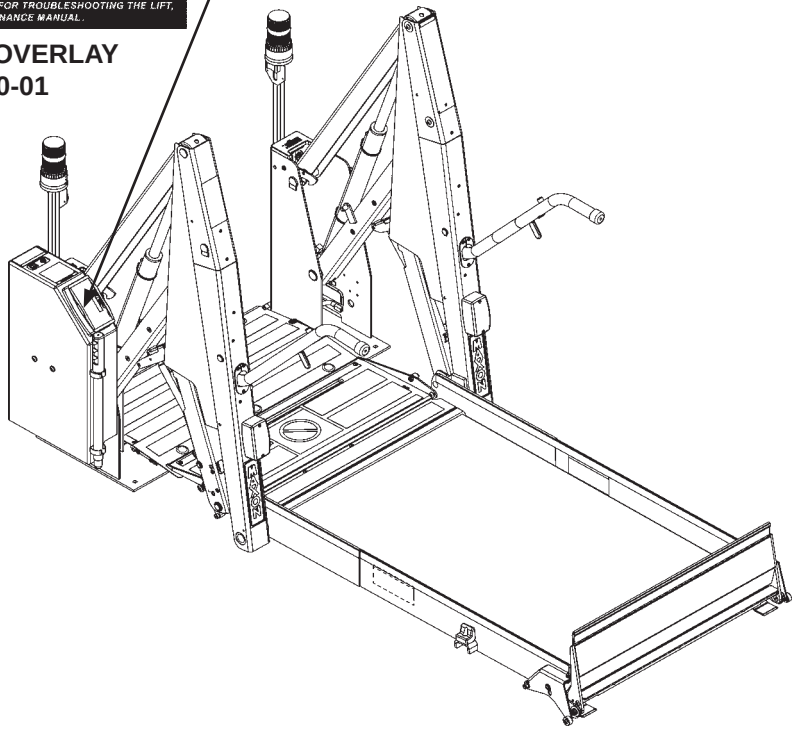
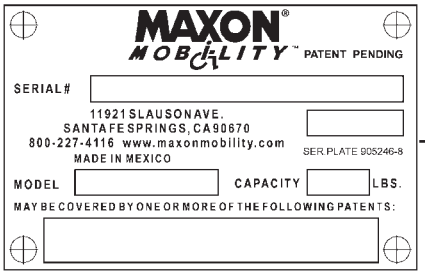


FIG. 90-1



SERIAL PLATE
P/N 905246-8

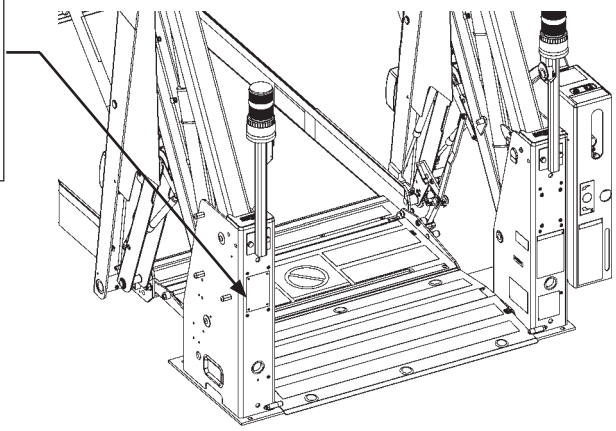


FIG. 90-2

ANTI-SLIP & SAFETY STRIPING
(30” WIDE PLATFORM)

