Installation Manual

WDV & WDVBG
3500 - 6600 lb. Capacity Rail Liftgates

Last Change:

<table>
<thead>
<tr>
<th>Date</th>
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<td>2-2015</td>
<td>34</td>
<td>Updated hydraulic fluid filling instructions</td>
</tr>
<tr>
<td></td>
<td>46</td>
<td>Updated lubricating instructions with type of lubricant required</td>
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</table>

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</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

Improper installation of this liftgate could result in severe personal injury or death.

Read and understand the contents of these instructions before proceeding.

When installed, this liftgate must not alter or prevent vehicle compliance to any existing state or federal standards.

Each chassis manufacturer’s recommendations should be consulted for compliance.
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  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.
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 Up-stops 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

![WARNING](image)

**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.

![CAUTION](image)

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

![NOTICE](image)
Chapter 2  Liftgate Terminology

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

* - The part shown comes standard or optional with a “Bolt-on” WDV model and may appear different.

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. Extended Dock Bumper*
20. 3" Dock Bumper Extension*
21. Dock Bumper, Standard
<table>
<thead>
<tr>
<th>Number</th>
<th>Component Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.</td>
<td>Control Switch</td>
</tr>
<tr>
<td>23.</td>
<td>Light Wiring Harness</td>
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<tr>
<td>24.</td>
<td>Lights</td>
</tr>
<tr>
<td>25.</td>
<td>Control Switch Extension Wires (Optional)</td>
</tr>
<tr>
<td>26.</td>
<td>Inside Switch Extension Wires (Optional)</td>
</tr>
<tr>
<td>27.</td>
<td>Extension Hoses (Optional)</td>
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<tr>
<td>28.</td>
<td>Circuit Breaker, 15A Control Switches</td>
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<td>29.</td>
<td>Power Unit Motor</td>
</tr>
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<td>30.</td>
<td>Charging Battery Cable</td>
</tr>
<tr>
<td>31.</td>
<td>Grounding Battery Cable</td>
</tr>
<tr>
<td>32.</td>
<td>Power Unit/Battery Box</td>
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<td>33.</td>
<td>Box Cover</td>
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<tr>
<td>34.</td>
<td>Master Disconnect</td>
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<tr>
<td>35.</td>
<td>Circuit Breaker, Charge Line</td>
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<tr>
<td>36.</td>
<td>Circuit Breakers, 150A</td>
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<td>37.</td>
<td>Selector Switch</td>
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Note: Dual motor powerbox is shown
Chapter 2  Liftgate Terminology

38. Side Rail Assembly
39. Outer Guard Rail Assembly
40. Guard Rail Latch Assembly
41. Inner Guard Rail Assembly
42. Ramp Assembly
43. Gas Bottle Retention Chain

WDVBG

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# Chapter 2 Liftgate Terminology

## EXPLANATION OF SPECIFICATION TAG

<table>
<thead>
<tr>
<th>MODEL No.</th>
<th>DESCRIPTION</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>WDVBG35</td>
<td>WDVBG-35 Series</td>
<td>3500 lb.</td>
</tr>
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<td>WDVBG45</td>
<td>WDVBG-45 Series</td>
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</tr>
<tr>
<td>WDV35</td>
<td>WDV-35 Series</td>
<td>3500 lb.</td>
</tr>
<tr>
<td>WDV45</td>
<td>WDV-45 Series</td>
<td>4500 lb.</td>
</tr>
<tr>
<td>WDV55</td>
<td>WDV-55 Series</td>
<td>5500 lb.</td>
</tr>
<tr>
<td>WDV66</td>
<td>WDV-66 Series</td>
<td>6600 lb.</td>
</tr>
</tbody>
</table>

MODEL NUMBER

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.

Date of Manufacture

MONTH/YEAR
Chapter 3  Basic Mounting Requirements

MOUNTING DIMENSIONS

Determine bed height by taking the measurement from the ground to the floor level of the vehicle.

See chart below for bed height requirements and dock loading capabilities.

<table>
<thead>
<tr>
<th>Platform Depth</th>
<th>Bed Height Range Without Dock Loading Capability</th>
<th>Bed Height Range With Dock Loading Capability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Maximum</td>
</tr>
<tr>
<td>36&quot; + 16&quot; Ramp</td>
<td>34&quot;</td>
<td>57&quot;</td>
</tr>
<tr>
<td>42&quot; + 16&quot; Ramp</td>
<td>34&quot;</td>
<td>57&quot;</td>
</tr>
<tr>
<td>42&quot; Butt End</td>
<td>34&quot;</td>
<td>57&quot;</td>
</tr>
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<td>42&quot; + 6&quot;</td>
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<td>57&quot;</td>
</tr>
<tr>
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<td>34&quot;</td>
<td>57&quot;</td>
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<tr>
<td>60&quot; + 12&quot; Ramp</td>
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</tr>
<tr>
<td>72&quot; Butt End</td>
<td>34&quot;</td>
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</tr>
<tr>
<td>72&quot; + 12&quot; Ramp</td>
<td>34&quot;</td>
<td>57&quot;</td>
</tr>
<tr>
<td>86&quot; Butt End</td>
<td>34&quot;</td>
<td>57&quot;</td>
</tr>
</tbody>
</table>

The WDV is offered in two widths. 96" over all width for 80" wide platforms and 102" over all width for 86" wide platforms.

