



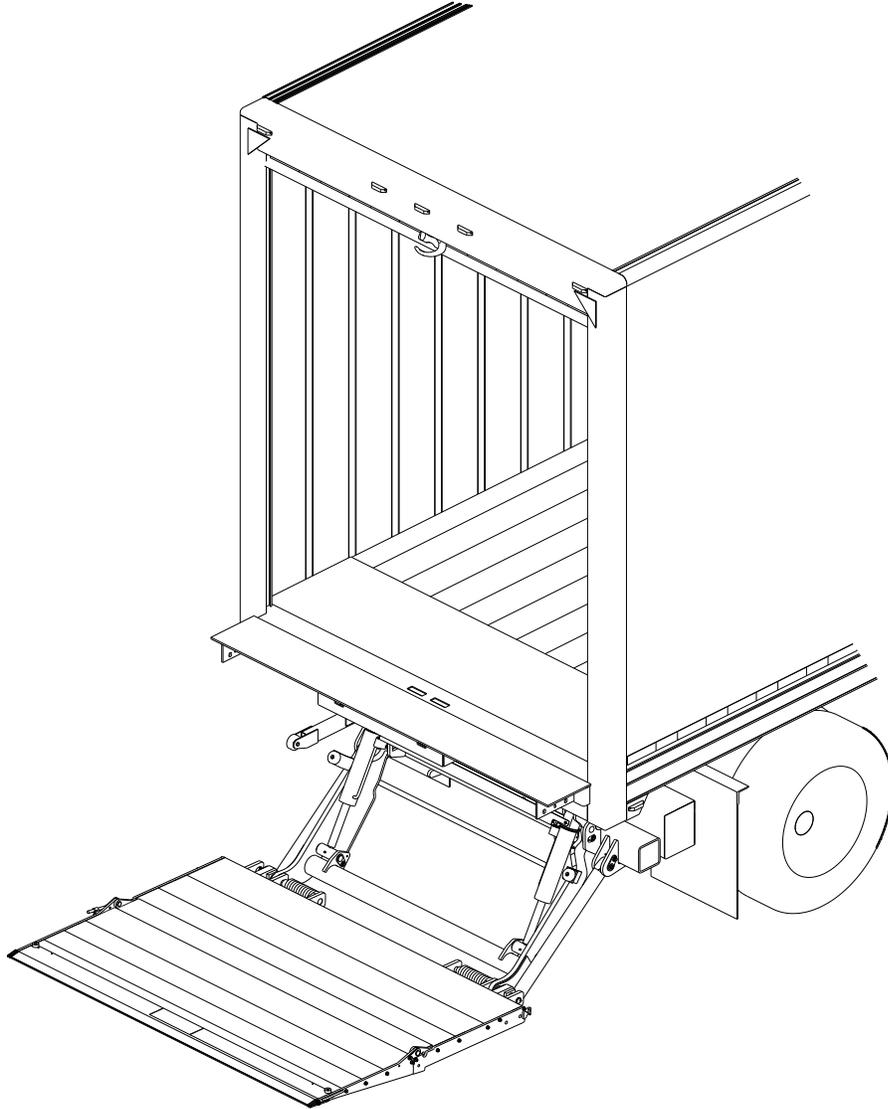
WALTCO

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Tech Manual

HLF-2500, 3000, 4000, 5000



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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.

This manual does not provide procedures for the servicing and repair of Waltco liftgates. 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



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.

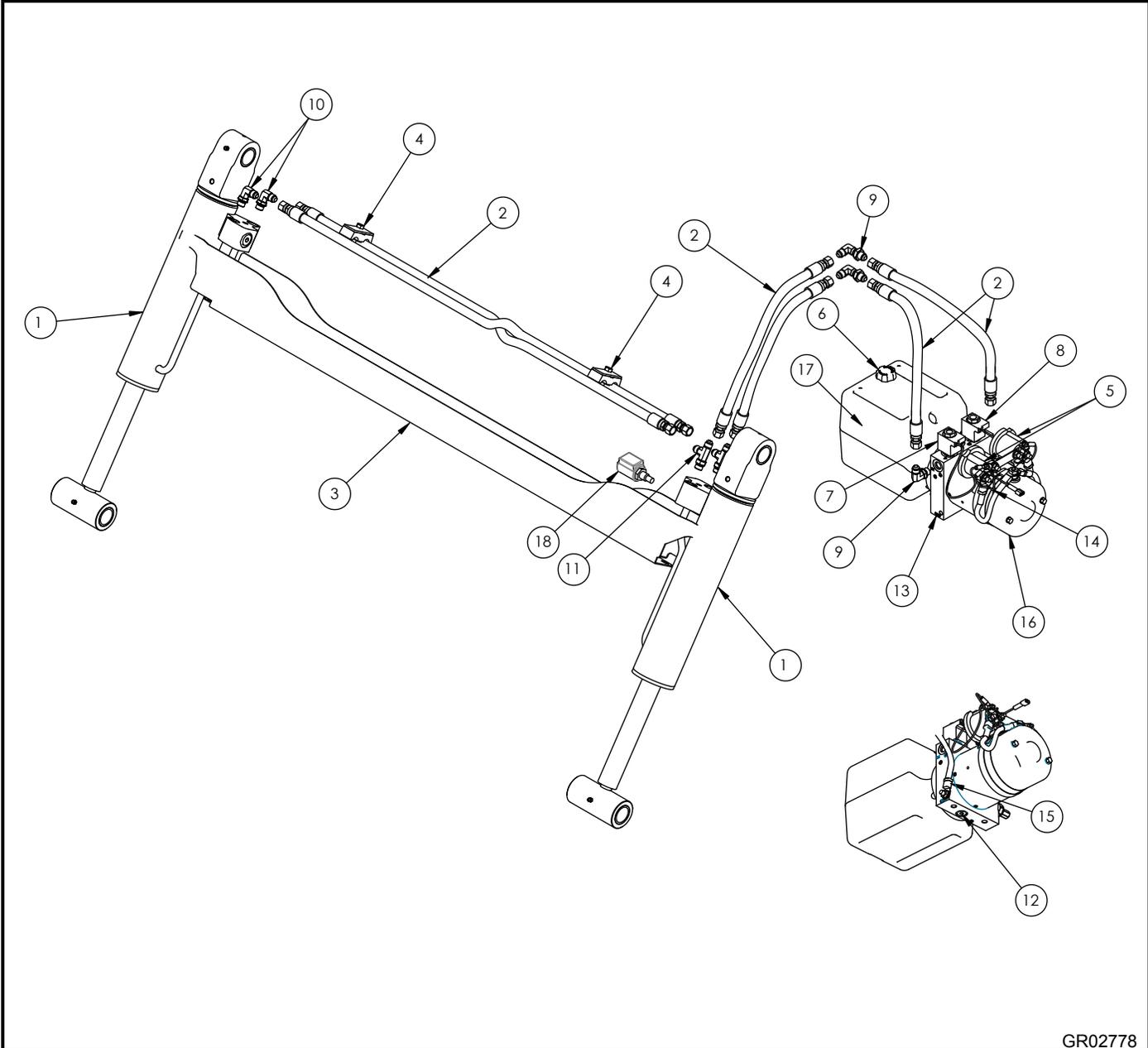


Every vehicle that has a WALTCO Liftgate must have legible WARNING AND OPERATION DECALS clearly posted on the vehicle and an OWNER'S MANUAL in the vehicle at all times as a guide for proper operation and maintenance.

Liftgate Terminology

- 1. Hydraulic Cylinder
- 2. Hose Assembly
- 3. Hose Guard
- 4. Dual Hose Clamp
- 5. Pump Unit Starter Solenoid
- 6. Breather Cap
- 7. Lowering Valve Coil
- 8. Raise Valve Coil
- 9. Bulkhead Elbow, 90 Deg.

- 10. 90 Deg. Hose Fitting
- 11. Tee, Hose Fitting
- 12. Drain Plug
- 13. Pump
- 14. Thermal Switch (Inside Motor)
- 15. Ground Cable
- 16. Pump Unit Motor
- 17. Pump Unit Reservoir
- 18. Lock Valve

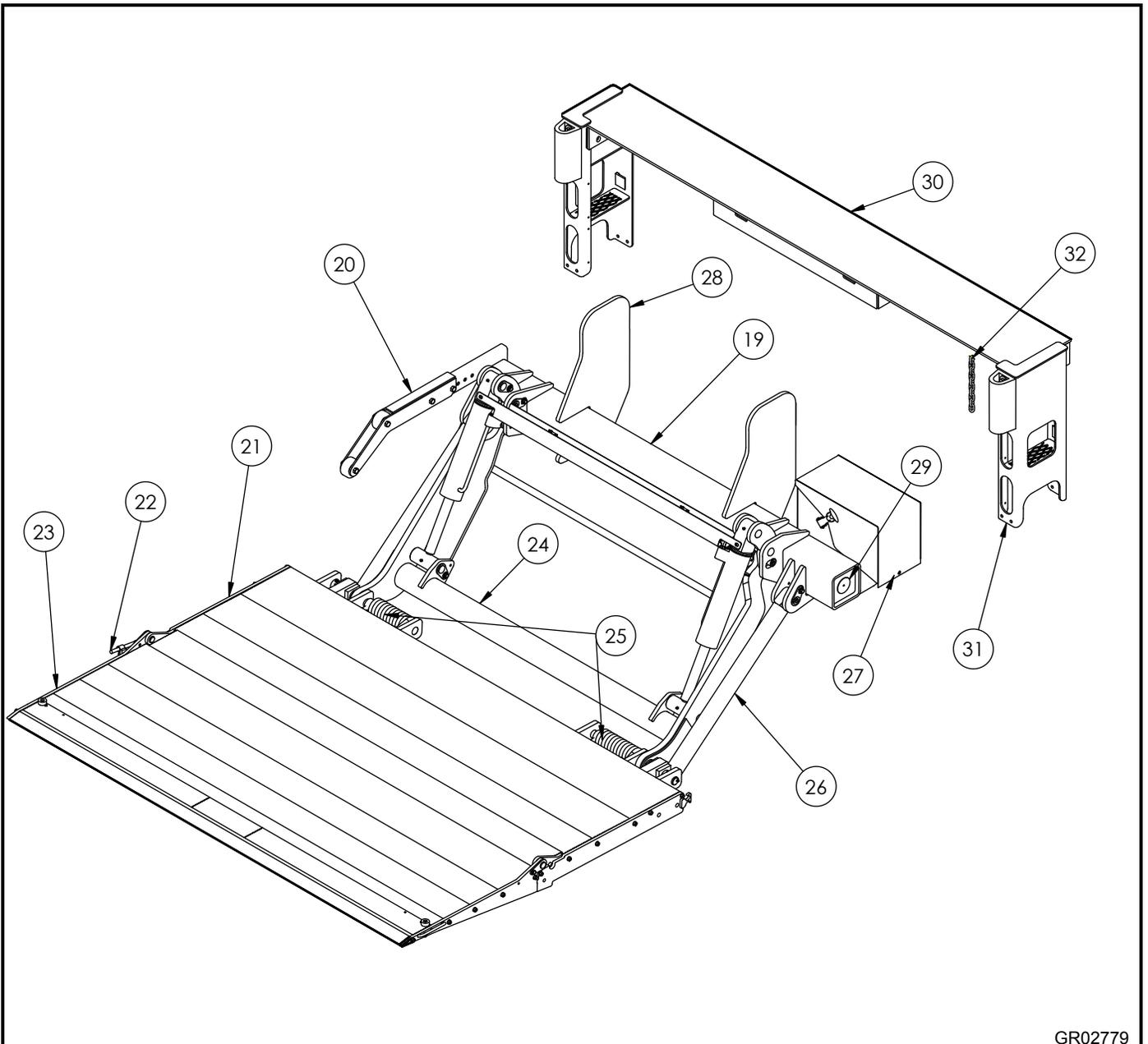


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Liftgate Terminology

- 19. Mount Tube Assembly
- 20. Parting Bar Assembly
- 21. Deck Assembly
- 22. Torsion Bar
- 23. Deck Extension Assembly
- 24. Lift Arm Assembly
- 25. Folding Assist Springs
- 26. Parallel Arm

- 27. Pump Box
- 28. Mount Plate
- 29. Spec Tag
- 30. Bed Extension
- 31. Dock Bumper
- 32. Transit Chain



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Liftgate Terminology

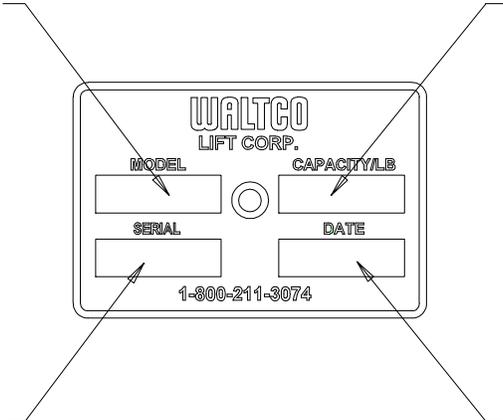
Explanation of Specification Tag

| Model Name | Description | Capacity |
|------------|---------------|----------|
| HLF25 | Twin Cylinder | 2500 lb. |
| HLF30 | Twin Cylinder | 3000 lb. |
| HLF40 | Twin Cylinder | 4000 lb. |
| HLF50 | Twin Cylinder | 5000 lb. |

MODEL NAME

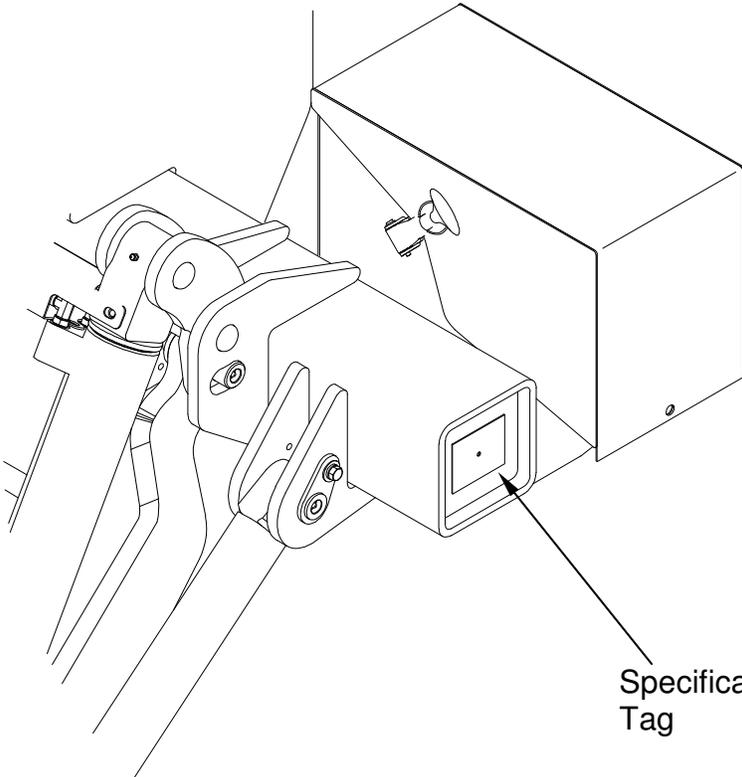
RATED CAPACITY
Based on an evenly distributed load on the platform flat surface.

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



DATE OF MANUFACTURE
Month / Year

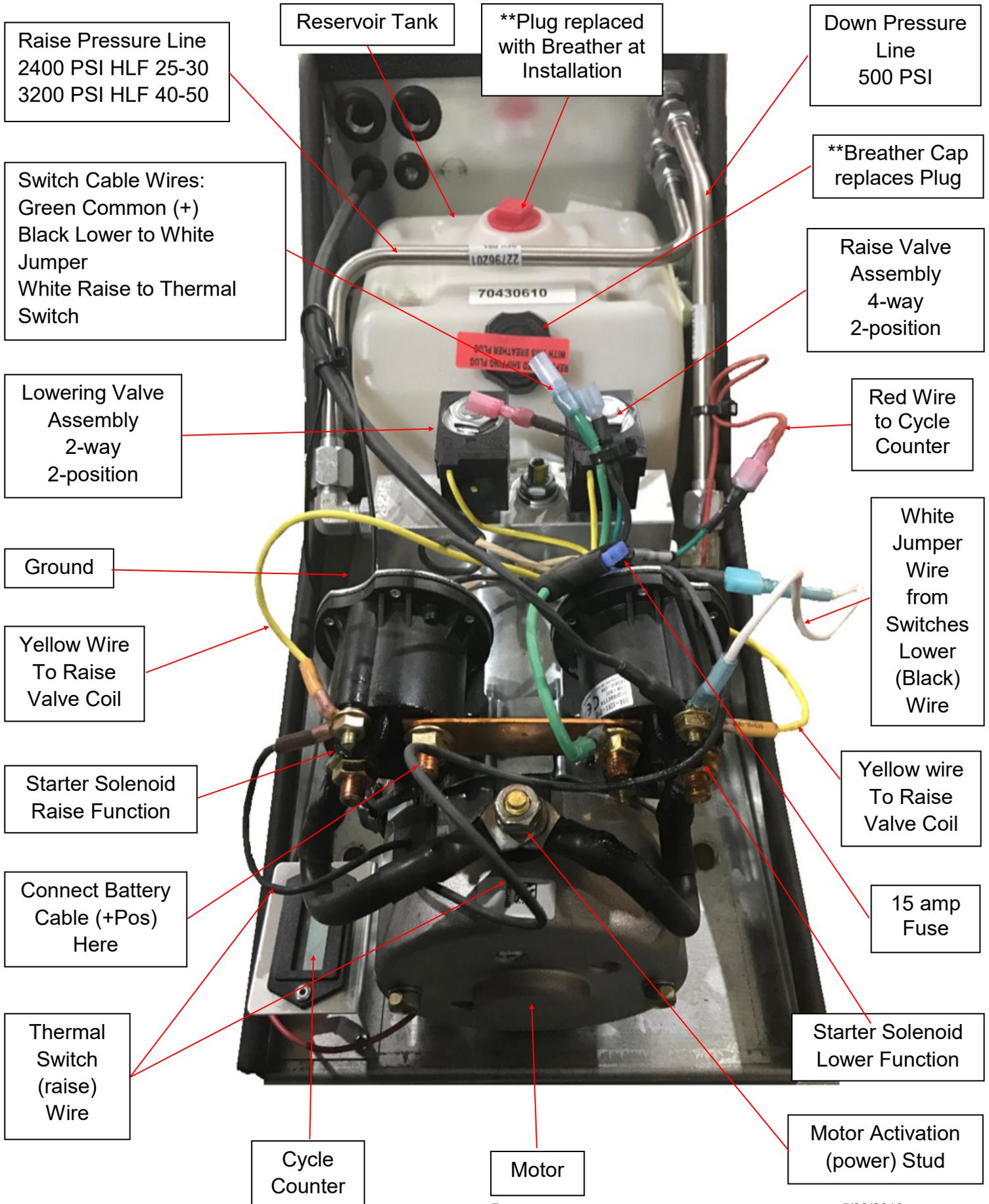
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Specification Tag