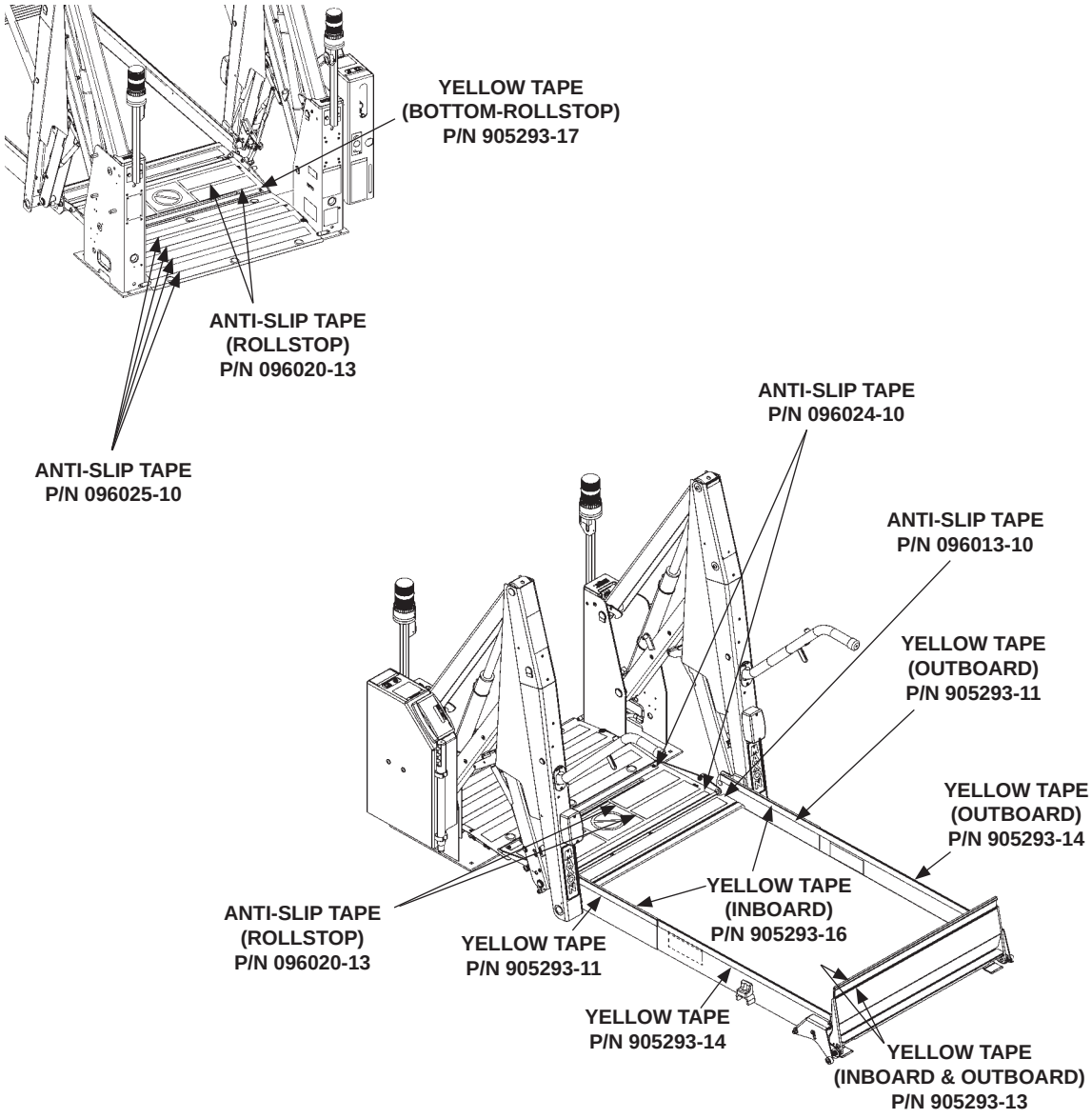


FIG. 91-1

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

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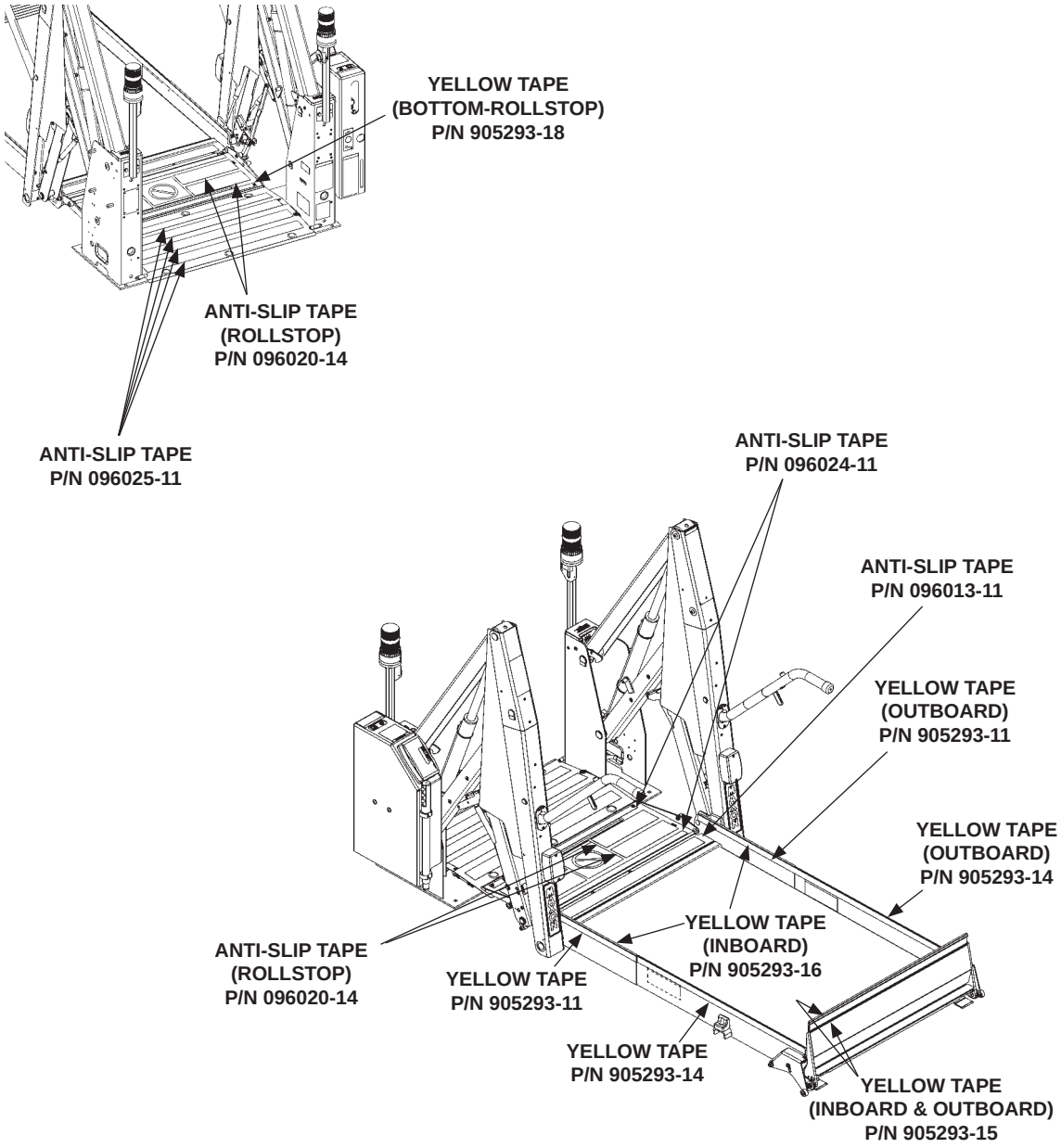

