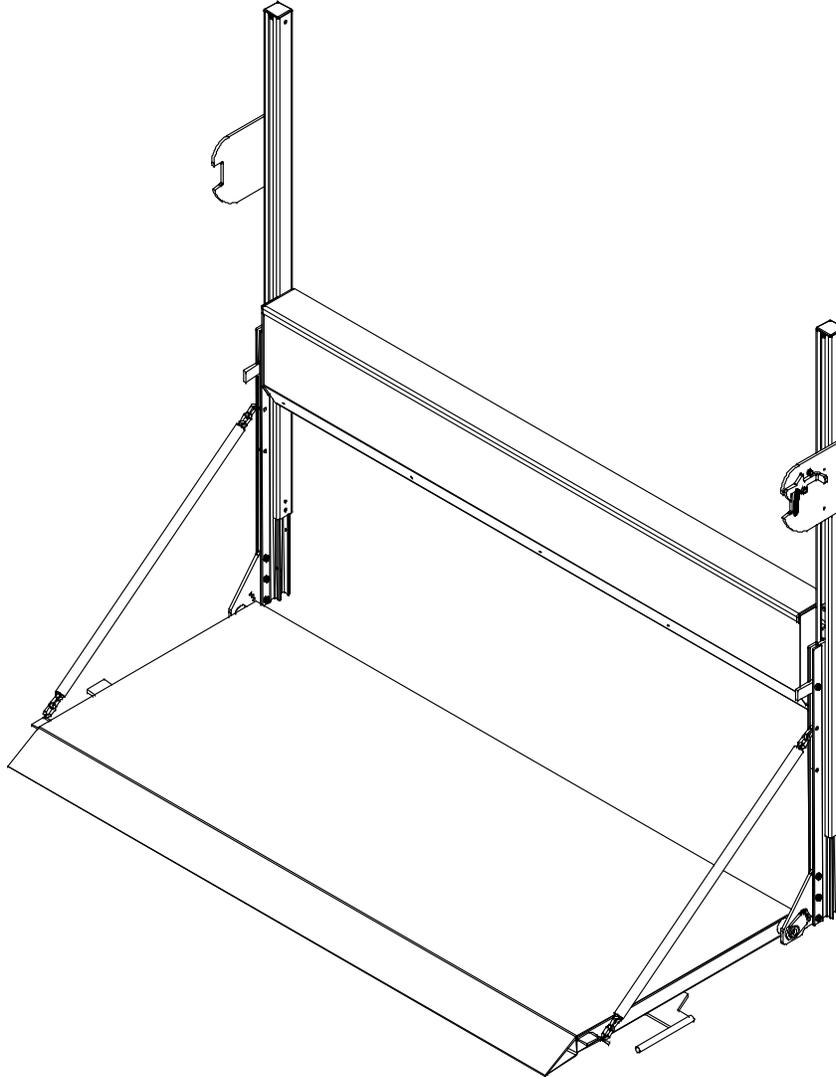


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# Tech Manual

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## MDL, DS, DT, SB



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**Waltco Lift Corp.**  
**Corporate Office United State**  
285 Northeast Ave.  
Tallmadge, OH 44278  
P: 330.633.9191  
F: 330.633.1418

**Waltco Lift Corp.**  
**United States**  
620 S Hambledon Ave.  
City of Industry, CA 91744  
P: 626.964.0990  
F: 626.964.0149

**Waltco Lift Inc.**  
**Canada**  
90 North Queen St.  
Etobicoke, ON M8Z 2C5  
P: 888.343.4550

# Table of Contents



Improper operation and maintenance of this liftgate could result in severe personal injury or death.

Read and understand the contents of the owner's manual and all warning and operation decals before operating and/or performing maintenance on this liftgate.

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# Introduction

Each Waltco liftgate is manufactured to stringent quality standards for years of reliable service. To ensure maximum performance of your Waltco liftgate, always specify and use “OEM Parts” from Waltco.

Service and repair should only be performed by an authorized Waltco distributor. For information on the nearest authorized Waltco distributor contact:

**Waltco Lift Corp.**

285 Northeast Avenue

Tallmadge, OH 44278

Phone: 800.411.5685

Fax: 800.411.5684

E-mail: [parts@waltco.com](mailto:parts@waltco.com)



This is the safety alert symbol. This manual uses this symbol to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid personal injury or death.



The use of non-standard or makeshift parts can be extremely hazardous and result in serious injury or death.

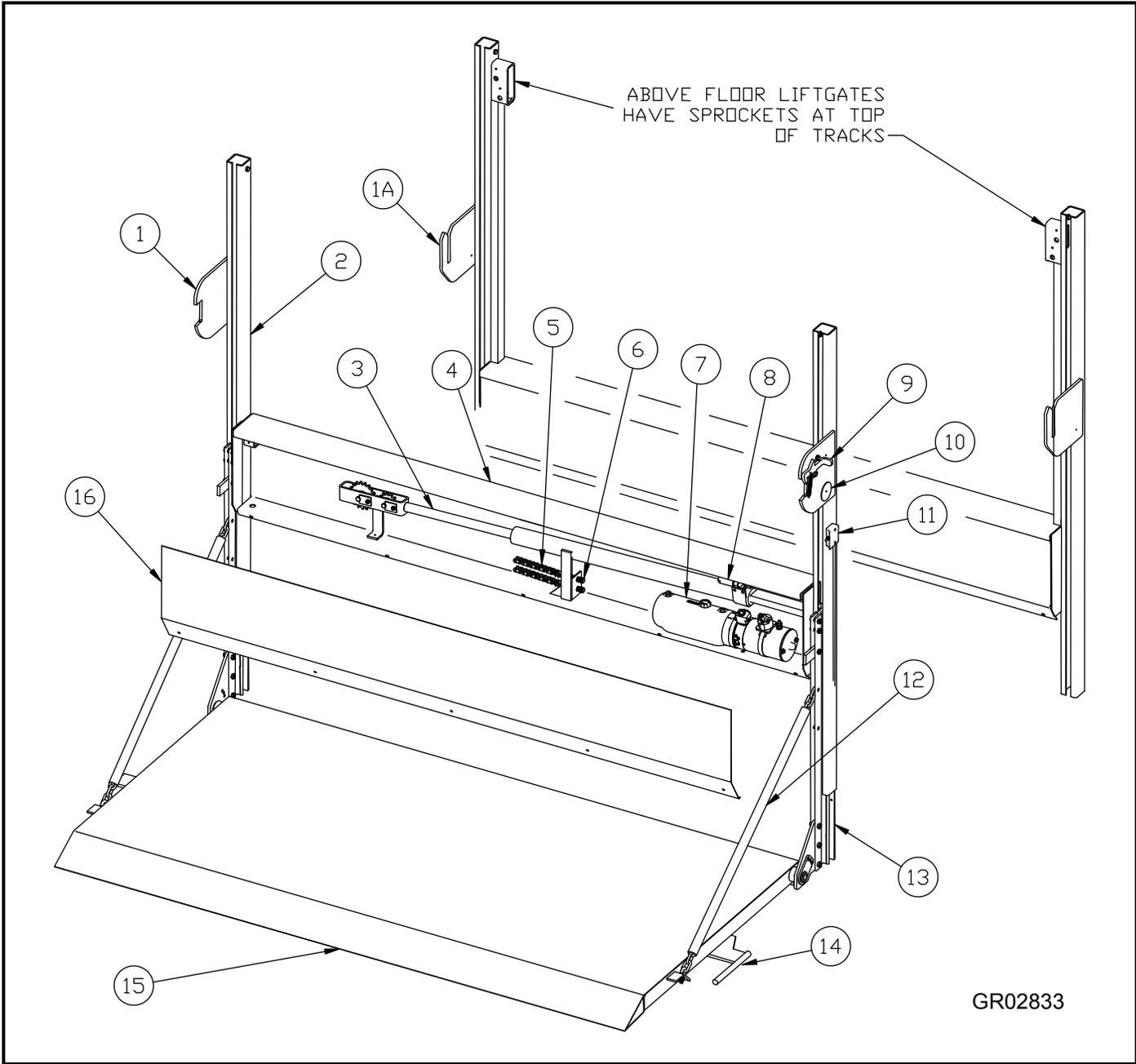


Every vehicle that has a WALTCO Liftgate must have legible WARNING AND OPERATION DECALS clearly posted on the vehicle and an OWNER'S MANUAL in the vehicle at all times as a guide for proper operation and maintenance.

# Liftgate Terminology

## TERMINOLOGY

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1. Travel Plate (Snap Lock Design)</li> <li>1A. Travel Plate (Drop-In Design)</li> <li>2. Rail (Track)</li> <li>3. Lift Cylinder</li> <li>4. Crossbeam Box (Housing)</li> <li>5. Lifting Chain</li> <li>6. Anchor Bolt</li> <li>7. Pump Unit</li> <li>8. Flow Control Valve</li> </ul> | <ul style="list-style-type: none"> <li>9. Latch</li> <li>10. Spec Tag</li> <li>11. Switch Assembly</li> <li>12. Support Chain</li> <li>13. Runner (Slider)</li> <li>14. Travel Ear and Grab Handle</li> <li>15. Platform</li> <li>16. Housing Cover</li> </ul> |
|---|--|



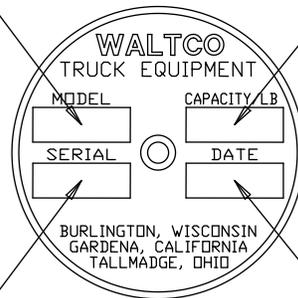
# Liftgate Terminology

## Explanation of Specification Tag

Model Name	Description	Capacity
MDL-12	Medium Duty Lift	1200 lbs.
MDL-16	Medium Duty Lift	1600 lbs.
MDL-20	Medium Duty Lift	2000 lbs.
MDL-30	Medium Duty Lift	3000 lbs.
MDLBG-16	MDL Bottle Gas	1600 lbs.
MDLBG-20	MDL Bottle Gas	2000 lbs.
DS-16	Dock Storage	1600 lbs.
DS-20	Dock Storage	2000 lbs.
DS-30	Dock Storage	3000 lbs.
SB-12	Service Body	1200 lbs.
SB-16	Service Body	1600 lbs.
DT-16	Dump Through	1600 lbs.
DT-20	Dump Through	2000 lbs.
DT-30	Dump Through	3000 lbs.