GR02837

Power Unit



Raise Pressure Line
2400 PSI HLF 25-30
3200 PSI HLF 40-50

Reservoir Tank

**Plug replaced
with Breather at
Installation

Down Pressure
Line
500 PSI

Switch Cable Wires:
Green Common (+)
Black Lower to White
Jumper
White Raise to Thermal
Switch

**Breather Cap
replaces Plug

Raise Valve
Assembly
4-way
2-position

Lowering Valve
Assembly
2-way
2-position

Red Wire
to Cycle
Counter

Ground

White
Jumper
Wire
from
Switches
Lower
(Black)
Wire

Yellow Wire
To Raise
Valve
Coil

Yellow wire
To Raise
Valve
Coil

Starter Solenoid
Raise Function

15 amp
Fuse

Connect Battery
Cable (+Pos)
Here

Starter Solenoid
Lower Function

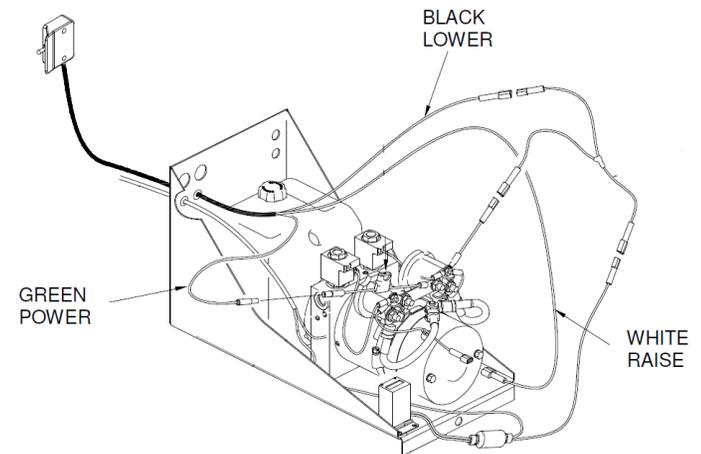
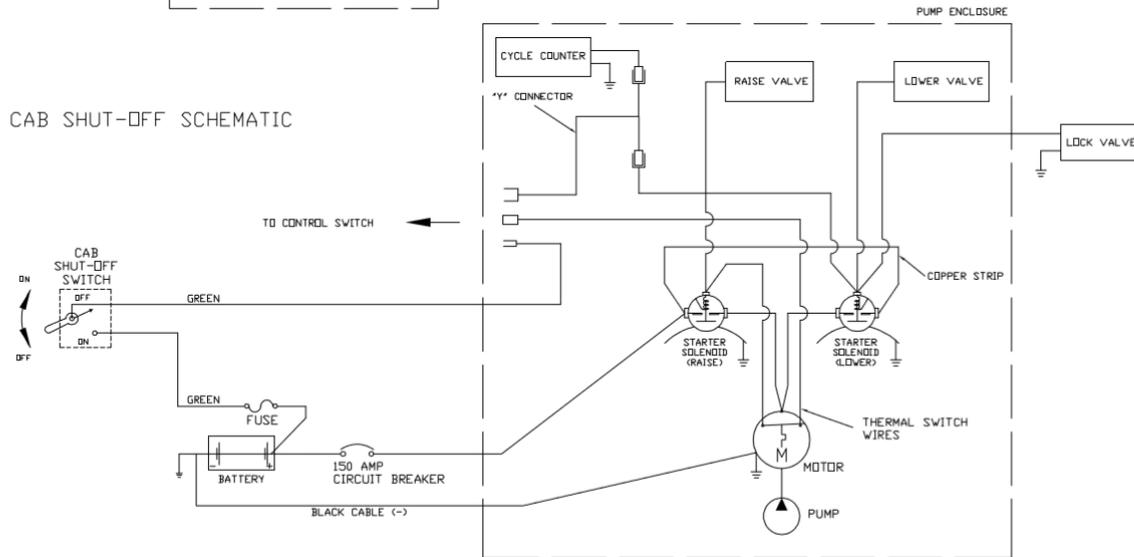
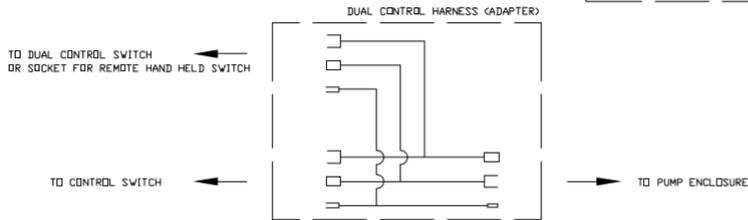
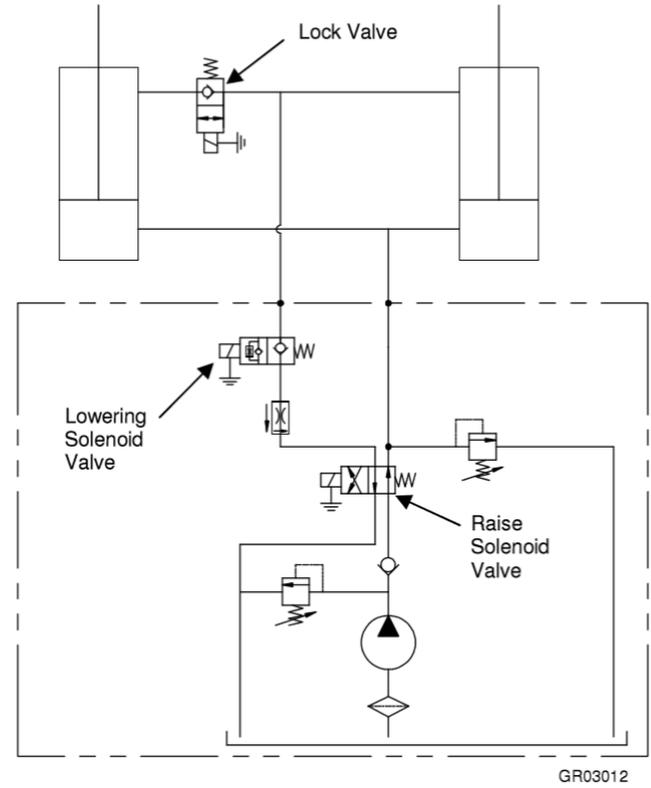
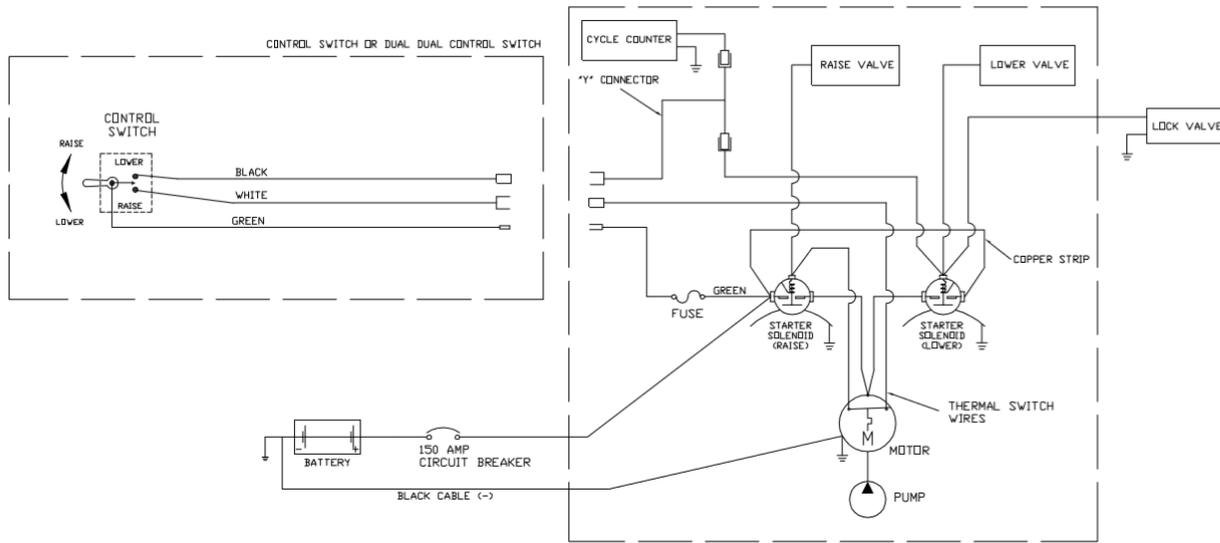
Thermal
Switch
(raise)
Wire

Motor Activation
(power) Stud

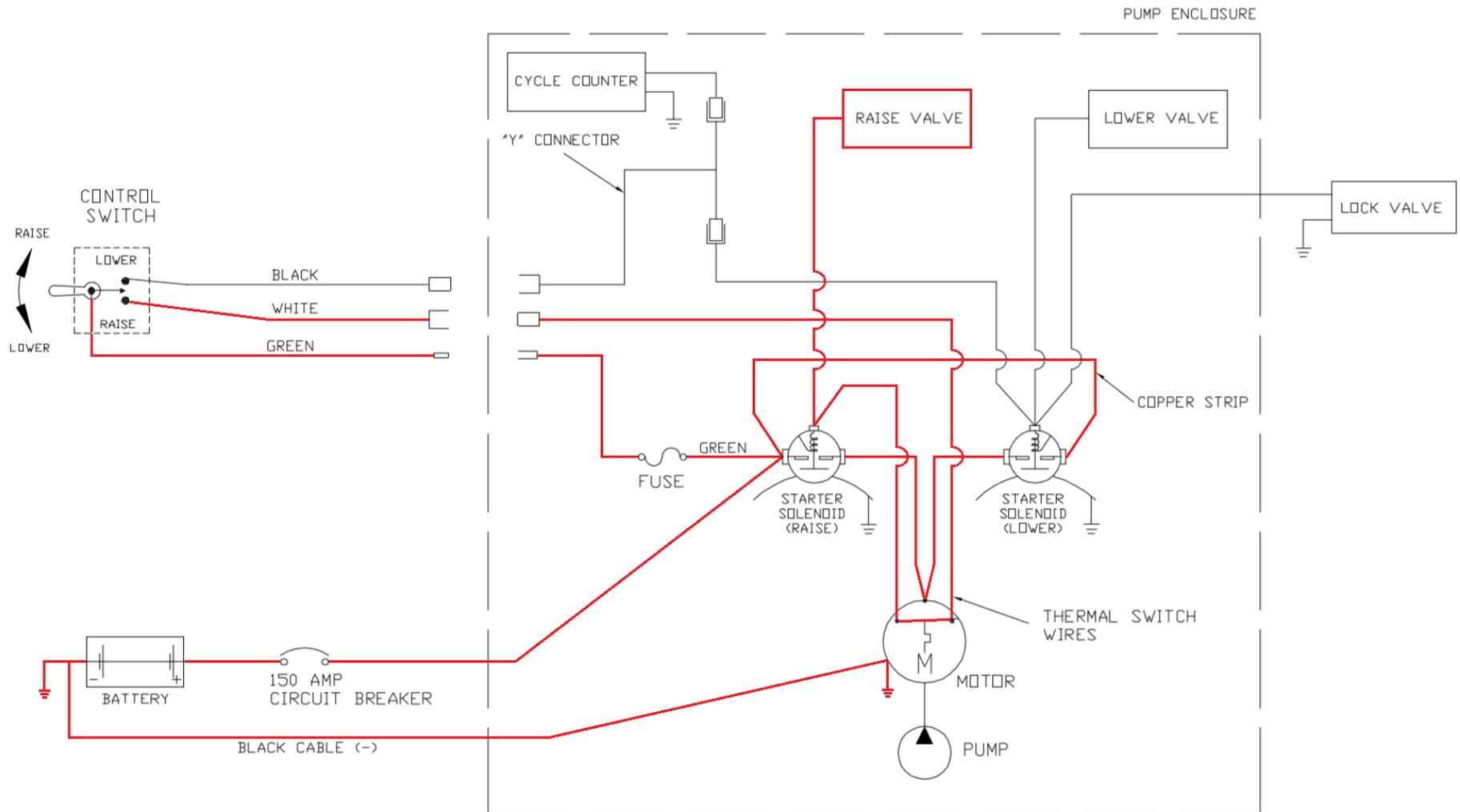
Cycle
Counter

Motor

Electrical/Hydraulic Schematic

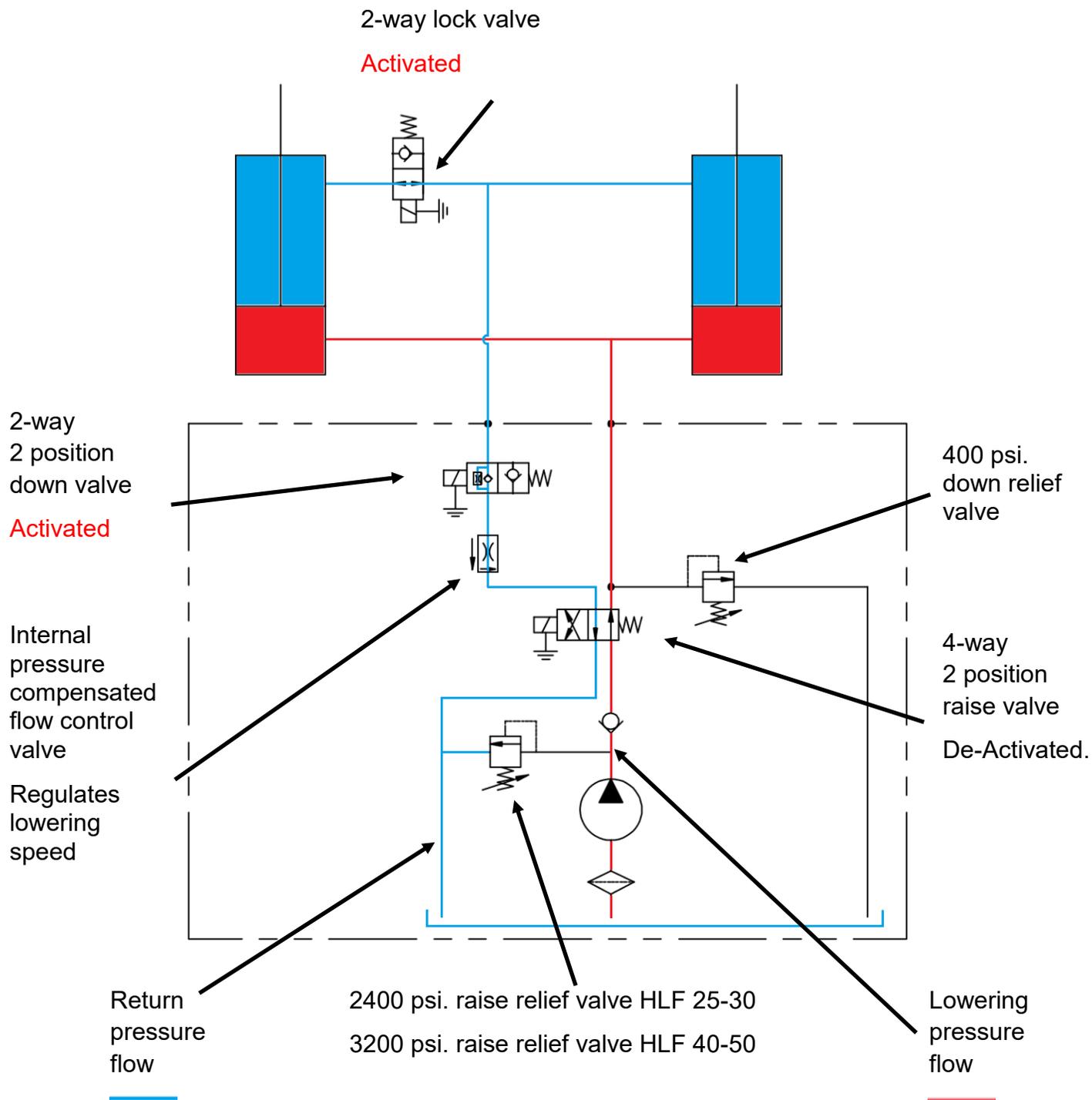


Power Up Electrical Schematic



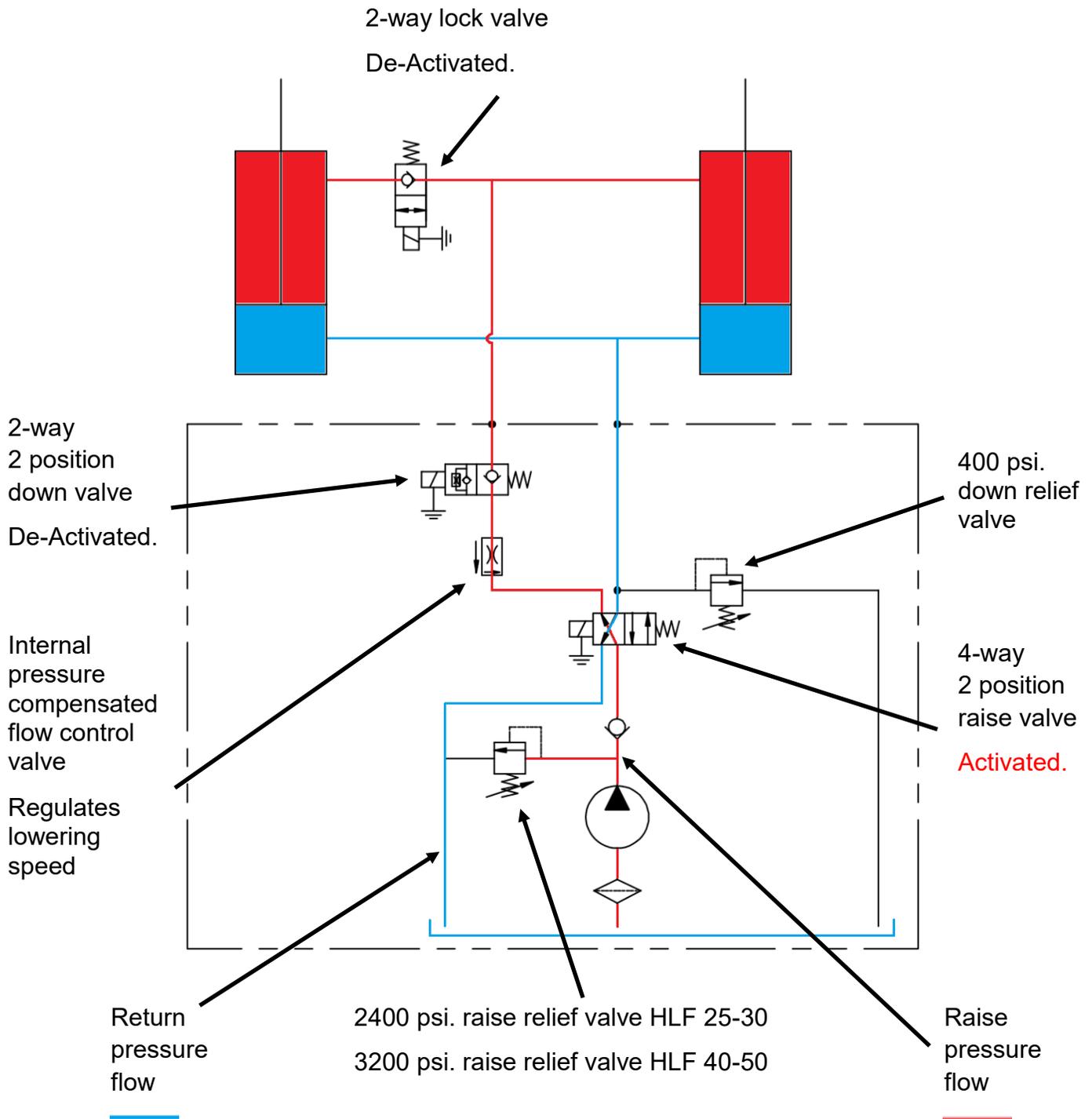
Power Down Hydraulic Flow Schematic

Cylinders Extend During Down Function



Power Up Hydraulic Flow Schematic

Cylinders Retract During Raise Function



HLF Troubleshooting Guide

CHECKING THE OIL LEVEL IN THE RESERVOIR

Check oil with the platform in the raised position. The oil level should be within ½” from top of fill port. 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.