FIG. 92-1

(34” WIDE PLATFORM)

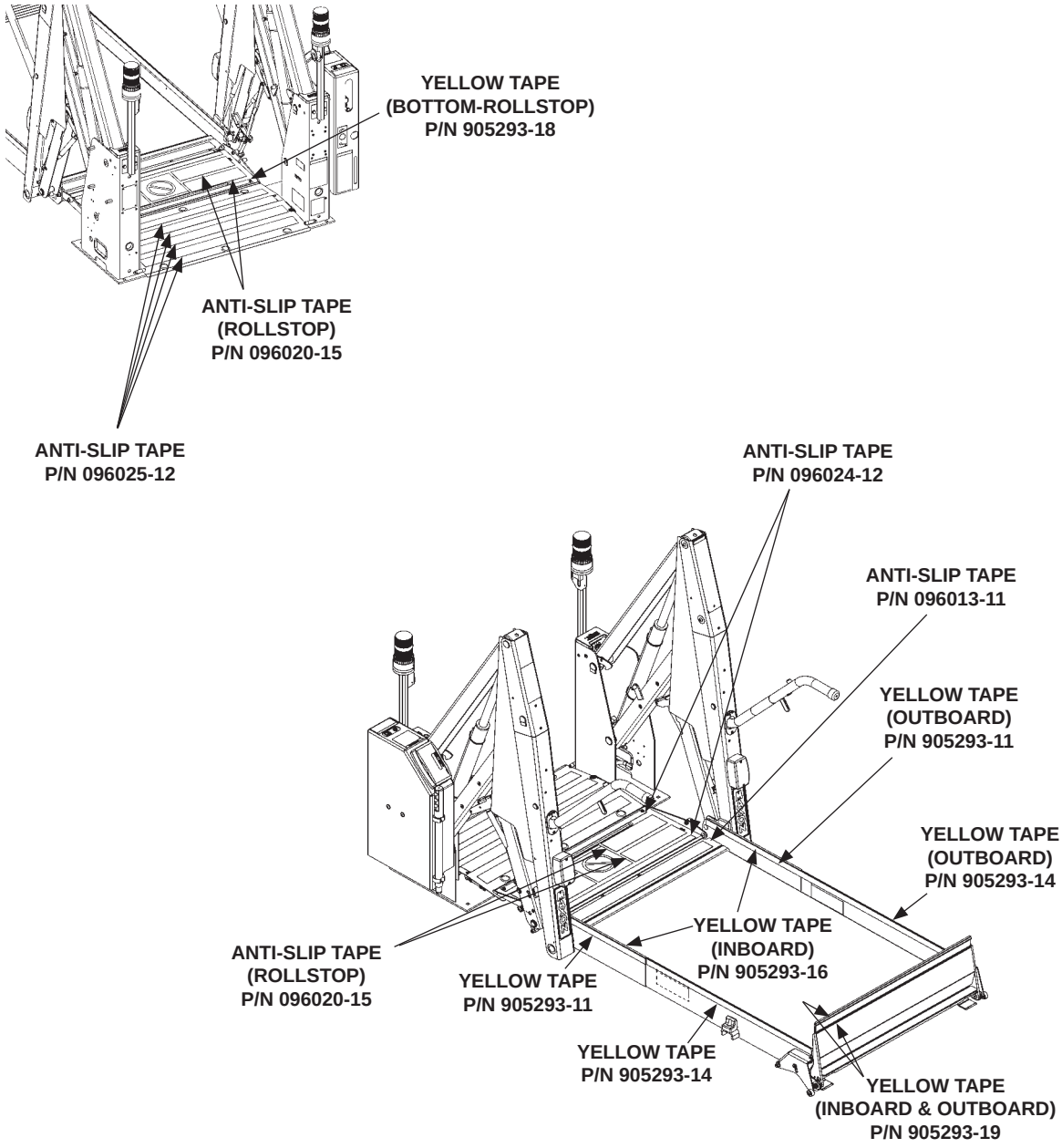

FIG. 93-1

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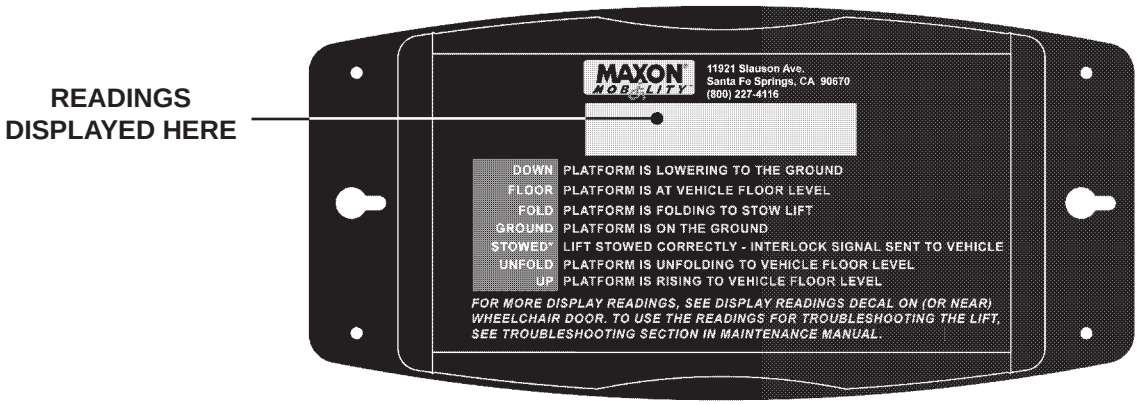
TROUBLESHOOTING

CONTROLLER DISPLAY READINGS

The controller **(FIG. 94-1)** 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. 94-1

STOWED* (Stowed Star)**:**
Lift is operating normally and the controller **(FIG. 94-1)** 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. 94-1)** receives the interlock signal from the vehicle. The platform folded, passed the stow switch, and is stowed. The hydraulic system pressure is below 900 PSI. If the vehicle engine is running, the controller recharges hydraulic system pressure every 5 minutes, the **dot (.)** will clear and controller **(FIG. 94-1)** will read **STOWED***.