**MODEL NAME**

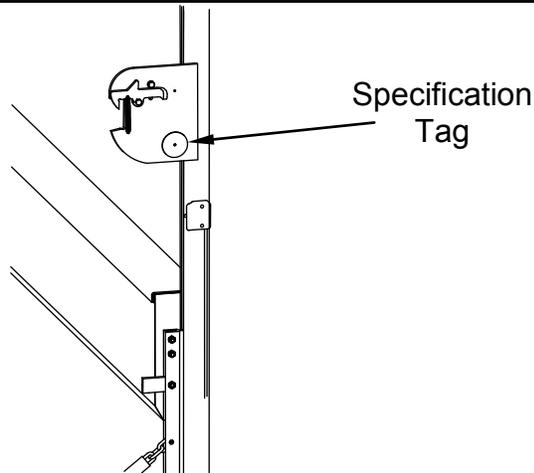
**RATED CAPACITY**  
Based on an evenly distributed load on the platform flat surface.



**SERIAL NUMBER**  
of liftgate. To be used when ordering parts or when contacting Waltco for service or warranty questions

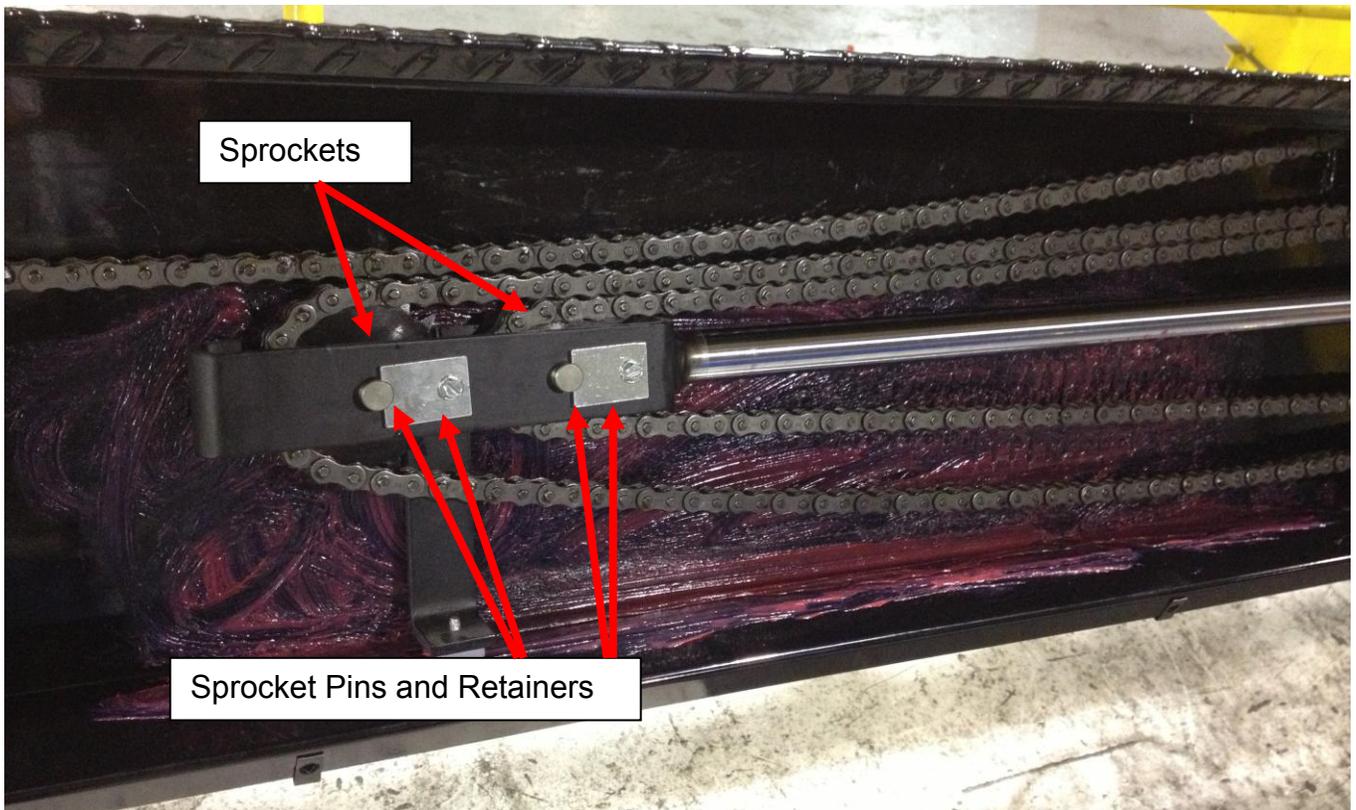
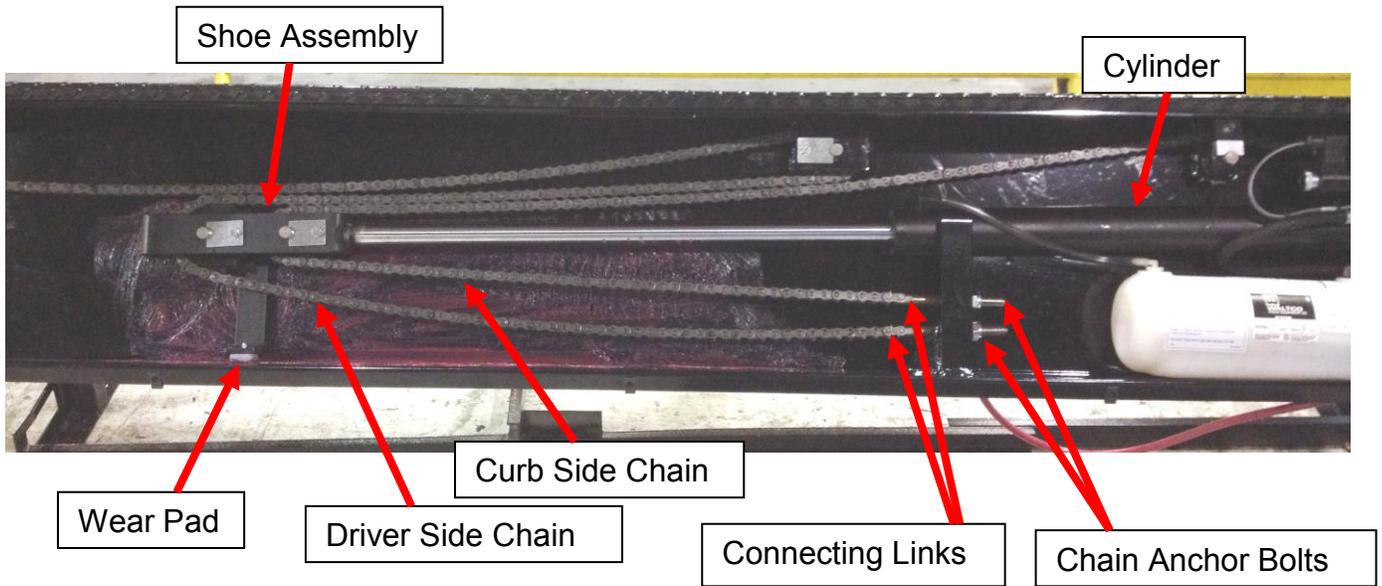
**DATE OF MANUFACTURE**  
Month / Year