Vehicles must be capable of supporting forces shown.

X = Each side wall tension
Y = Each side wall compression
Z = Each side wall shear

<table>
<thead>
<tr>
<th>Model</th>
<th>X &amp; Y lbs.</th>
<th>Z lbs.</th>
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<tbody>
<tr>
<td>WDV35, WDVBG35</td>
<td>2250</td>
<td>3500</td>
</tr>
<tr>
<td>WDV45, WDVBG45</td>
<td>2500</td>
<td>4500</td>
</tr>
<tr>
<td>WDV55</td>
<td>3000</td>
<td>5500</td>
</tr>
<tr>
<td>WDV66</td>
<td>3500</td>
<td>6600</td>
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</tbody>
</table>
1. Mark centerline of sill. Mark the centerline of the extended threshold.
2. Position top of extended threshold flush with top of rear sill and centered on trailer using marks previously made.
3. Clamp threshold extension to sill and tack weld in position.
4. Orient the mounting brackets such that the 33-3/4” dimension is properly located.
5. Clamp mounting bracket to rear of trailer at dimensions shown below so that they can still be adjusted.
6. Measure corner to corner in both directions. Dimensions should be within 1/16”. Adjust mounting brackets to achieve squareness.
7. Align holes of both mounting brackets with straight edge across the entire width of trailer as show in section D-D. Shim between brackets and rear of trailer where needed to achieve straightness.
8. Firmly clamp the mounting brackets to the rear of the trailer.
9. Tack both sides of the brackets to prevent weld draw, then weld the brackets to the rear of trailer.
10. Weld extended threshold to the rear of trailer as shown.

NOTE: 96” WIDE WDV MODELS WILL HAVE A DIMENSION OF 85-1/4”± 1/16” BETWEEN BRACKETS, AND A SQUARENESS OF 126-13/16” ± 1/8”
**Chapter 3  Basic Mounting Requirements**

SECTION C-C

- Shim rear of trailer where needed to align edges of brackets.
- Align edges of brackets across vehicle body with straight edge.

INSIDE EDGES OF EACH BRACKET MAY ROTATE INWARD AS SHOWN 1/16" MAX

- 1/16" MAX TYP

SECTION A-A

- Both brackets
- 1/4
- 2 - 11.63
- 2 - 11.63

SECTION B-B

- Top of rear sill flush with diamond floor plate
- 1/4
- 2 - 22.31
- 2 - 22.31

Page 12
Chapter 3  Basic Mounting Requirements

IF BOLT ON VERTICAL BRACKET EXTENDS INWARD OF DOOR FRAME MORE THAN 1"
ADD GUSSETS AS SHOWN BELOW.

GUSSETS NOT PROVIDED

ADD GUSSET CENTERED BEHIND BOLT HOLES (14 PLACES)

GUSSET SHOULD BE 3/16" THICK AND EXTEND TO COVER THE FLAT PORTION
OF THE BOLT ON BRACKET THAT EXTENDS INWARD OF THE DOOR
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Chapter 3    Basic Mounting Requirements

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![Diagram](GR01561)

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Vehicles must be capable of supporting forces shown.

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![Diagram](GR01563)
1. Mark centerline of sill. Mark the centerline of the extended threshold.
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Chapter 3   Basic Mounting Requirements

SECTION C-C

SHIM REAR OF TRAILER WHERE NEEDED TO ALIGN EDGES OF BRACKETS

ALIGN EDGES OF BRACKETS ACROSS VEHICLE BODY WITH STRAIGHT EDGE

INSIDE EDGES OF EACH BRACKET MAY ROTATE INWARD AS SHOWN 1/16" MAX

1/16" MAX TYP

BOTH BRACKETS

1/4
1/4
2 - 11.63
2 - 11.63

SECTION A-A

3/16
3/16
BOTH BRACKETS

1 5/8

TOP OF REAR SILL FLUSH WITH DIAMOND FLOOR PLATE

1/4
1/4
2 - 22.31
2 - 22.31

SECTION B-B

1 5/8
IF BOLT ON VERTICAL BRACKET EXTENDS INWARD OF DOOR FRAME MORE THAN 1"
ADD GUSSETS AS SHOWN BELOW.

GUSSETS NOT PROVIDED

ADD GUSSET CENTERED BEHIND BOLT HOLES (14 PLACES)

GUSSET SHOULD BE 3/16" THICK AND EXTEND TO COVER THE FLAT PORTION
OF THE BOLT ON BRACKET THAT EXTENDS INWARD OF THE DOOR FRAME AND THE FLAT PORTION OF THE DOOR FRAME. (AS SHOWN)
Chapter 4  Liftgate Installation

PREPARATION OF BODY

Remove all obstructions that will interfere with Liftgate mounting or operation such as dock bumpers, lights, projections, etc.