RECOMMENDED LIFTGATE BATTERY(S)

The battery specification is **Dual Purpose Group 31, 650-750** cold cranking amps and at least **180 minutes** of reserve capacity. Batteries should be load tested before being replaced. When replacing the liftgate battery(s) inspect the cables and wires for corrosion. If the batteries are in need of replacement the charging system should be tested before releasing the trailer.

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.

- If equipped with a cab shut off switch confirm that the switch is “**ON**” and functional. Check for voltage on both terminals of the cab switch. This voltage should be the same as the battery voltage. If you do not find battery voltage check all of the cables and wires for damage and poor connections. Clean any dirty connections and tighten any loose connections.
- Check the Circuit breaker; this is located directly on the liftgate battery(s). Check for voltage on both sides of the circuit breaker. This should also reflect battery voltage.
- Inspect the 15 amp switch fuse located in the switch wiring harness.
- 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; 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.
- 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 raise switch is activated and you have no voltage to the motor, then replace the motor solenoid. If the motor does not run after confirming battery voltage at the terminal on the motor, replace the defective motor.

HLF Troubleshooting Guide

PLATFORM DOES NOT RAISE OR RAISES SLOW- MOTOR RUNS

If the motor is not running see the section titled “MOTOR DOES NOT RUN” before proceeding.

- 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 for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation.
- Check the **Raise Coil Valve**. Check and confirm voltage to coil when the “**Raise**” switch is activated. Check for **10.5 volts** at the coil. Test the coil for resistance (**4.5ohms**). Confirm that the valve is magnetizing. If the coil is working the valve may need to be replaced. If the coil is not getting voltage, check all cables and wires for shorts and poor connections. Check and test the control switch.
- Check the battery(s) for full state of charge. Replace any batteries that cannot be fully charged.
- Check the pressure on pump at the raise port. The max pressure on HLF 5000 & 4000 lb. gates is set at **3200 psi**, HLF 2500 & 3000lb gates are set at **2400 psi**.

OIL OVERFLOWS FROM THE RESERVOIR

If the motor is not running see the section titled “MOTOR DOES NOT RUN” before proceeding.

- Check and inspect the oil level in the reservoir. It could be overfilled. **See checking the oil level in the reservoir.**
- Check and confirm that the motor is running when lowering the platform down.
- Check for air in the system and check if oil is aerated. The gate will need to be bled at the lift cylinders.

PLATFORM LOWERS ON ONE SIDE ONLY

- Check for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation.
- Check voltage on the **Lock Valve** while the lower button is activated. Check for **10.5 volts** at the coil. Test the coil (**4.5ohms**) Confirm that the valve is magnetizing. If the coil is working the valve may need to be replaced. If the valve is not getting voltage, check all cables and wires for shorts and poor connections.

HLF Troubleshooting Guide

PLATFORM DOES NOT LOWER OR LOWERS SLOW

If the motor is not running see the section titled “MOTOR DOES NOT RUN” before proceeding.

**The pump motor has built in thermal protection. The thermal switch will shut the motor down if the unit gets too hot. Once the motor cools down the switch will reset automatically.*

- 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 for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation.
- 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 voltage on the **Lowering Valve** while the “**Lower**” switch is being activated. The voltage should be at least **10.5 volts**. 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 voltage on the **Lock Valves** while the “**Lower**” switch is being activated. The voltage should be at least **10.5 volts**. 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 voltage, check all cables and wires for shorts and poor connections.

PLATFORM WILL NOT LIFT TO FULL CAPACITY

- Check the serial tag on the liftgate and verify the load lifting capacity. Confirm that the platform is not over loaded. Confirm that the load is centered correctly on the platform.
- 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 the voltage at the pump motor with the “**Raise**” switch activated. The voltage should be **10.5 volts**.
- Check for any mechanical obstructions or any mechanical damage. Look for any broken, bent or worn parts that could interfere with normal operation. Lubricate any pins and bushings that are need of lubrication
- Check for leaking hoses and lines. Replace any leaking lines or hoses.
- Check for air in the hydraulic system; bleed any air from the lift gate at the cylinder.
- Check the pressure on pump at the raise port. The max pressure on HLF 5000 & 4000 lb. gates is set at **3200 psi**, HLF 2500 & 3000lb gates are set at **2400 psi**.

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 switch contacts
- Check for defective coils on valves Test the coils (**4.5ohms**)

HLF Troubleshooting Guide

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 too 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.

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.

PLATFORM LOWERS ON ITS OWN

- Confirm that the **Lowering coil** and **Lock valve** are not receiving voltage without the control switch being activated. If the lowering valve is receiving unwanted voltage, check the wiring for damages, check the switch contacts, clean dirty connections and tighten any loose connections.
- Remove the **Lowering valve** and check for contamination. Clean the valve with brake cleaner and operate the plunger. Check the plunger to ensure that it moves freely back and forth “**3/16**”.
- The cylinder may have internal leak. (**Note: If the driver side cylinder has an internal leak only that side of the gate will drift down. If the curb side cylinder has an internal leak the gate can drift down evenly**)

PLATFORM STUTTERS AS IT IS RAISING

- 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 the voltage at the pump motor with the “**Raise**” switch activated. The voltage should be **10.5 volts**.

Preventive Maintenance

Waltco recommends that the HLF-Series liftgate 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 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.

WALTCO HLF-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

| | | | | |
|----|----|-----------------|-----------|--|
| 1 | OK | Repair Required | Corrected | 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 | OK | Repair Required | Corrected | Check that all pins, bolts and fasteners are tight and secure. |
| 3 | OK | Repair Required | Corrected | Check for worn or damaged bearings. |
| 4 | OK | Repair Required | Corrected | Check that controls operate properly. |
| 5 | OK | Repair Required | Corrected | Check all wires, battery cables, and connections (both positive and ground) for damage; be sure they are tight and free of corrosion. |
| 6 | OK | Repair Required | Corrected | Check that transit chain (optional) properly hooks onto transit chain lug. |
| 7 | OK | Repair Required | Corrected | Check operation of lockout device. |
| 8 | OK | Repair Required | Corrected | Check fold over assist spring and related hardware. |
| 9 | OK | Repair Required | Corrected | Check platform tilt is adjusted correctly. |
| 10 | OK | Repair Required | Corrected | Check for hydraulic leaks in hydraulic cylinder(s), hoses, fittings, and valves. |
| 11 | OK | Repair Required | Corrected | Check oil level in reservoir. |
| 12 | OK | Repair Required | Corrected | Check lowering speed of platform. |
| 13 | OK | Repair Required | Corrected | Check that all decals are in place and legible. |
| 14 | OK | Repair Required | Corrected | Lubricate the liftgate per the "Lubrication Instructions". |
| 15 | OK | Repair Required | Corrected | Check operation of cycle counter |

12 Month Liftgate PM Procedures (Includes steps 1-14 above)

| | | | | |
|----|----|-----------------|-----------|--|
| 15 | OK | Repair Required | Corrected | Inspect Pump Motor for wear or damage. |
| 16 | OK | Repair Required | Corrected | Replace Hydraulic Fluid. |

Preventive Maintenance

MONTHLY INSPECTION

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

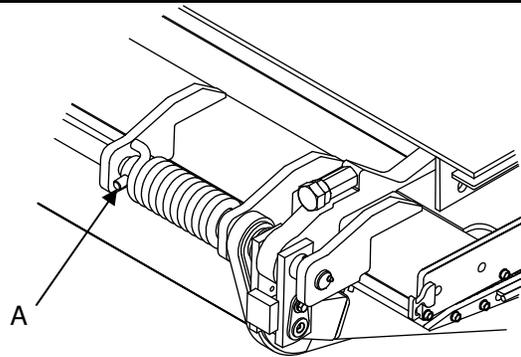
- Damage to lifting structure such as bent or distorted members or cracked welds.
- Bent or distorted cylinder pins or damaged cylinder.
- All pivot and cylinder pins are securely in place, undamaged and retained by their proper fasteners (refer to parts drawings in chapter 7, "**PMs and Schematics**").
- Damaged or worn bearings that pivot and cylinder pins rest in.
- Controls operate correctly (refer to chapter 3, "**Operations Instructions**")
- Check all wiring, including power cables and ground cables, for chaffing or damage.
- Clean and tighten all loose connections. Replace any damaged or corroded wires or connectors. Coat all connections with dielectric grease.



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.

Inspect fold over assist spring and related hardware. Check that bolt (A) contacts and holds torsion spring when platform is unfolded open. Inspect both sides.



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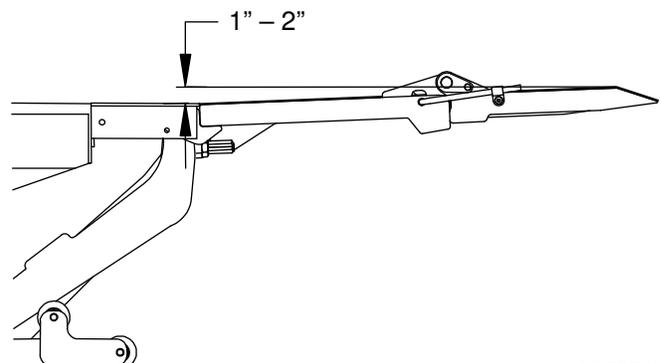
CHECK PLATFORM TILT

Raise Platform to bed level and inspect.

Trailing edge of platform should be approximately 1" - 2" above bed extension

Carefully inspect all liftgate components for wear or damage.

Replace any damaged or worn components before proceeding.



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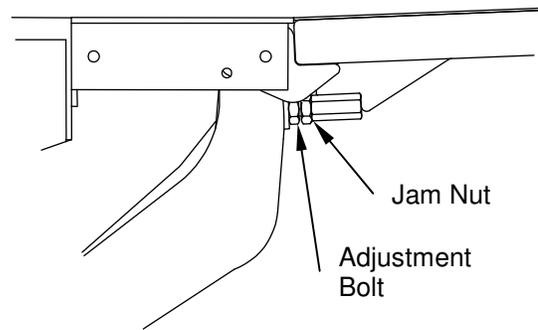
Preventive Maintenance

Platform tilt adjustment

If Platform is sagging, adjust bolts between Stop Block and Platform Hinge to achieve 1" - 2" dimension above.

NOTE:

Adjust both Stop Block Bolts evenly.
Tighten Jam Nuts.

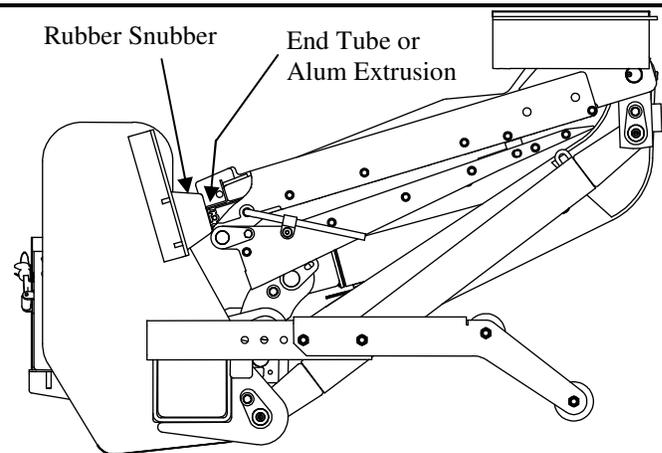


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CHECK RUBBER SNUBBERS

Raise platform to fully closed position. Pull and/or push on deck extension to verify it is held tight.

Platform end tube or aluminum extrusion should compress rubber snubber. If not, add shims or large washers under snubber pads to obtain this compression.



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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

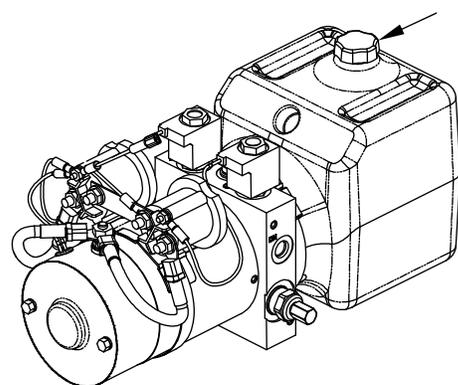
Position liftgate deck in raised position.

Remove Reservoir Breather.

Oil level should be 1/2" from top of reservoir.

If low, fill as required. Use appropriate fluid per chart.

Replace breather.



Reinstall Breather after checking fluid level

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Preventive Maintenance

Recommended Fluids

| Temperature Range | Acceptable Fluids |
|-------------------|---|
| 0° to 120° F | Waltco Biodegradable Liftlube™ part #85803860 |
| | Shell Tellus S2 V 32 |
| | Chevron Rando HDZ 32 |
| -20° to 90° F | Waltco Biodegradable LiftLube Arctic part #85803866 |
| | Waltco All Season Hyd Oil Part 85803867 |
| | Shell Tellus S2 V 15 |
| | Mobil DTE 10 Excell 15 |

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

NOTE:

Do not use the following fluids:

Brake Fluid

Power steering fluid

Automatic Transmission Fluid (ATF)

Rev 06

There is no speed adjustment on this liftgate.

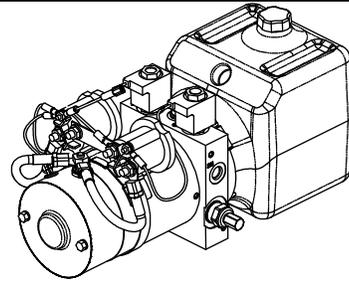
Lowering speed is controlled by the pressure compensative valve plumbed into the pump.

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 pressure compensative valve installed in the pump.



Pressure Compensative Flow Control Valve inside Pump

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INSPECT DECALS AND LUBRICATE LIFTGATE

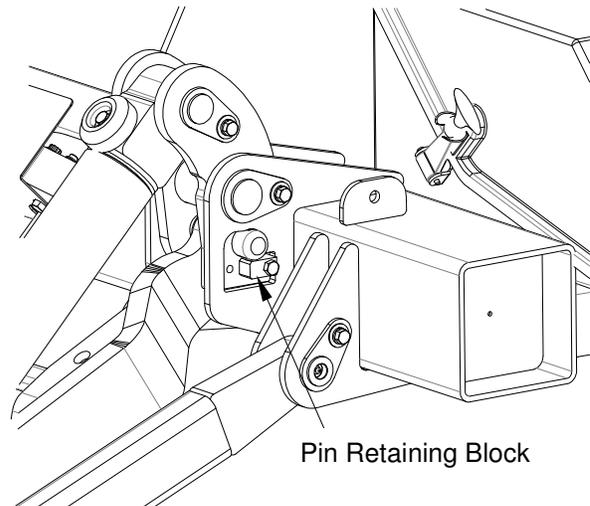
Inspect all decals per Chapter 5 of this manual.

Replace any that are missing or damaged.

Lubricate liftgate per Chapter 6 of this manual.

CHECK LIFT ARM PIN RETAINER

Verify both pin retaining blocks, one at each lift arm, are in place, undamaged and bolted into place.



Pin Retaining Block

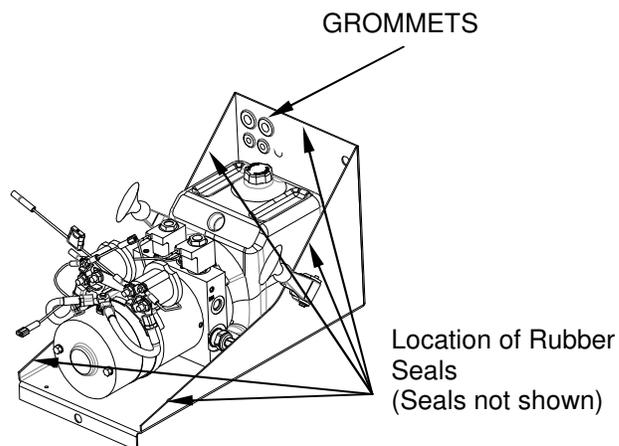
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Preventive Maintenance

CHECK PUMP BOX SEALS

All holes for wiring are to have grommets.

Edges of pump box are to have rubber seals as indicated at right. Seals not shown.

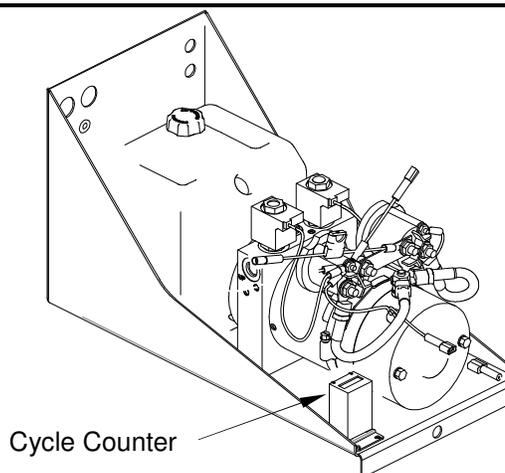


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CHECK CYCLE COUNTER

Cycle counter should register a cycle every time the lowering switch is activated and held on for a minimum of four (4) seconds.

Refer to wiring schematic in this manual.

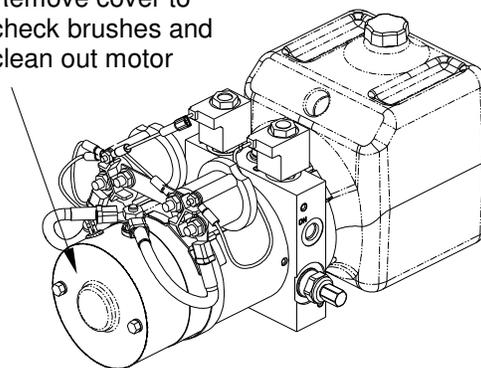


GR10056

SEMI 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.