GR00241

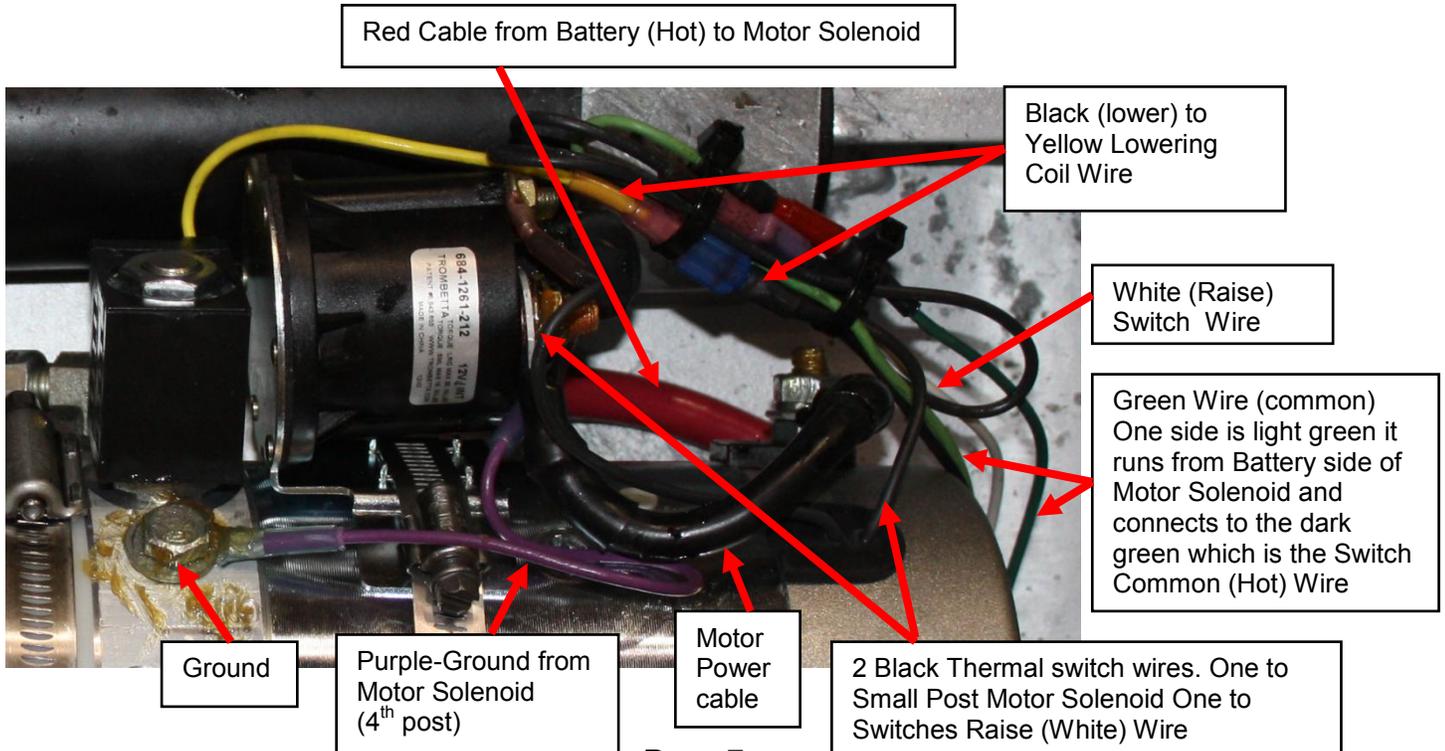
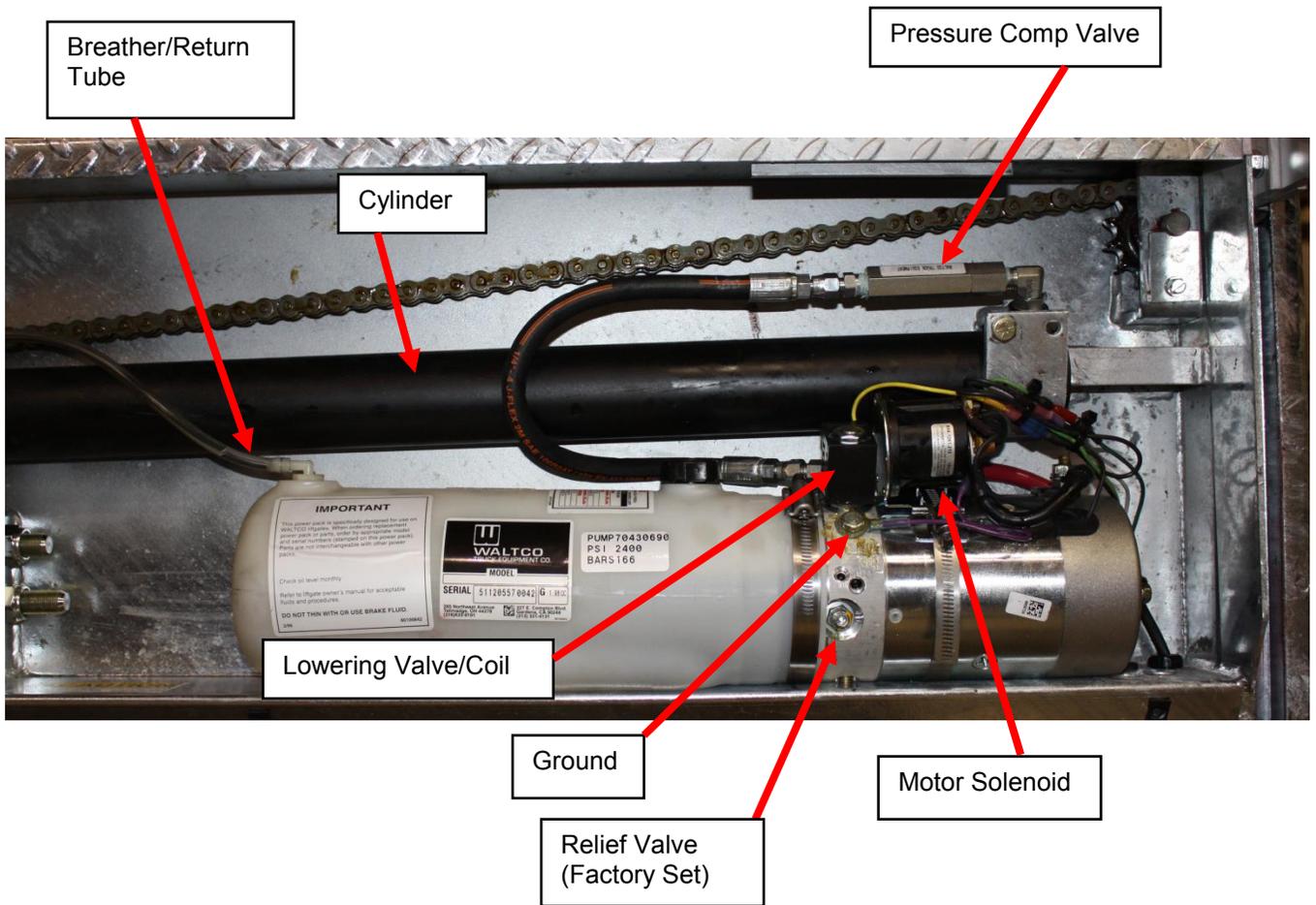


