



# WALTCO

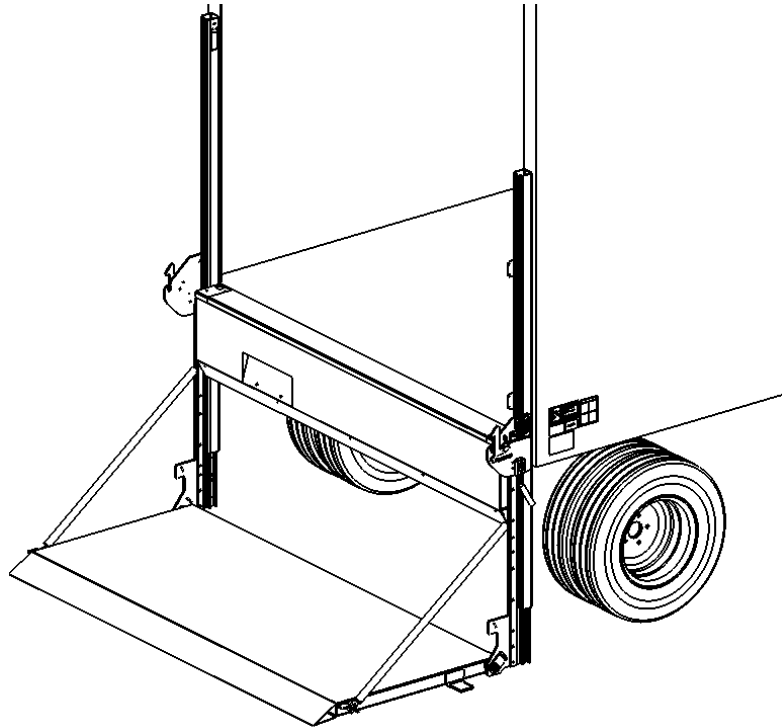
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# Installation Manual

## MDL, MDLBG

1250 lb. - 2000 lb. Capacity Rail Liftgates



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**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.**

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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 list, and an outline of things that should be checked but may not be obvious to those not technically qualified. The 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 for 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 warnings listed below.**

**Failure to follow these warnings could result in severe personal injury or death.**

- \* Read and understand the Owner's Manual, all decals and warnings 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 failing.
- \* This liftgate is designed for loading and unloading cargo. If personnel are required to ride the 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 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 and 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 up or down 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 or Bed Extension unless the liftgate is equipped with a special reinforced Platform and Platform Support Bars for use when the Platform is used as a 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 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 (5) five 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 Upstop Pins when in transit.
- \* Inspect cables every (3) three 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 (5) five years or 10,000 cycles, whichever comes first.

## MDL Series Liftgates

- \* Make certain Platform Brake mechanisms are operating properly.
- \* The Platform Retaining Bar should be lowered into H-Frame Storage Plate when in transit.
- \* Inspect Roller Chains every (3) three months or 750 cycles, whichever comes first. Roller Chains must be measured and checked for signs of stretching. If the chain is stretched by more than 3% they should be replaced.
- \* Replace Roller Chains every (5) five years or 15,000 cycles whichever comes first. Replace only with WALTCO APPROVED Roller Chain.
- \* Check that all connecting links at each end of Roller Chain are properly secured with proper cotter pins monthly.

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 an yellow background.