STOWED (Stowed): Lift is operating normally and the controller **(FIG. 94-1)** receives the interlock signal from the vehicle, but the Lift is not generating the signal for the vehicle interlock. The platform 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 and prevents the vehicle from being moved (Lift stowed improperly), the vehicle is unable to move until it receives the Lift interlock signal.

Corrective action:

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

STOWED. (Stowed dot):
Lift is operating normally and the controller **(FIG. 94-1)** is receiving the vehicle's interlock signal, but the Lift is not generating the interlock signal for the vehicle interlock. The platform folded, passed the stow switch, and is stowed. The hydraulic system pressure is below 900 PSI. If the vehicle engine is running, the controller recharges hydraulic system pressure every 5 minutes, the **"." (dot)** will go away and controller **(FIG. 94-1)** will read **STOWED**. If the vehicle interlock uses the absence of the Lift interlock signal and prevents the vehicle from being moved (Lift stowed improperly), the vehicle is unable to move until it receives the Lift interlock signal.

Corrective action:

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

INBRD SW:
The inboard rollstop is not completey closed and locked in position, or the inboard rollstop switch is always open.

Corrective action:

1. Close the inboard rollstop. Make sure closing mechanism is working correctly.
2. If problem remains, do the following. With inboard rollstop open, push the switch actuator mechanism. If the **INBRD SW** reading clears, the wiring connections and switch are good. Do the I**NBOARD SWITCH ADJUSTMENT**. If a different error message appears, i.e. **ANG SEN**, troubleshoot as instructed.
3. Check for cracks in the switch body and for loose spade terminals. Replace switch if damaged.
4. If the controller **(FIG. 94-1)** still reads **INBRD SW**, replace the controller.

OUTBD SW:
The outboard rollstop is not closed completely and locked in position, or the outboard rollstop switch is not functioning correctly.

Corrective action:

1. With the platform open and off the ground, manually lower the outboard rollstop. The controller should read **OUTBD SW**. Next, manually raise the outboard rollstop to the up and locked position. The **OUTBD SW** reading should clear when the outboard rollstop is up and locked. If the reading does not clear when outboard rollstop opens and closes:
   • Check and repair switch wiring
   • Replace switch or magnet
2. Check if the magnets are missing or fouled with debris. If missing, replace the magnet(s). If magnets are fouled, clean off the debris.
3. If the controller **(FIG. 94-1)** still reads **OUTBD SW**, replace the controller.

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MATT ERR:
The Lift's threshold plate sensed pressure while the platform was unfolded and more than 1" below the vehicle floor. There may be a load or occupant on it, or it may need to be adjusted.

Corrective action:

1. Make sure the THRS (MAT) switch is adjusted correctly. If required, do the **THRESHOLD (M AT) SWITCH ADJUSTMENT** in this manual.
2. If adjustment does not solve the problem, do the following. Push the actuator lever on each of the 2 MAT switches (one at a time). If the **MAT ERR** reading appears while pushing on the actuator and clears when releasing the actuator, then the wiring connections and switch are good.
3. If the controller **(FIG. 94-1)** still reads **MAT ERR**, replace the controller.

LOCK ERR:
Lift is not stowed, and the interlock signal from the vehicle does not reach 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 will operate until stowed. The Lift cannot operate until it receives the interlock signal from the vehicle.

CAUTION

To prevent a constant "LOCK ERR", never connect the brown interlock wire with the white (red-striped) interlock wire.

Corrective action:

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 vehicle interlock wiring harness **(see ELECTRICAL SYSTEM DIAGRAM)**. (The vehicle interlock wire is on the same side as the pump.) Connect the wire to ground. If the **LOCK ERR** reading is gone from the controller **(FIG. 94-1)**, the Lift interlock is operating correctly. The vehicle interlock needs to be repaired.

LOCKED:
This is a normal reading on the controller **(FIG. 94-1)** if the Lift is stowed and vehicle is being driven. It indicates the Lift cannot be operated because it is not receiving an 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 **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. (Fold dot):
The platform does not pass the “Fold” switch, and the platform remains in position. The controller **(FIG. 94-1)** looks for a pressure reading that indicates an occupant is on the platform (50+ lbs). The platform must travel an adequate distance for the controller (measures hydraulic system pressure (PSI)) to determine if the platform can be folded. If the Lift stops folding in the middle of the platform occupant sensing area, the controller prevents the platform from folding. The platform must unfold completely to continue operating.

Corrective action:
Unfold the platform completely to floor level. The controller allows the platform to be folded and stowed.

UNFOLD. (Unfold dot):
The platform does not pass the “Fold” switch, and the platform remains positioned. The controller **(FIG. 94-1)** looks for a pressure reading that indicates an occupant is on the platform (50+ lbs). The controller prevents the platform from folding, allowing it only to unfold. The platform must unfold completely to continue operating the Lift.