Remove cover to check brushes and clean out motor



GR02792

Preventive Maintenance

BLEEDING HYDRAULIC SYSTEM

If any hydraulic components have been disconnected and/or replaced on the liftgate, it may be necessary to bleed the hydraulic system of air.

1. Lower and tilt platform all the way to the ground.
2. Remove the lower cylinder pins.

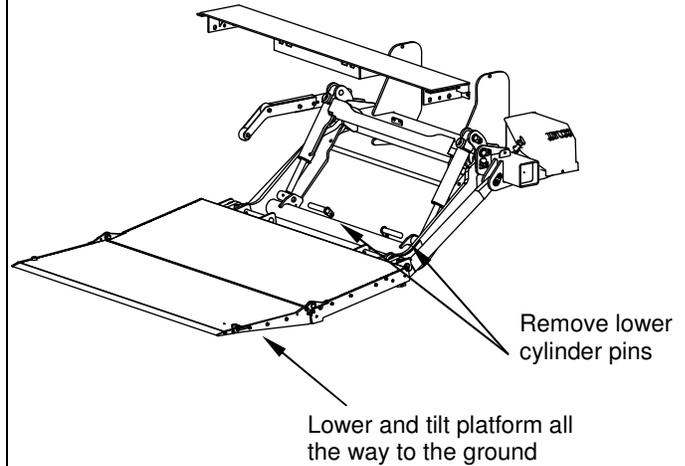


CAUTION

While removing the pins, the cylinders may suddenly retract a few inches as a result of air in the system.

NOTE

Take care not to nick or scratch cylinder shafts during this procedure.



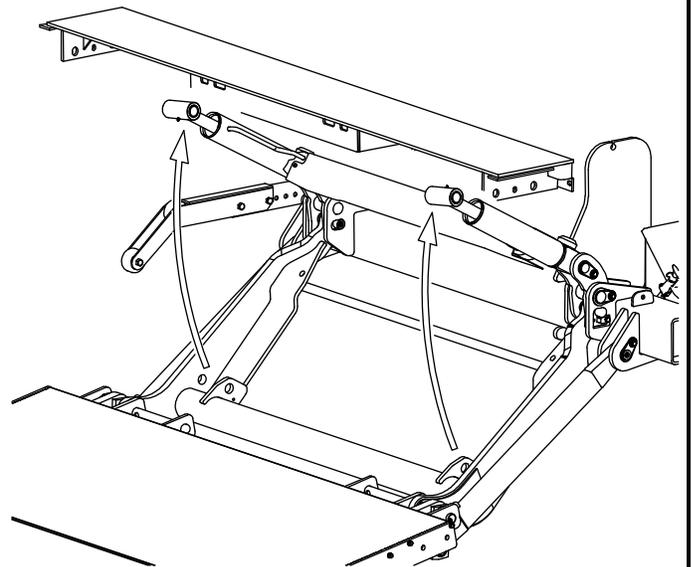
3. Rotate both cylinders, simultaneously above horizontal. Hold cylinders as high as practical. Keep in mind that cylinders will be fully extended. Hold cylinders by the barrel and not the shaft.
4. While cylinders are held above horizontal, press and hold the raise switch to fully retract the cylinders, then press and hold the lower switch to fully extend the cylinders. Do this two or three times.



WARNING

The hydraulic cylinders will extend with great force, keep hands and all body parts out of way of the cylinder shafts to avoid injury.

5. Reinstall cylinders. Note: Reinstall driver's side cylinder first.
6. Check operation of liftgate and for leaks at fittings, retighten as required.
7. Check fluid level in pump reservoir, fill as may be required.

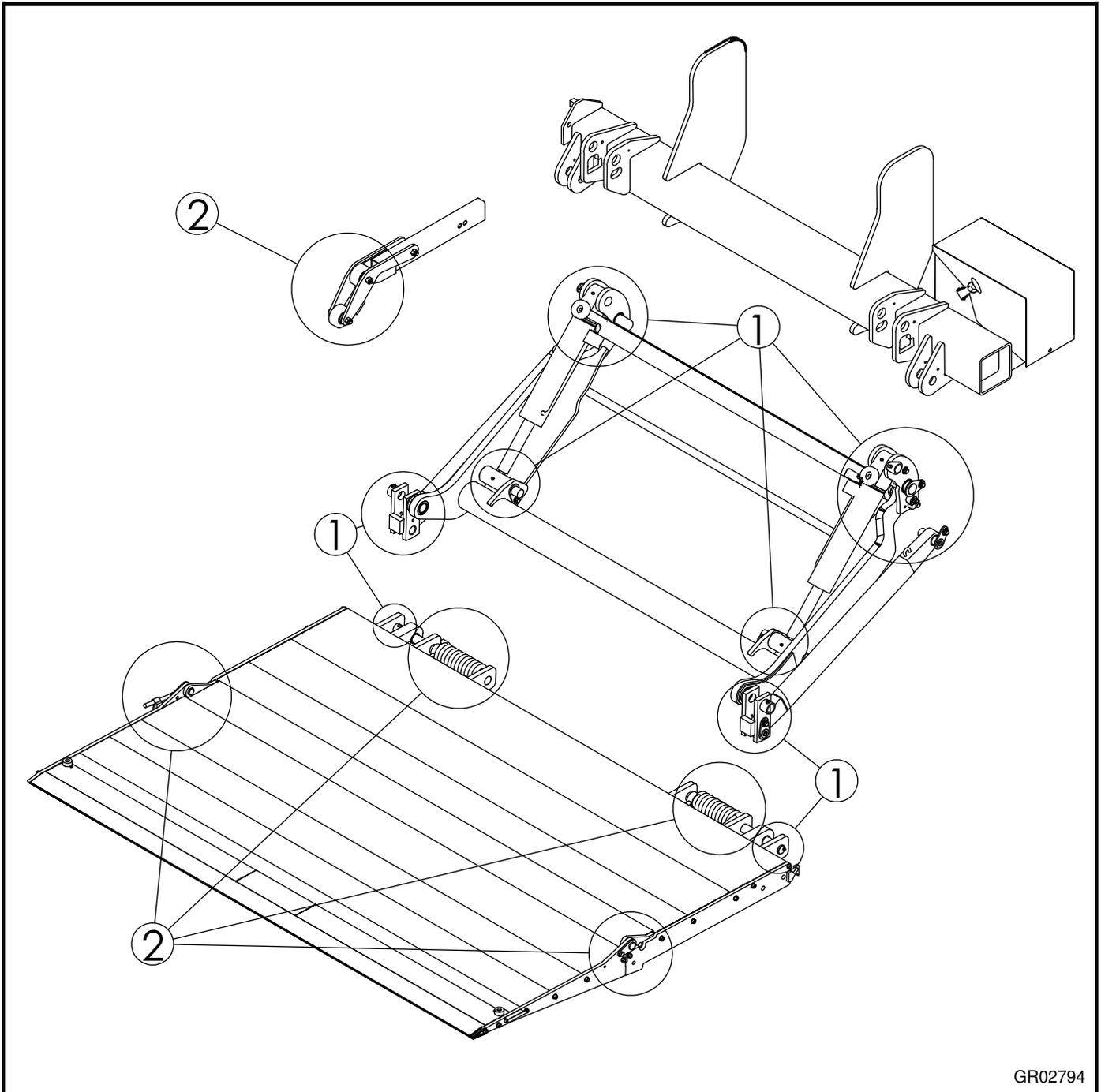


Lubrication Instructions

The liftgate should be lubricated every 120 days.

#1 – Grease all grease fittings in pins and cylinders with grease gun.

#2 - Oil with a light weight machine oil (do not use on bearings in platform).



GR02794

Parting Bar Adjustment

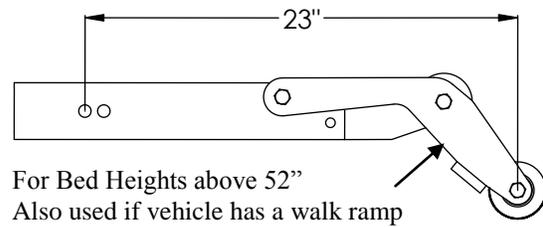
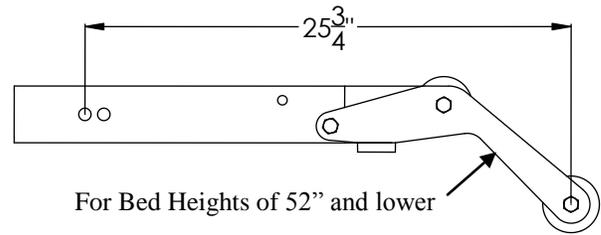
Roller Bracket Adjustment:

Verify roller bracket is in correct orientation for bed height of vehicle.

If needed, remove all three (3) bolts to re-orientate the roller bracket as shown for correct bed height.

IMPORTANT:

Dimensions may vary slightly. Improper installation of parting bar can result in damage to the liftgate platform, by powering into the chassis frame of vehicle.



Parting Bar Adjustment:

Hole 1

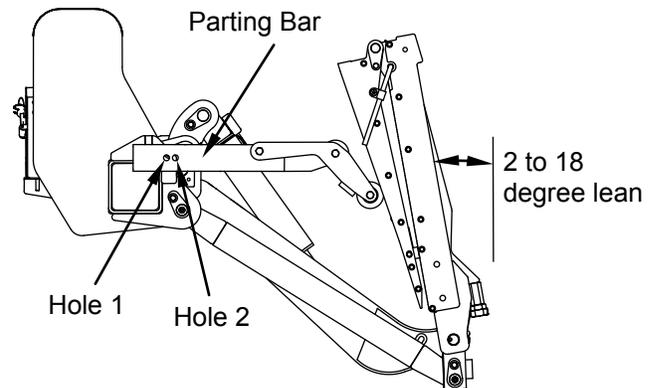
For vehicles with no walk ramp

Hole 2

For all vehicles with a walk ramp or vehicle bed height is above 57"



CAUTION: Platform is to lean in towards parting bar when at ground. It is not to fall open to ground.



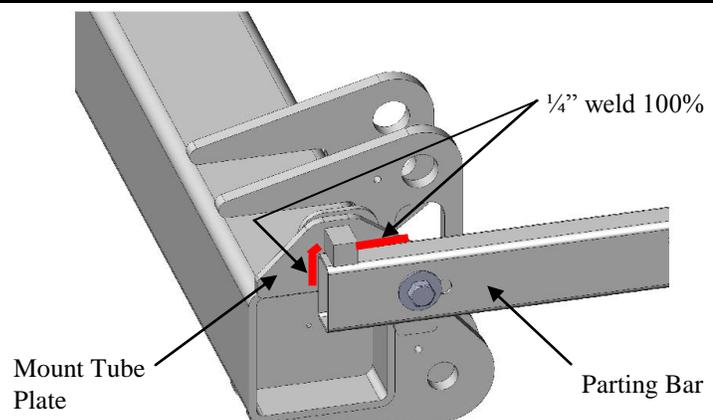
GR02799

Welding of Parting Bar

Parting bar is to be level with ground within 2 degrees. Tighten 5/8" bolt holding parting bar to mount tube plate and tack weld parting bar in level position.

Once parting bar is repositioned, ensure liftgate functions properly through full cycle

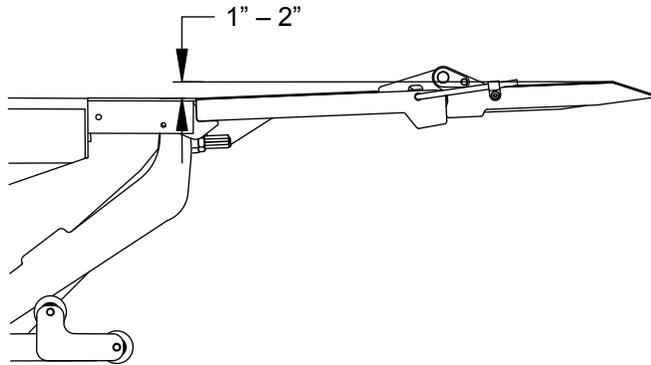
After functionality is confirmed, weld the parting bar as shown with 1/4" welds 100% around parting bar to mount tube plate.



Platform Leveling Adjustment

CHECK PLATFORM TILT

Raise Platform to bed level and inspect.
Trailing edge of platform should be approximately 1" - 2" above bed extension.
Carefully inspect all liftgate components for wear or damage.
Replace any damaged or worn components before proceeding.



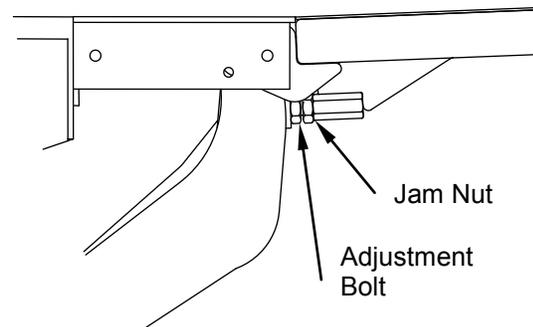
GR02688

PLATFORM TILT ADJUSTMENT

If Platform is sagging, adjust bolts between Stop Block and Platform Hinge to achieve 1" - 2" dimension above.

NOTE:

Adjust both Stop Block Bolts evenly.
Tighten Jam Nuts.



GR02689

Bleeding Hydraulic System

BLEEDING HYDRAULIC SYSTEM

1. Lower and tilt platform all the way to the ground.
2. Remove the lower cylinder pins.

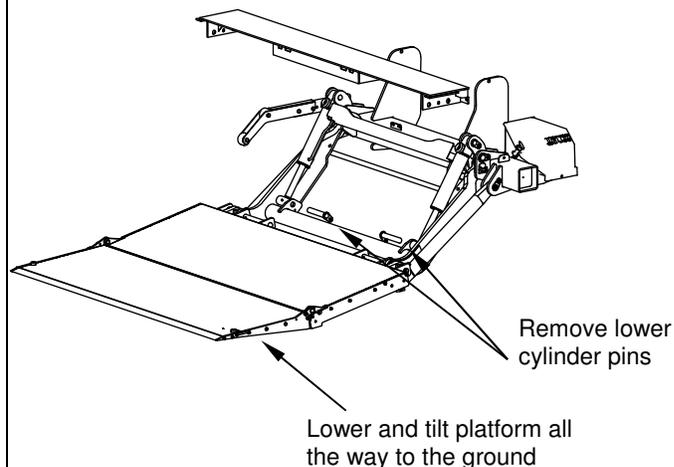


CAUTION

While removing the pins, the cylinders may suddenly retract a few inches as a result of air in the system.

NOTE

Take care not to nick or scratch cylinder shafts during this procedure.



GR

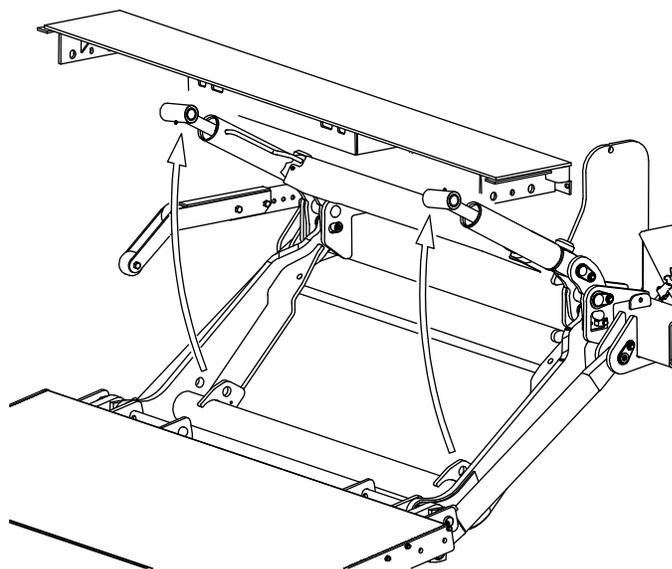
3. Rotate both cylinders, simultaneously above horizontal. Hold cylinders as high as practical, Keep in mind that cylinders will be fully extended. Hold cylinders by the barrel and not the shaft.
4. While cylinders are held above horizontal, press and hold the raise switch to fully retract the cylinders, then press and hold the lower switch to fully extend the cylinders. Do this two or three times.



WARNING

The hydraulic cylinders will extend with great force, keep hands and all body parts out of way of the cylinder shafts to avoid injury.

5. Reinstall cylinders. Note: Reinstall driver's side cylinder first.
6. Check operation of liftgate and for leaks at fittings, retighten as required.
7. Check fluid level in pump reservoir, fill as may be required.



GR

Filling Hydraulic Reservoir

FILLING HYDRAULIC RESERVOIR

Position liftgate deck into raise position (use forklift, crane, or other safe device if necessary).

Remove Reservoir Plug.

Oil level should be 1/2" from top of reservoir in raised position.

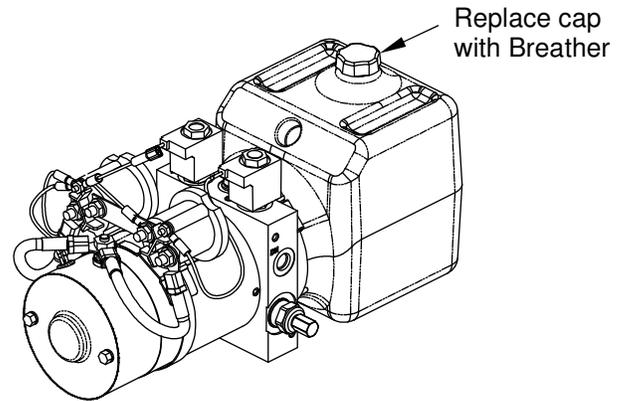
If low, fill as required.

Replace Plug with Breather.

Run liftgate full cycle several times to release trapped air from system.

NOTE:

The hydraulic system was bled of air at the factory. If however any hydraulic components, such as hoses, fittings, cylinders or pump were removed and replaced or disconnected during installation, or you suspect there is air in the system, the system should be bled per the instructions at the end of this section.