GR02834

# Cylinder Assembly

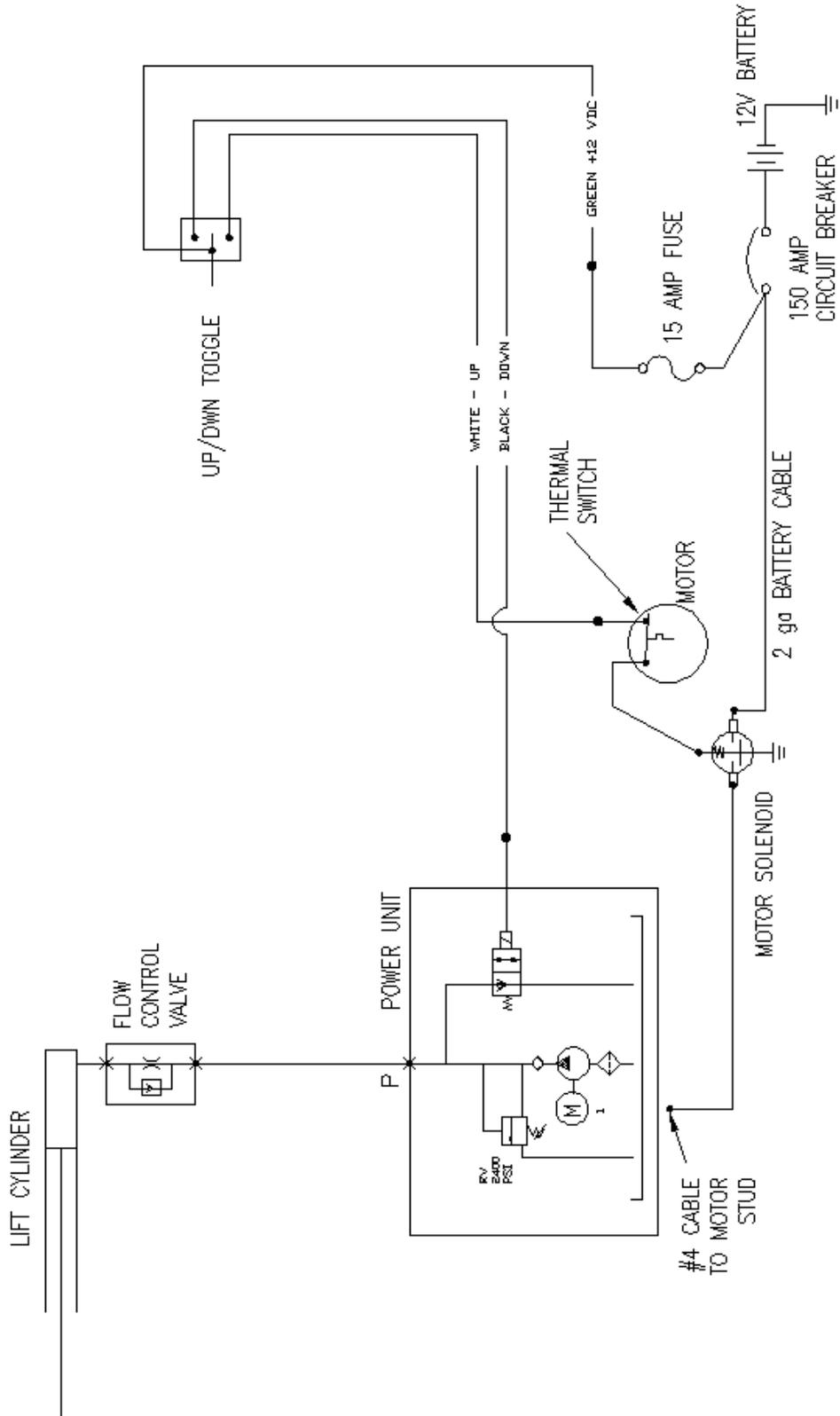


# Standard Power Unit

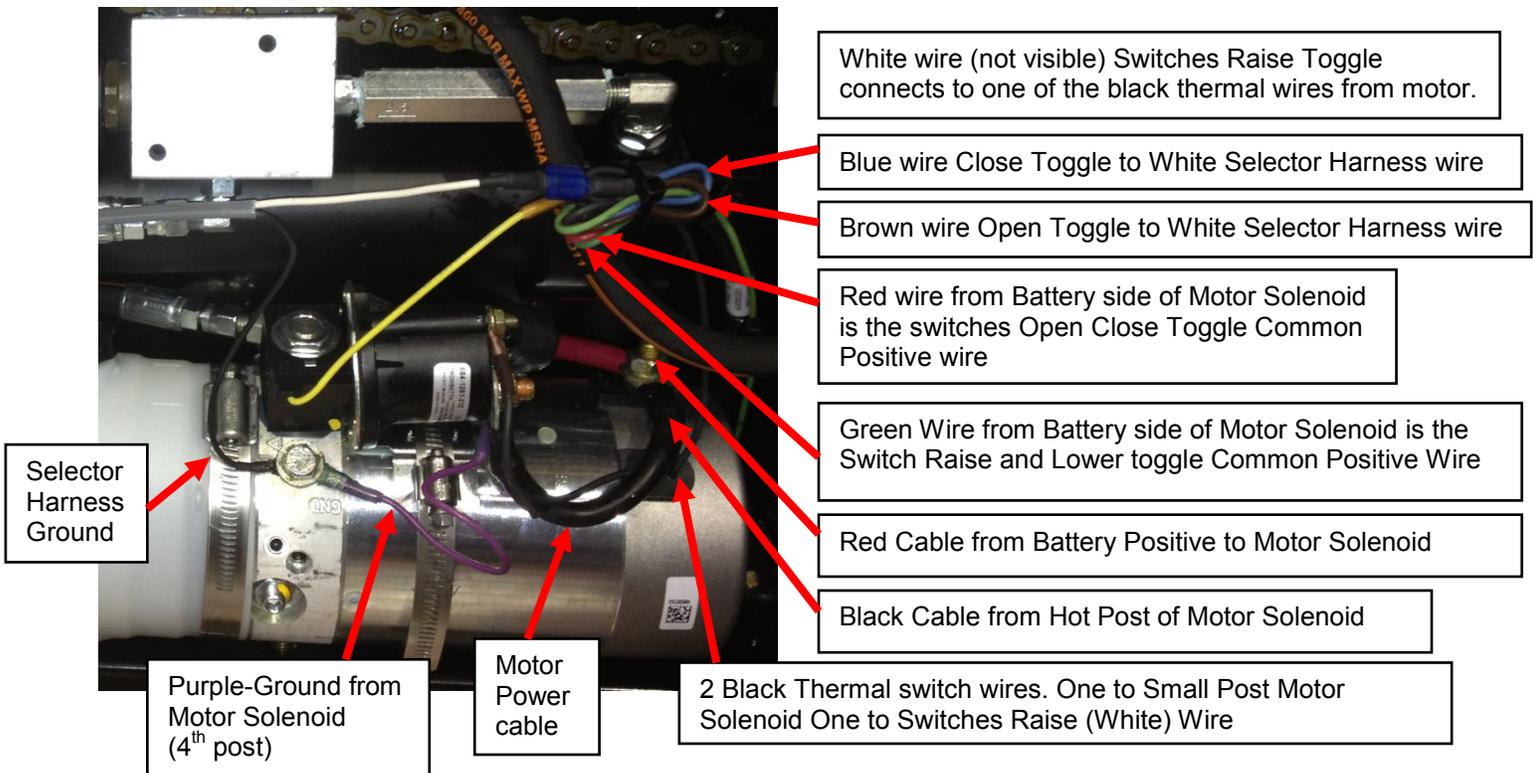
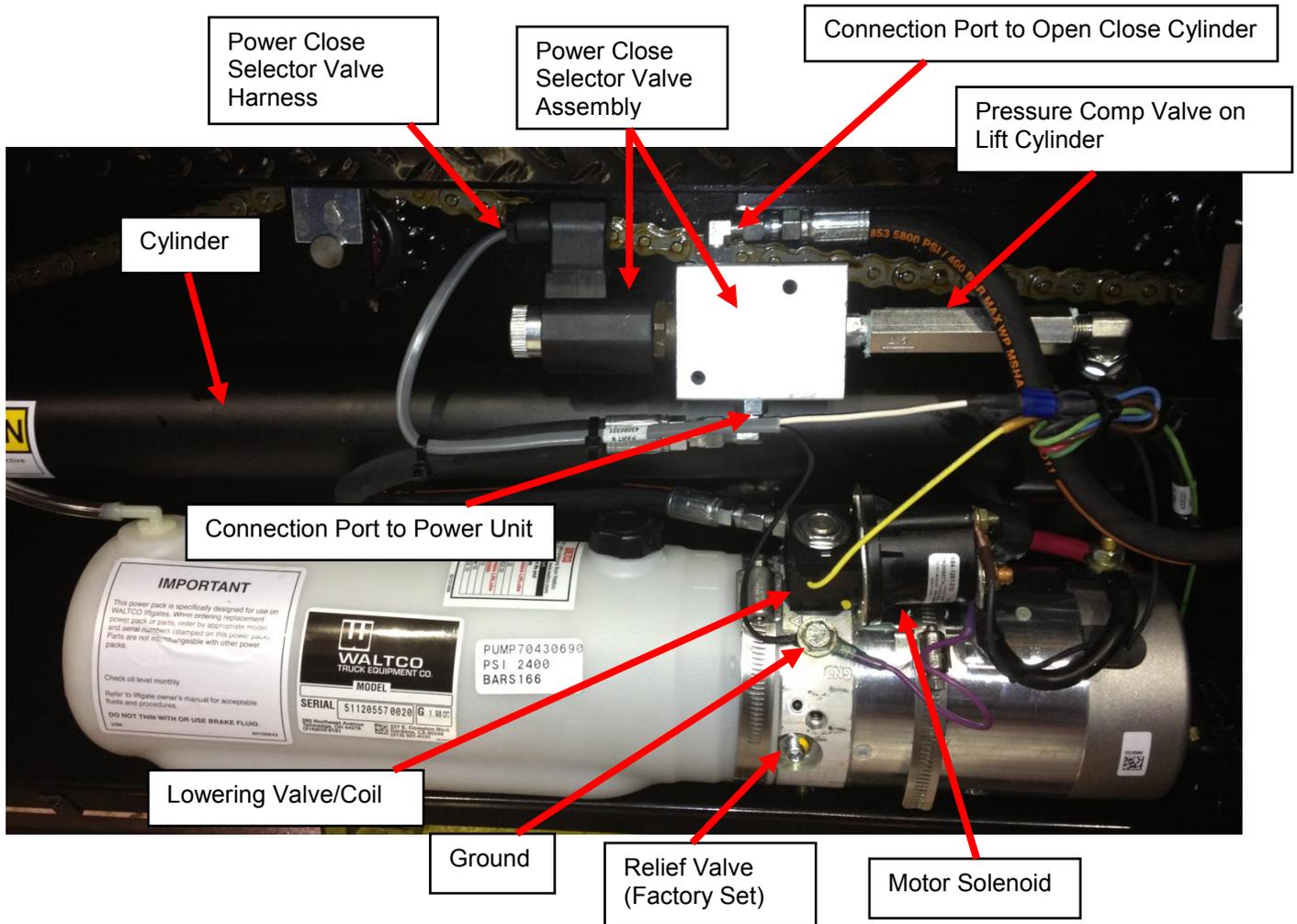


# Manual Close Electric / Hydraulic Schematics

## ELECTRIC / HYDRAULIC SCHEMATIC STANDARD

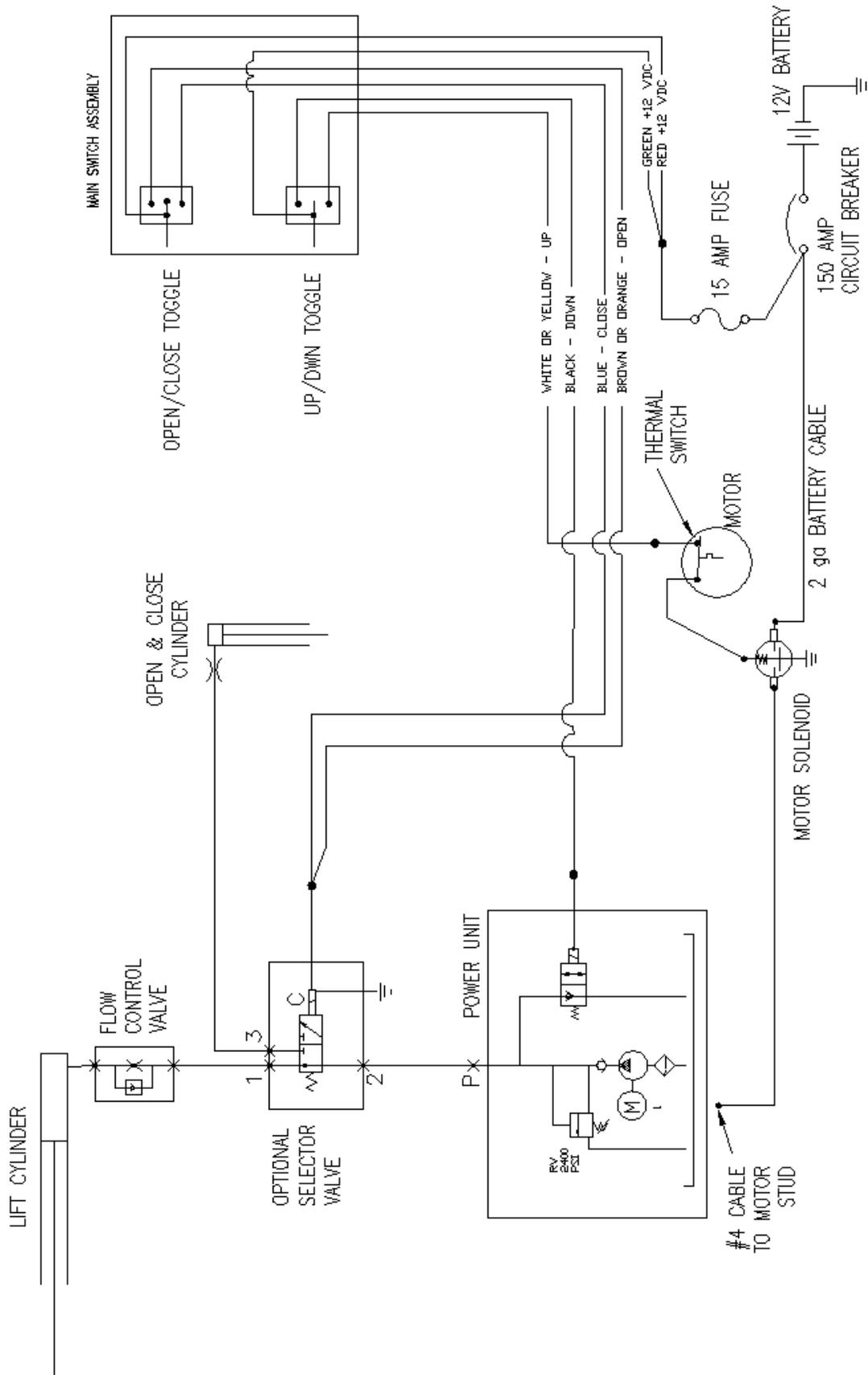


# Optional Power Close Power Unit (GOPC)



# Power Close Electric / Hydraulic Schematics

## ELECTRIC / HYDRAULIC SCHEMATIC Power Close



# Trouble Shooting Guide

## CHECKING THE OIL LEVEL IN THE RESERVOIR

The liftgate is shipped with Shell Tellus 15. Check the owner's manual for additional recommended oils. Fill as required with the specified fluid in the owner's manual. Do not overfill the reservoir.

