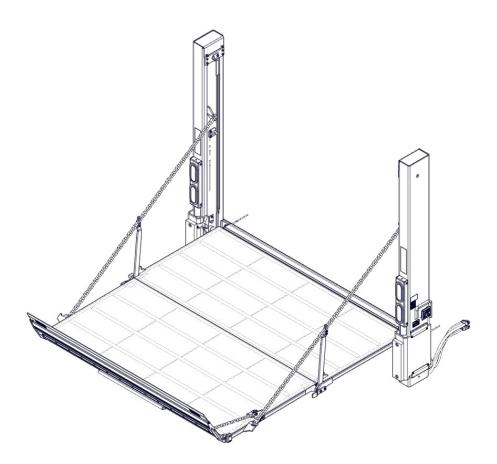


www.waltco.com sales@waltco.com

# **Owner's Manual**

# WDV, WDVBG

3500, 4500, 5500, 6600 lb. Capacity Rail-Type Liftgates



| Last Change       |                          |   |                    |  |  |
|-------------------|--------------------------|---|--------------------|--|--|
| Date              | Page(s)                  | Description   |                    |  |  |
| 4/2016            | 11,13,16,17,20,23-<br>26 | UPDATED TO NEW STANDARDS, ADDED CYCLI<br>COUNTER TO SCHEMATICS & ADDED GRAVITY<br>DOWN SCHEMATICS |                    |  |  |
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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 this manual and all warning and operation decals before operating and/or performing maintenance on this liftgate.

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### INTRODUCTION

If anyone observes improper installation, improper operation, or damage, they should immediately contact a qualified person for assistance and correction. We strongly urge anyone that has any questions or doubts as to the installation, condition, use, operation, maintenance or repair of the liftgate to contact us at Waltco where we have qualified personnel that will be happy to assist you. Telephone numbers and addresses of these locations are listed in the Owner's Manual and Installation Instructions.

#### INSTALLATION

Waltco liftgates should only be installed by those with sufficient basic skills to understand the installation and operation of the liftgate, along with the equipment on which the liftgate is being installed. Waltco's installation instructions are not intended to give rationale for all the instructions that are given; however, it is the intent of these instructions to give the installer both the operations and what we believe to be the most desirable sequence of implementing these operations. These instructions can in no way expand into an area where they will replace a qualified person, or clear thinking and a basic knowledge that must be possessed by the installer.

It has been our experience that a knowledgeable journeyman following these instructions and observing the operation of the liftgate will have a sufficient comprehension of the liftgate to enable this person to troubleshoot and correct all normal problems that may be encountered.

Failure to follow the installation instructions, adjustments and mounting dimensions may result in improper and unsafe operation of the liftgate. Unauthorized alterations of the liftgate can cause an undesirable and dangerous condition.

#### **OWNER'S MANUAL**

The Waltco Owner's Manual is intended to act as a guide for operation and routine maintenance but is no way intended to encourage usage or repair of the liftgate by those who are not qualified to do so.

The contents of the owner's manual include, but are not limited to general operation instructions, routine lubrication, parts lists, and an outline of things that should be checked but may not be obvious to those not technically qualified. This manual assumes the liftgate is properly installed, undamaged and operates correctly. Improper installation, improper operation, or damage should be immediately corrected by a qualified person.

#### INSPECTION

As part of the regular inspection of a liftgate and after damage or suspicion of an overload, inspect for wear or structural damage and make necessary repairs or replacements. Check all structural components and their attachment to the liftgate for cracked welds, loose fasteners, wear and part deformation. Check cylinder and hose for leaks. Inspections and repairs should be made by a qualified mechanic.

#### **REPLACEMENT PARTS**

Use only Waltco original equipment replacement parts. Components of other liftgate manufacturers may outwardly appear to be the same but are not interchangeable with Waltco products. Waltco components are specifically designed for safety requirements, reliability and compatibility with our products. Refer to your Waltco parts manual when ordering parts. NOTE: When ordering, give model and serial number of liftgate.

#### DECALS

It is important that every vehicle that has a WALTCO Liftgate have legible 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.

Additional DECALS and OWNER'S MANUALS can be obtained from WALTCO LIFT CORP.

## Chapter 1 **A** Safety Information

### **WARNING**

#### Read, understand, and follow all of the warning listed below.

#### Failure to follow these warning could result in severe personal injury or death.

- Read and understand the Owner's Manual, all decals and warning on liftgate before operating liftgate.
- Do not operate liftgate without a thorough knowledge and understanding of the operation of the liftgate.
- Liftgate hazards can result in crushing or falling.
- This liftgate is designed for loading and unloading of cargo. If personnel are required to ride liftgate, observe and familiarize yourself with the liftgate operation, decals and manuals. Ensure stable footing at all times.
- Do not ride liftgate with unstable loads.
- Wheeled loads must be properly retained from rolling.
- Tall, high center of gravity loads must be retained from falling over.
- Never overload liftgate: Load platform as close to the vehicle, and towards the middle of the platform as possible. Refer to owner's manual and capacity decal of liftgate for maximum load and load placement.
- Keep hands and feet clear of all potential pinch points.
- Never use liftgate if it makes any unusual noise, has unusual vibration, raises or lowers unevenly, or fails to
  operate smoothly.
- Never use liftgate if it shows any signs of structural damage such as cracked welds, bent or distorted members.
- Do not attempt any repairs unless you are qualified to do so. Care should be taken when work is performed on a disabled liftgate located near moving traffic. When possible the vehicle should be moved away from traffic areas for repair. Precautionary measures should be taken to ensure personal safety including those recommended in Federal Motor Vehicle Safety Standards 571.125.
- When welding to liftgate, or liftgate components, take all necessary safety precautions, including using respiratory protection and other pertinent personal protective gear when welding harmful materials.
- All protective covers, guards, and safety devices must be in place and access doors closed before operating liftgate.
- Do not allow anyone to stand in, or near area, in which Platform will open and close before opening or closing Platform.
- Do not allow anyone to stand near the Platform where a falling load could land on them.
- Platform is always to be properly stored and secured for transit. See the Owner's Manual for details.
- Take care to retain cargo during transit for liftgate Platforms which function as the tailgate or door of the cargo area. Small objects can fall through the space between the vehicle and the folded Platform.
- A Lock-Out device or Shut-Off Switch should always be used to prevent unauthorized use of liftgate.
- For liftgates with Runners, never use liftgate if Runners do not travel freely and smoothly.
- For liftgates with Roller Lifting Chain, the Chain should be replaced every (5) five years or 15,000 cycles, whichever comes first. Replace only with Waltco approved Roller Chain.
- Never transfer loads which exceed lifting capacity on or over any part of the Platform unless the liftgate is equipped with a special reinforced Platform and Platform Support Bars for use when the Platform is used as loading ramp (dock board). Refer to the "Using Platform as a loading ramp" Chapter in the Operation Instructions of the BZ/RZ series Owner's Manual.
- For liftgates equipped with Trailer Hitches, never exceed the rated capacity of the hitch. Do not exceed the vehicle's weight rating. Refer to the vehicle's Owner's Manual.
- Vehicle must comply with all state and federal standards.
- Follow the "Maintenance Guide" chapter in the Owner's Manual.