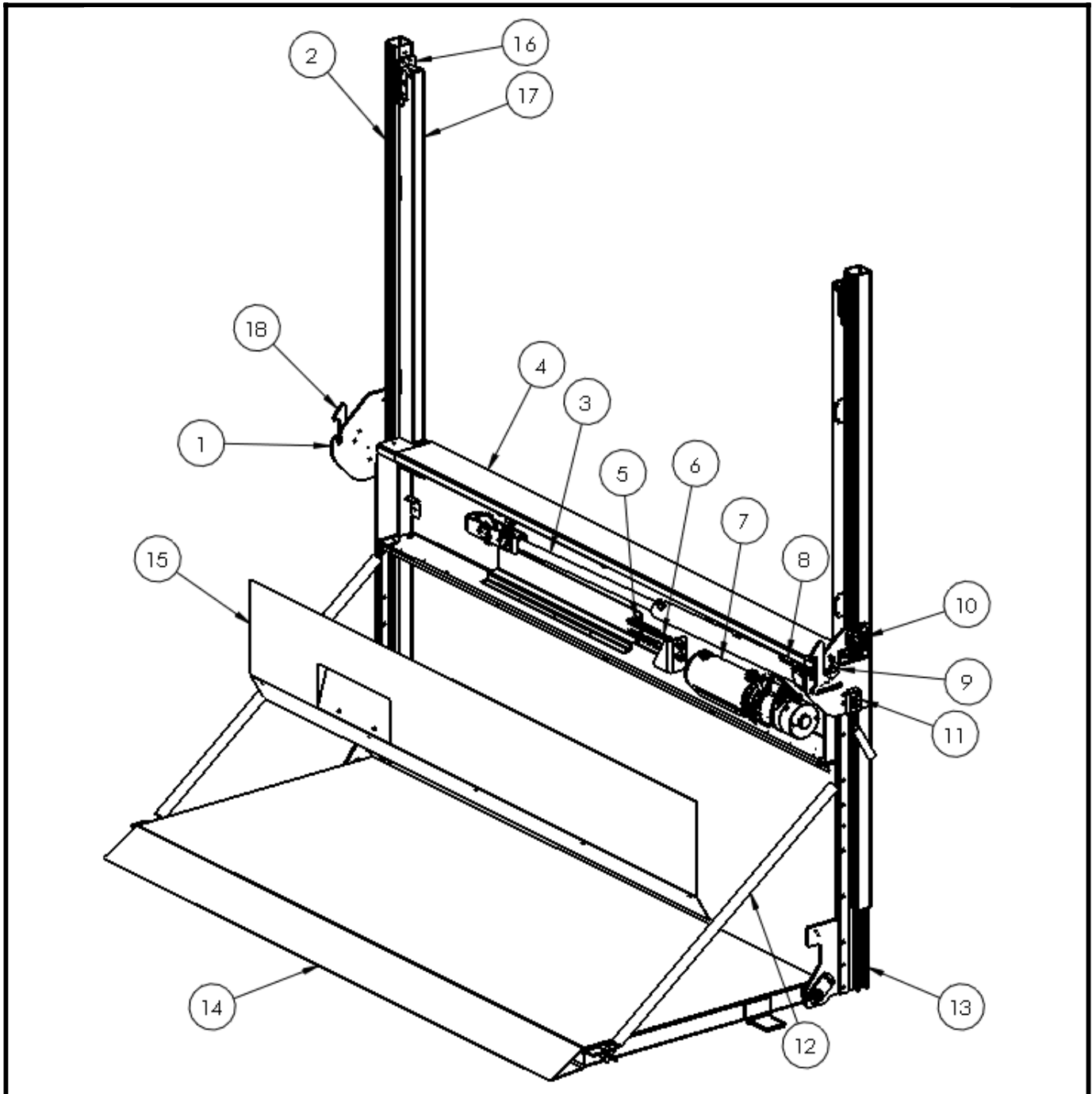
### NOTICE

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



# Chapter 2 Liftgate Terminology

- |                            |                       |                                  |
|----------------------------|-----------------------|----------------------------------|
| 1. Storage plate           | 7. Pump Unit          | 13. Runner (Slider)              |
| 2. Rail (Track)            | 8. Flow Control Valve | 14. Platform                     |
| 3. Lift Cylinder           | 9. Latch Lock         | 15. Access Door                  |
| 4. Crossbeam Box (Housing) | 10. Serial Number Tag | 16. Above Floor Sprocket Bracket |
| 5. Lifting Chain           | 11. Switch Assembly   | 17. Above Floor Chain Guard      |
| 6. Chain Anchor Bolt       | 12. Support Chain     | 18. Transit Latch                |



# Chapter 2 Liftgate Terminology

## EXPLANATION OF SERIAL NUMBER TAG

MODEL NAME	DESCRIPTION	CAPACITY
MDL-12	Medium Duty Lift	1250 lbs.
MDL-16	Medium Duty Lift	1600 lbs.
MDL-20	Medium Duty Lift	2000 lbs.
MDL-30	Medium Duty Lift	3000 lbs.
SB-12	Service Body	1200 lbs.
SB-16	Service Body	1600 lbs.