Check the oil with the platform fully lowered on the ground. Oil should be within ½" below the top of the reservoir.

## RECOMMENDED LIFTGATE BATTERY(S)

The recommended lift gate battery(s) should be **Dual Purpose Group 31**. The battery(s) should have **650-750** cold cranking amps and at least **180** minutes of reserve capacity. When replacing the liftgate battery inspect the cables and wires for corrosion.

## LIFTGATE WILL NOT RAISE – MOTOR DOES NOT RUN

The pump motor has built in thermal protection. The thermal switch will shut the motor down if the unit exceeds 240 degrees. Once the motor cools down the switch will reset automatically.

- Check the cab shut off switch confirm that the switch is on and functional.
- Check the circuit breaker, this is located directly on the batteries
- Check the 15 amp switch fuse located in the switch wiring harness at the pump box
- Check the battery(s) for a full state of charge. Load test the lift gate battery(s). Replace any batteries that cannot be fully charged
- Check all cables and wires for shorts and poor connections. Check the cables for damages clean any dirty connections and tighten any loose connections.
- Check for voltage at the motor solenoid. Listen for a clicking noise at the motor solenoid when the raise switch is activated. If you have at least **10.5 volts** at the solenoid when the switch is activated and you have no power to the motor then replace the motor solenoid. Check the pump motor for battery voltage. Confirm by checking voltage on the motor post. If the motor does not run after confirming battery voltage at the terminal on the motor, replace the defective motor.

# Trouble Shooting Guide

## PLATFORM DOES NOT RAISE OR RAISES SLOW- MOTOR RUNS

- Check for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation. Inspect the runners and track system of the liftgate. Check for any obstructions in the path of travel.
- Check and inspect the oil level in the reservoir. Inspect for any contamination or water in fluid. Check the fluid viscosity. **See Checking the oil level in the reservoir**
- Check the battery(s) for a full state of charge. Load test the lift gate battery(s). Replace any batteries that cannot be fully charged
- Check for voltage at the motor solenoid. If you have at least **10.5 volts** at the solenoid when the switch is activated and you have no power to the motor then replace the motor solenoid. Check the pump motor for battery voltage when the raise switch is activated. If the motor does not run after confirming battery voltage at the terminal on the motor, replace the defective motor.
- Check all cables and wires for shorts and poor connections; this includes grounds and the gauge of the wire for ground. Check the cables for damages clean any dirty connections and tighten any loose connections.
- Inspect the chains and sprockets including the sections in the crossbeam box. Check for worn or broken sprockets. Make sure that the chains and sprockets are lubricated.
- Check pumps pressure from the lift port. It should be **2400 psi**.
- Check and inspect for a blocked or closed flow control valve. \*Located on the cylinder on single cylinder

# Trouble Shooting Guide

## PLATFORM WILL NOT LIFT TO FULL CAPACITY

- Check for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation. Inspect the runners and track system of the liftgate. Check for any obstructions in the path of travel.
- Check and inspect the oil level in the reservoir. Inspect for any contamination or water in fluid. Check the fluid viscosity. **See Checking the oil level in the reservoir**
- Inspect the chains and sprockets including the sections in the crossbeam box. Check worn or broken sprockets. Make sure that the chains and sprockets are lubricated.
- Check for air in the hydraulic system; bleed any air from the lift gate at the cylinder. Check for leaking hoses and lines
- Check the battery(s) for full state of charge. Replace any batteries that cannot be fully charged.
- Check pumps pressure from the lift port. It should be **2400** psi.

## PLATFORM DOES NOT LOWER OR LOWERS SLOW

- Check for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation. Inspect the runners and track system of the liftgate. Check for any obstructions in the path of travel. Make sure that the runners, chains and sprockets are lubricated.
- Check voltage on the **down valve** while the switch is activated. The voltage should be at least **10.5 volts**. Test each coil. Feel for a pulse on the valve. Test the coil (**4.5ohms**). Confirm that the valve is magnetizing. If the coil is good the valve may need to be replaced. If the coils are not getting power, check all cables and wires for shorts and poor connections. Check and inspect the switch and connections test switch.
- Check the lowering valve for contamination. Remove the valve, clean and inspect thoroughly. If the plunger does not move freely back and forth replace.
- Check and inspect the chain and sprockets on both sides of the liftgate. Check for worn sprockets, broken teeth, worn pins
- Check and inspect for a blocked or closed flow control valve. \*Located on or inside the cylinder.

# Trouble Shooting Guide

## PLATFORM TOO HEAVY TO CLOSE

### ON A MANUAL OPEN LIFTGATE PLATFORM\*

- Check for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation.
- Check for torsion bars that could be out of adjustment or broken. Inspect for any loose parts. Adjust torsion bar as needed.

## PLATFORM LOWERS ON ITS OWN

- Check and confirm that the **lowering coil** is not being activated when it is not commanded. If you find the valve is activated check the wiring for damage.
- Check the **lowering valve** for contamination. Remove the valve, clean and inspect thoroughly. If the plunger does not move freely back and forth replace.
- The cylinder may have an internal leak. Raise the platform to bed height. Inspect the cylinder for leaks around the cylinder packing or or breather tube.

## THE CIRCUIT BREAKER TRIPS

- Check for a direct short in power cable. Inspect for damaged or cut cable. Also check for improperly size battery cable.
- A defective motor may draw to much current. Check amperage draw from lift gate motor. At **700 psi** the motor should draw **80-100 amps**.
- Defective circuit breaker. If the breaker is suspected it should be replaced.

## CONTROL SWITCH FUSE BLOWN

- Check the wiring for damages, clean dirty connections and tighten any loose connections
- Check and inspect for a short in switch control wire or contacts.
- Check for defective coils on valves Check for **10.5 volts** at the coil. Test the coils (**4.5ohms**)

# Trouble Shooting Guide

## PUMP MOTOR IS GETTING HOT

- This condition may be normal if the liftgate motor experiences high cycles of operation in a short period of time without cooling. The Thermal switch will reset after the motor cools down.
- Check for low voltage. The voltage should be at least **10.5 volts** at the motor.
- Check batteries are fully charged, load test batteries. Check the cables for damages, clean dirty connections and tighten any loose connections. Check and confirm that the ground is adequate.
- Thermal switch maybe defective or bypassed. The Thermal sensor is set to activate at **240 F** degrees.

# Preventive Maintenance

Waltco recommends that the MDL, DS, DT, and SB-Series liftgates be inspected at 6 month or 3000 cycle intervals to help assure proper function and operation of the liftgate.

Note: Photocopy the following PM Checklist to help keep track of periodic maintenance on the liftgate. Keep completed form with maintenance records.

For more detailed instructions on the following checklist items, refer to the appropriate sections in this Owner's Manual.



**Do not continue to use liftgate if any points of inspection, listed below, may cause you to think the liftgate is unsafe. Repair immediately.**

**If liftgate is found to be in need of repair or adjustment not covered in this manual, contact your nearest Waltco Distributor.**

## WALTCO MDL, DS, DT, and SB-SERIES LIFTGATE PREVENTIVE MAINTENANCE CHECKLIST

PM Interval: 6 Months or 3000 Cycles      Date: \_\_\_\_\_      Vehicle No. \_\_\_\_\_

Mechanic: \_\_\_\_\_      Liftgate S/N: \_\_\_\_\_      Model: \_\_\_\_\_

Check appropriate box below for each step:

### 6 Month Liftgate PM Procedures

No.	OK	Repair Required	Corrected	Description
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check for apparent damage to the lifting structure, such as bent or distorted members or cracked welds, which may have resulted from overloading or abuse.
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check that all pins, bolts and fasteners are tight and secure.
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check for worn or damaged bearings sprockets, and roller chains.
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check that controls operate properly.
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check that cab shut-off switch cuts power to liftgate.
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check all battery cables and connections (both positive and ground cables) to be sure they are tight and free of corrosion.
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check that platform is level.
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check torsion bars and related hardware.
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check platform support chains.
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check for hydraulic leaks in hydraulic cylinder(s), hoses, fittings, and valves.
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check oil level in reservoir.
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check lowering speed of platform.
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check that all decals are in place and legible.
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lubricate the liftgate per the "Lubrication Instructions".

### 12 Month Liftgate PM Procedures (Includes steps 1-13 above)

14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspect Pump Motor for wear and/or damage.
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drain and replace Hydraulic Fluid.
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remove Sprockets and Lubricate Sprocket Bearing

# Preventive Maintenance

## MONTHLY INSPECTION

Operate the liftgate throughout its entire operational cycle. Check for:

- Damage to lifting structure such as bent or distorted members or cracked welds.
- Worn or damaged roller chain, sprockets, and bearings.
- Bent or distorted pins or damaged cylinder.
- Torsion bars are in place and properly working.
- All pivot and cylinder pins are securely in place, undamaged and retained by their proper fasteners.
- Damaged or worn bearings that pivot and cylinder pins rest in.
- Controls operate correctly (refer to chapter 3, “**Operations Instructions**”)
- Check all power cables, ground cables, and connections.
- Clean and tighten all loose connections. Replace any damaged or corroded wires or connectors.



**Do not continue to use liftgate if any points of inspection listed at left, or below, may cause you to think the liftgate is unsafe. Repair immediately.**

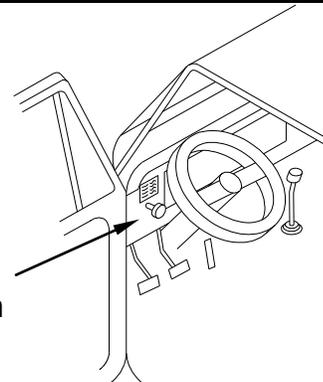
**If liftgate is found to be in need of repair or adjustment not covered in this manual, contact your nearest Waltco Distributor.**

Cab shut-off switch cuts power to liftgate.