Corrective action:
Unfold the platform completely to floor level. The controller allows the platform to be folded and stowed.

UNFOLD. OCCUPIED (Unfold dot Occupied):
Platform is 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 reading (PSI). It should read between 170PSI to 230PSI. If it is within range, the platform occupied pressure setting must be changed in the controller.
3. If it is not within range, do the **FLOOR POSITION ADJUSTMENT** procedure.

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CONTROLLER DISPLAY READINGS - Continued

SEAT BLT:
For units equipped with a seat belt, seat belt is unbuckled.

Corrective action:

1. Buckle and unbuckle the seat belt. If the controller reads **SEAT BLT** when seat belt is unbuckled and clears when seat belt is buckled, the wiring connections and switch are good.
2. If the reading does not change, replace the seat belt.

OCCUPIED:
There may be a load or occupant on the platform when the controller **(FIG. 94-1)** looks for a pressure reading that indicates a load/occupant on the platform (50+ lbs).

Corrective action:

1. Remove load or occupant from the platform.
2. If there is no load or occupant, go to diagnostic mode on the controller **(see DIAGNOSTICS)** and check the hydraulic system pressure reading (PSI). It should read between 170PSI to 230PSI. If reading is not within range, change the pressure transducer.
3. If the controller **(FIG. 94-1)** still reads **OCCUPIED**, replace the controller.

ANG SEN:
The controller is not receiving a signal from the angle sensor (ILAPS switch).

Corrective action:

1. Check for disconnected or damaged ILAPS switch wiring.
2. Check for loosened ILAPS switch mounting plate and shaft connection.
3. If wiring is okay and switch is mounted tight, replace ILAPS switch.

PSI SEN:
The pressure transducer reading is not within 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. Ensure pressure transducer wiring is not routed next to the electric motor or wiring that carries high-current.

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NOTE: Battery isolator devices, in the power supply circuit for the Lift, can drop enough voltage to produce a fault reading on the controller. MAXON recommends that a battery isolator should not be used in the power supply circuit for the Lift.

LOW BAT:
Battery voltage is below 12.2 volts. Controller allows the Lift to operate until battery voltage drops below 11.9 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 voltage is below 11.9 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.

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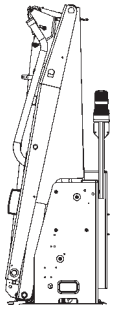
DIAGNOSTIC MODE

⚠ CAUTION

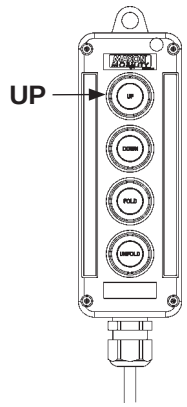
Leaning on any part of the Lift while doing this procedure could result in personal injury and affect some of the diagnostic readings on the controller.

To display diagnostic readings on the controller:

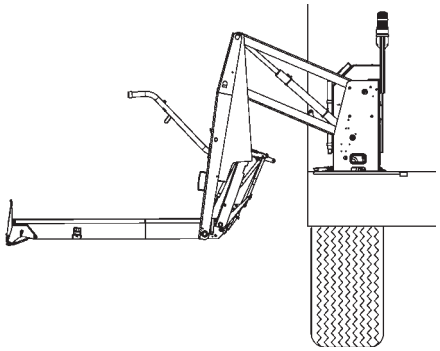
- If the platform is positioned above floor level **(FIG. 100-1)**, press the **UP** button on the hand pendant **(FIG. 100-2)** rapidly 11 times.



PLATFORM ABOVE FLOOR LEVEL (STOWED)
FIG. 100-1

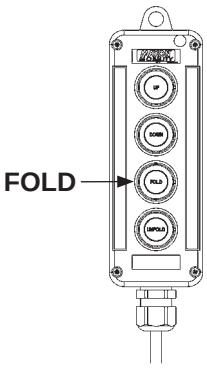


HAND PENDANT
FIG. 100-2



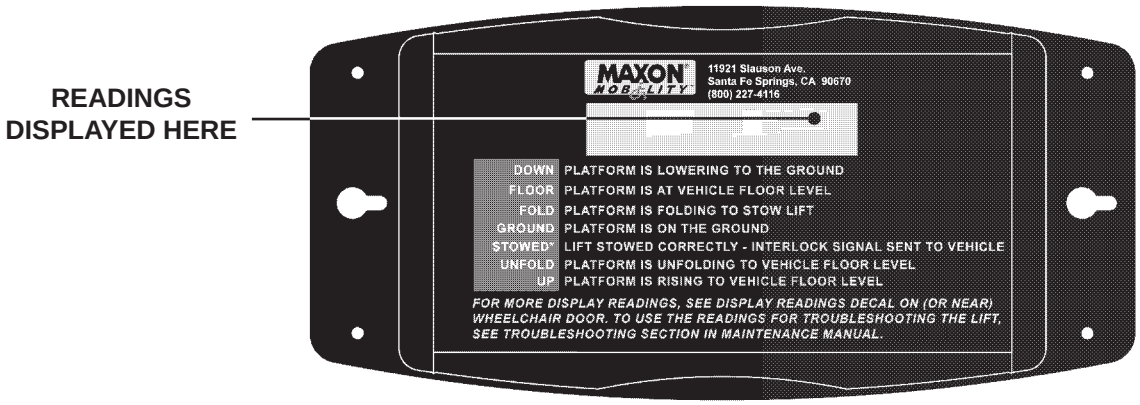
PLATFORM BELOW FLOOR LEVEL
FIG. 100-3

- If the platform is positioned below floor level **(FIG. 100-3)**, press the **FOLD** button on the hand pendant **(FIG. 100-4)** rapidly 11 times.