**MODEL NAME**

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

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

**DATE OF MANUFACTURE**  
Month / Year

1-800-211-3074

**SERIAL NUMBER TAG**

# Chapter 3 Mounting Requirements

## DETERMINE BED HEIGHT AND ABOVE FLOOR TRAVEL RANGES


\* Maximum bed height (measured with vehicle empty) must be within the range shown in the chart below.

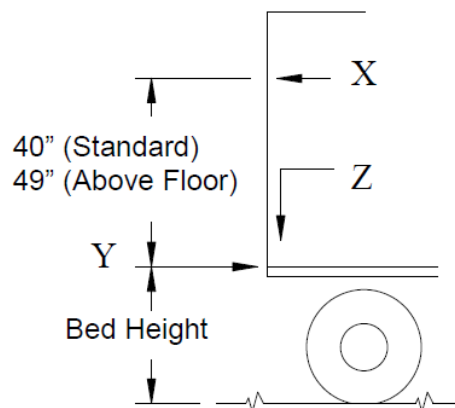
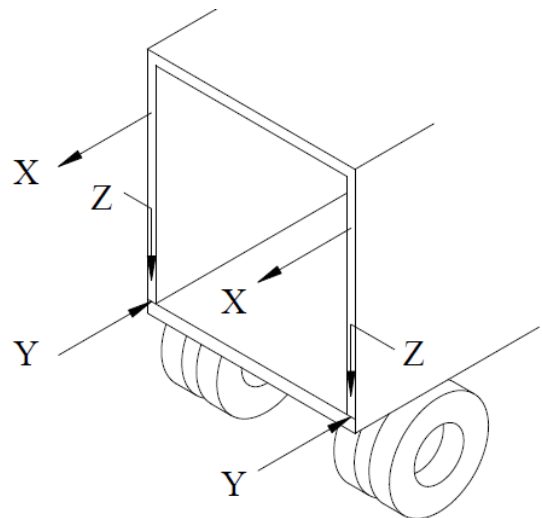
Model	Standard Bed Height Range	Above Floor Bed Height Range	Above Floor Travel Limitations
MDL12	30" - 46"	30" - 46"	Travels to 11" Above Floor
MDL16, MDL20, MDL30	30" - 56"	38" - 46"	
SB	25" - 46"	25" - 41"	Travels to 7" Above Floor

**NOTE: Some liftgates can be adjusted for additional travel above floor, contact Waltco Technical Services for additional information.**

\* Vehicle must be capable of supporting the following forces

- \* X - Side Wall, Tension - 1800 lbs.
- \* Y - Side Wall, Compression - 1800 lbs.
- \* Z - Side Wall, Shear - 1800 lbs.

 **Vehicle body must be capable of supporting forces of liftgate**



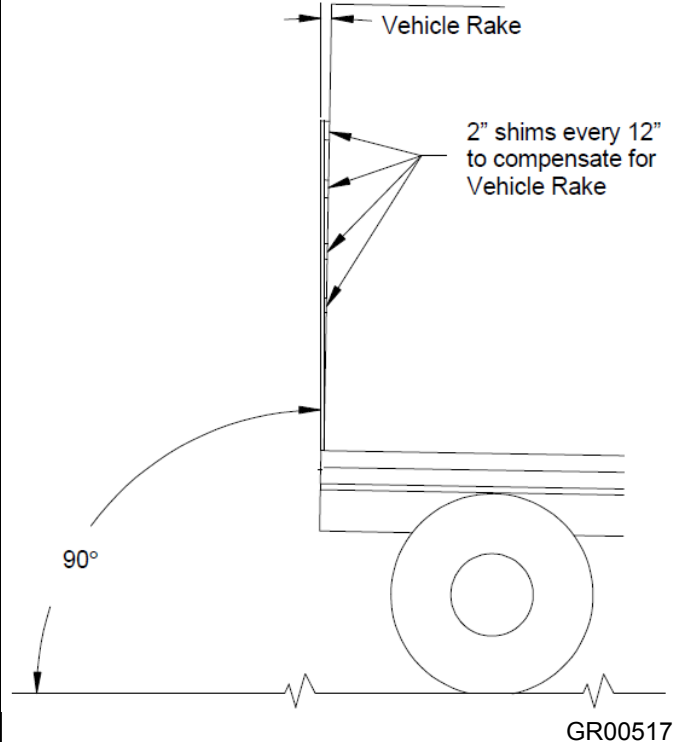
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# Chapter 4 Liftgate Installation

## PREPARATION OF VEHICLE

Remove the pickup truck bumper and tailgate.