**This cab shut-off switch is an important safety device to help prevent unauthorized use of liftgate.**

Cab Shut Off Switch



GR00379

# Preventive Maintenance

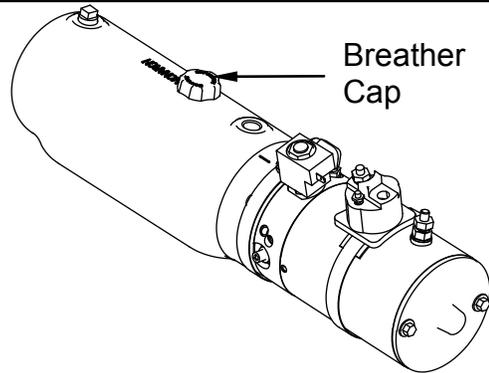
## HYDRAULICS

Inspect for oil leaks in:

- Hydraulic cylinder(s)
- Hydraulic hoses - Replace hoses if they show signs of excessive abrasion
- Hydraulic fittings and valves
- Tighten or replace all hydraulic components as may be required to stop oil leakage

## CHECK AND FILL HYDRAULIC RESERVOIR

- Lower platform to ground and remove access cover.
- Remove reservoir breather cap.
- Oil level should be 1/2" from top of reservoir.
- If low, fill as required. Use appropriate fluid per chart.
- Replace breather cap.



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### Recommended Fluids

Temperature Range	Acceptable Fluids
0° to 120° F	Waltco Biodegradable Liftlube™ part #85803860 Shell Tellus S2 V 32 Chevron AW32
-20° to 90° F	Waltco Biodegradable LiftLube Arctic part #85803866 Shell Tellus S2 V 15 Mobil DTE 13 MIL - H - 5606

A good quality SAE 10W motor oil may also be used in temperatures above 32° F.

Fill reservoir

- Fill with recommended fluid or equivalent.
- Fill the reservoir to within 1/2" from the top.
- Fluids are available from the Waltco parts Dept. 1-800-411-5685 [www.waltco.com](http://www.waltco.com)

#### NOTE:

**Do not use the following fluids:**

- Brake Fluid**
- Power steering fluid**
- Automatic Transmission Fluid (ATF)**



Waltco All Season Hydraulic Oil

Waltco Part Number 85803867

Waltco Parts Department 800-411-5685

# Preventive Maintenance

## There is no speed adjustment on this liftgate.

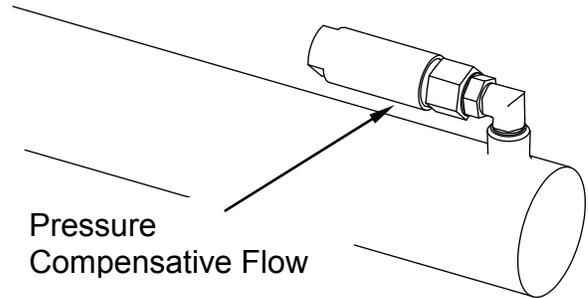
Lowering speed is controlled by the pressure compensative valve plumbed at the cylinder.

Regardless of weight on platform, liftgate should lower at approximately six (6) inches per second.

$$\frac{\text{Bed Height (inches)}}{6} = \text{Lowering Time (seconds)}$$



**This liftgate must have the correct pressure compensative valve install:**



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## INSPECT DECALS AND LUBRICATE LIFTGATE

Inspect all decals per Chapter 5 of this manual.

Replace any that are missing or damaged.

Lubricate liftgate per Chapter 6 of this manual.

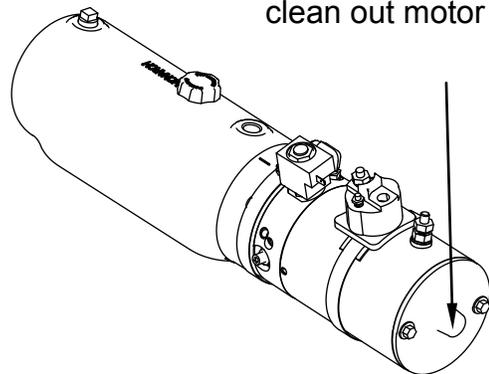
## ANNUAL INSPECTION

Inspect power motor:

- Disconnect battery cable.
- Remove end cover.
- Examine armature brushes for wear (Motor should be replaced if less than 1/8" long).
- Clean out all residue from inside of motor housing.
- Apply several drops of light weight machine oil to armature shaft bearing in motor end cover.
- Reassemble motor.

Drain hydraulic fluid and replace with new fluid per recommended fluids chart.

Remove cover to check brushes and clean out motor



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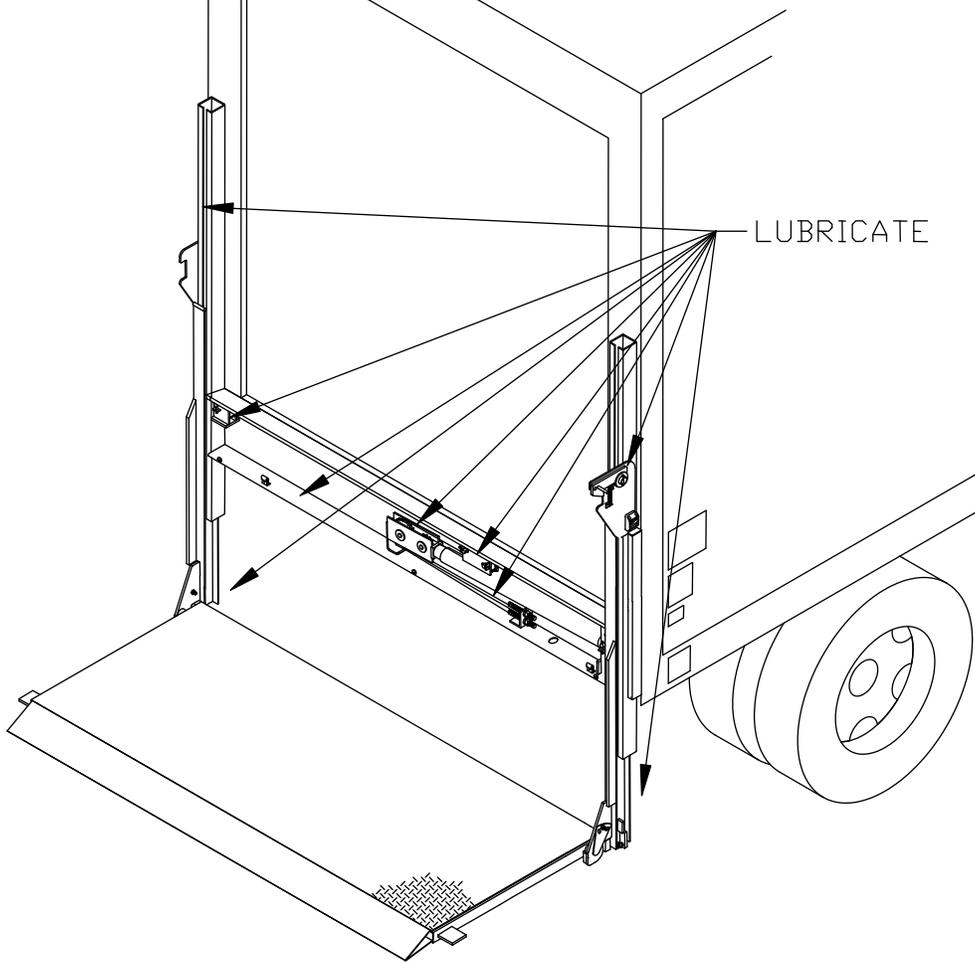
# Lubrication Instructions

- Lubricate lifting chains including sections in crossbeam box, rails, & runner assemblies with machine oil or motor oil.
- Lubricate latch, inside rails, crossbeam box, and platform hinges with machine oil or motor oil.
- Lubricate driver and passenger side tracks.

Suggested Minimum Lubrication Schedule (in days)			
Monthly Cycles	Light Duty	Medium Duty	Heavy Duty
< 250	45	30	21
250 – 350	30	21	14
350 – 450	21	14	7
> 450	Contact Factory		

- Lubricate every 30 days if cycles are unknown

Note: Annually remove, inspect, and grease sprocket bearings.



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# Platform Adjustment

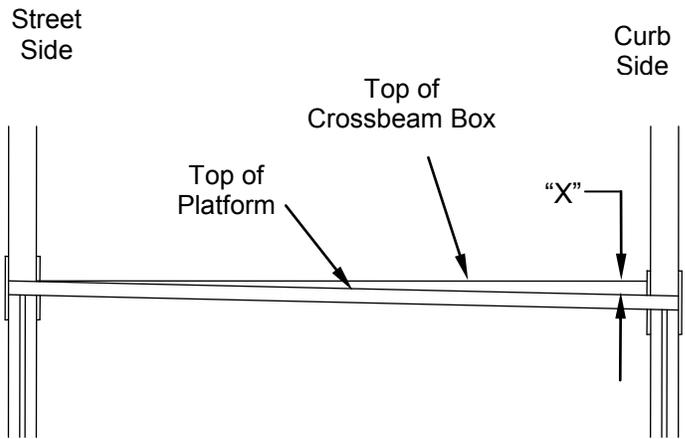
## PLATFORM ADJUSTMENT

Unfold and raise platform to bed level and check for:

1. If platform travels more than  $\frac{1}{4}$ " above the top of the crossbeam box, and liftgate is not an Above Floor model liftgate, see below for adjustment.
2. If platform is uneven see below for adjustment.

Lower platform to ground. Remove housing cover from crossbeam box.

Note: Remove Positive lead form Battery



If liftgate is Above Floor model:

- Adjust as required to level platform.

If liftgate is not an Above Floor model:

- Adjust platform so it is level with top of crossbeam box.



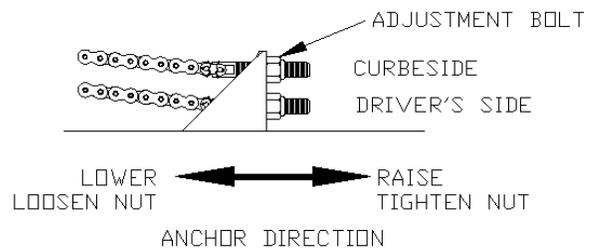
**For non-Above Floor liftgates, never adjust platform to travel more than  $\frac{1}{4}$ " above the crossbeam box.**



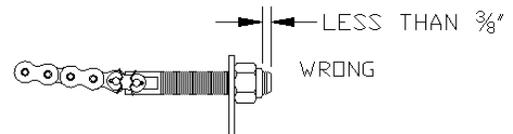
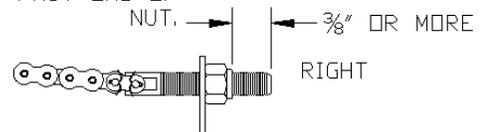
**Never adjust nut out less than  $\frac{3}{8}$ " from end of anchor bolt.**



**Never have any part of your body underneath the platform while making adjustments.**



$\frac{3}{8}$ " MINIMUM OF  
THREADED ROD  
MUST EXTEND  
PAST END OF  
NUT.