## Chapter 1 **A** Safety Information

#### Liftgates with Tilt Function

- Proper use of the Control Switches is of extreme importance.
- Improper use of Tilt Switch could cause load to fall from the Platform or damage the liftgate.
- Platform should be in a generally horizontal position when raising or lowering with a load.
- In any tilt position, the Platform may vary from level while raising or lowering the Platform.

#### Liftgates equipped with spring operated Cam Closer

• Replace Cam Release Spring every five (5) years or 15,000 cycles, whichever comes first.

#### **RGL-Series Liftgates**

- Make certain Platform Brake mechanisms are operating properly.
- The Runners are always to remain powered up against the Upstops Pins when in transit.
- Inspect Cables every three (3) months or 750 cycles, whichever comes first. Cables must be replaced if they show signs of wear, distortion, kinking or if any broken wires are visible
- Replace cables every five (5) years or 10,000 cycles, whichever comes first.



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.

#### SIGNAL WORDS

#### WARNING

Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

Black letters on an orange background

#### CAUTION

Indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. May also be used to alert against unsafe practices.

Black letters on a yellow background.

#### NOTICE

Indicates a potentially hazardous situation, which if not avoided, may result in property damage.



NOTICE

WALTCO warrants its products free of defects in materials and workmanship.

WALTCO will replace components found defective during the warranty period. Labor will be reimbursed according to our flat rate labor schedule at the prevailing shop rate.

Contact our Sales or Warranty departments for the warranty period of your model or for information regarding our flat rate labor schedule.

### WALTCO Warranty Claim Procedure

For consideration, all claims must be received within 30 days of repair and include the following information:

- Liftgate Serial Number
- Description of problem and corrective actions
- Itemization of the labor charge to include the number of hours and labor rate

#### Replacement warranty parts can be obtained by contacting Waltco's Parts Department. Parts must be returned for inspection when requested.

Exclusions:

Waltco's warranty does not include reimbursement for service calls, vehicle rental, towing, travel time, fabrication of parts available from WALTCO, damage from misuse or abuse, negligence, accidents, alteration, loss of income or overtime expense, oil, or normal wear.

Diagnosis and troubleshooting time are included in the flat rate labor times.

Warranty and technical information is available from WALTCO's toll free customer service lines from 8:00 a.m. to 5:00 p.m. EST.

### Waltco Lift Corp

285 Northeast Ave, Box 354, Tallmadge, OH 44278

1-800-211-3074, 330-633-9191

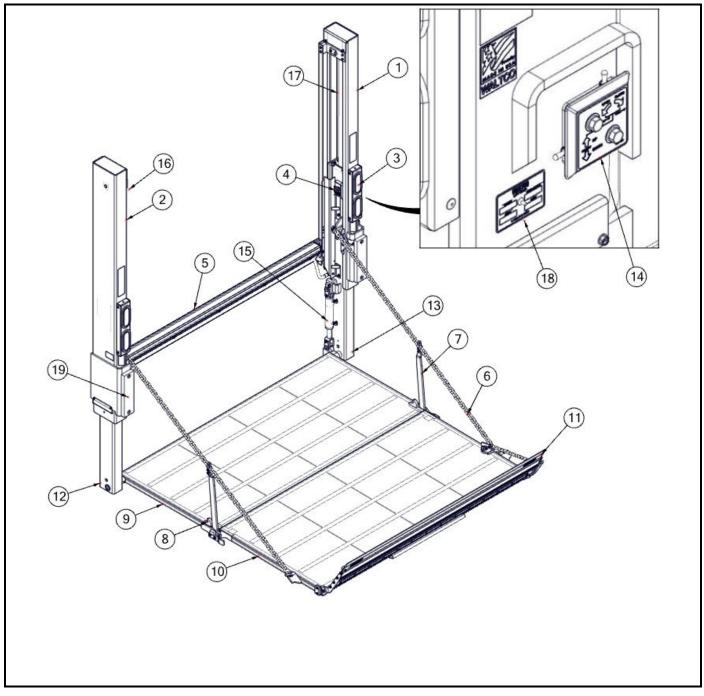
Please visit our websites: http://www.waltco.com or http://www.hiab.com

We're behind you all the way!

- 1. Curb Side Column
- 2. Drivers Side Column
- 3. Lights
- 4. Inside Switch

- 5. Sill Extension
- 6. Support Chain
- 7. Swing Arm
- 8. Bottom Stop Catch
- 9. Deck
- 10. Deck Extension
- 11. Flip Ramp Assembly
- 12. Drivers Side Runner

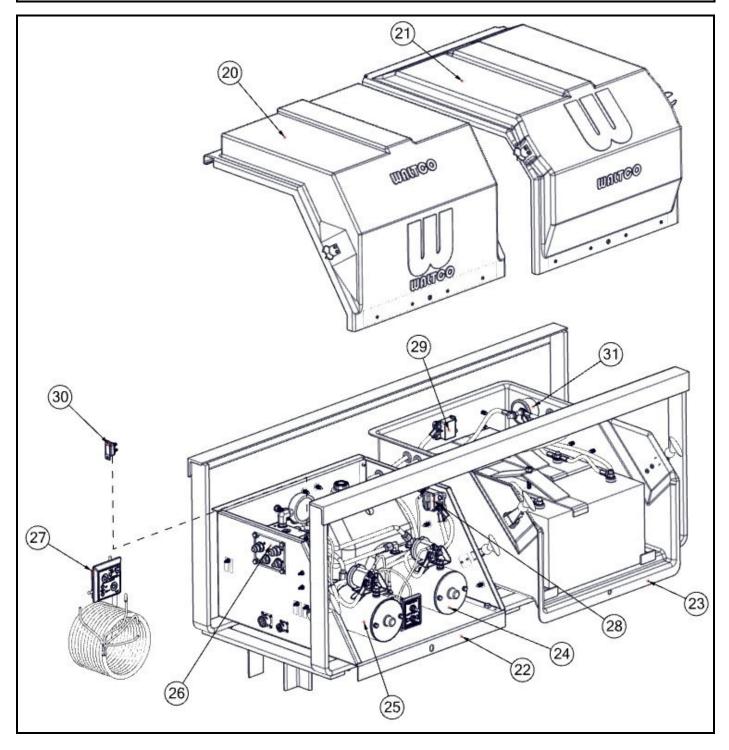
- 13. Curb Side Runner
- 14. Outside Column Switches
- 15. Closing Cylinder
- 16. Drivers Side Lift Cylinder
- 17. Curb Side Lift Cylinder
- 18. Specification Tag
- 19. Dock Bumper