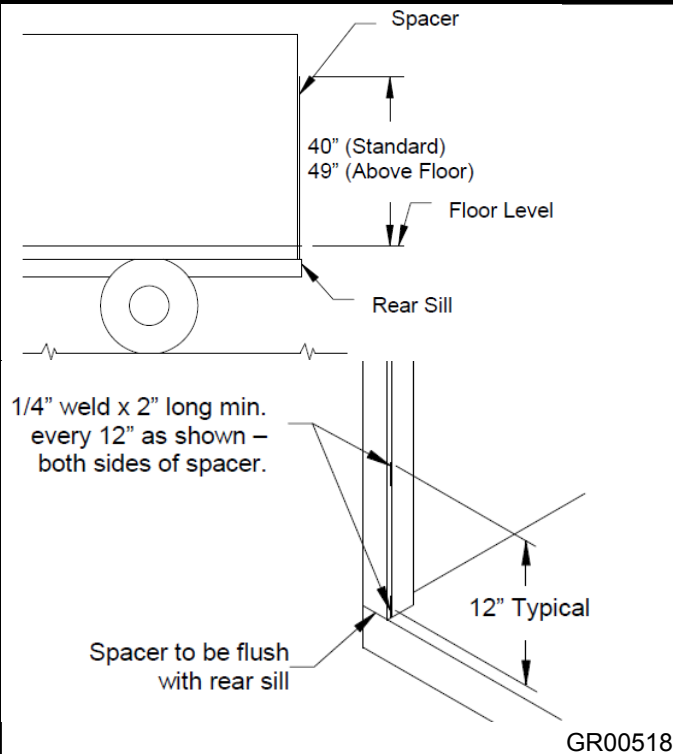
If corner posts are not 90° to the ground, shims will have to be added as shown to compensate for vehicle rake.



Remove all obstructions that would interfere with operation of liftgate such as dock bumpers, trailer hitches, projections, etc.

Locate and mark center of body sill.

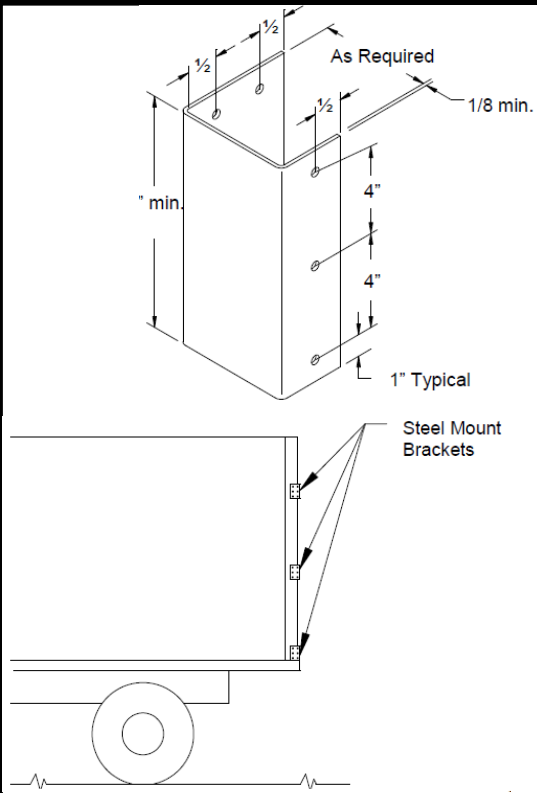
Spacers must be added if corner posts are not flush with rear sill.