HAND PENDANT
FIG. 100-4

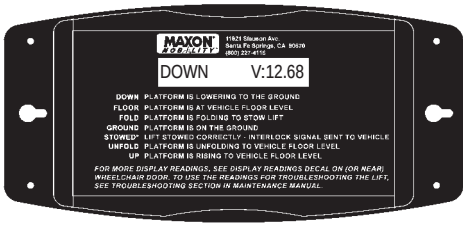
Once the diagnostic readings appear on the controller **(FIG. 101-1)**, you can scroll through the readings. If you pushed the **UP** button to get to the diagnostic mode, use the **UP** button to scroll through the readings. If you pushed the **FOLD** button to get to the diagnostic mode, use the **FOLD** button to get to the diagnostic mode, use the **FOLD** button to scroll through the readings.



LIFT CONTROLLER DISPLAY
FIG. 101-1

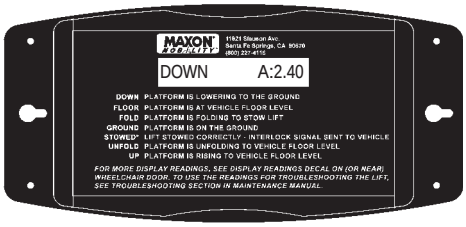
The controller **(FIG. 101-1)** will display the following readings. Push the button once for each reading.

1. Battery voltage **(FIG. 101-2)**.



EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 101-2

2. Lift current **(FIG. 101-3)**.



EXAMPLE CONTROLLER
DIAGNOSTIC READING
FIG. 101-3

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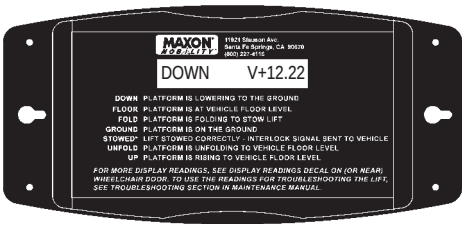
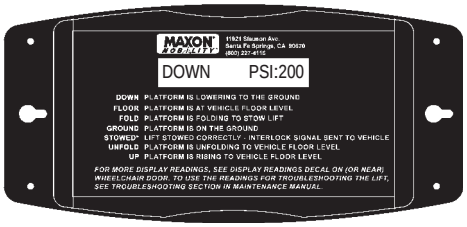
3. Internal volts **(FIG. 102-1)**.



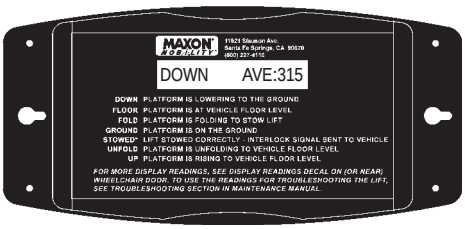
EXAMPLE CONTROLLER DIAGNOSTIC READING FIG. 102-1

4. Hydraulic pressure **(FIG. 102-2)**.



EXAMPLE CONTROLLER DIAGNOSTIC READING FIG. 102-2

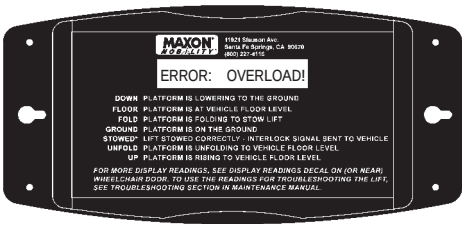
5. Average pre-fold pressure **(FIG. 102-3)**.



EXAMPLE CONTROLLER DIAGNOSTIC READING FIG. 102-3

ELECTRICAL OVERLOAD ERRORS

Electrical overload error codes are not displayed when the controller is in diagnostic mode. They are only displayed on the controller when an electrical 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. The controller display will show which Lift function was operating at the time of the electrical overload. The controller display will flash between **ERROR: OVERLOAD! (FIG. 103-1)** and an 11-digit code (i.e. 00100000000) **(see FIG. 103-2 & TABLE 103-1)**. A “1” in the output code means that a specific function was on when the electrical overload occurred, and “0” means that a specific function was off when the electrical overload occurred.



EXAMPLE CONTROLLER ERROR CODE READING FIG. 103-1

EXAMPLE CONTROLLER ERROR CODE READING FIG. 103-2

	ELECTRICAL OVERLOAD “ERROR” CODE READINGS ON THE CONTROLLER										
LIFT FUNCTIONS	**NOT USED**	**NOT USED**	**RAISE (UP)**	**VALVE 2 (DOWN/UNFOLD)**	**EXTRA OUTPUT**	**VALVE 1 (DOWN/UP)**	**VISUAL**	**AUDIO**	**PLATFORM LIGHTS**	**TRANSDUCER**	**UNLATCH**
CODE DIGITS	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

EXAMPLE ELECTRICAL OVERLOAD CODE SHOWN FOR RAISE FUNCTION TABLE 103-1

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DC RELAY READINGS

The DC Relay **(FIG. 104-1)** is a solid-state device for switching DC load current of up to 100 amps. Unlike a motor start switch (relay), the DC Relay uses only a few milliamps of current and has LED's to indicate normal operation or fault conditions **(FIG. 104-1 and TABLE 104-1)**. When the power switch on the Lift is turned on, it checks for power-related faults before applying power to the Lift. If a fault is detected, the DC Relay will not apply power to the Lift, and the green LED or red LED will indicate the applicable fault **(TABLE 104-1)**.