- 20. Pump Box Lid
- 21. Battery Box Lid
- 22. Pump Box Base
- 23. Battery Box Base
- 24. Primary Motor and Pump
- 25. Backup Motor and Pump
- 26. Manifold Block Assembly
- 27. Backup Controls

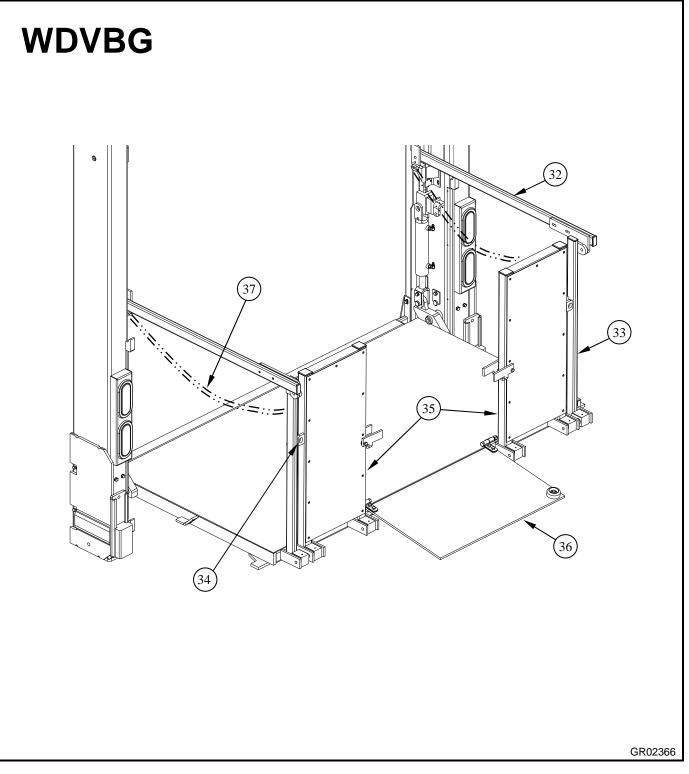
- 28. 150 AMP Manual Reset Breaker
- 29. 150 AMP Auto Reset Breaker
- 30. 15 AMP Auto Reset Breaker
- 31. Master Disconnect Switch

Note: Dual motor power box is shown

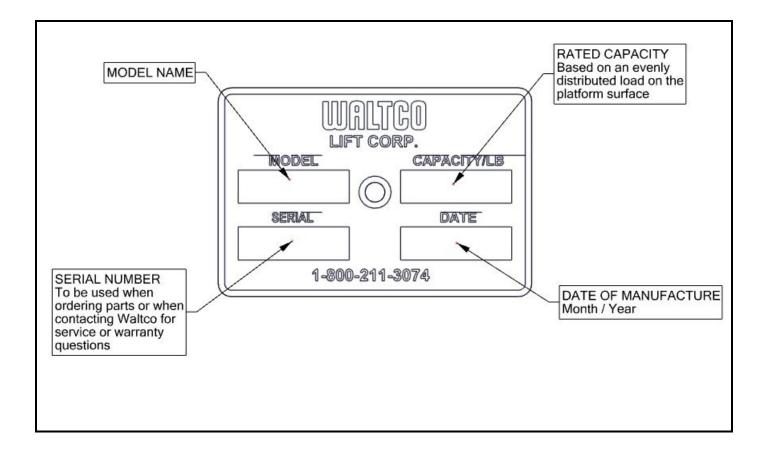


- 32. Side Rail Assembly
- 33. Outer Guard Rail Assembly
- 34. Guard Rail Latch Assembly

- 35. Inner Guard Rail Assembly
- 36. Ramp Assembly
- 37. Gas Bottle Retention Chain



| EXPLANATION OF SPECIFICATION TAG |                 |          |  |  |  |
|----------------------------------|-----------------|----------|--|--|--|
| MODEL No.                        | DESCRIPTION     | CAPACITY |  |  |  |
| WDVBG35                          | WDVBG-35 Series | 3500 lb. |  |  |  |
| WDVBG45                          | WDVBG-45 Series | 4500 lb. |  |  |  |
| WDV35                            | WDV-35 Series   | 3500 lb. |  |  |  |
| WDV45                            | WDV-45 Series   | 4500 lb. |  |  |  |
| WDV55                            | WDV-55 Series   | 5500 lb. |  |  |  |
| WDV66                            | WDV-66 Series   | 6600 lb. |  |  |  |



#### **OPERATION INSTRUCTIONS**



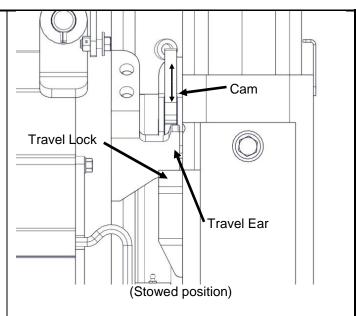
Read and understand these instructions, all warning and operation decals, and this manual before operating this liftgate.

When in transit, Platform must be in stored position with Travel Ears in Travel Locks.

Do not allow anyone to stand in, or near area, in which Platform will open and close before opening or closing Platform.

Do not allow anyone to stand near the Platform where a falling load could land on them.

Platform Swing Arm areas must be kept clear for Platform opening and closing.



### LOADING OF PLATFORM

Load and unload from rear of platform and not side of platform. Never remove lift chains or swing arms to load or unload platform.

Always load as close to center of platform and as close to truck sill as possible.

Never operate fork lifts on or over any part of platform.

This unit is intended for loading and unloading of cargo only. Do not use for anything but its intended use.

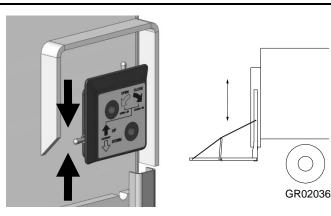
#### RAISING AND LOWERING PLATFORM

Using the "DOWN" toggle switch, lower platform for use.

Use the "UP" toggle switch to raise platform.



Ensure platform and flip ramp are fully lowered when loading and unloading platform at ground level.