GR02792

Recommended Fluids

| Temperature Range | Acceptable Fluids |
|-------------------|---|
| 0° to 120° F | Waltco Biodegradable Liftlube™ part #85803860 |
| | Shell Tellus S2 V 32 |
| | Chevron Rando HDZ 32 |
| -20° to 90° F | Waltco Biodegradable LiftLube Arctic part #85803866 |
| | Waltco All Season Hyd Oil Part 85803867 |
| | Shell Tellus S2 V 15 |
| | Mobil DTE 10 Excell 15 |

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

NOTE:

Do not use the following fluids:

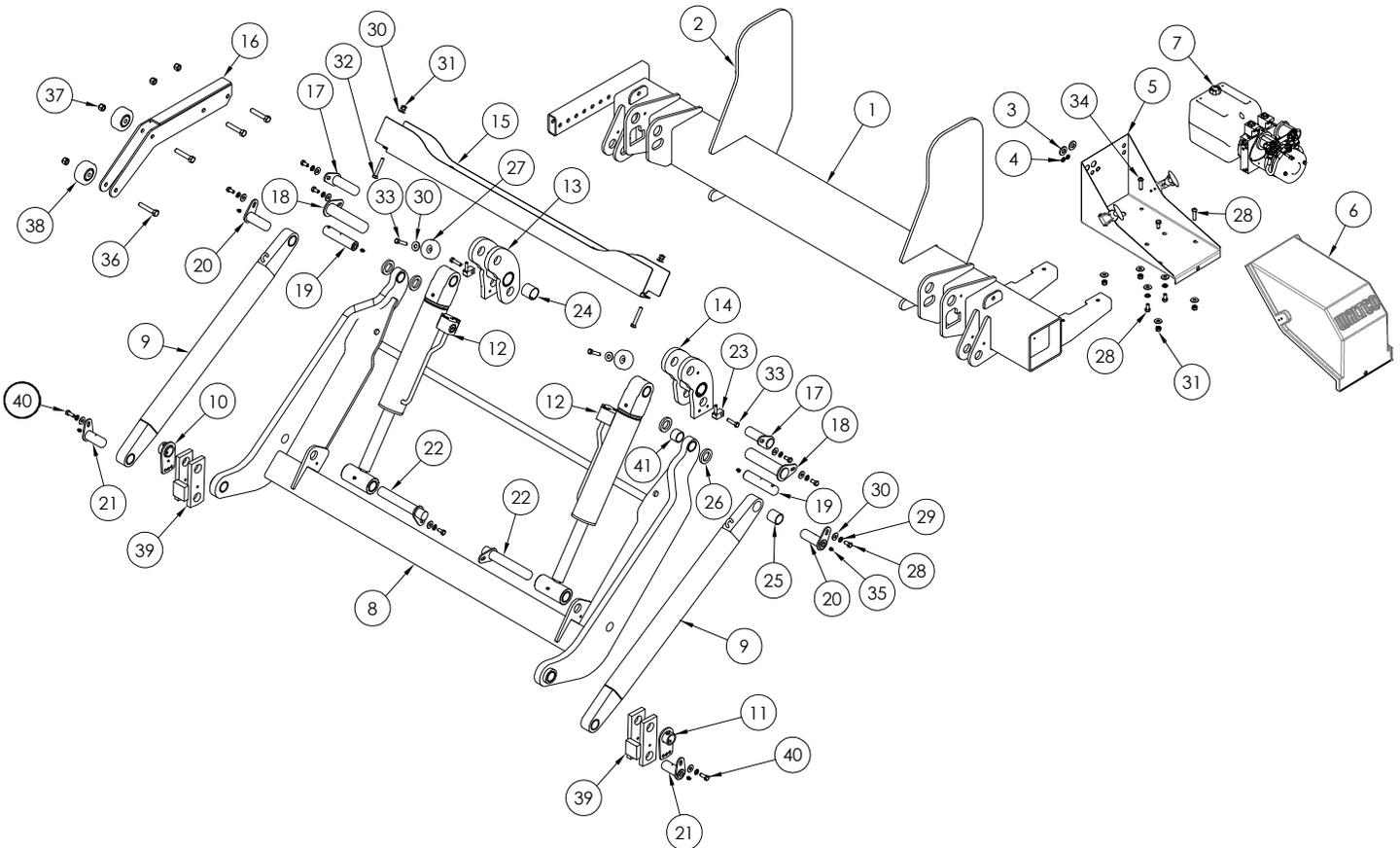
- Brake Fluid**
- Power steering fluid**
- Automatic Transmission Fluid (ATF)**

Rev 06

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------------------|-----|--|
| 1 | 22720015 | 1 | Mount Frame Assembly, 3000# |
| | 22720021 | | Mount Frame Assy, 3000#, Galvanized |
| 2 | 22770302 | 2 | Mount Plate, 2500# & 3000# |
| | 22770304 | | Mount Plate, 2500# & 3000#, For Galvanized |
| | | | |
| 3 | 75089313 | 2 | Grommet, 1/2" ID |
| 4 | 75089322 | 2 | Grommet, 5/16" ID |
| 5 | 22795022 | 1 | Pump Enclosure Weldment Compete |
| | 22795026GV | | Pump Enclosure, Galvanized, Compete |
| 6 | 22793030 | 1 | Pump Enclosure Lid, Plastic, Compete |
| 7 | 70430610 | 1 | Hydraulic Pump, HLF-25 & 30 |
| 8 | 22730016 | 1 | Lift Arm Weldment |
| | 22730014 | | Lift Arm Weldment, Under-Ride |
| | 22730015 | | Lift Arm Weldment, Hitch & Dock Lock |
| | 22730013 | | Lift Arm Weldment, Hitch & Dock Lock, Under-Ride |
| | 22730020 | | Lift Arm Weldment, Galvanized |
| 9 | 22755010 | 2 | Parallel Arm Weldment |
| | 22755015 | | Parallel Arm Weldment, Galvanized |
| 10 | 22750551 | 1 | Stop Block Adjust, DS |
| 11 | 22750501 | 1 | Stop Block Adjust, CS |
| 12 | 22780060 | 2 | Hydraulic Cylinder, HLF-25, 30, & 40 |
| 13 | 22724001 | 1 | Auto Tilt Block, DS |
| | 22724005 | | Auto Tilt Block, DS, Galvanized |
| | 22724002 | | Auto Tilt Block, CS |
| 14 | 22724006 | 1 | Auto Tilt Block, CS, Galvanized |
| | | | |
| | | | |
| 15 | 22718501 | 1 | Hose Guard |
| | 22718505 | | Hose Guard, Zinc Plated |
| 16 | 22793501 ^C | 1 | Parting Bar Weldment |
| | 22793501GV ^D | | Parting Bar Weldment, Galvanized |
| | 1000021-08 ^B | | Pin, 1-1/4" x 3-5/8" |

| | | | |
|----|--------------------------|----|--|
| 18 | 1000021-13 ^B | 2 | Pin, 1-1/2" x 6-3/16" |
| 19 | 22712301 ^B | 2 | Pin, Lift Arm Pivot |
| 20 | 1000022-05 ^B | 2 | Pin, 1-1/4" x 3-3/16" |
| 21 | 1000022-03 ^B | 2 | Pin, 1-1/4" x 2-5/8" |
| 22 | 1000021-11 ^B | 2 | Pin, 1-1/4" x 6-11/16" |
| 23 | 22735001 | 2 | Pin Retaining Block |
| 24 | 42668119 ^A | 4 | Bearing, Fiberglide, 1-1/2" ID x 1-1/2" |
| 25 | 10010192 ^A | 6 | Bearing, 1-1/4" ID x 1-1/2" |
| 26 | 22714102 | 4 | Spacer |
| 27 | 22714201 | 2 | Puck |
| 28 | 75086055 ^B | 10 | Hex Bolt, 3/8-16 x 3/4" |
| 29 | 75088081 ^B | 14 | Lock Washer, 3/8" |
| 30 | 75088053 ^B | 16 | Washer, 3/8" |
| 31 | 75085193 | 6 | Lock Nut, 3/8-16 |
| 32 | 7500010-26 | 2 | Hex Bolt, 3/8-16 x 2-1/2" |
| 33 | 75086218 | 4 | Hex Bolt, 3/8-16 x 1-1/4", Gr 8 |
| 34 | 75086872 | 4 | Socket Button Head, 3/8-16 x 1-1/4" |
| 35 | 75089307 | 6 | Grease Zerk, 5/16" |
| 36 | 7500010-14 ^{CD} | 4 | Hex Bolt, 1/2-13 x 2-3/4" |
| 37 | 75085162 ^{CD} | 4 | Top Lock Nut, 1/2-13 |
| 38 | 75081348 ^{CD} | 2 | Roller, Plastic |
| 39 | 22750010 | 2 | Stop Block, 4-1/2" Spacing |
| 40 | 7500010-6 | 2 | Hex Bolt, 3/8-16 x 1", Gr 8 |
| 41 | 10010189 ^A | 2 | Bearing, 1-1/4" ID x 1" |
| 42 | 22797001 | 1 | Galvanized Mounting Hardware Kit (not shown) |

- ^A Included in Bearing Replacement Kit 80001314
^B Included in Pin Replacement Kit 80001315
^C Included in Parting Bar Assembly 22794001
^D Included in Parting Bar Assembly Galv 22794001GV



MOUNT FRAME ASSY, 2500 & 3000 LBS CAPACITY



REVISED: 5-2016
E.O. 7921
REV 05

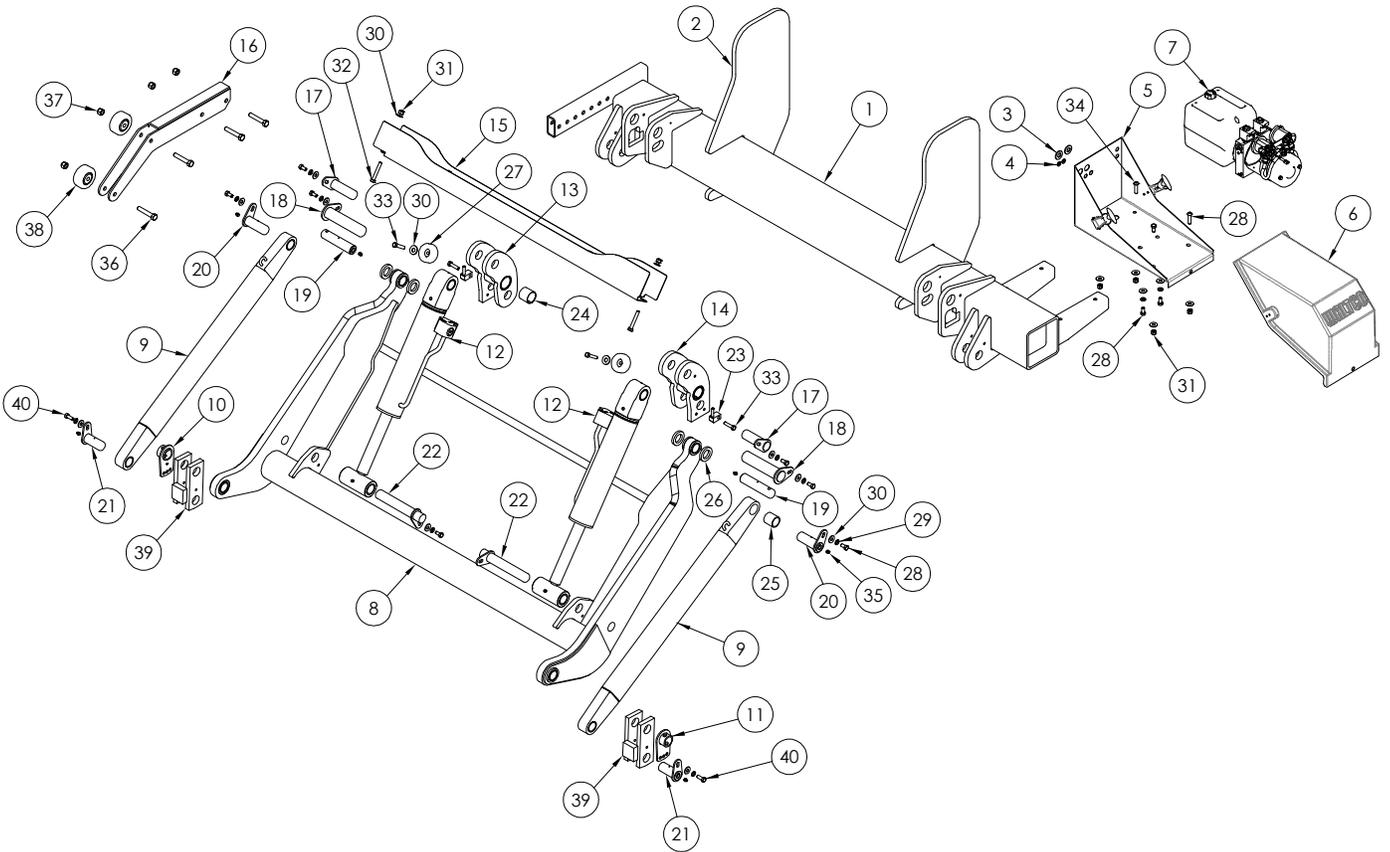
PM-838A

5/30/2019

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-----------------------|-----|---|
| 1 | 22720010 | 1 | Mount Frame Assembly |
| | 22720010GV | | Mount Frame Assembly, Galvanized |
| | 22720011 | | Mount Frame Assembly, Under-Ride |
| | 22720011GV | | Mount Frame Assembly, Under-Ride, Galvanized |
| 2 | 22770301 | 2 | Mount Plate, 4000# & 5000# |
| | 22770305 | | Mount Plate, 4000# & 5000# for Galvanized |
| 3 | 75089313 | 2 | Grommet, 1/2" ID |
| 4 | 75089322 | 2 | Grommet, 5/16" ID |
| 5 | 22795022 | 1 | Pump Enclosure Weldment Complete |
| | 22795026GV | | Pump Enclosure Galvanized, Complete |
| 6 | 22793030 | 1 | Pump Enclosure Lid, Plastic Complete |
| 7 | 70430620 | | Hydraulic Pump, HLF-40 & 50 |
| 8 | 22730003 | 1 | Lift Arm Weldment |
| | 22730003GV | | Lift Arm Weldment, Galvanized |
| | 22730006 | | Lift Arm Weldment, Certified Under-Ride |
| | 22730006GV | | Lift Arm Weldment, Certified Under-Ride, Galvanized |
| 9 | 22755010 | 2 | Parallel Arm Weldment |
| | 22755015 | | Parallel Arm Weldment, Galvanized |
| 10 | 22750551 | 1 | Stop Block Adjust, DS |
| 11 | 22750501 | 1 | Stop Block Adjust, CS |
| 12 | 22780060 | 2 | Hydraulic Cylinder, HLF-25, 30, & 40 |
| | 22780050 | | Hydraulic Cylinder, HLF-50 |
| 13 | 22724001 | 1 | Auto Tilt Block, DS |
| | 22724005 | | Auto Tilt Block, DS, Galvanized |
| 14 | 22724002 | 1 | Auto Tilt Block, CS |
| | 22724006 | | Auto Tilt Block, CS, Galvanized |
| 15 | 22718501 | 1 | Hose Guard |
| | 22718505 | | Hose Guard, Zinc Plated |
| 16 | 22793501 ^c | 1 | Parting Bar Weldment |

| | | | |
|----|--------------------------|----|--|
| | 22793501GV ^d | 1 | Parting Bar Weldment, Galvanized |
| 17 | 1000021-08 ^b | 2 | Pin, 1-1/4" x 3-5/8" |
| 18 | 1000021-13 ^b | 2 | Pin, 1-1/2" x 6-3/16" |
| 19 | 22712301 ^b | 2 | Pin, Lift Arm Pivot |
| 20 | 1000022-05 ^b | 2 | Pin, 1-1/4" x 3-3/16" |
| 21 | 1000022-03 ^b | 2 | Pin, 1-1/4" x 2-5/8" |
| 22 | 1000021-11 ^b | 2 | Pin, 1-1/4" x 6-11/16" |
| 23 | 22735001 | 2 | Pin Retaining Block |
| 24 | 42668119 ^a | 4 | Bearing, Fiberglide, 1-1/2" ID x 1-1/2" |
| 25 | 10010192 ^a | 8 | Bearing, 1-1/4" ID x 1-1/2" |
| 26 | 22714101 | 4 | Spacer |
| 27 | 22714201 | 2 | Puck |
| 28 | 75086055 ^b | 10 | Hex Bolt, 3/8-16 x 3/4" |
| 29 | 75088081 ^b | 14 | Lock Washer, 3/8" |
| 30 | 75088053 ^b | 16 | Washer, 3/8" |
| 31 | 75085193 | 6 | Lock Nut, 3/8-16 |
| 32 | 7500010-26 | 2 | Hex Bolt, 3/8-16 x 2-1/2" |
| 33 | 75086218 | 4 | Hex Bolt, 3/8-16 x 1-1/4", Gr 8 |
| 34 | 75086872 | 4 | Socket Button Head, 3/8-16 x 1-1/4" |
| 35 | 75089307 | 6 | Grease Zerk, 5/16" |
| 36 | 7500010-14 ^{cd} | 4 | Hex Bolt, 3/8-16 x 2-3/4" |
| 37 | 75085162 ^{cd} | 4 | Top Lock Nut, 3/8-16 |
| 38 | 75081348 ^{cd} | 2 | Roller, Plastic |
| 39 | 22750010 | 2 | Stop Block, 4-1/2" Spacing |
| 40 | 7500010-6 | 2 | Hex Bolt, 3/8-16 x 1" |
| 41 | 22797002 | 1 | Galvanized Mounting Hardware Kit (not shown) |

^A Included in Bearing Replacement Kit 80001314
^B Included in Pin Replacement Kit 80001315
^C Included in Parting Bar Assembly 22794001
^D Included in Parting Bar Assembly Galv 22794001GV