Trailer hitches are not to extend beyond the rear body sill or be attached to any part of the Liftgate.

Locate and mark center of vehicle floor and rear sill.

On trucks with a short frame (frame does no extend back to rear sill), frame will have to extended as shown.

Add channel to vehicle frame & cap so frame extension is flush with rear sill.

Construct a cap from ¼" x 2" strap or larger to tie sill and frame together.

If side walls of truck do not meet minimum strength requirements add support straps from corner posts down to side rails as shown.

Locate strap in line with a cross member on side rail

¼" x 3" bar or heavier material to be used for straps

Reinforce side rail with ¼" thick steel plate if necessary.

Use 3/16" welds 100% at side rail and corner posts.
If corner posts are not 90° to the ground shims will have to be added as shown to compensate for vehicle rake.

**NOTICE:** Not adding shims may result in the tip of the platform ramp not touching the ground when the liftgate is lowered.

---

**PREPARATION OF LIFTGATE**

⚠️ Remove the Hydraulic/Battery enclosure and any other boxes from the Liftgate. **Support hydraulic enclosure with forklift or suitable heavy lifting device before removing shipping straps. Enclosure may be unbalanced!**

⚠️ Do not remove any other shipping straps, supports, or braces from liftgate until instructed to do so.
INSTALLATION OF LIFTGATE

Cut two mounting supports out of angle or channel.
Mounting support should be 6” to 8” long.

Tack weld supports on crossbeam as shown.
Locate and mark the centerline of Liftgate on top of the crossbeam.

**NOTICE:** The columns are **NOT** the same width. **The centerline must be determined as the midpoint between the outside of the columns.**

Use forklift to raise Liftgate by Installation Brace as shown.
Remove shipping cradle assembly.

- **Do not remove Installation Fixture Components until Liftgate is fully welded to vehicle.**

- **Do not remove any other components besides the Shipping Cradle.**
Chapter 4 Liftgate Installation

Use forklift to raise Liftgate by Installation Brace as shown.

Position Liftgate at rear of vehicle so temporary supports rest on the floor of the vehicle and centerline of Liftgate aligns with centerline of vehicle.

⚠️ STAND CLEAR of installation area while positioning Liftgate.

Clamp top of both curb and street side Uprights to the corner posts using large clamps as shown.
Chapter 4  Liftgate Installation

**Squaring liftgate H-Frame on vehicle:**

- D1 to be within ±1/8 from D2 minus 1”
- D2 minus 1” to be within ±1/8 from D1

Squareness can be further verified by measuring from corner to corner of H-frame as shown in diagram.

Dimension “D3” is to be within ±1/4 of “D4” measurement from each corner.

---

**Be sure up-rights are square to back of vehicle.** Check that they are 90° at the top and bottom of each up-right.

**Double check position of Liftgate on the vehicle.** Check the following:
- Liftgate is in correct position
- Crossbeam is flush with truck floor
- Liftgate is centered on vehicle
- Upright assemblies are vertical and tight against corner posts
- Uprights are parallel and square to each other.
WELD INSIDE OF COLUMNS FIRST

Weld the inside of the Uprights to the vehicle corner posts with six (6) ¼” x 2” welds equally spaced as shown.

Caution needs to be taken not to damage closer hoses and wiring in the passenger side Upright.

⚠️ Excessive heat from welding can cause damage to the hydraulic hoses, slide pads, and wiring harness inside up-rights. Do not weld in area around control switches. Shield all wires and hoses from heat and weld spatter.

⚠️ When welding, be sure to ground the Welder to the component being welded to prevent potential damage to the hydraulic and electrical systems during welding.
For Bolt On gates:

Using (16) ½-13 x 4 1/4" hex bolts provided, insert bolts through the remaining holes. Add locknuts onto the bolts.

Tighten all 1/2" nuts onto grade 8 bolts to 90 ft lbs.

**NOTICE:**
Head of bolts should be on outside of bracket.

Do not tighten the bolt head as the weight of the Liftgate will provide resistance and false torque readings.
Chapter 4  Liftgate Installation

INSTALLATION OF PUMP & ELECTRIC CONTROLS

Locate a position for hydraulic/battery enclosure. This position should be set for the best use of the length hoses supplied with the Liftgate to avoid having to coil up extra hose length.

In choosing the mounting position, you must ensure that:
- Pump Box cover opens toward curb-side of vehicle.
- Hydraulic Hoses from liftgate reach Pump Box without strain.
- 36’ charge line from front of truck/trailer reaches pumpbox without strain.

For Hydraulic/Battery Enclosure with Battery Box: Weld top channel of hydraulic/battery enclosure to body cross members with a minimum of 1/8” x 12” total welds.