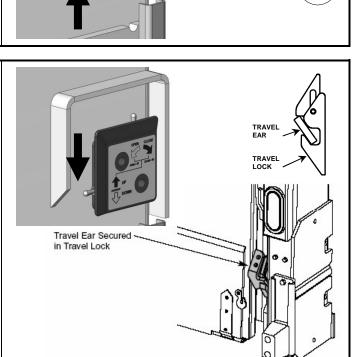


#### **CLOSING AND OPENING PLATFORM**

- 1. With the platform open, power platform all the way up using the "UP" toggle switch and "CLOSE" toggle switch simultaneously, power close platform.
- 2. Push the "UP toggle switch and the "OPEN" toggle switch simultaneously to power open the platform.

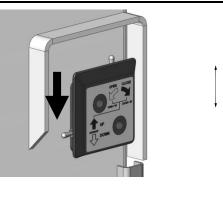
#### STORING PLATFORM FOR TRAVEL

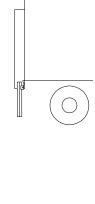
- 1. Using the "DOWN" toggle switch, power platform down past the Travel Lock.
- 2. Using the "UP" toggle switch, power platform up to lift the Lock Cam.
- 3. Power platform up until Travel Ear clears the Travel Lock slot.
- 4. Use the "DOWN" toggle switch to lower Travel Ear into the Travel Lock slot.
- 5. Turn off power to liftgate by turning the master disconnect switch, located on pump box, to the "OFF" position.



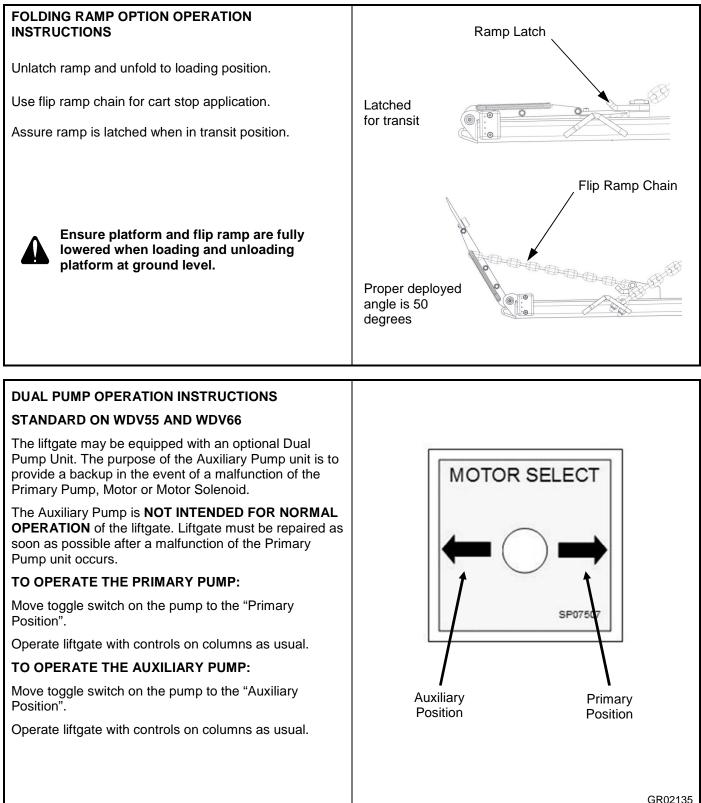
#### LOWERING PLATFORM FOR DOCK LOADING

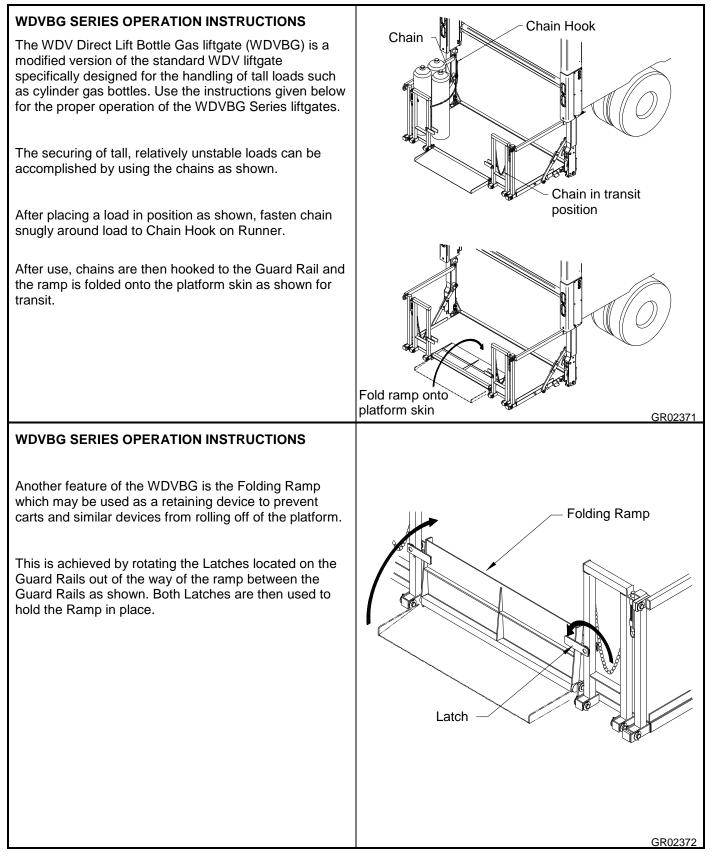
- 1. Turn on power to Liftgate by turning the master disconnect switch, located on pump box, to the "ON" position.
- 2. Using the "UP" toggle switch, power platform up so that it is completely out of the travel locks.
- 3. Using the "DOWN" toggle switch, power platform down until the platform is level with the truck floor and hit the Dock Stops.
- 4. When finished Dock Loading be certain to raise platform to travel position before pulling truck away from dock.





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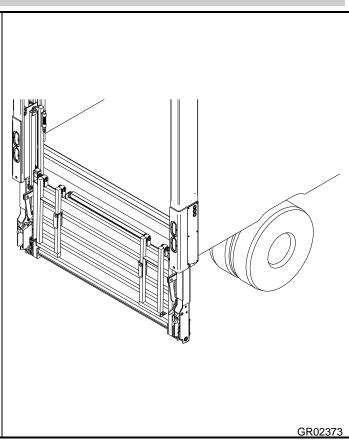




### WDVBG SERIES OPERATION INSTRUCTIONS

If the vehicle is to be used for dock loading, the ramp is to be folded down onto the platform skin before raising the platform to the closed position (See Page 3-1 for closing platform instructions).

An additional feature of the WDVBG is that the Guard Rails can be folded down out of the way to increase the available opening width when dock loading as shown.