MOUNT FRAME ASSY, 4000 & 5000 LBS CAPACITY

WALTCO LIFT CORP.
HLF-40 & 50

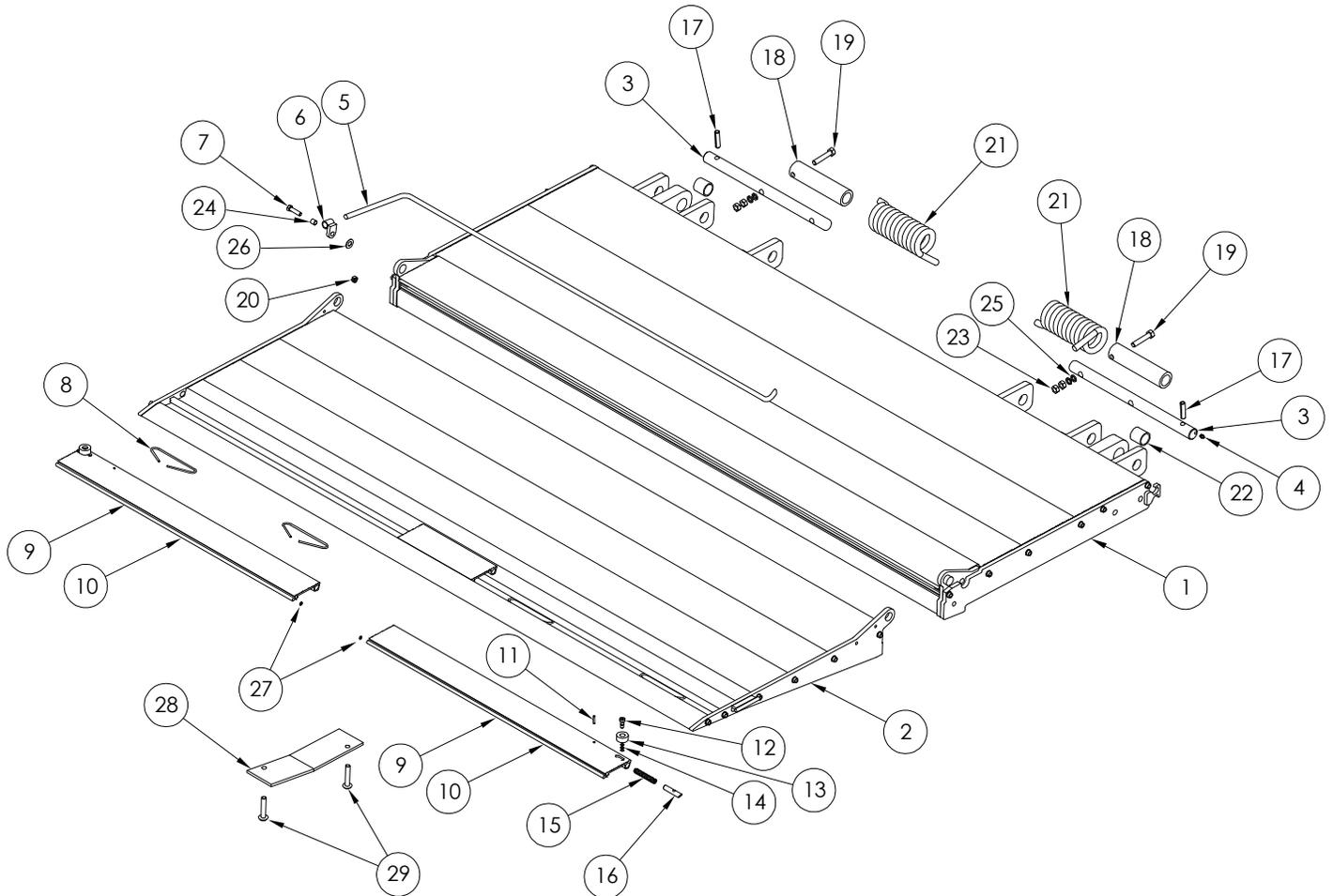
REVISED: 2-2016
E.O. 7921
REV 05

PM-792A

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|--------------------------------------|-----|---|
| 1 | 22711015 ^{AC} | 1 | Deck Assembly |
| | 22711020 ^{BD} | | Deck Assembly, Galvanized |
| 2 | 80004704 ^{CD} | 1 | Deck Extension Assembly, w/ Cart Stop Kit |
| | (22713015) | | |
| | 80004705 ^{AB} (22713016) | | Deck Extension Assembly |
| 3 | 22712001 ^{CS} | 2 | Pin Assembly, Deck (with grease zerk) |
| 4 | 75089307 ^{CS} | 2 | Grease Zerk, 5/16" |
| 5 | 26417701 ^{ABCD} | 1 | Torsion Bar |
| 6 | 26417301 ^{ABCD} | 1 | Torsion Bar Anchor |
| 7 | 75086219 ^{ABCD} | 1 | Hex Bolt, 3/8-16 x 1-1/2", Gr 8 |
| 8 | 42668440 | 4 | Spring, Cart Stop |
| 9 | 26414801 | 1 | Cart Stop Assembly Complete, Curbside |
| | 26414851 | | Cart Stop Assembly Complete, Driverside |
| 10 | 42669012 ^E | 1 | Cart Stop, Curbside |
| | 42669011 ^F | | Cart Stop, Driverside |
| 11 | 75089591 ^{EF} | 2 | Spring Pin, 3/16" x 7/8" |
| 12 | 7500019-4 ^{EF} | 2 | Socket Head Shoulder Bolt, 3/8" x 3/8" |
| 13 | 42669299 ^{EF} | 2 | Roll Stop |

| | | | |
|----|--------------------------|---|-------------------------------------|
| 14 | 42669286 ^{EF} | 6 | Shim |
| 15 | 75088268 ^{EF} | 2 | Spring, Cart Stop |
| 16 | 42669014 ^{EF} | 2 | Locking Pin, Cart Stop |
| 17 | 75089542 ^{CS} | 4 | Coil Pin, 1/2" Dia x 2" |
| 18 | 22716001 | 2 | Spacer Tube |
| | 22716005 | | Spacer Tube, Zinc Plated |
| 19 | 7500010-5 | 2 | Hex Bolt, 5/8-11 x 3", Gr 8 |
| 20 | 75085188 ^{ABCD} | 1 | Nut, 3/8-16, Centerlock |
| 21 | 22715002 | 2 | Spring, Platform |
| 22 | 10010192 ^H | 2 | Bearing, 1-1/4" ID x 1-1/2" |
| 23 | 7500065-2 | 2 | Jam Nut, Top Lock, 5/8-11 |
| 24 | 22714501 ^{ABCD} | 1 | Tube, SS, 1/2"OD x .402"ID x 1/2"LG |
| 25 | 75088085 | 4 | Lock Washer, 5/8" |
| 26 | 75088056 ^{ABCD} | 1 | Washer, 1/2" |
| 27 | 42669286 ^{EF} | 2 | Shim |
| 28 | 22713901 | 1 | Wear Pad |
| 29 | 75089475 | 2 | Blind Rivet, 1/4" |

- A Included with entire platform 22710016 60x84
- B Included with entire platform 22710021 60x84 galvanized
- C Included with entire platform 22710015 60x84 w/cart stops
- D Included with entire platform 22710020 60x84 w/cart stops galvanized
- E Included with 26414801 cart stop kit (curbside)
- F Included with 26414851 cart stop kit (driverside)
- G Included in Pin Replacement Kit 80001315
- H Included in Bearing Replacement Kit 80001314.



ALUMINUM PLATFORM ASSEMBLY

WALTCO LIFT CORP.

HLF-25 & 30

REVISED: 5-2016
E.O. 7921
REV 08

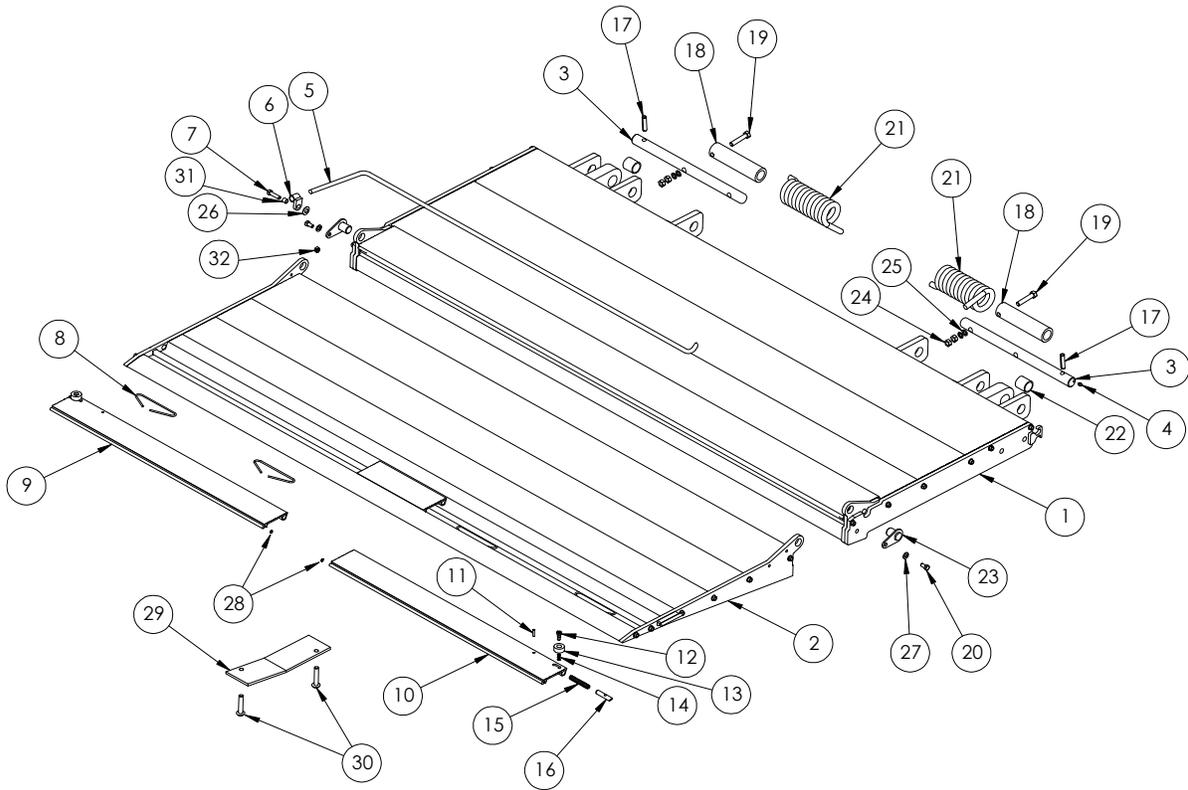
PM-839

5/30/2019

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|----------------------------|-----|--|
| 1 | 22711001 ^{AC} | 1 | Deck Assembly |
| | 22711001GV ^{BD} | | Deck Assembly, Galvanized |
| 2 | 22713001 ^{AB} | 1 | Deck Extension Assembly Complete, w/ Cart Stop |
| | 22713003 ^{CD} | | Deck Extension Assembly Complete |
| 3 | 22712001 ^G | 2 | Pin Assembly, Deck (with grease zerk) |
| 4 | 75089307 ^G | 2 | Grease Zerk, 5/16" |
| 5 | 26417701 ^{ABCD} | 1 | Torsion Bar |
| 6 | 26417301 ^{ABCD} | 1 | Torsion Bar Anchor |
| 7 | 7500010-22 ^{ABCD} | 1 | Hex Bolt, 3/8-16 x 2.0", Gr 8 |
| 8 | 42668440 | 4 | Spring, Cart Stop |
| 9 | 26414801 | 1 | Cart Stop Assembly Complete, Curbside |
| | 26414851 | | Cart Stop Assembly Complete, Driverside |
| 10 | 42669012 ^E | 1 | Cart Stop, Curbside |
| | 42669011 ^F | | Cart Stop, Driverside |
| 11 | 75089591 ^{EF} | 2 | Spring Pin, 3/16" x 7/8" |
| 12 | 7500019-4 ^{EF} | 2 | Socket Head Shoulder Bolt, 3/8" x 3/8" |
| 13 | 42669299 ^{EF} | 2 | Roll Stop |
| 14 | 42669286 ^{EF} | 6 | Shim |
| 15 | 75088268 ^{EF} | 2 | Spring, Cart Stop |
| 16 | 42669014 ^{EF} | 2 | Locking Pin, Cart Stop |
| 17 | 75089542 ^G | 4 | Coil Pin, 1/2" Dia x 2" |

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|----------------------------|-----|--------------------------------------|
| 18 | 22716001 | 2 | Spacer Tube |
| | 22716005 | | Spacer Tube, Zinc Plated |
| 19 | 7500010-5 | 2 | Hex Bolt, 5/8-11 x 3", Gr 8 |
| 20 | 7500010-15 ^{ABCD} | 2 | Hex Bolt, 3/8-16 x 5/8", Gr 8 |
| 21 | 22715002 | 2 | Spring, Platform |
| 22 | 10010192 ^H | 2 | Bearing, 1-1/4" ID x 1-1/2" |
| 23 | 1000101-6 ^{ABCD} | 2 | Pin Weldment |
| 24 | 7500065-2 | 4 | Jam Nut, Top Lock, 5/8-11 |
| 25 | 75088085 | 4 | Lock Washer, 5/8" |
| 26 | 75088056 ^{ABCD} | 1 | Washer, 1/2" |
| 27 | 75088081 ^{ABCD} | 2 | Lock Washer, 3/8" |
| 28 | 42669286 ^{EF} | 2 | Shim |
| 29 | 22713901 | 1 | Wear Pad |
| 30 | 75089475 | 2 | Blind Rivet, 1/4" |
| 31 | 22714501 ^{ABCD} | 1 | Tube, SS, 1/2"OD x .402"ID x 1/2" LG |
| 32 | 75085188 ^{ABCD} | 1 | Hex Bolt, 5/8-16, Centerlock |

- ^A Included with complete platform 22710001 60x84 w/cart stops
- ^B Included with complete platform 22710001GV 60x84 w/cart stops galvanized
- ^C Included with complete platform 22710003 60x84
- ^D Included with complete platform 22710003GV 60x84 galvanized
- ^E Included with 26414801 cart stop kit (curbside)
- ^F Included with 26414851 cart stop kit (driver side)
- ^G Included in Pin Replacement Kit 80001315.
- ^H Included in Bearing Replacement Kit 80001314.



ALUMINUM PLATFORM ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|------------------------|-----|---|
| 1 | 22760001 | 1 | Bed Extension, 96" Vehicles |
| | 22760002 | | Bed Extension, 102" Vehicles |
| | 22760003 | | Bed Extension, Heavy Duty, 96" Vehicles |
| | 22760004 | | Bed Extension, Heavy Duty, 102" Vehicles |
| | 22760005 | | Bed Extension, 96" Wide, Walk Ramp |
| | 22760006 | | Bed Extension, 102" Wide, Walk Ramp |
| | 22760007 | | Bed Extension, 96" Wide, Galvanized |
| | 22760008 | | Bed Extension, 102" Wide Galvanized |
| | 22760009 | | Bed Extension, 96" Wide, Walk Ramp, Galvanized |
| | 22760010 | | Bed Extension, 102" Wide, Walk Ramp, Galvanized |
| 2 | 26497001 | 1 | Dock Bumper, RH For Lights (Option) |
| 3 | 26497051 | 1 | Dock Bumper, LH For Lights (Option) |
| 4 | 26497002 | 1 | Dock Bumper, RH (Option) |
| | 26497004 | | Dock Bumper, RH, Galvanized (Option) |
| 5 | 26497052 | 1 | Dock Bumper, LH (Option) |
| | 26497054 | | Dock Bumper, LH, Galvanized (Option) |
| 6 | 26498501 | 1 | Stir-Up Assembly (Option) |
| | 26498505 | | Stir-Up Assembly, Galvanized (Option) |
| 7 | 26297604 ^B | 2 | Rubber Bumper, Long (Option) |
| 8 | 26297603 ^A | 2 | Rubber Bumper, Short (Option) |
| 9 | 75088067 ^{AB} | 6 | Washer, 1/2" (Option) |
| 10 | 75088085 | 8 | Lock Washer, 5/8" (Option) |
| 11 | 75086110 ^D | 6 | Hex Bolt, 1/2"-13 x 2-1/2" Lg. (Option) |
| 12 | 75086154 | 8 | Hex Bolt, 5/8"-11 x 1-3/4" Lg. (Option) |
| 13 | 75088064 | 12 | Washer, 5/8" (Option) |
| 14 | 26498102 | 1 | Angle Support, CS (25-1/8"Lg) (Option) |

| | | | |
|-----------------|-------------------------|----|--|
| | 26498102GV | | Angle Support, CS, Galvanized (25-1/8"Lg) (Option) |
| 15 | 26498152 | 1 | Angle Support, DS (25-1/8"Lg) (Option) |
| | 26498152GV | | Angle Support, DS, Galvanized (25-1/8"Lg) (Option) |
| 16 | 26498301 | 2 | Angle, 3" x 3" x 1/4" x 24" Lg. (Option) |
| 17 | 75086218 | 8 | Hex Bolt, 3/8"-16 x 1-1/4" (Option) |
| 18 | 75088081 | 8 | Lock Washer, 3/8" (Option) |
| 19 | 75088053 | 17 | Washer, 3/8" (Option) |
| 20 | 75085096 | 8 | Hex Nut, 3/8"-16 (Option) |
| 21 | 26498201 | 4 | Light Bracket (Option) |
| 22 | 75089334 | 2 | Grommet, 1/2" ID (Option) |
| 23 | 75086732 | 12 | Round Head Screw, #10-32 (Option) |
| 24 | 75085000 | 12 | Hex Nut, #10-32 (Option) |
| 25 | 22575200 | 2 | Harness, 2 Lamps (Option) |
| 26 | 75089376 | 4 | Light Grommet (Option) |
| 27 | 75089374 | 2 | Backup Light (Option) |
| 28 | 75089373 | 2 | Tail Light ST & T (Option) |
| 29 | 7500010-26 | 1 | Hex Bolt, 3/8"-16 x 2-1/2" Lg. (Option) |
| 30 | 22598100 | 1 | Transit Chain (Option) |
| 31 | 75085193 | 1 | Hex Lock Nut, 3/8"-16 (Option) |
| 32 | 7500010-23 ^A | 4 | Hex Bolt, 1/2"-13 x 3" Lg. (Option) |
| 33 | 75085012 | 4 | Hex Nut, 5/8"-11 (Option) |
| 34 | 75088083 ^{AB} | 6 | Lock Washer, 1/2" (Option) |
| 37 | 75085008 | 6 | Hex Nut, 1/2"-13 |
| 38 ^D | 20396000 | 2 | Rubber Snubber Assembly |
| 39 ^D | 26496101 | 2 | Angle, Snubber Bracket |
| 40 ^U | 75085003 | 4 | Hex Nut, 5/16-18, Serrated |

Dock Bumpers complete w/ Stirrups / Rubber Bumpers and Truck Lights:
26498004 CS and 26498054 DS -or- 26498004GV CS and 26498054GV DS

Dock Bumpers complete w/ Stirrups / Rubber Bumpers and Trailer Lights:
26498007 CS and 26498057 DS -or- 26498007GV CS and 26498057GV DS

Dock Bumpers complete w/ Stirrups / Rubber Bumpers:
26498005 CS and 26498055 DS -or- 26498005GV CS and 26498055GV DS

Dock Bumpers complete w/ Stirrups / Rubber (WITHOUT lights and wire harness):
26498010 CS and 26498060 DS -or- 26498010GV CS and 26498060GV DS

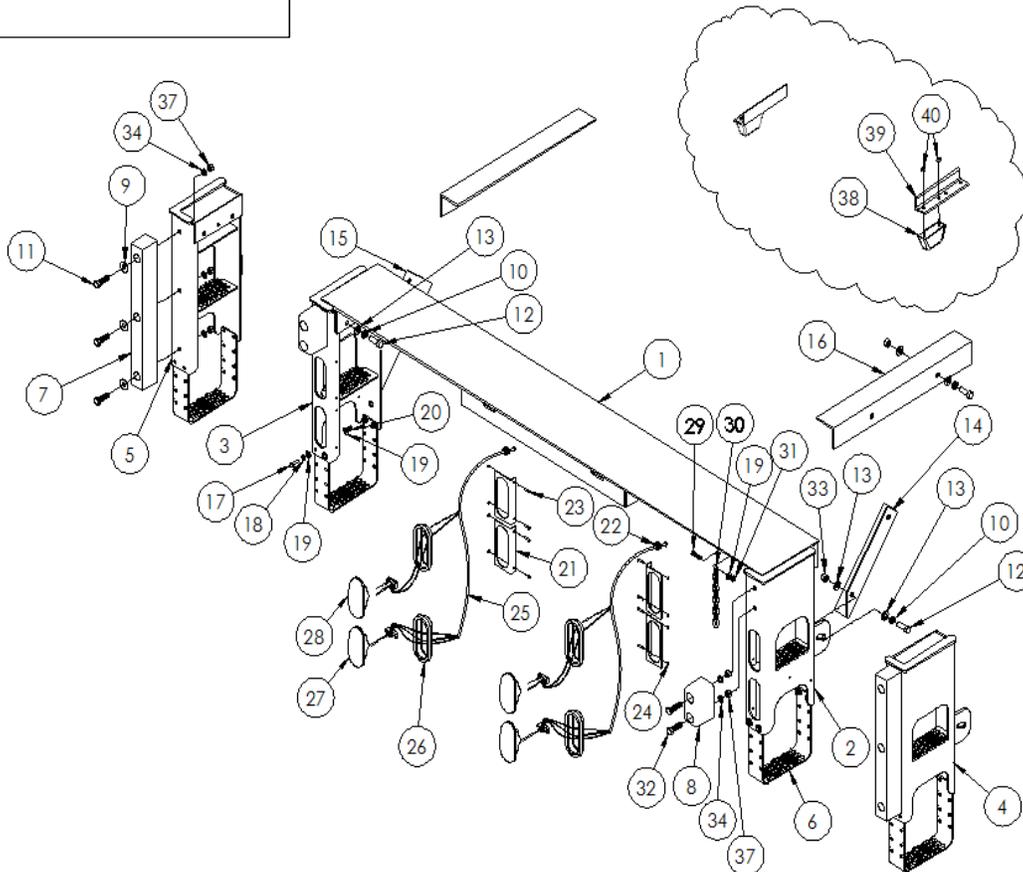
^A Included in 6" Rubber Bumper Kit 26496011
^B Included in 24" Rubber Bumper Kit 26496012

^C -GV" Indicates Galvanized option.