For Hydraulic Enclosure only: Weld top channel of Hydraulic Enclosure to body cross members with a minimum of 1/8” x 6” total weld.

*196” Max for short trailer (28 FT. and under)
**352” Max for long trailer (Over 28 FT.)

Use floor jack or other lifting device to raise Hydraulic/Battery enclosure to vehicle cross members.

Position Braces as shown, so that they butt against vehicle cross members.

For Hydraulic/Battery Enclosure with Battery Box: Weld top channel of hydraulic/battery enclosure to body cross members with a minimum of 1/8” x 12” total welds.

For Hydraulic Enclosure only: Weld top channel of Hydraulic Enclosure to body cross members with a minimum of 1/8” x 6” total weld.

⚠️ When welding, be sure to ground the Welder to the component being welded to prevent potential damage to the hydraulic and electrical systems during welding.
Chapter 4  Liftgate Installation

HYDRAULICS HOSES & LINES

Familiarize yourself with key components using this diagram. Refer back to this diagram as needed during hydraulic hookup.

⚠️ Keep hydraulic hoses, fittings, and other components free from contamination and debris. Contamination of the Hydraulic System will cause the Liftgate to operate unevenly and can lead to damage of hydraulic components.

Disconnect the 1/2" hydraulic hoses from each other and connect the line as instructed below.

Note! The 1/4" and 1/2" hydraulic hoses have been connected together to prevent oil from draining from the cylinders and to minimize the amount of bleeding needed when installation is complete.

Connect the 1/2" hydraulic hose with the 1/2" JIC female swivel to the 1/2" JIC male fitting coming out of the pump box. This is the line providing pressure to raise the platform.

Connect the 1/2" hydraulic hose with the 1/2" JIC male swivel to the 1/2" JIC female fitting coming out of the pump box. This is the line providing pressure to lower platform.

Disconnect the 1/4" hydraulic hoses from each other.

Connect the 1/4" hose with the 1/4" JIC female swivel to the 1/4" JIC male fitting coming out of the pump box. This is the line providing pressure to close the platform.

Connect the 1/4" hose with the 1/4" JIC male swivel to the 1/4" JIC female fitting coming out of the pump box. This is the line providing pressure to open the platform.
**Chapter 4  Liftgate Installation**

**TRAILER INSTALLATION ONLY**

Use the hose guide(s) provided in the trailer installation kits to protect the hoses and wires between liftgate and hydraulic/Battery enclosure.

Hose guide should be positioned so electrical connectors are accessible where they exit the hose guard near rear of trailer.

Avoid twisting of hoses.

Avoid sharp bends when routing hoses.

Hoses will contract under pressure. Allow plenty of slack between connecting points.

Do not clamp hoses at bends to allow for length changes when hose is pressurized.

Use hose clamps to secure hoses to vehicle.

**Note:** Hoses must be clamped no less than every 24” to prevent chafing from over the road vibration.
Chapter 4  Liftgate Installation

DIELECTRIC GREASE

Add dielectric grease generously to **ALL** electrical connections.

BATTERY CABLE CONNECTION

Assure vehicle ignition switch is off and battery ground cables are disconnected at battery.

Refer to installation instructions provided with wiring kit on connecting battery cable(s) and circuit breaker(s).

Two batteries recommended for all WDV Liftgates. Additional batteries connected in parallel may be required for heavy usage.

Secure battery cable to vehicle with cable ties provided.

Original equipment ground cable furnished on vehicle should be at least a number 2 Ga. to insure proper operation of pump unit. An auxiliary ground cable should be added between engine block and vehicle frame if engine is not adequately grounded to vehicle frame.

⚠️ Protect wires from any sharp edges or holes that may abrade insulated covering of wires.

⚠️ Secure battery cable so it does not come near, or in contact with, other vehicle wiring, fuel lines, brake lines, air hoses, exhaust system, etc.

Reconnect battery ground cable(s). **DO NOT** operate pump unit at this time.

BATTERY SELECTION

**WDV55 & 66:** Secure a minimum of three Group 31 Dual Purpose, 700 CCA, 180 minute RC (reserve capacity), batteries in battery box with hold-downs provided.

**WDV35 & 44:** Secure a minimum of two Group 31 Dual Purpose, 700 CCA, 180 minute RC (reserve capacity), batteries in battery box with hold-down provided.

Note: Number of batteries and battery selection can vary by application.
Chapter 4  Liftgate Installation

**CHOOSE CHARGING TYPE**

- Trailer - Dual Pole Socket. *(Preferred for trailers)*
- Trailer - Single Pole Socket.
- Truck - Direct to starting battery.
- Truck - Auxiliary batteries.