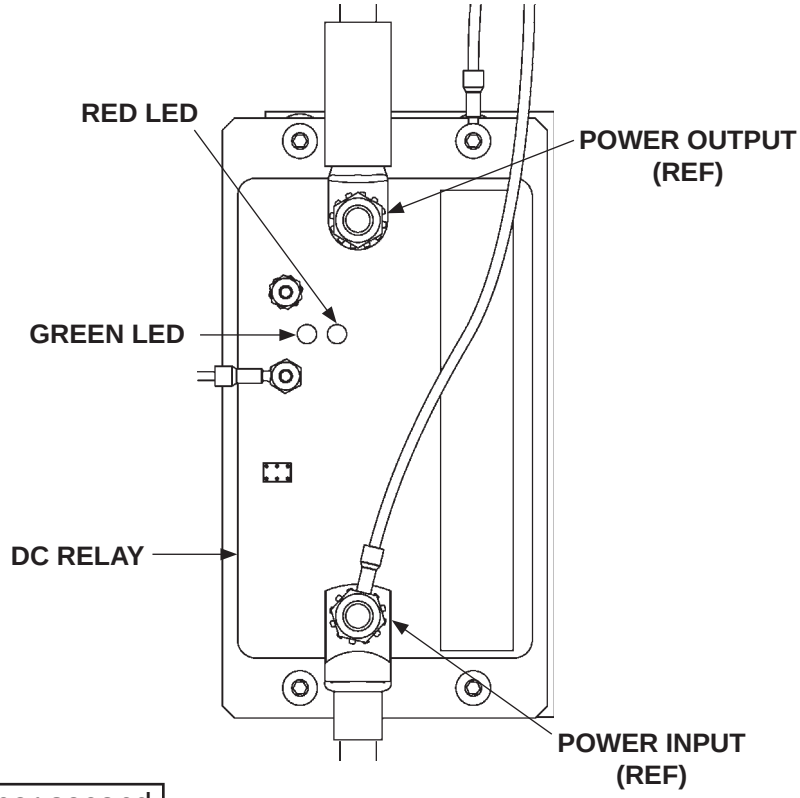

FIG. 104-1

NOTE: A fast flash is 5 flashes per second.
A slow flash is 1 flash per second.

ITEM	READING	CAUSE
1	Green LED and Red LED flash on for .5 second	Battery power is connected to input of the relay. To save power, relay enters sleep mode until power is turned on at the Lift.
2	Green LED on	Power switch was turned on at the Lift. Relay output is on.
3	Green LED flashing fast	Voltage is above 16.5 V.
4	Green LED flashing slowly	Voltage is below 8.0 V.
5	Red LED flashing fast	Over current.
6	Red LED flashing slowly	High temperature (over 100° C).
7	Red LED displays 3 short flashes	Short in FET.
8	Red LED displays 2 short flashes	Open in FET.