## ABOVE FLOOR TRAVEL

If above floor travel is to be reduced, additional links will need to be added to the lifting chains.

If additional above floor travel is desired, contact Waltco for assistance. Ability to increase travel varies with each specific model of liftgate and bed height of vehicle.

# Above Floor Platform Adjustment

## ABOVE FLOOR TRAVEL ADJUSTMENT

**This Tech Tip covers models: MDL, DS, SB, and PTN**

This Tech Tip covers how to obtain additional platform travel above floor. There are several limitations that have to be considered when adjusting this travel. They include bed height of vehicle, liftgate model, platform size, maximum cylinder stroke, length of tracks (rails) and sliders (runners). Each model will have its own limitations.

Increased travel above floor is accomplished by removing links from the lifting chains. The removal of each link will increase travel above floor 1-1/4". This will also decrease the downward travel of the platform by the same amount.

**IMPORTANT:**

**Never adjust travel so the sliders (runners) extend out past the top of the tracks (rails). This could lead to liftgate damage.**

**MDL-12** Factory setting 11" Above Floor Travel

Bed Height	Number of links to remove	Additional travel	Approximate Total travel above floor
44" – 46"	0	0	11"
42" – 44"	1	1-1/4"	12"
40" – 42"	2	2-1/2"	13"
38" – 40"	4	5"	15"
36" – 38"	6	7-1/2"	17"
30" – 36"	7	8-3/4"	19"

**MDL-16, MDL-20, MDL-20, and DS** Factory setting 11" Above Floor Travel

These liftgates can not be adjusted for any additional travel.

**SB** Factory setting 7" Above Floor Travel

These liftgates can not be adjusted for any additional travel.

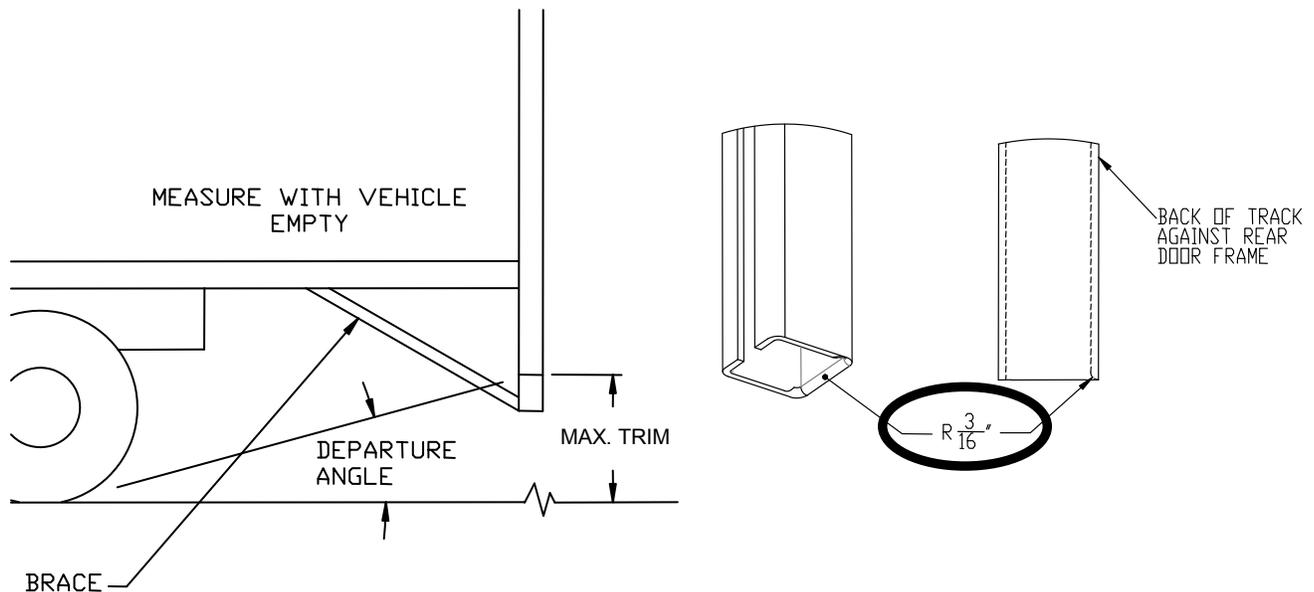
**PTN** Factory setting 9" Above Floor Travel

Bed Height	Number of links to remove	Additional travel	Approximate Total travel above floor
38"	0	0	9"
36" – 37"	1	1-1/4"	10"
25" – 36"	2	2 1/2"	11"

# Runner Bearing Wear / Replacement

## Common Factors that can damage runner bearings

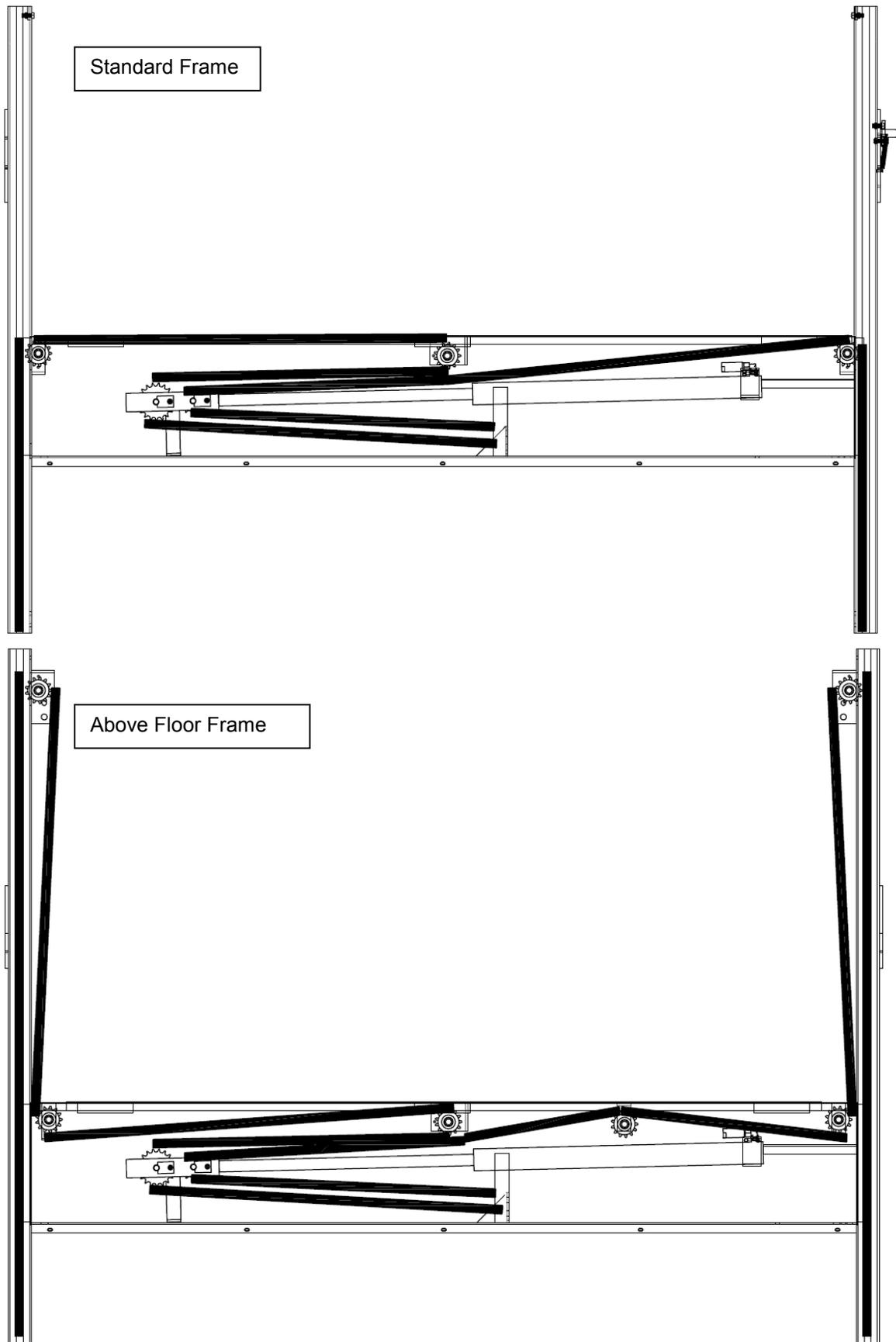
- Rails trimmed too short, Max Trim would be 15" for SB and MDL 12 Models, all other Models are 20"
- Rail Bottom dressed incorrectly, must be rounded 3/16" inside radius
- Platform loaded incorrectly or overloaded
- Physical damage to the bottom of the runners compromising the 3/16" inside round over.