Waltco recommends that the WDV / WDVBG 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.

Date:

Inspection/PM performed by:

Trailer/Truck #:

Liftgate Serial #:

Liftgate Model #:

Check appropriate boxes below

| 6 Month Liftgate PM Procedure    |                  |           |     |   |  |  |
|----------------------------------|------------------|-----------|-----|---|--|--|
| Inspect Liftgate columns:        |                  |           |     |   |  |  |
| ОК                               | Repair Needed    | Corrected | 1   | Inspect for any physical damage, twisted, bend, spreading, broken welds, top and bottom.  |  |  |
| ОК                               | Repair Needed    | Corrected | 2   | Inspect for loose or missing bolts.   |  |  |
| ОК                               | Repair Needed    | Corrected | 3   | Inspect that travel ear properly engages autolatch cam.   |  |  |
| Insp                             | ect Liftgate do  | ck bumpe  | rs: |   |  |  |
| ОК                               | Repair Needed    | Corrected | 4   | Check for bent or broken steel bumper plates.   |  |  |
| ОК                               | Repair Needed    | Corrected | 5   | Inspect that dock bumpers are tight against columns and break away welds are intact.  |  |  |
| ОК                               | Repair Needed    | Corrected | 6   | Inspect for missing or damaged slide pad.   |  |  |
| Insp                             | ect Liftgate pla | atform:   |     |   |  |  |
| ОК                               | Repair Needed    | Corrected | 7   | Inspect for loose nuts, bolts and roll pins (Main hinge pin bolt, folding hinge bolt, roll stop and flip ramp bolts.)                               |  |  |
| ОК                               | Repair Needed    | Corrected | 8   | <b>ALUMINUM PLATFORM ONLY:</b> Inspect that aluminum platform side plate bolts are tightened to 30 ft-lbs.  |  |  |
| ОК                               | Repair Needed    | Corrected | 9   | Inspect for any signs of overload damage, cracked or broken welds.  |  |  |
| ОК                               | Repair Needed    | Corrected | 10  | Inspect platform side chains, side chain hardware, side arm assembly, side attachment assembly for bent or missing parts.                           |  |  |
| ОК                               | Repair Needed    | Corrected | 11  | Inspect that platform is level with the vehicle floor in the fully raised position.   |  |  |
| ОК                               | Repair Needed    | Corrected | 12  | Inspect folding hinges on platform and ramp for wearing. Platform should open flat with no dipping at center.                                       |  |  |
| ОК                               | Repair Needed    | Corrected | 13  | On liftgates with roll stops, inspect that roll stop opens when retainer is disengaged. Clean out roll stop hinge and lubricate with silicon spray. |  |  |
| Inspect Liftgate runner assembly |                  |           |     |   |  |  |
| ОК                               | Repair Needed    | Corrected | 14  | Inspect for cracked or broken welds on hinge tube.  |  |  |

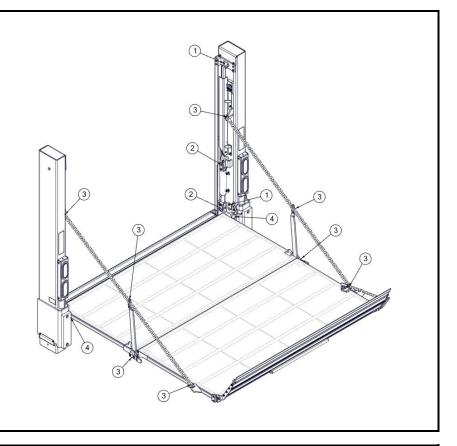
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| ОК   | Repair Needed                               | Corrected | 15 | Inspect that pins are secure by making sure the pin retainers are in place and the retainer bolts are not loose or missing.   |  |  |  |  |
|------|---|-----------|----|---|--|--|--|--|
| ОК   | Repair Needed                               | Corrected | 16 | Inspect wear pads for wear and bracket for missing or broken bolts.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 17 | Inspect runner for physical damage.   |  |  |  |  |
| Insp | Inspect Hydraulic and Electrical Components |           |    |   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 18 | Inspect for hydraulic leaks on cylinders, hoses and fittings  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 19 | Inspect hoses for fraying or cracking (especially where hoses enter or exit the housing cover and hose extension cover).  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 20 | Inspect that closing hoses are tracking properly and secured to liftgate column.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 21 | Remove power unit enclosure cover and inspect that electrical connections are clean and secure – spray connections with dielectric coating.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 22 | Inspect that fluid level in tank is 2" from the top with platform fully raised and open.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 23 | Inspect for any visible oil leaks inside the power unit enclosure. (valves, hoses, and fittings.)   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 24 | Inspect power unit to make sure mounting is secure.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 25 | Inspect that master disconnects switch works properly and battery<br>connection are secure. Spray terminals with dielectric coating.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 26 | Inspect circuit breaker for visual damage and ensure both motor and charge line circuit breakers are engaged. Spray terminals with dielectric coating.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 27 | Inspect that battery connections including grounds are secure and clean.<br>Spray terminals and connections with dielectric coating.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 28 | Inspect entire length of battery cable (positive and ground) and exposed switch wires for chaffing.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 29 | Load test battery and perform battery maintenance as needed.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 30 | Inspect that battery hold downs are in place and properly tightened.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 31 | Inspect toggle switches for damage to 1/2 rubber boot.  |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 32 | Toggle to backup pump-motor and run liftgate through five complete<br>up/down, open/close cycles to verify proper operation of backup system.<br>Alarm should sound when running on backup motor. |  |  |  |  |
| Fina | I Inspection                                |           |    |   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 33 | Run gate through two entire cycles with platform open to make sure there is no unusual noise.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 34 | Inspect that raising and lower speeds are within 15-22 seconds (Based on a 50" bed height.)   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 35 | Run gate through one cycle of the power open and close operation.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 36 | Inspect that opening and closing speeds are within 6-9 seconds.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 37 | Run gate up to stored position, make sure platform lock works properly.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 38 | Inspect that all decals are in legible and in the correct location.   |  |  |  |  |
| ОК   | Repair Needed                               | Corrected | 39 | Check operation of cycle counter  |  |  |  |  |

| Α | Annual Inspection/PM Procedure (Includes items 1-36 in Quarterly Inspection/PM procedure) |               |           |    |   |  |
|---|---|---------------|-----------|----|---|--|
| 0 | Ж   | Repair Needed | Corrected | 40 | Inspect platform hinge block/tube bushing (removal of platform required). |  |
| 0 | ЭK  | Repair Needed | Corrected | 41 | Change hydraulic fluid.   |  |

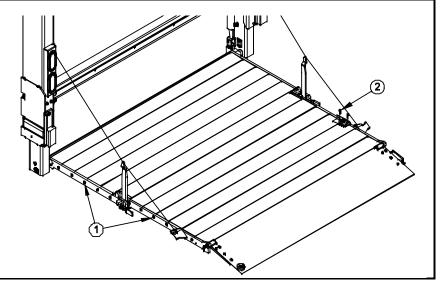
Check that all bolts, fasteners and pins are tight and secure:

- 1. All Cylinder Pin bolts.
- 2. Lower Closer Cylinder Clevis bolt.
- 3. Linkage anchor bolts on platform and support chains.
- 4. Platform Hinge Pin Bolts.