*Cables supplied will be cut to length as may be required.*

<table>
<thead>
<tr>
<th>DUAL POLE SOCKET</th>
<th>SINGLE POLE SOCKET</th>
<th>TRUCK</th>
</tr>
</thead>
</table>

**CHARGE LINE: TRAILER - DUAL POLE SOCKET**

- a. Route #1 charge and #1 ground cable along trailer securing cables every 24”. Be certain cables are protected with grommets when passing through metal holes or over sharp edges.
- b. Attach positive end of #1 charge cable (red) to positive terminal on dual pole socket.
- c. Attach negative end of #1 ground cable (black) to ground terminal on dual pole socket.
- d. In liftgate battery box, attach #1 ground cable (black) directly to the negative terminal on the liftgate battery.
- e. In liftgate battery box, attach #1 charge cable (red) directly to the auto reset circuit breaker terminal.
- f. Spray bolted connections with insulating varnish.

- Attach #1 charge cable (red) directly to the auto reset circuit breaker terminal.
- Attach #1 ground cable (black) to neg. terminal on back of socket.
**Chapter 4  Liftgate Installation**

**CHARGE LINE: TRAILER - SINGLE POLE SOCKET**

*Tractor has external ground on plug: (Preferred Single Pole Method)*

<table>
<thead>
<tr>
<th>Action</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Route #1 charge and #1 ground cable along trailer securing cables every 24”. Be certain cables are protected with grommets when passing through metal holes or over sharp edges.</td>
<td>![Diagram of external ground connection]</td>
</tr>
<tr>
<td>b. Attach positive end of #1 charge cable (red) to positive terminal on single pole socket.</td>
<td>![Diagram of positive terminal]</td>
</tr>
<tr>
<td>c. Attach negative end of #1 ground cable (black) to a mount bolt on the single pole socket.</td>
<td>![Diagram of negative terminal]</td>
</tr>
<tr>
<td>d. In liftgate battery box, attach #1 ground cable (black) directly to the negative terminal on the liftgate battery.</td>
<td></td>
</tr>
<tr>
<td>e. In liftgate battery box, attach #1 charge cable (red) directly to the auto reset circuit breaker terminal.</td>
<td>![Diagram of auto reset circuit breaker]</td>
</tr>
<tr>
<td>f. Spray bolted connections with insulating varnish.</td>
<td>![Diagram of insulating varnish]</td>
</tr>
</tbody>
</table>

**Additional grounding needed for single pole connector without external ground cable: (Make sure Fifth Wheel is ground to tractor batteries)**

<table>
<thead>
<tr>
<th>Action</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>g. Drill 3/8” hole in fifth wheel plate as shown (Approx. 4” in from side rail.) grind or sand area around hole to bare steel. Make sure hole location will not interfere with movement of the fifth wheel.</td>
<td>![Diagram of fifth wheel plate]</td>
</tr>
<tr>
<td>h. Run #1 ground cable to fifth wheel plate and bolt in place. Be certain to clean corrosion from fifth wheel plate before bolting.</td>
<td>![Diagram of bolted connection]</td>
</tr>
<tr>
<td>i. Make a cable using excess ground cable, run another ground cable from fifth wheel plate ground bolt to a mount bolt on the single pole socket.</td>
<td></td>
</tr>
<tr>
<td>j. Spray bolted connections with insulating varnish after bolting.</td>
<td>![Diagram of sprayed connections]</td>
</tr>
</tbody>
</table>
### Chapter 4  Liftgate Installation

<table>
<thead>
<tr>
<th>TRUCK: Liftgate running off vehicle batteries only:</th>
<th>Hydraulic/Battery Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. In liftgate battery box, attach #1 ground cable (black) directly to the power unit valve manifold with 1/4&quot; bolt.</td>
<td>![Hydraulic/Battery Enclosure]</td>
</tr>
<tr>
<td>b. In liftgate battery box, attach #1 power cable (red) directly to the master disconnect switch.</td>
<td>Ground to valve manifold.</td>
</tr>
<tr>
<td>c. Route #1 power cable and #1 ground cable along truck chassis securing them every 24&quot;. Be certain cables are protected with grommets when passing through metal holes or over sharp edges.</td>
<td>Red charge line to this terminal.</td>
</tr>
<tr>
<td>d. Mount the 150A circuit breaker in the truck battery box.</td>
<td></td>
</tr>
<tr>
<td>e. Attach positive end of #1 power cable to AUX terminal on 150A circuit breaker.</td>
<td></td>
</tr>
<tr>
<td>f. Attach a #1 jumper cable from the positive battery terminal to BAT terminal on 150A circuit breaker.</td>
<td></td>
</tr>
<tr>
<td>g. Attach negative end of #1 ground cable to ground terminal on truck starting battery.</td>
<td></td>
</tr>
<tr>
<td>h. Spray bolted connections with insulating varnish.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRUCK: Liftgate running off auxiliary batteries:</th>
<th>Hydraulic/Battery Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. In liftgate battery box, attach #1 ground cable (black) directly to the negative terminal on the liftgate battery.</td>
<td>![Hydraulic/Battery Enclosure]</td>
</tr>
<tr>
<td>b. In liftgate battery box, attach #1 charge cable (red) directly to the auto reset circuit breaker terminal.</td>
<td>Attach #1 charge cable (red) directly to the auto reset circuit breaker terminal.</td>
</tr>
<tr>
<td>c. Route #1 power cable and #1 ground cable along truck chassis securing them every 24&quot;. Be certain cables are protected with grommets when passing through metal holes or over sharp edges.</td>
<td></td>
</tr>
<tr>
<td>d. In truck starting battery box, mount the 150A auto reset circuit breaker.</td>
<td></td>
</tr>
<tr>
<td>e. In truck starting battery box, attach positive end of #1 charge cable (red) to AUX terminal on 150A circuit breaker.</td>
<td></td>
</tr>
<tr>
<td>f. In truck starting battery box, attach a #1 jumper cable from the positive battery terminal to BAT terminal on 150A circuit breaker.</td>
<td></td>
</tr>
<tr>
<td>g. In truck starting battery box, attach negative end of #1 ground cable (black) to ground terminal on truck starting battery.</td>
<td></td>
</tr>
<tr>
<td>h. Spray bolted connections with insulating varnish.</td>
<td></td>
</tr>
</tbody>
</table>
FINISH WELDING THE LIFTGATE TO THE VEHICLE