^D Included in 80001298 Rubber Snubber Kit

**Use for liftgates shipped before
12-14-2015**

**See PM-794A for liftgates
shipped after 12-14-2015**



BED EXTENSION AND LIGHT KIT OPTIONS

WALTCO LIFT CORP.
HLF-25, -30, -40 & -50

REVISED: 4-2016
E.O. 7897
REV 11

PM-794
5/30/2019

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------------------|-----|--|
| 1 | 22760001 | 1 | Bed Extension, 96" Vehicles |
| | 22760001GV | | Bed Extension, 96" Vehicles, Galvanized |
| | 22760002 | | Bed Extension, 102" Vehicles |
| | 22760002GV | | Bed Extension, 102" Vehicles, Galvanized |
| | 22760003 | | Bed Extension, Heavy Duty, 96" Vehicles |
| | 22760004 | | Bed Extension, Heavy Duty, 102" Vehicles |
| | 22760005 | | Bed Extension, 96" Wide, Walk Ramp |
| | 22760005GV | | Bed Extension, 96", Walk Ramp, Galv |
| | 22760006 | | Bed Extension, 102" Wide, Walk Ramp |
| | 22760007GV | | Bed Extension, 102", Walk Ramp, Galv |
| | 22760007 | | Bed Extension, 96" Wide, Galvanized |
| | 22760008 | | Bed Extension, 102" Wide Galvanized |
| | 22760009 | | Bed Extension, 96" Walk Ramp, Galv |
| | 22760010 | | Bed Extension, 102" Walk Ramp, Galv |
| | 22760011GV | | Bed Extension, 102", Multivans Walk Ramp, Galvanized |
| 2 | 26497011 ^D | 1 | Dock Bumper, RH For Lights (Option) |
| | 26497011GV ^D | | Dock Bumper, RH For Lights, Galvanized (Option) |
| 3 | 26497061 ^D | 1 | Dock Bumper, LH For Lights (Option) |
| | 26497061GV ^D | | Dock Bumper, LH For Lights, Galvanized (Option) |
| 4 | 26497010 ^D | 1 | Dock Bumper, RH (Option) |
| | 26497010GV ^D | | Dock Bumper, RH, Galvanized (Option) |
| 5 | 26497060 ^D | 1 | Dock Bumper, LH (Option) |
| | 26497060GV ^D | | Dock Bumper, LH, Galvanized (Option) |
| 6 | 26498501 | 2 | Stir-Up Assembly (Option) |
| | 26498501GV | | Stir-Up Assembly, Galvanized (Option) |
| 7 | 26498703 ^B | 2 | UHMW Bumper, Long (Option) |
| 8 | 26498702 ^A | 2 | UHMW Bumper, Short (Option) |
| 9 | 75088067 ^{AB} | 6 | Washer, 1/2" (Option) |
| 10 | 75088085 ^{EF} | 8 | Lock Washer, 5/8" (Option) |
| 11 | 75086108 ^{AB} | 6 | Hex Bolt, 1/2"-13 x 1-1/2" Lg. (Option) |
| 12 | 75086154 ^{EF} | 8 | Hex Bolt, 5/8"-11 x 1-3/4" Lg. (Option) |

| | | | |
|----|-------------------------|----|--|
| 13 | 75088064 ^{EF} | 12 | Washer, 5/8" (Option) |
| 14 | 26498102 ^E | 1 | Angle Support, CS (25-1/8"Lg) (Option) |
| | 26498102GV ^F | | Angle Support, CS, Galvanized (25-1/8"Lg) (Option) |
| 15 | 26498152 ^E | 1 | Angle Support, DS (25-1/8"Lg) (Option) |
| | 26498152GV ^F | | Angle Support, DS, Galvanized (25-1/8"Lg) (Option) |
| 16 | 26498301 ^{EF} | 2 | Angle, 3" x 3" x 1/4" x 24" Lg. (Option) |
| 17 | 75086218 | 8 | Hex Bolt, 3/8"-16 x 1-1/4" (Option) |
| 18 | | | |
| 19 | 75088053 ^G | 17 | Washer, 3/8" (Option) |
| 20 | 75085005 | 8 | Serrated Hex Nut, 3/8"-16 (Option) |
| 21 | 26498201 | 4 | Light Bracket (Option) |
| 22 | 75089334 | 2 | Grommet, 1/2" ID (Option) |
| 23 | 75086732 | 12 | Round Head Screw, #10-32 (Option) |
| 24 | 75085000 | 12 | Hex Nut, #10-32 (Option) |
| 25 | 22797200 | 2 | Harness, 2 Lamps (Option) |
| 26 | 75089376 | 4 | Light Grommet (Option) |
| 27 | 75089474 | 2 | Backup Light (Option) |
| 28 | 75089463 | 2 | Tail Light ST & T (Option) |
| 29 | 7500010-26 ^G | 1 | Hex Bolt, 3/8"-16 x 2-1/2" Lg. (Option) |
| 30 | 22598100 ^G | 1 | Transit Chain (Option) |
| 31 | 75085193 ^G | 1 | Hex Lock Nut, 3/8"-16 (Option) |
| 32 | 26498550 | 2 | Wire Rope Step Assembly (Option) |
| 33 | 75085012 ^{EF} | 4 | Hex Bolt, 5/8"-11 (Option) |
| 34 | 75088083 ^{AB} | 6 | Lock Washer, 1/2" (Option) |
| 37 | 75085008 ^{AB} | 6 | Hex Nut, 1/2"-13 |
| 38 | 20396000 ^C | 2 | Rubber Snubber Assembly |
| 39 | 26496101 ^C | 2 | Angle, Snubber Bracket |
| 40 | 75085003 ^C | 4 | Hex Nut, 5/16-18, Serrated |

Dock Bumpers complete / UHMW Bumpers and Truck Lights:
26498013 CS and 26498063 DS –or- 26498013GV CS and 26498063GV DS

Dock Bumpers complete / UHMW Bumpers and Trailer Lights:
26498012 CS and 26498062 DS –or- 26498012GV CS and 26498062GV DS

Dock Bumpers complete / UHMW Bumpers:
26498011 CS and 26498061 DS –or- 26498011GV CS and 26498061GV DS

Dock Bumpers complete / UHMW (WITHOUT lights and wire harness):
26498014 CS and 26498064 DS –or- 26498014GV CS and 26498064GV DS

^A Included in Short UHMW Bumper Kit 26496013

^B Included in Long UHMW Bumper Kit 26496014

^C Included in 80001298 Rubber Snubber Kit

^D These are dock bumper weldments only

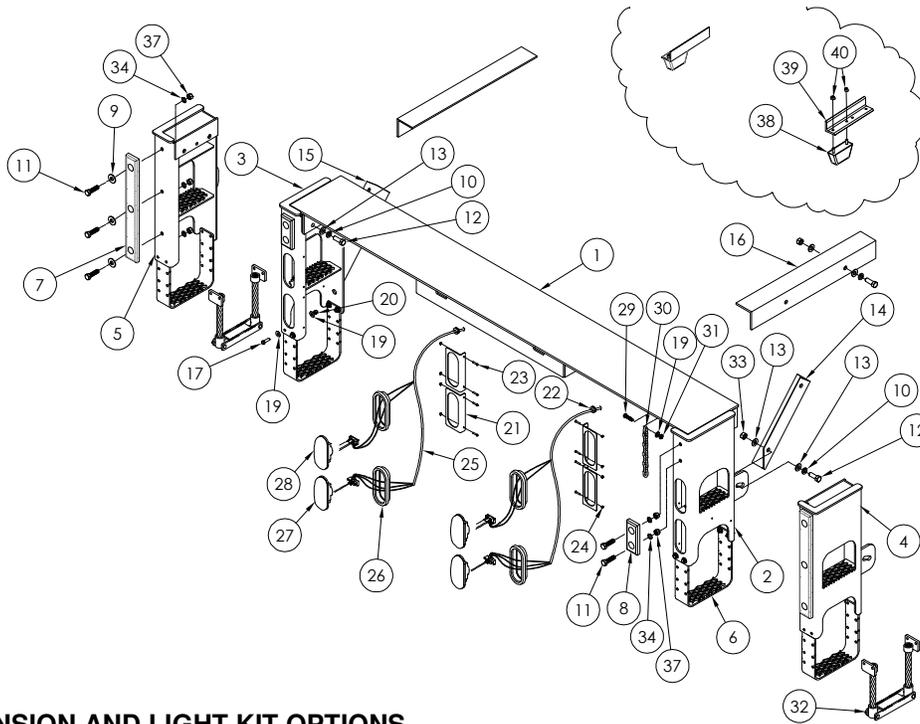
^E Included in Dock Bumper Brace Kit 22796020

^F Included in Galvanized Dock Bumper Brace Kit 22796020GV

^G Included in Chain Anchor Kit 22745001

**Use for liftgates shipped after
12-14-2015**

**See PM-794 for liftgates
shipped before 12-14-2015**



BED EXTENSION AND LIGHT KIT OPTIONS

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|------------------------|-----|--|
| 1 | 70430610 | 1 | Hydraulic Pump Unit, 2400 PSI, HLF-25, 30 |
| | 70430620 | | Hydraulic Pump Unit, 3200 PSI, HLF-40, 50 |
| A | 70401513 ^A | 1 | Hydraulic Reservoir |
| B | 70091734 ^A | 1 | Breather |
| C | 7043002-1 ^A | 1 | Motor |
| D | 70092403 ^A | 2 | Starter Solenoid (4 Post) |
| E | 70092503 ^A | 1 | Valve Assembly, 2-way, 2 pos w/ Coil |
| F | 75089854 ^A | 1 | Fuse, 15 Amp |
| G | 10099309 ^A | 1 | Inline Fuse Assembly (Includes Fuse 75089854) |
| H | 70400014 ^A | 1 | Valve Assembly, 4-way, 2 pos w/ Coil |
| J | 75089473 ^A | 1 | Ground Cable (Part of Dual Cable) |
| K | 70091291 ^A | 1 | Steel Plug |
| L | 70091779 ^A | 1 | Connecting Strap |
| M | 70091778 ^A | 2 | Solenoid Cable |
| N | 70402303 ^A | 2 | Coil, 12V, 25 Watt |
| P | 70401414 ^A | 1 | Plug, SAE O-ring, 9/16-18 Hex |
| 2 | 22780060 | 2 | Hydraulic Cylinder, HLF-25, 30, & 40 |
| | 22780050 | | Hydraulic Cylinder, HLF-50 |
| 3 | 75089251 ^B | 4 | Clamp Half, Hose |
| | 75089252 ^B | 2 | Cover Plate, Hose Clamp |
| | 75089253 ^B | 2 | Hex Bolt, 5/16-18 x 1-3/4" |
| 4 | 22718501 | 1 | Hose Guard Assembly |
| | 22718505 | | Hose Guard Assembly, Zinc Plated |
| 5 | 75082894 | 2 | Bulkhead Elbow, 90, 3/8" JIC M X 3/8" JIC M with Nut |
| 6 | 75082869 | 4 | Elbow, 90, 3/8" JIC M X 3/8" ORB M |
| 7 | 75083132 | 2 | Tee, 3/8" JIC M X 3/8" ORB M |
| 8 | 22781010 | 1 | Lock Valve Harness |
| 9 | 7500077-16 | 2 | Hose, 3/8" ID X 3/8" JIC |
| 10 | 7500077-15 | 2 | Hose, 3/8" ID X 3/8" JIC |
| 11 | 22796201 | 1 | Hardline Hose Assembly, 3/8" JIC |
| 12 | 22796101 | 1 | Hardline Hose Assembly, 3/8" JIC |

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|-----------------------------------|
| 13 | 7500111-1 | 2 | Bushing, 9/16" ID x 1" OD x 14 Ga |
| 14 | 22781503 | 1 | Cylinder Lock Valve |

^A Included in Pump Assembly 70430610 & 70430620.

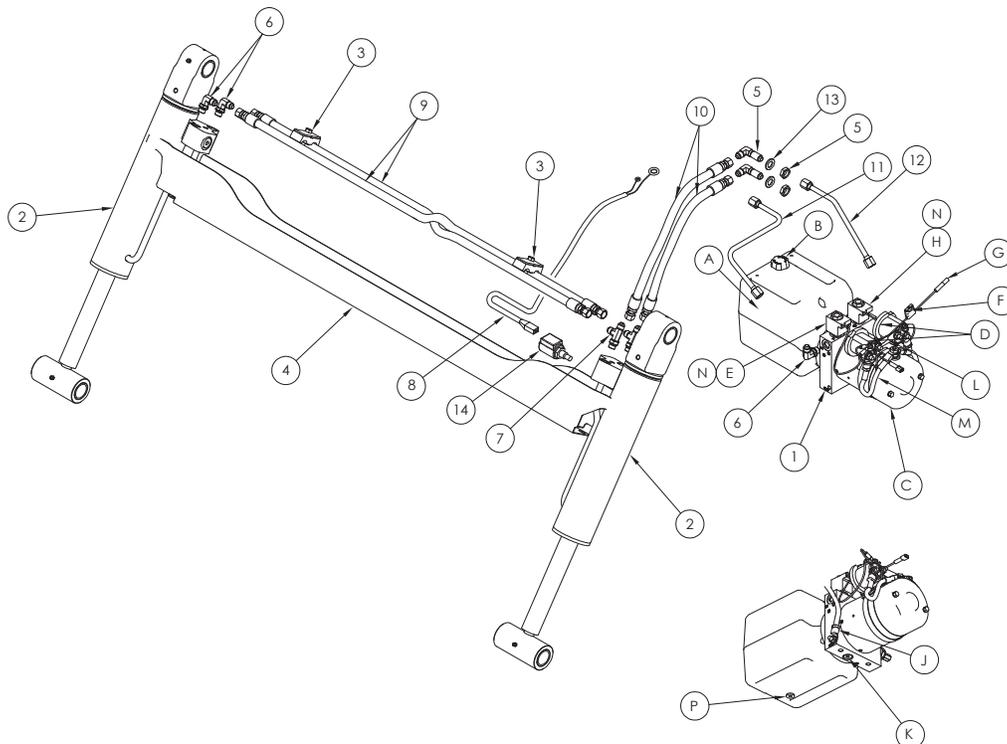
^B Included in Hose Guard Assembly 22718501 & 22718505.