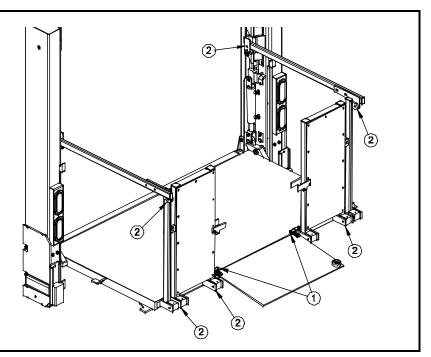
If liftgate has Aluminum Platform, check additional bolts, fasteners and pins are tight and secure:

- 1. All Platform Side Rail bolts (to have Torque of 30 ft-lbs).
- 2. All Ramp attachment bolts.



If liftgate is WDVBG, check additional bolts, fasteners and pins are tight and secure:

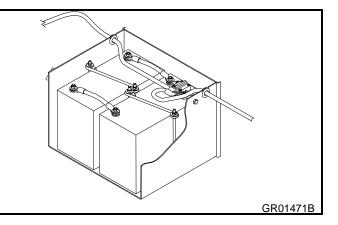
- 1. Platform Ramp Hinge Pins and Hinge Plates.
- 2. All Guard Railing Pivot points.



#### CHECK BATTERIES

Check electrolyte level of batteries.

Check that all wiring and battery cable connections are tight and free of corrosion.



### CHECK OIL LEVEL

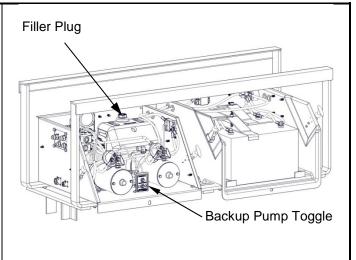
For Gravity Down Gates: Check that hydraulic reservoir is filled to within 2" from the top with platform lowered to ground level and open.

#### For Gravity Down with Power Down Option:

Check that hydraulic reservoir is filled to within 2" from the top with platform raised to bed level and open.

### WDV55, WDV66 & BACKUP PUMP-MOTOR OPTION

Toggle to backup pump-motor and run liftgate through five complete up/down, open/close cycles to verify proper operation of backup system. Alarm should sound when running on backup motor.



|                       | mmended Fluids   | Fill reservoir  |                |  |  |
|-----------------------|--|---|----------------|--|--|
| Temperature Range     | Acceptable Fluids  | Fill with recommended fluid   | or equivalent. |  |  |
| 0° to 120° F          | Waltco Biodegradable<br>Liftlube <sup>™</sup> part #85803860 | <ul> <li>Fill the reservoir to within 2" from the to<br/>(Oil level instructions above)</li> <li>Fluids are available from the Waltco pail</li> </ul> |                |  |  |
|                       | Shell Tellus S2 V 32   | Dept. 1-800-411-5685 ww   | w.waltco.com   |  |  |
|                       | Chevron Rando HDZ 32   |   |                |  |  |
| -20° to 90° F         | Waltco Biodegradable   |   |                |  |  |
|                       | LiftLube Arctic part   | NOTE:   |                |  |  |
|                       | #85803866  | Do not use the following fluids:<br>Brake Fluid<br>Power steering fluid   |                |  |  |
|                       | Waltco All Season Hyd Oil<br>Part 85803867                   |   |                |  |  |
|                       | Shell Tellus S2 V 15<br>Mobil DTE 10 Excell 15               | Automatic Transmissio   | n Fluid (ATF)  |  |  |
| A good quality SAE 10 | W motor oil may also be used in                              |   |                |  |  |
| temperatures above 32 | 2° F.  | Ref WDV   | Rev 06         |  |  |
|                       |  |   |                |  |  |

Please refer to Chapter 6 of the Manual for Lubrication Instructions.

#### ANNUAL INSPECTION

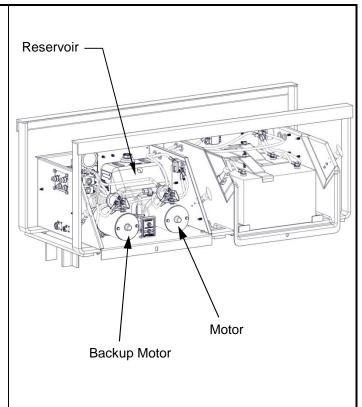
Perform procedures outlined in semi-annual inspection.

Inspect pump motor:

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

To replace Hydraulic Fluid:

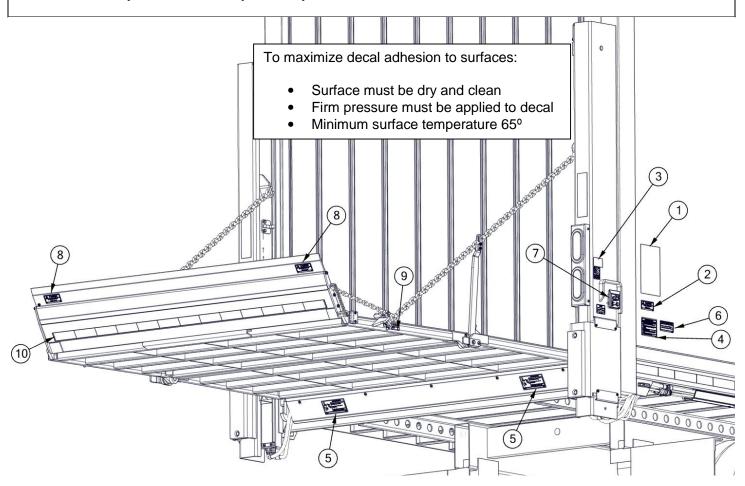
- Open platform and lower to ground.
- Drain oil from hydraulic system using drain port located on bottom of reservoir and flush entire system.
- Fill reservoir to within 2" from the top. (Oil level filling instructions on previous page)



### **Chapter 5- Placement of Decals**

All decals must be in place and legible or all warranties are void. Properly placed warning decals are an essential part of your safety program. Check that all safety decals are in place and are legible. Any missing decals **MUST** be replaced immediately. Replacement decals may be obtained **FREE** of charge from your distributor or by phoning, writing, or faxing Waltco Part Sales.