# Chapter 4 Liftgate Installation

If vehicle has aluminum corner posts, six steel mounting brackets will have to be fabricated and installed on corner posts.

Attach mounting brackets to corner posts using 1/4" or larger fasteners.

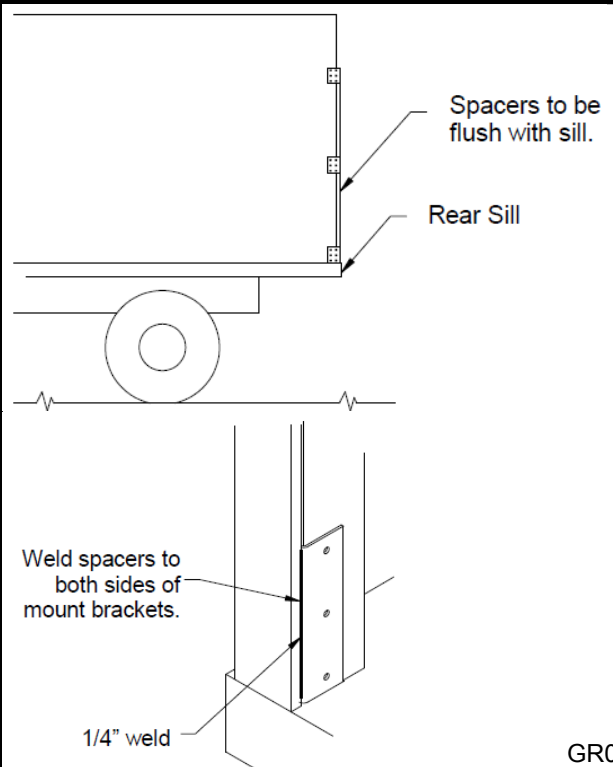


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Check that mounting brackets are flush with rear sill.

Add spacer to mount brackets as necessary.

Build out as necessary.



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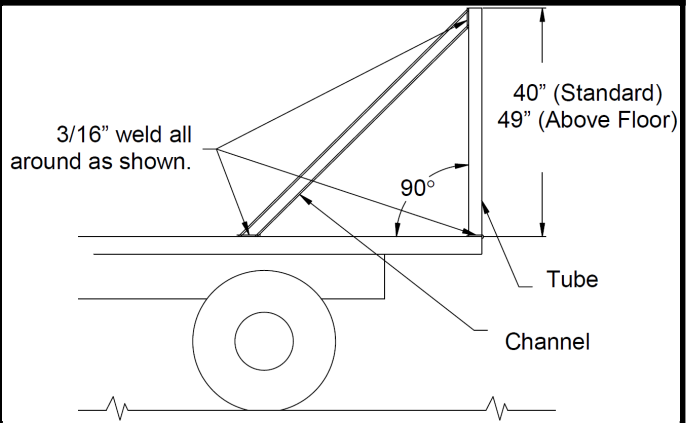
# Chapter 4 Liftgate Installation

## PREPARATION OF FLATBED

Fabricate and install support tubes and braces as shown or equivalent.