WALTCO LIFT CORP.
HLF-25, -30, -40, & -50

REVISED: 4-4-2016
E.O. 7897
REV. 14

PM-795

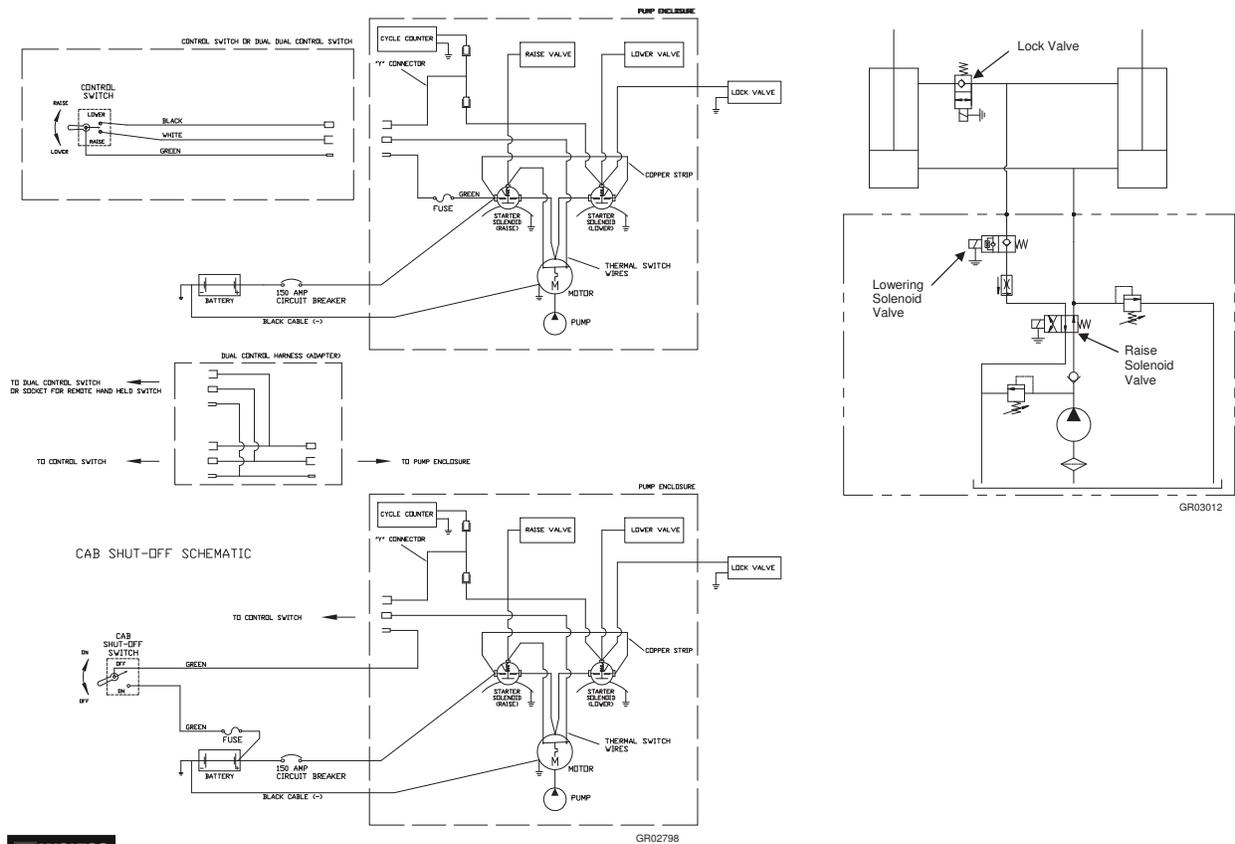
HYDRAULIC LAYOUT



WALTCO LIFT CORP.
HLF-25, -30, -40, & -50

REVISED: 4-4-2016
E.O. 7897
REV. 14

PM-795



WALTCO LIFT CORP.
HLF-25, 30, 40, & 50

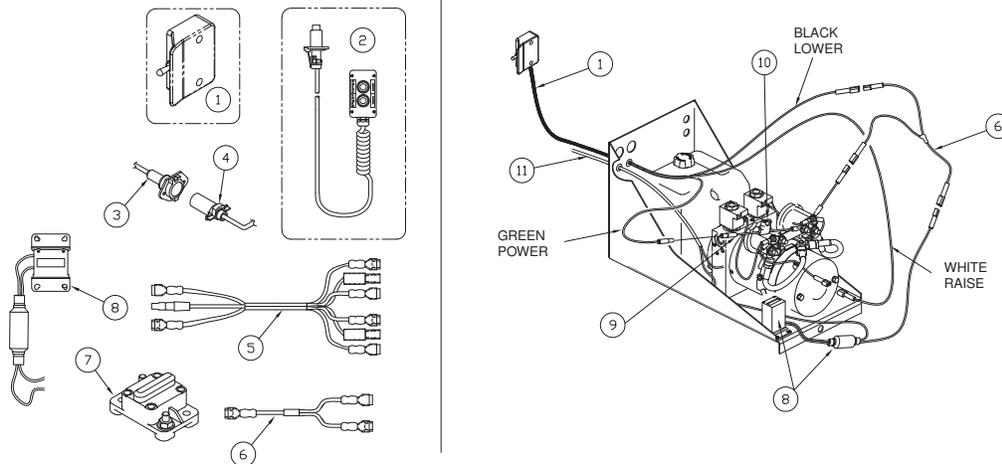
REVISED: 5-2016
E.O. 7921
REV. 08

PM-796

ELECTRIC CONTROL OPTIONS

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-----------------------|-----|--|
| 1 | 80001429 | 1 | Switch Kit w/10ft Cord |
| 2 | 10099325 ^A | 1 | Switch (Hand Held Remote) |
| 3 | 75082038 | 1 | Trailer Socket |
| 4 | 75082037 | 1 | Trailer Plug |
| 5 | 10098413 ^A | 1 | Dual Control Harness |
| 6 | 10098904 | 1 | "Y" Connector |
| 7 | 75089243 | 1 | 150 Amp Circuit Breaker, HLF 25, 30,40 |
| | 75089254 | | 200 Amp Circuit Breaker, HLF-50 |
| 8 | 80001312 | 1 | Cycle Counter Kit |
| 9 | 10099309 | 1 | Fuse Holder |
| 10 | 75089854 | 1 | 15 Amp Fuse |
| 11 | 22781010 | 1 | Lock Valve Harness |

^A Included in Switch Hand Held Remote Kit 80000430.



WALTCO LIFT CORP.
HLF-25, 30, 40, & 50

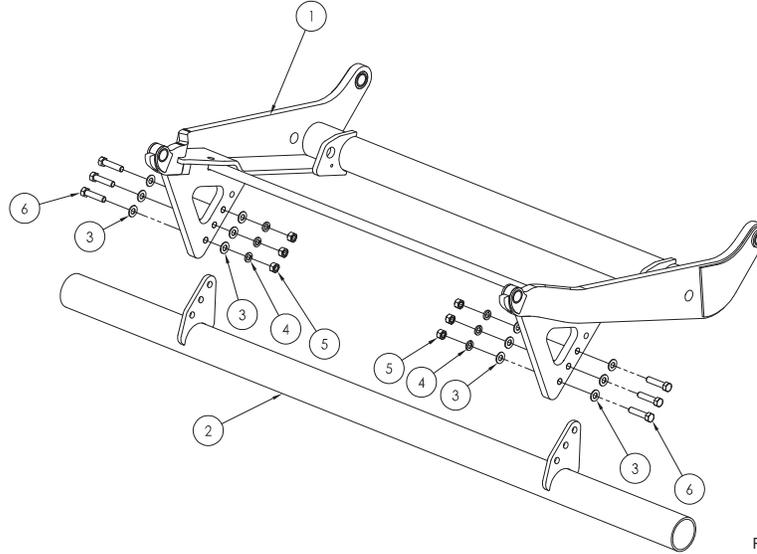
REVISED: 5-2016
E.O. 7921
REV. 08

PM-796

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|---------------------------|-----|---|
| 1 | | 1 | Lift Arm Weldment, Under-Ride |
| 2 | 22780003 ^A | 1 | Under-Ride Bumper Weldment 96" |
| | 22780003GV ^B | | Under-Ride Bumper Weldment 96", Galvanized |
| | 22780004 ^C | | Under-Ride Bumper Weldment 102" |
| | 22780004GV ^D | | Under-Ride Bumper Weldment 102", Galvanized |
| 3 | 75088064 ^{ABCD} | 12 | Washer, 5/8" |
| 4 | 75088085 ^{ABCD} | 6 | Lock Washer, 5/8" |
| 5 | 75085012 ^{ABCD} | 6 | Hex Nut, 5/8-11 |
| 6 | 7500010-7 ^{ABCD} | 6 | Hex Bolt, 5/8-11 x 2-3/4" |

UNDER-RIDE BUMPER ASSEMBLY HLF

- ^A Included in Under-Ride Bumper Kit 22796015
^B Included in Under-Ride Bumper Kit, Galvanized 22796015GV
^C Included in Under-Ride Bumper Kit 22796016
^D Included in Under-Ride Bumper Kit, Galvanized 22796016GV



WALTCO LIFT CORP.
HLF

REVISED: 7/2013
E.O. 6909A
REV. 01

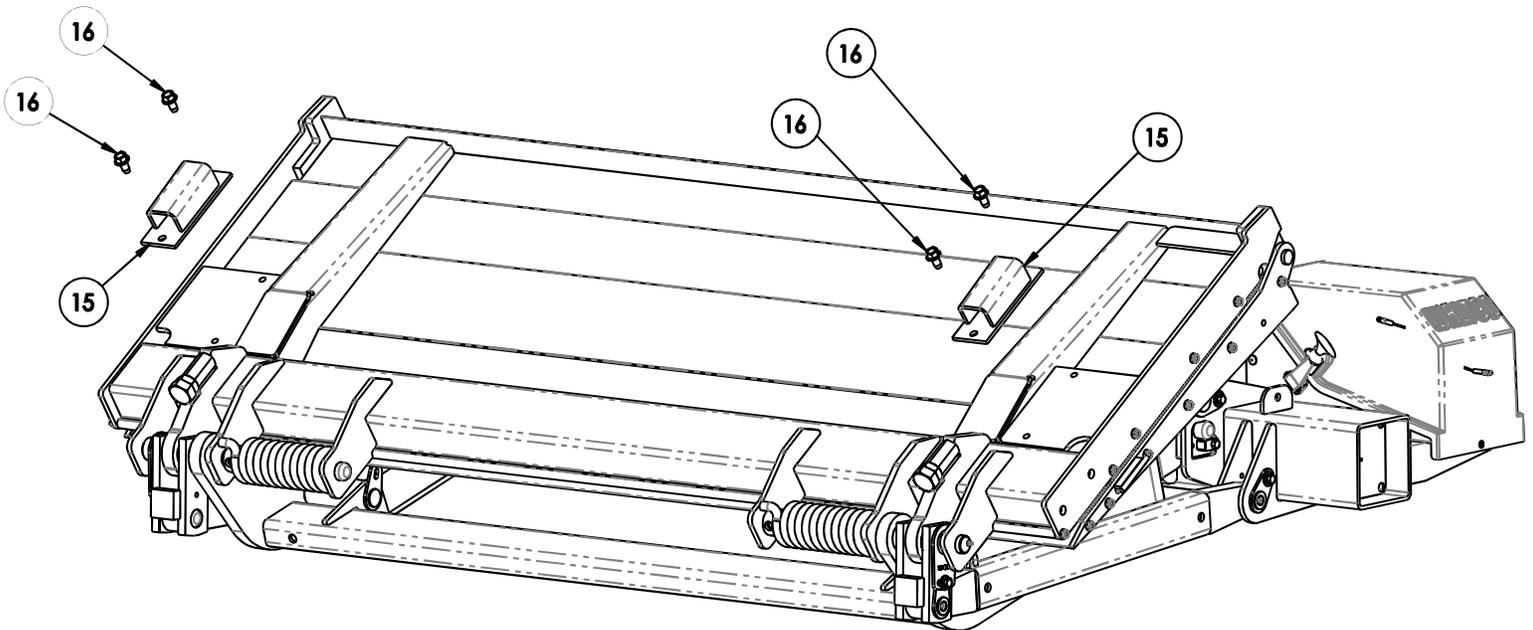
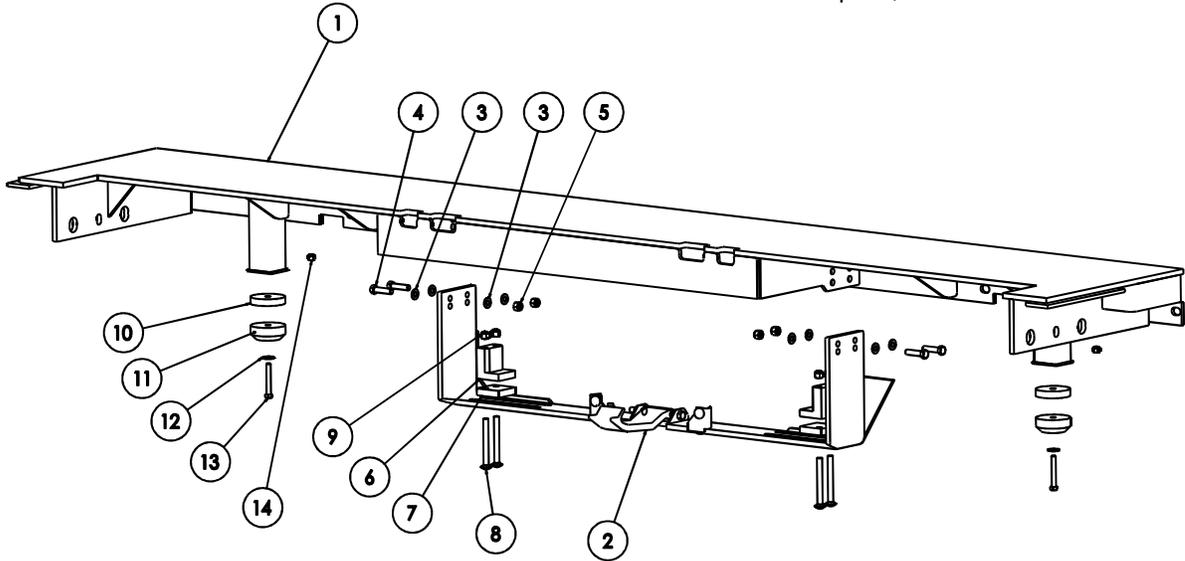
PM-874

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------------------|-----|--------------------------------|
| 1 | | 1 | Bed Extension, Walk Ramp |
| 2 | 22765001 ^A | 1 | Walk Ramp Assembly |
| | 22765001GV ^B | | Walk Ramp Assembly, Galvanized |
| 3 | 75088053 ^{AB} | 8 | Washer, 3/8" |
| 4 | 75086058 ^{AB} | 8 | Hex Bolt, 3/8-16 x 1-1/2" |
| 5 | 75085185 ^{AB} | 4 | Nut, 3/8-16, Lock |
| 6 | 22765201 ^{AB} | 2 | Walk Ramp Guide, UHMW |
| 7 | 22765250 ^{AB} | 2 | Spacer, Walk Ramp Guide, UHMW |
| 8 | 75087505 ^{AB} | 4 | Carriage Bolt, 3/8-16 x 3-1/2" |
| 9 | 75085185 ^{AB} | 4 | Nut, 3/8-16, Lock |

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|--------------------------|-----|--------------------------------------|
| 10 | 22765260 ^{AB} | 4 | Spacer, Puck, UHMW |
| 11 | 22714201 ^{AB} | 2 | Guide, Puck, UHMW |
| 12 | 75088052 ^{AB} | 2 | Washer, 5/16" |
| 13 | 7500010-38 ^{AB} | 2 | Hex Bolt, 5/16-18 x 2-1/4" |
| 14 | 75085177 ^{AB} | 2 | Nut, 5/16-18, Lock |
| 15 | 22716801 ^A | 2 | Up-Stop Bracket |
| | 22716801GV ^B | | Up-Stop Bracket, Galvanized (option) |
| 16 | 75086864 ^{AB} | 4 | Hex Screw, 1/2-13 x 1", self-tapping |

^A Included in Walk Ramp Kit 22766001

^B Included in Walk Ramp Kit, Galvanized 22766001GV



WALK RAMP ASSEMBLY (HLF)

WALTCO LIFT CORP.
HLF-40 & 50

REVISED: 1-12-15
E.O. 7630
REV 02

PM-875

5/30/2019

Decals

To order complete set of HLF-Series liftgate decals, order kits below:

HLF-25 = Kit part number 80002130

HLF-30 = Kit part number 80002131

HLF-40 = Kit part number 80002132

HLF-50 = Kit part number 80002133

Decals

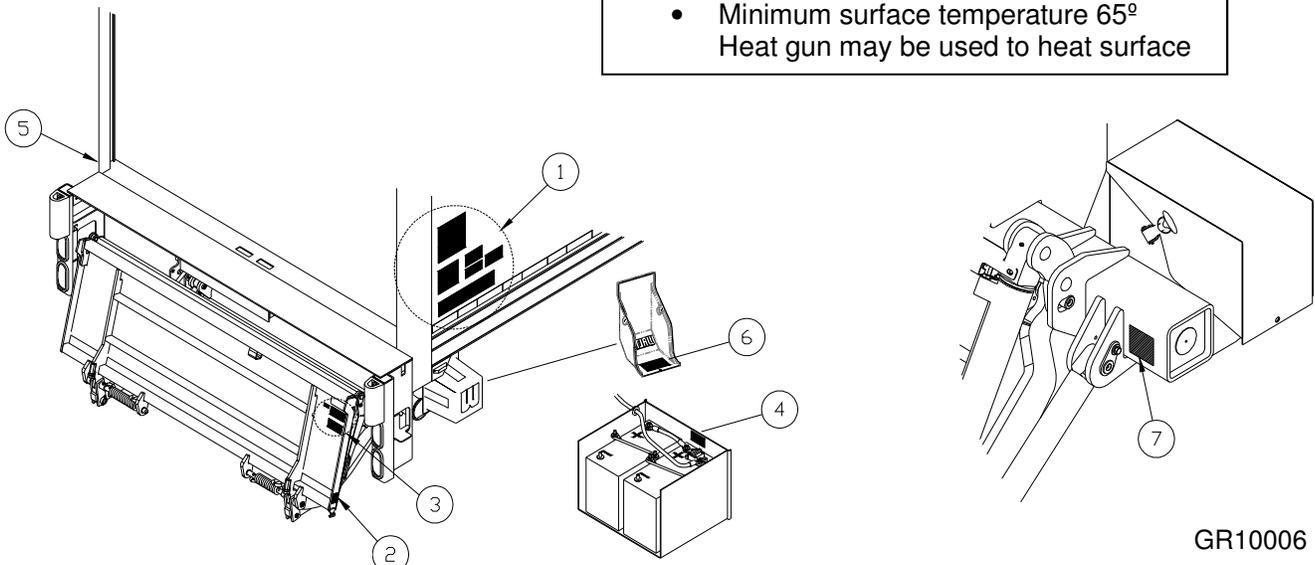


All decals must be in place and legible or all warranties are void.

| ITEM | DECAL | QTY | PART NO. | LOCATION |
|------|--------------------------|-----|----------|---|
| 1 | Safety Instructions | 1 | 80100850 | <p>Locate in a conspicuous place near controls.</p> <p> If your liftgate is equipped with dual controls, an additional Safety Instruction decal (80100850) is to be placed in a conspicuous place near the second set of controls.</p> <p>Refer to the following diagram showing decal locations.</p> |
| | Operation | 1 | 80101664 | |
| | Hazard Decal | 1 | 80101370 | |
| | Important Decal | 1 | 80100828 | |
| | Motor Thermal Switch | 1 | 80101480 | |
| | Stand Clear Decal | 1 | 75089296 | |
| 2 | Capacity Decal-2500lb | 1 | 80100255 | <p>Locate on curbside of platform (Position so as to be read when platform is open)</p> |
| | Capacity Decal-3000lb | 1 | 80100257 | |
| | Capacity Decal-4000lb | 1 | 80100260 | |
| | Capacity Decal-5000lb | 1 | 80100263 | |
| 3 | Use Handle Decal | 1 | 75089295 | <p>Locate near platform handle (Positioned so as to be read when platform is being unfolded into loading position)</p> |
| | Stand Clear Decal | 1 | 75089296 | |
| | Capacity Decal-2500lb | 1 | 80100255 | |
| | Capacity Decal-3000lb | 1 | 80100257 | |
| | Capacity Decal-4000lb | 1 | 80100260 | |
| | Capacity Decal-5000lb | 1 | 80100263 | |
| 4 | Circuit Breaker Decal | 1 | 80100829 | <p>Locate next to liftgate circuit breaker. In applications where more than one circuit breaker is used, this decal must be placed in both locations</p> |
| 5 | Stand Clear Decal | 1 | 75089296 | Locate on driver's side of vehicle body near liftgate |
| 6 | Schematics Decal | 1 | 80101622 | Locate inside of pump box cover |
| 7 | Made in the U.S.A. Decal | 1 | 80101318 | Locate curbside of tube outside of lift arm. |

To maximize decal adhesion to surfaces:

- Surface must be dry and clean
- Firm pressure must be applied to decal
- Minimum surface temperature 65°
Heat gun may be used to heat surface



GR10006

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.

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

THEN INCLUDE THE FOLLOWING INFORMATION:

5. PART NUMBERS
6. DESCRIPTION
7. QUANTITY REQUIRED

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

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

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.



TECH SUPPORT CONTACT INFORMATION: 800.211.3074

Rich Hall, Inside Technical Support
330.630.7780, richard.hall@hiab.com

Rob Resmer, Canada
416.200.3090, robert.resmer@hiab.com

Robert Tonon, Eastern US / Canada
716.553.5122, robert.tonon@hiab.com

Jose Ramirez, Western US
626.362.1006, jose.ramirez@hiab.com

WARRANTY CONTACT INFORMATION: 800.211.3074 Fax 800.411.5684

Greg Gasser, North American Warranty Manager
330.208.7166 greg.gasser@hiab.com

WALTCO ORIGINAL PARTS
800.411.5685 Fax 800.411.5684 parts@waltco.com