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.



| ITEM# | DESCRIPTION                 | WDV35    | WDV45    | WDV55    | WDV66    | WDVWITH+16<br>FLIP RAMP | QTY |
|-------|-----------------------------|----------|----------|----------|----------|-------------------------|-----|
| 1     | OPERATINGINSTRUCTIONS       |          |          | 80101538 |          |                         | 1   |
| 2     | WARNING, KEEP CLEAR         |          |          | 75089296 |          |                         | 2   |
| 3     | WARNING, MAXCAPACITY        | 80100586 | 80100261 | 80101308 | 80101309 |                         | 2   |
| 4     | URGENTWARNING               | 80100850 |          |          |          |                         | 1   |
| 5     | DEANGER, LIFTGATE CAN CRUSH | 80101370 |          |          |          | 2                       |     |
| 6     | SAFETY, OPEN AND CLOSE      | 80101537 |          |          |          | 1                       |     |
| 7     | OPEN AND CLOASE DECAL       |          |          | 80101539 |          |                         | 1   |
| 8     | WARNING, KEEP CLEAR         |          |          |          |          | 75086296                | 2   |
| 9     | FLIP RAMP STORAGE           |          |          |          |          | 80100482                | 1   |
| 10    | CONSPICUITYTAPEFOR 96" WDV  |          |          |          |          | 82021067 (73.5")        | 1   |
| 10    | CONSPICUITYTAPEFOR 102" WDV |          |          |          |          | 82021067 (78.5")        | 1   |

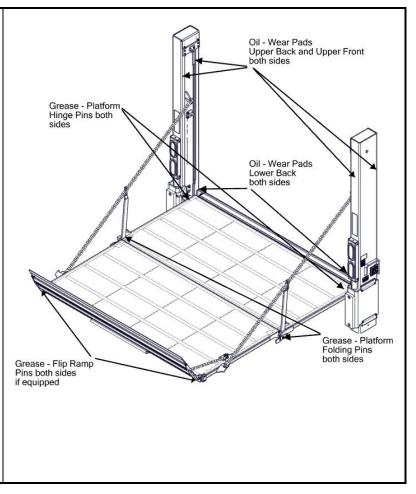


## Chapter 6 Lubrication

### LUBRICATION INSTRUCTIONS

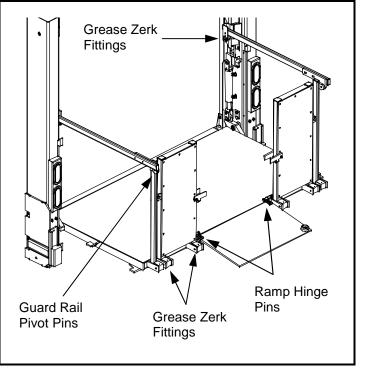
The following areas ONLY should be lubricated approximately once a month, or as outlined in the lubrication scheduled for heavier usage. If not sure of duty or cycles, always lubricate more frequently.

(For all wear pads use a low viscosity lubricant such as machine oil or equivalent. For pins with grease fittings, use grease gun and appropriate high viscosity grease)

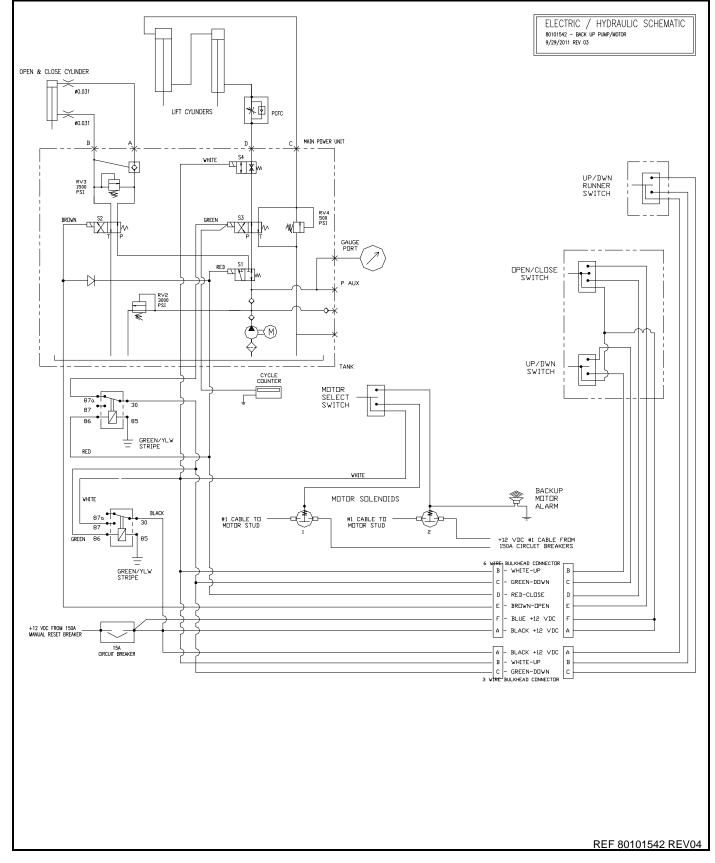


If the liftgate is a WDVBG, the additional points on the liftgate that require lubrication are the points indicated in the graphic to the right. These should be lubricated approximately once every three (3) months.

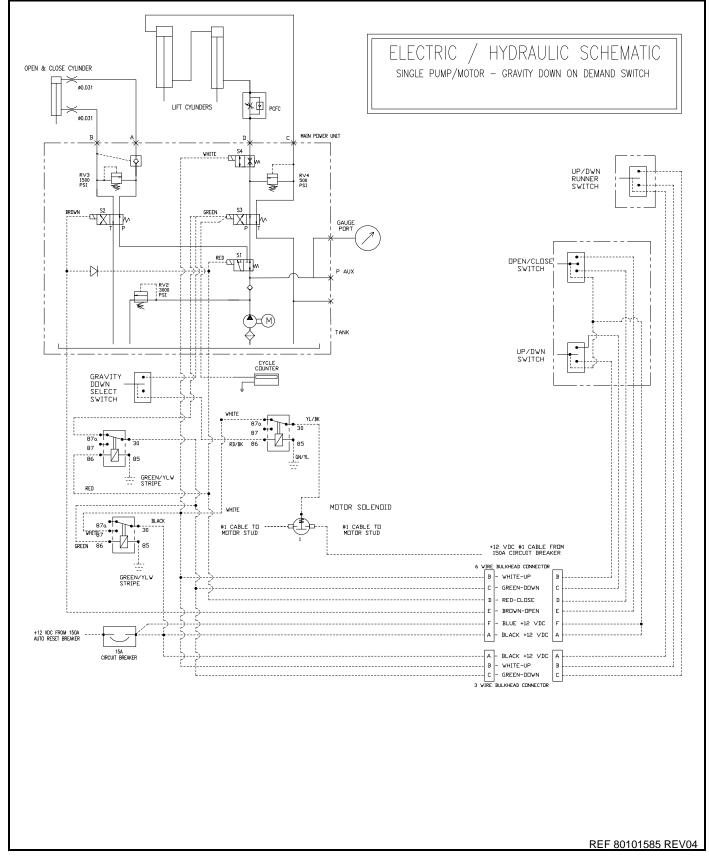
- Use a light weight machine oil to lubricate all Ramp and Guard Rail Pivot Pin areas as shown to the right.
- Grease Guard Rail Pivot Pins where zerk fittings are provided.