Weld the outside of the Uprights to the vehicle corner posts with six (6) 1/4” x 2” minimum welds equally spaced as shown.

⚠️ Excessive heat from welding can cause damage to the hydraulic hoses, slide pads, and wiring harness inside up-rights. Do not weld in area around control switches. Shield all wires and hoses from heat and weld spatter.

NOTICE:
When welding, be sure to ground the Welder to the component being welded to prevent potential damage to the hydraulic and electrical systems during welding.
WELD DOCK BUMPER TO REAR DOOR FRAME

Remove switch wire cover and weld dock bumpers 100% to rear door frame as shown with 1/4" welds.

Caution needs to be taken not to damage switch or lighting wiring.

⚠️ Shield all wires and hoses from heat and weld spatter.

⚠️ Excessive heat from welding can cause damage to the hydraulic hoses and wiring harness inside up-rights. Do not weld in area around control switches. Make certain the weld area cools before routing switch wires and reattaching switch wire cover.

⚠️ When welding, be sure to ground the Welder to the component being welded to prevent potential damage to the hydraulic and electrical systems during welding.

Remove all remaining Installation Fixture Components

Remove upper Installation Brace.

IMPORTANT:

Be certain Upright caps are secured in place using installation brace bolts.

Switch wire cover

1/4" weld Bumper 100% to rear door frame (Both Sides)

Remove upper Installation Brace.

Replace Upright caps after removing installation brace
Chapter 4  Liftgate Installation

Weld the Crossbeam of the Liftgate to the vehicle sill with five (5) ¼” x 2” long welds as shown.

**Excessive heat from welding can cause damage to the hydraulic hoses and wiring harness inside uprights. Do not weld in area around control switches. Shield all wires and hoses from heat and weld spatter.**

When welding, be sure to ground the Welder to the component being welded to prevent potential damage to the hydraulic and electrical systems during welding.

---

**FILLING HYDRAULIC RESERVOIR**

**For Gravity Down Gates:**
Lower platform to the ground in the open position.

**For Gravity Down with Power Down Option:**
Raise platform up to bed level in the open position.

The pump reservoir is pre-filled by Waltco at the factory. Check oil level in hydraulic reservoir. Add oil, if required, to fill it to within 2” of top of reservoir.

---

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Acceptable Fluids</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 120° F</td>
<td>Waltco Biodegradable Liftlube™ part #85803860</td>
</tr>
<tr>
<td></td>
<td>Shell Tellus S2 V 32</td>
</tr>
<tr>
<td></td>
<td>Chevron Rando HDZ 32</td>
</tr>
<tr>
<td>-20° to 90° F</td>
<td>Waltco Biodegradable Liftlube Arctic part #85803866</td>
</tr>
<tr>
<td></td>
<td>Waltco All Season Hyd Oil Part 85803867</td>
</tr>
<tr>
<td></td>
<td>Shell Tellus S2 V 15</td>
</tr>
<tr>
<td></td>
<td>Mobil DTE 10 Excell 15</td>
</tr>
</tbody>
</table>

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 2” from the top. (Filling instructions above)
- 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)

Ref. WDV  Rev 06
**CHECK TRAVEL LATCH ENGAGEMENT**

Store platform in travel latch.

Check that travel ear engages the cam by 3/8" minimum.

If travel ear engages cam less than 3/8" add retaining ring to drivers side hinge pin between platform and runner hinge tube. See INSTALLING PLATFORM SHIM instructions below.
Chapter 4  Liftgate Installation

INSTALLING PLATFORM RETAINING RING

a. Retaining rings should be zip tied to one of the hydraulic hoses inside the pumpbox. Two are included if necessary.

b. Lower platform to 20" above ground.

c. Push platform towards passenger side to make room for retaining ring.

d. Insert retaining ring between platform and runner hinge tube by snapping onto platform hinge pin.

e. If travel ear engagement distance is still less than 3/8" add second retaining ring if platform can be moved towards curb side to make a gap greater than 1/8".