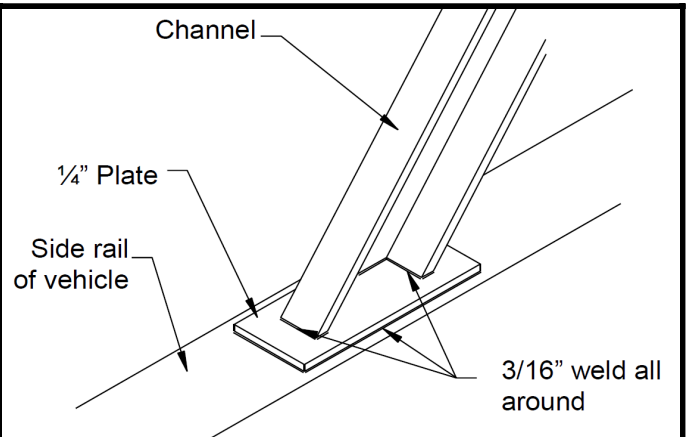
Support - 3" X 3" X 3/16" square tubing

Brace - 3" X 4.1 lbs. minimum channel



GR00522

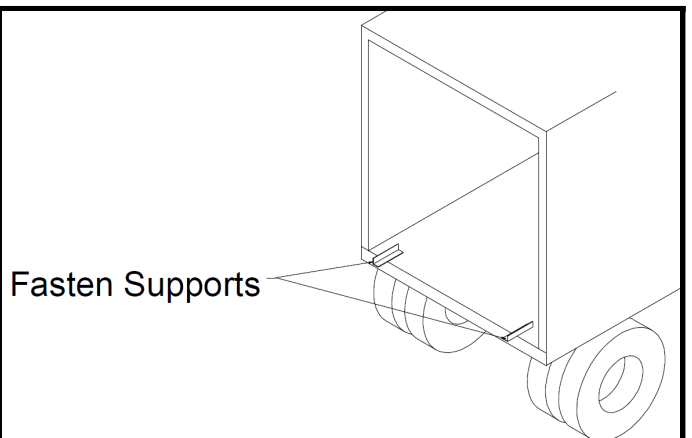
If side rail of vehicle is less than 1/4" thick, bolt or weld a 1/4" thick plate to side rail first, then weld channel to plate as shown.



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Cut two mounting supports out of angle or channel at least 7" long.

Fasten supports with tack weld or weight to floor of vehicle as shown.



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# Chapter 4 Liftgate Installation

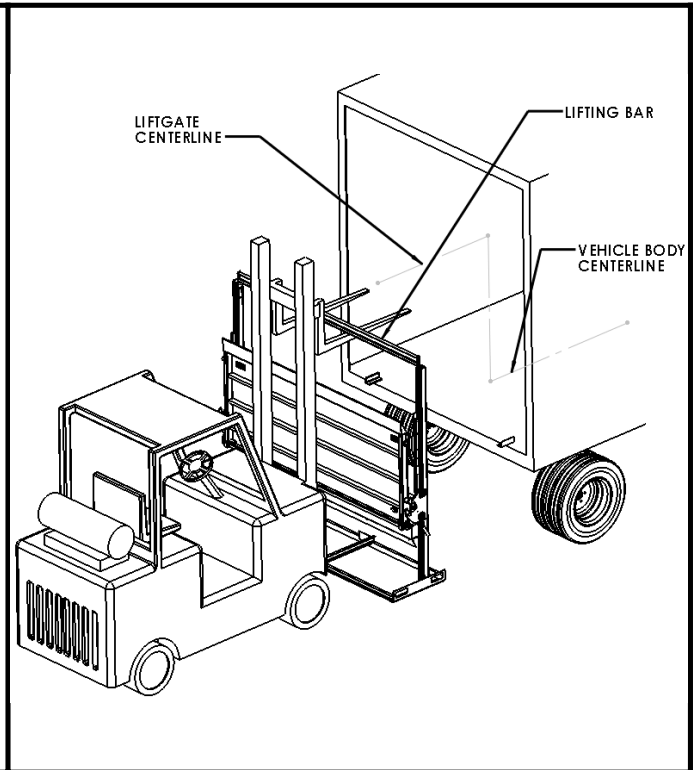
## LIFTGATE INSTALLATION

Use forklift or other means to raise liftgate by lifting bar as shown.

Position liftgate at rear of vehicle so the temporary supports rest on crossbeam box and centerline of liftgate is aligned with centerline of vehicle body.

Stand clear of installation area while positioning liftgate.