TABLE 104-1

SYSTEM DIAGRAMS
HYDRAULIC SYSTEM DIAGRAM

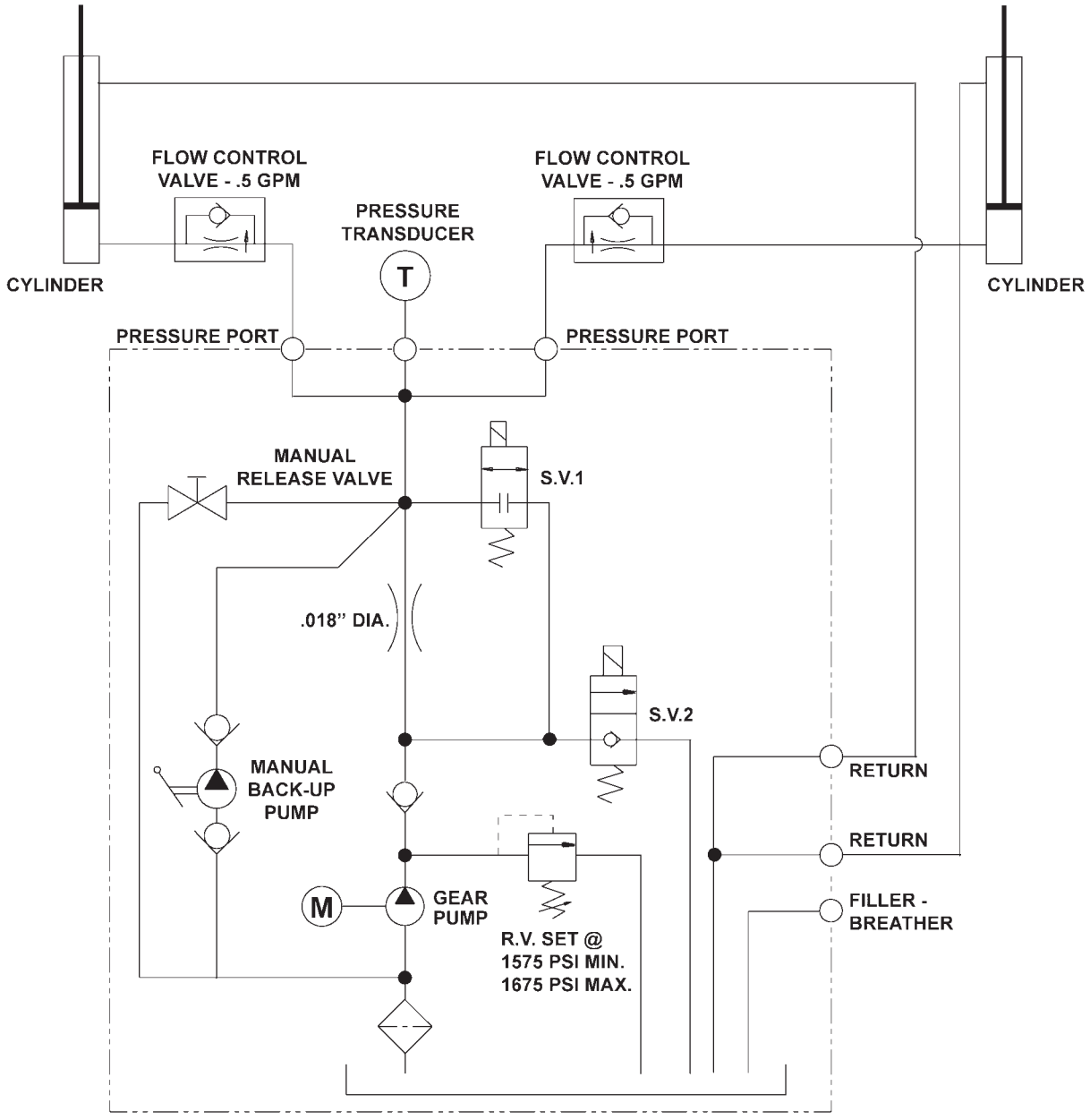

FIG. 105-1

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SYSTEM DIAGRAMS - Continued
ELECTRICAL SYSTEM DIAGRAM

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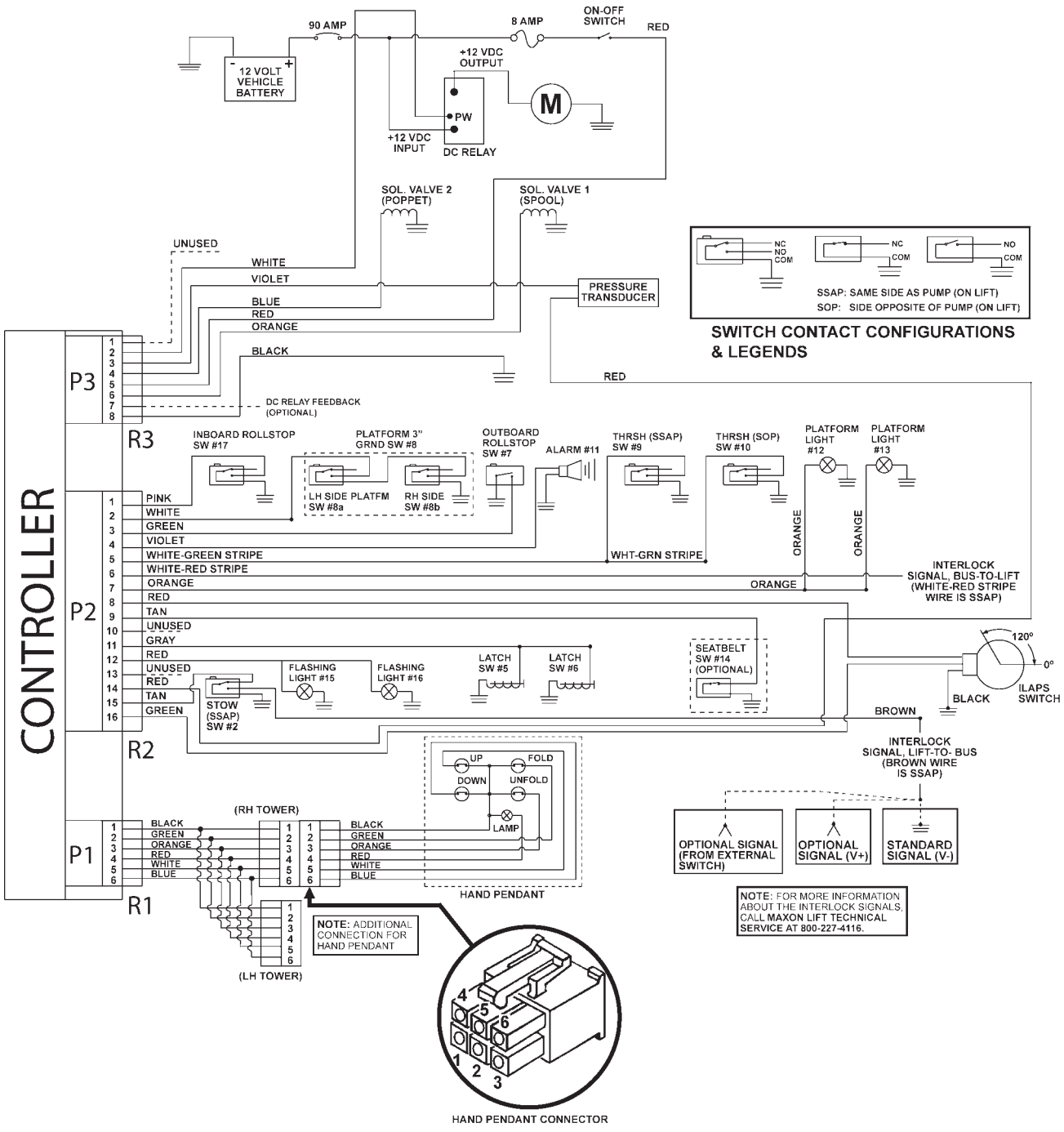

FIG. 106-1