BLEEDING THE LIFTING CYLINDERS

f. Run the power unit until the platform is stopped at its maximum lifting height. Note: Master disconnect located in pump box must be on to run liftgate.

g. With the platform at the maximum lifting height continue to run the power unit for 35 seconds.

h. Let the power unit rest for 5 minutes (or switch to auxiliary pump) and run power unit for 35 seconds again with the platform at the maximum lifting height.

i. The lifting cylinders are now bled.
Chapter 4 Liftgate Installation

BLEEDING THE CLOSING CYLINDER

a. Open Platform.
b. Lower Platform to the ground.
c. Remove retainer from platform cylinder pin.
d. Retract POC cylinder using switch.
e. Remove hose from upper fitting of POC cylinder.
f. Run fluid through hose by operating switch as if trying to close platform. Note: Stop when fluid exiting the hose is running clear.
g. Reattach hose to upper fitting of POC cylinder.
h. Extend POC cylinder using switch.
i. Remove hose from lower fitting of POC cylinder.
j. Run fluid through hose by operating switch as if trying to open platform.
   Note: Stop when fluid exiting the hose is running clear.
k. Reattach hose to lower fitting of POC cylinder.
l. Align POC cylinder clevis with bracket on platform.
m. Replace the platform cylinder pin and retainer.
Chapter 4  Liftgate Installation

POWER UNIT HYDRAULIC/ELECTRICAL SCHEMATIC - DUAL PUMP MOTOR WITH BACKUP/AUXILLARY
Standard harness comes with AMP Superseal 1.5 series connector that plugs directly into many O.E.M. light harnesses. Adapters are available for different harness connectors.

AMP Superseal 1.5 Series connector

Green - Stop/Turn Top
White - Ground
Red - Stop/Turn Bottom
Tan - Running
Chapter 4  Liftgate Installation

CHECK OPERATION OF LIFTGATE

Check that all controls operate correctly per following instructions Check Both Inside Raise/Lower switches and Outside column switches as follows.

Do not allow anyone to stand in, or near area in which platform will open and lower.

Check that Liftgate operates freely and smoothly through operational cycle without unusual noise or vibration.

Check that platform opens in 7 to 9 seconds and closes in 8 to 10 seconds.

OPENING PLATFORM FROM STORED POSITION

1. Turn on power to liftgate by turning the master disconnect switch, located on pump box, to the “ON” position.
2. Be certain operating area around platform is clear before opening platform.
3. Using the “UP” toggle switch, power platform up so that it is completely out of the travel locks.

OPENING PLATFORM FOR LOADING

1. Raise the platform until travel stops. (Fully raised)
2. Using the “UP” toggle switch and “OPEN” toggle switch simultaneously, power open platform.
3. Using the “DOWN” toggle switch, lower platform for use.
Chapter 4  Liftgate Installation

RAISING AND LOWERING PLATFORM

Using the “DOWN” toggle switch, lower platform for use.

Use the “UP” toggle switch to raise platform.

CLOSING PLATFORM

1. With the platform open, power platform all the way up.
2. Using the “UP” toggle switch and “CLOSE” toggle switch simultaneously, power close 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 Catch.
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.
Chapter 4  Liftgate Installation

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.

FOLDING RAMP OPTION OPERATION INSTRUCTIONS

Unlatch ramp and unfold to loading position.
Use flip ramp chain for cart stop application.
Assure ramp is latched when in transit position.

Ramp Latch
Latched for transit
Flip Ramp Chain
Proper deployed angle is 45 degrees
### DUAL PUMP OPERATION INSTRUCTIONS

**STANDARD ON WDV55 AND WDV66**

The liftgate may be equipped with an optional Dual Pump Unit. The purpose of the Auxiliary Pump unit is to provide a backup in the event of a malfunction of the Primary Pump, Motor or Motor Solenoid.

The Auxiliary Pump is **NOT INTENDED FOR NORMAL OPERATION** of the liftgate. Liftgate must be repaired as soon as possible after a malfunction of the Primary Pump unit occurs.

**TO OPERATE THE PRIMARY PUMP:**

Move toggle switch on the pump to the “Primary Position”.

Operate liftgate with controls on columns as usual.

**TO OPERATE THE AUXILIARY PUMP:**

Move toggle switch on the pump to the “Auxiliary Position”.

Operate liftgate with controls on columns as usual.

---

Double check that all hoses, wires and cables are secured under vehicle.

Paint & Clean up Liftgate in areas where the Liftgate was welded to the vehicle.

It is recommended (not required) that caulk be applied between uprights, crossbeam and vehicle body in all areas not welded to reduce corrosion between the Liftgate and the vehicle.
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.