 **Stand clear of installation area while positioning liftgate.**



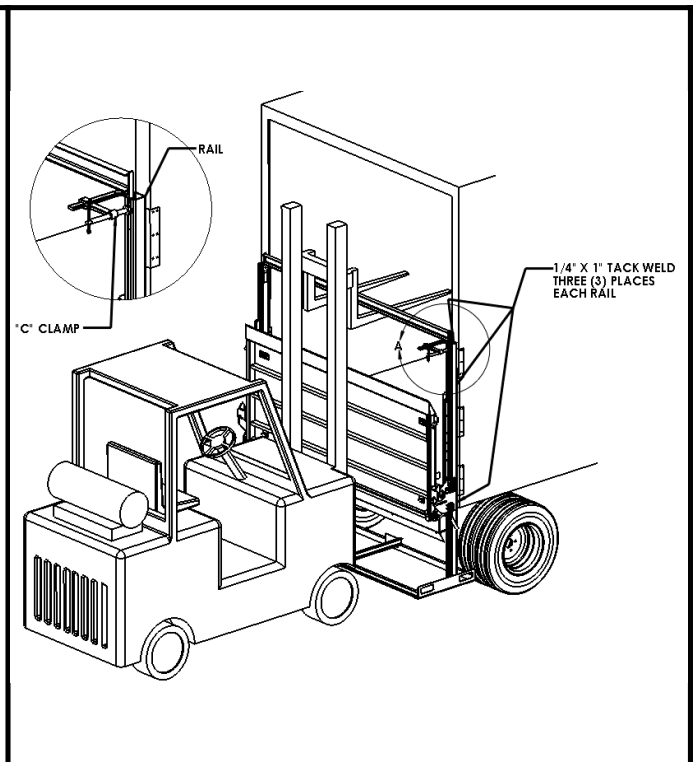
Clamp liftgate to vehicle as shown.  
Do not over tighten.

Tack-weld rails to vehicle corner-posts or mount brackets as shown.

### NOTE:

**Liftgate is only tack welded, additional welding will be required as instructed before installation is completed.**

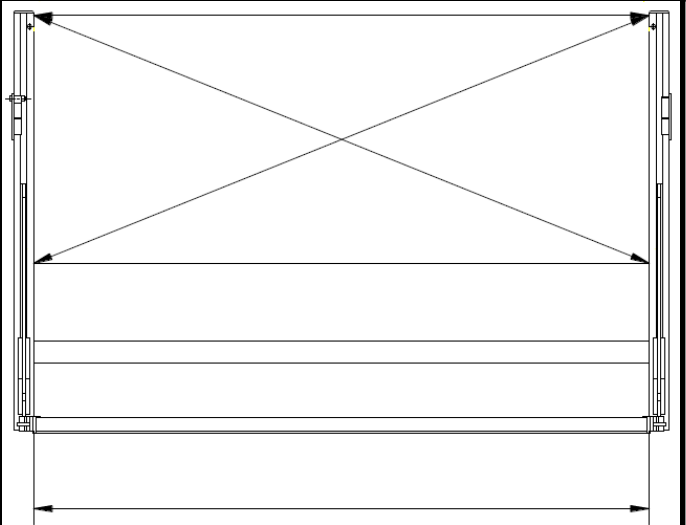
 **Do not load platform before installation is completed.**



## Chapter 4 Liftgate Installation

Check that top of liftgate crossbeam box is level with the rear sill of truck. Check rails for squareness using a square.

Double check rails for squareness using diagonal measurements as shown. This is essential to ensure smooth operation of liftgate.

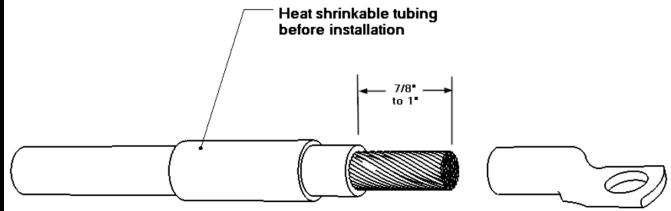


# Chapter 4 Liftgate Installation

## INSTALLATION OF TERMINAL LUG

Strip 7/8" - 1" of insulation from end of cable.  
Slide heat shrinkable tubing onto cable.  
Insert bare wire into terminal lug until it seats.

Crimp terminal with 4-way indent mil-spec crimp.  
Or the terminal could be soldered in place.

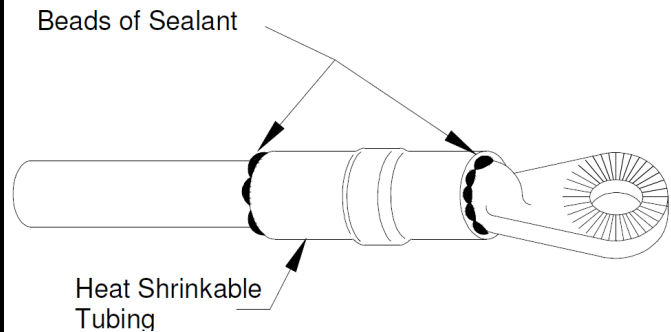


Position heat shrinkable tubing over terminal and end of cable.