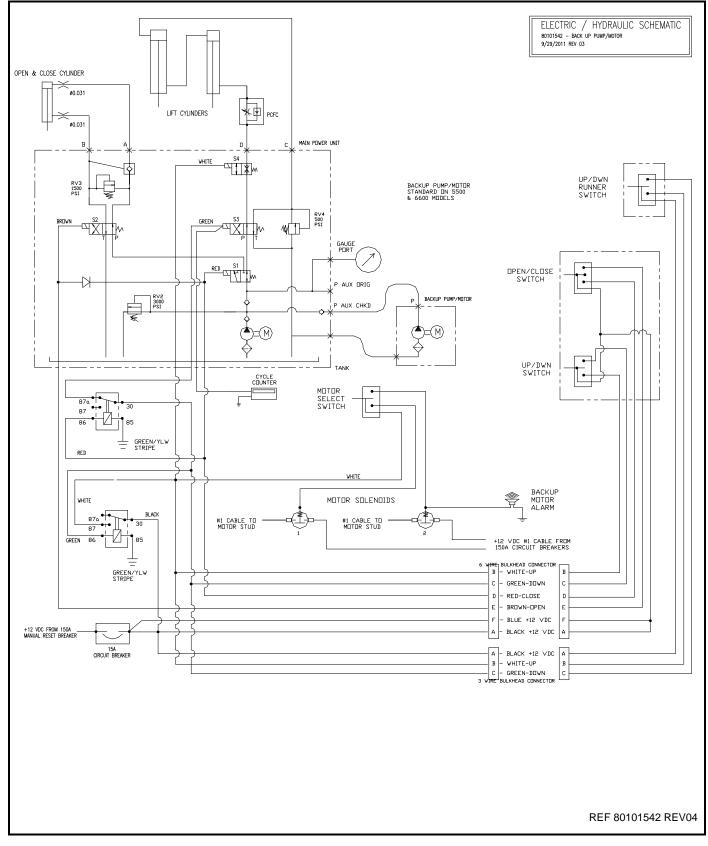
POWER UNIT HYDRAULIC/ELECTRICAL SCHEMATIC - SINGLE POWER UNIT - POWER DOWN



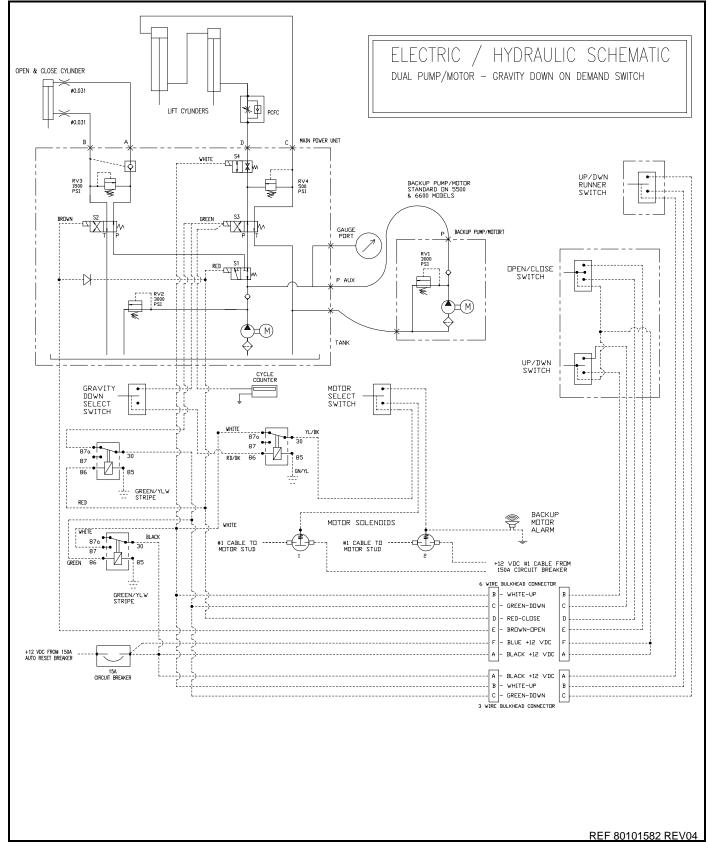
### POWER UNIT HYDRAULIC/ELECTRICAL SCHEMATIC - SINGLE POWER UNIT – GRAVITY DOWN ON DEMAND



### POWER UNIT HYDRAULIC/ELECTRICAL SCHEMATIC - DUAL PUMP MOTOR WITH BACKUP/AUXILLARY – POWER DOWN



### POWER UNIT HYDRAULIC/ELECTRICAL SCHEMATIC - DUAL PUMP MOTOR WITH BACKUP/AUXILLARY – GRAVITY DOWN ON DEMAND



### **How To Order Parts**

<u>Repairs should be made only by authorized mechanics using WALTCO</u> <u>Replacement parts.</u>

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. (On older units the Specification Tag is located on the side or bottom of the platform.)]
- 2. MODEL NUMBER [Or capacity]
- 3. PLATFORM SIZE

### THEN INCLUDE THE FOLLOWING INFORMATION:

- 4. PART NUMBERS
- 5. DESCRIPTION
- 6. 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.

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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.

Additional WARNING DECALS, OPERATION DECALS and OWNER'S MANUALS can be obtained from WALTCO LIFT CORP.

### NOTE:

When ordering, give model and serial number of the liftgate.

# IMPORTANT

### KEEP THIS OWNER'S MANUAL IN THE VEHICLE

### 

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

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

### For SAFETY information on this liftgate see Chapter 1 of this manual

80101519

EO7820 Rev 02