To maximize decal adhesion to surfaces:
- Surface must be dry and clean
- Firm pressure must be applied to decal
- Minimum surface temperature 65º
  Heat gun may be used to heat surface

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>DESCRIPTION</th>
<th>WDV35</th>
<th>WDV45</th>
<th>WDV55</th>
<th>WDV66</th>
<th>WDV WITH ALUMINUM RETENTION RAMP</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OPERATING INSTRUCTIONS</td>
<td></td>
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</tr>
</tbody>
</table>

NOTE: ITEMS 8 & 9 (NOT SHOWN) ARE PLACED ON THE BOTTOM SIDE OF THE 16" RETENTION RAMP. CONTACT WALTCO FOR PLACEMENT LOCATION OF THESE ITEMS.
LUBRICATION INSTRUCTIONS

The following areas ONLY should be lubricated approximately once a month, or as outlined in the lubrication schedule 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.
Chapter 7  Final Inspection List

IMPORTANT

All of the following items are to be checked and verified before installation is complete and liftgate is ready for service.

1. Does liftgate fold and unfold freely and properly?
2. Check that body side walls are strong enough to support WDV/WDVBG Series liftgate forces.
3. Check that uprights are square, parallel and travel ear engages 3/8” of passenger side cam.
4. Check to be certain that all hydraulic fittings are tight and leak free.
5. Check that platform is level with the vehicle floor.
6. Chain attachment bolts and linkage bolts are in place and secured with locknuts.
7. Check all welds to see that they are done properly.
8. Check all switches to see that they work properly and in the proper sequence.
9. Check that platform opens and closes properly and at the proper rate of speed.
10. Check to be sure hinge pins between the platform and the deck extension are retained with proper fasteners.
11. Check that Store Below Locks (if equipped) function properly.
12. Check that all electrical connections are done properly and that battery cable is properly secured to frame.
13. Check that batteries are fully charged and grounded per instructions.
14. Check that liftgate is properly lubricated.
15. Check to see that all decals are in place and legible.
16. Check that all nuts and bolts are tightened properly.
17. Check that hydraulic reservoir is full of oil.
18. Check that vehicle meets all state and federal standards.
19. Check that owner’s manual is in vehicle.
20. Operate the liftgate throughout its entire operational cycle several times. Check that the liftgate operates freely and smoothly throughout the entire operating cycle and that there are no unusual noises while operating the liftgate.

⚠️ DO NOT USE LIFTGATE IF ANY OF THE ABOVE ARE NOT CHECKED AND VERIFIED. IF YOU HAVE ANY QUESTIONS NOT COVERED IN THIS MANUAL, CONTACT YOUR NEAREST WALTCO DISTRIBUTOR, OR THE NEAREST WALTCO FACTORY.
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.
Bolt top to side extensions.

Cut side extensions to length if necessary.

Position side extensions at desired height and tack weld to outside of column.

After bolting header top to side extensions, weld to column with 2" long \( \frac{3}{16} \)" welds located top middle and bottom.

Touch up welds with paint or cold galvanizing spray accordingly.
STORE AT BED LEVEL INSTALLATION INSTRUCTIONS

1. With the platform closed, lower platform all the way down until it contacts the stops on the threshold.

2. Determine if the height of the platform is acceptable. There are stop blocks included in the kit that can be used to raise the height of the platform 1-1/4" so that the mating surfaces of the platform is closer to the bed height of the trailer.

3. If the higher position is desired then open the platform and weld the blocks, part #7 shown in the diagram below and the picture on the next page, onto the down stops on the threshold.

4. Grind enough paint off the bottom of the column for proper welding.

5. Clamp the column extensions onto the bottom of the columns flushing up the outer surfaces of the column and column extensions. Leave a gap between the two pieces to make sure proper weld penetration is achieved.

6. Weld the column extensions onto the bottom of the columns. Grind the welds flush if desired.

7. With the platform in the closed position, lower the platform until it contacts the down stops.
8. Position the travel latches, part #5, onto the inside surface of the column extension using the travel ears on the deck extension as a guide. Tack the travel latches in position.

9. Raise and lower the platform to ensure proper motion in and out of the travel latches.

10. If satisfied with the latching motion of the platform weld the travel latches onto the column extensions with a ¼” fillet weld on both sides of the travel latch.

11. Bolt the folding step onto the curbside column using the hardware supplied.

12. Locate the handle, part #6, onto the curbside column at a convenient height.

13. Touch up the paint on the columns at the weld sites.
**WDV Hand Held Remote Installation**

**DRILL SOCKET HOLES**
Using dimension shown, drill mounting holes in desired location for socket.

**INSTALL SOCKET**
Assemble socket as shown.
Install wires according to colors:
- W = White (Raise)
- B or BK = Black (Lower)
- G = Green (Power)

**CONNECT WIRES TO PUMP UNIT**
Add 7/8" hole in box to route control cord into pump enclosure.
Use hole grommet to prevent damage to cord.
Use W/D shown below to configure control chord in pumpbox.
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.

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NOTE:

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

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IMPORTANT

⚠️ WARNING

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