## Wear Pad Replacement Procedure (summary)

- Store Platform in Transit Latches
- Relieve torsion
- Remove Platform
- Disconnect Connecting Links on Chain
- Remove Runners by sliding out the top of rails
- Remove and replace Wear Pads

# Chain Routing Guide



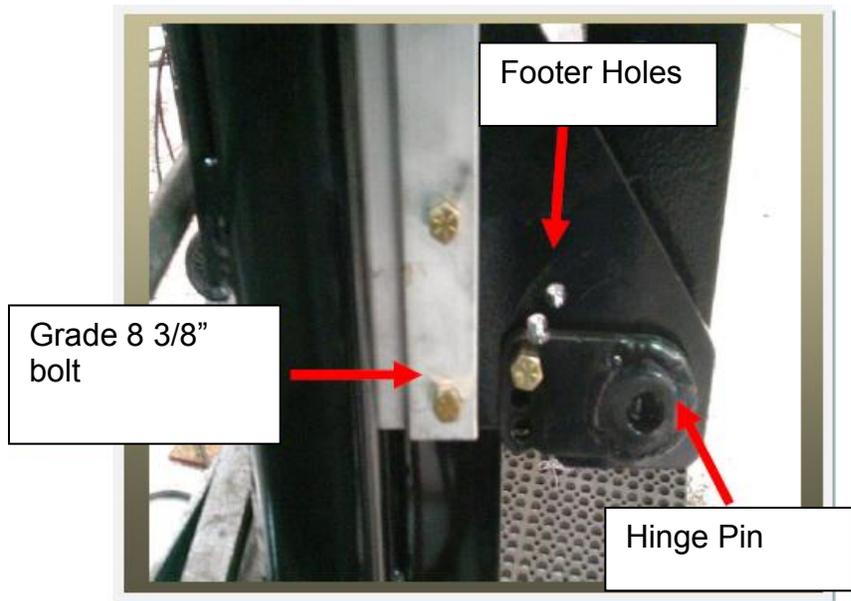
# Torsion Bar Adjustment

## MDL Torsion bar adjustment procedure\*

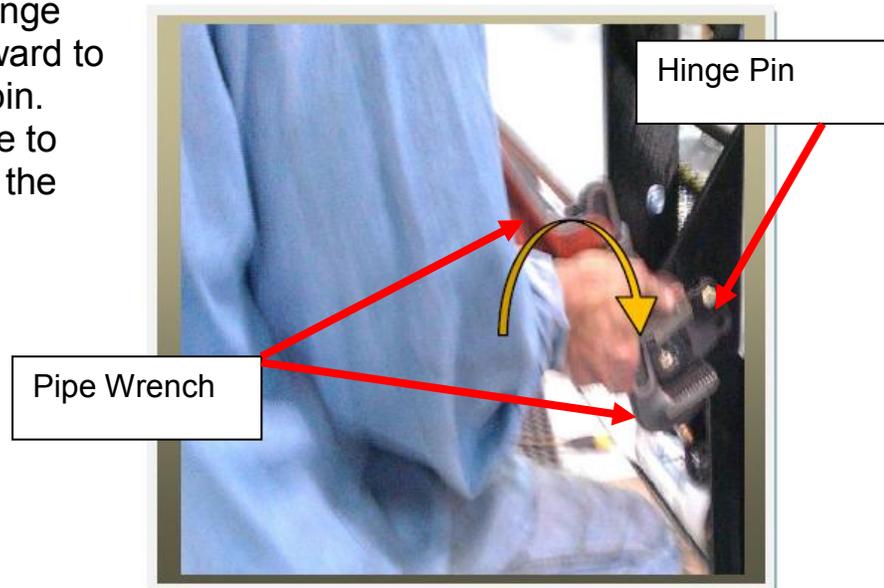
1. Close the platform. Make sure that the platform is stored in the snap lock or travel plate. Make sure that the platform is supported.
2. Place the pipe wrench over the hinge pin assembly. Loosen the nuts on the 3/8 bolts on the roll pin while holding forward pressure on the pipe wrench. Do not remove the bolt.

### Caution!

Hinge Pins and Locking Tabs holding Torsion Bars are pre loaded with torque and will turn to vertical position quickly when retaining bolt is removed



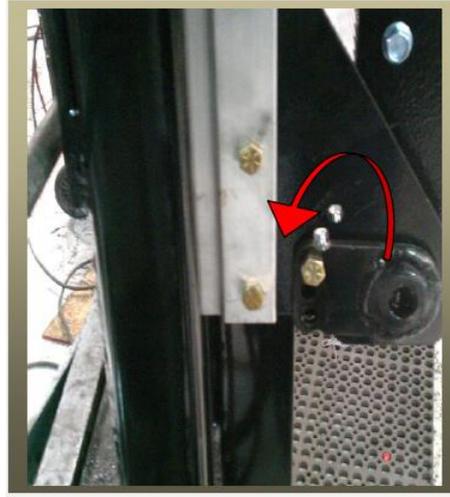
3. With the pipe wrench over the hinge pin assembly force the wrench forward to increase the tension on the hinge pin. Remove the bolt. Increase the force to align the bolt hole with the holes in the slider foot at the next opening.



# Torsion Bar Adjustment

## Caution!

Hinge Pins and Locking Tabs holding Torsion Bars are pre loaded with torque and will turn to vertical position quickly when retaining bolt is removed

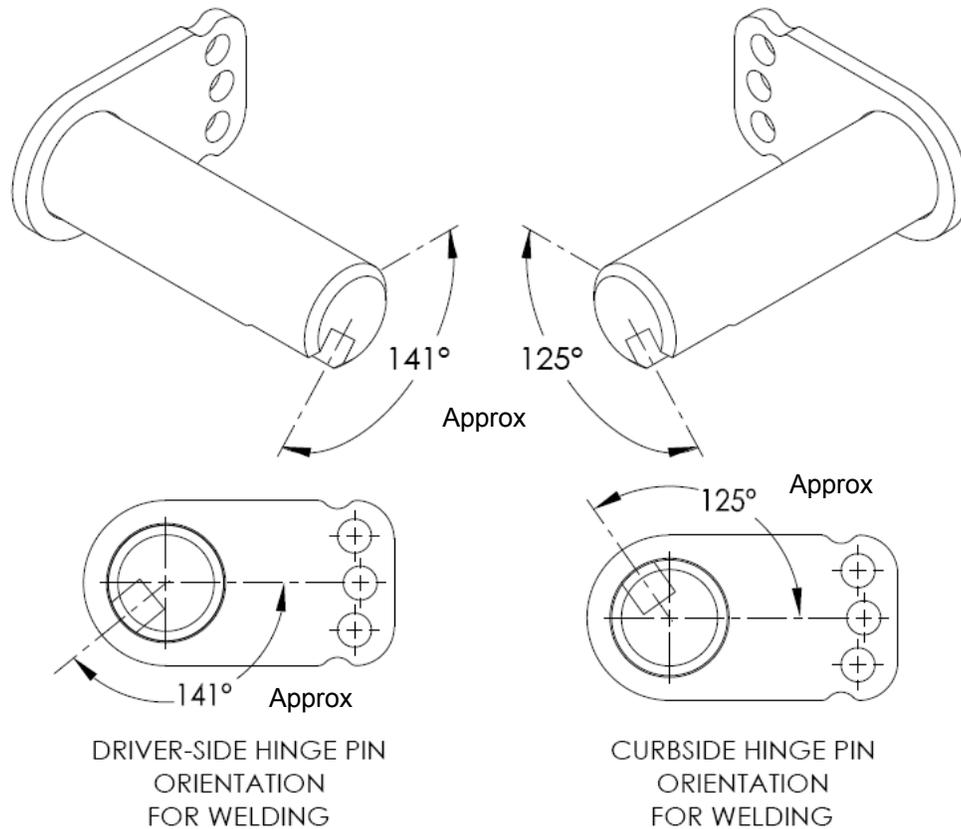


**NOTE: Advancing the bolt down increases the tension of the platform**

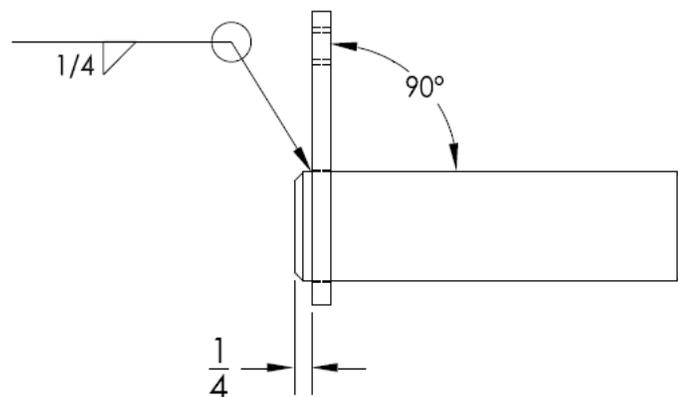
4. Reinstall the nut on the 3/8 bolt and tighten the bolt.
5. Carefully open and close platform. If strength required to close is acceptable, then lower platform about 2 feet and close it. Then **carefully** raise the platform, because it could open on its own, until it goes into the snap lock or goes over top of the travel plate( in the case of above floor travel) If it does open on its own, then the torsion bar with the least amount of tension on it needs more tension. Put platform in stored position and adjust the tension as stated above. If the platform does not open on its own, then the torsion bars are correctly adjusted.

# Hinge Pin Welding

## TORSION BAR HINGE PIN WELDING INSTRUCTIONS



Shown above is the typical notch orientation of the curbside and driver-side torsion bar hinge pins. Follow the pictorial below to position the pin  $1/4$ " at  $90$ -degree and apply a few heavy tack welds in order to first test that the set notch orientation provides sufficient torsion to assist in both closing the platform and keeping the platform from opening when in the vertical position. Once confirmed apply  $1/4$ " weld 100% as shown.



# How To Order Parts

**Repairs should be made only by authorized mechanics using WALTCO Replacement parts.**

When ordering repair or replacement parts, please include all the information asked for below. If this information is not available, a complete written description or sketch of the required part will help WALTCO identify and deliver the needed part to you.

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## THE FOLLOWING INFORMATION MUST BE INCLUDED:

1. SERIAL NUMBER - [WALTCO liftgate serial numbers can be found on the Specification Tag attached to the mount frame.]
2. MODEL NUMBER
3. CAPACITY
4. PLATFORM SIZE

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## THEN INCLUDE THE FOLLOWING INFORMATION:

5. PART NUMBERS
6. DESCRIPTION
7. QUANTITY REQUIRED

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## MAIL, E-MAIL OR PHONE YOUR REQUEST TO:

**Waltco Lift Corp**  
285 Northeast Avenue  
Tallmadge, OH 44278  
1-800-411-5685  
FAX: 1-800-411-5684  
E-MAIL: [parts@waltco.com](mailto:parts@waltco.com)

**ALL PARTS ARE F.O.B. FROM THE SHIPPING FACTORY**

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## PLEASE NOTE:

To assure you of continuing and effective quality control, our warranty policy permits replacement of hydraulic cylinders, valves and motor pump units when their factory seals are intact. Parts under warranty will be exchanged promptly after careful inspection of the returned assemblies.

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# Notes