Shrink tubing using electric heat gun or torch.

**Note: To reduce chance of damaging tube and cable, a heat gun is recommended.**

Apply sufficient heat to produce thin bead of sealant all around tube edges.



GR00301

# Chapter 4 Liftgate Installation

## INSTALLATION OF POWER CABLES

These instructions are for connecting to truck batteries only. Refer to auxiliary battery instructions in back of this manual.

Locate and mount circuit breaker directly to batteries using copper terminal link supplied.


Circuit breaker must be mounted to give good protection against any objects coming into contact with circuit breaker terminals and causing a short. Position must also be readily accessible to reset circuit breaker.

### NOTE:

**Circuit Breaker is to rest solidly on battery to prevent vibration during transit.**

If unable to connect circuit breaker direct to batteries, an optional jumper cable can be made from excessive length of power cable, see instructions above for installing terminal lugs.


Connect power cable (positive) from liftgate to circuit breaker. Then connect ground cable to negative terminal on batteries.

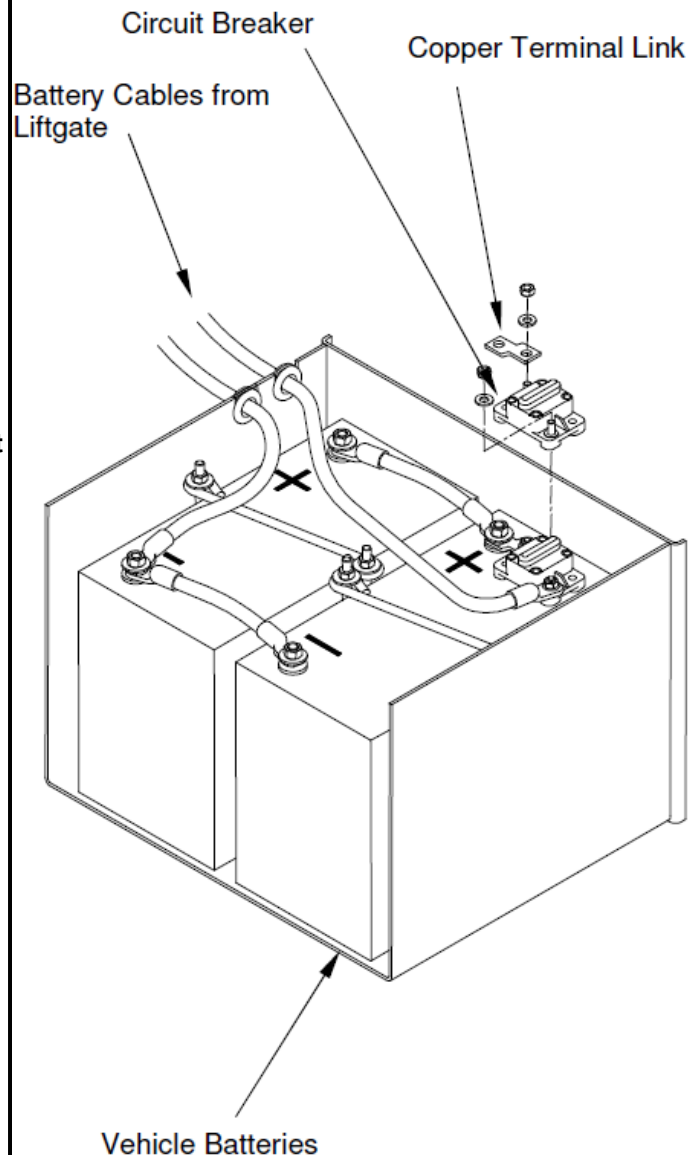
 **By connecting battery cable from liftgate to battery(s), liftgate controls become operational.**

Apply a generous amount of Dielectric grease to all Battery terminals and Circuit Breaker terminals.

Secure all battery cables to chassis frame with cable ties provided.

 **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.**



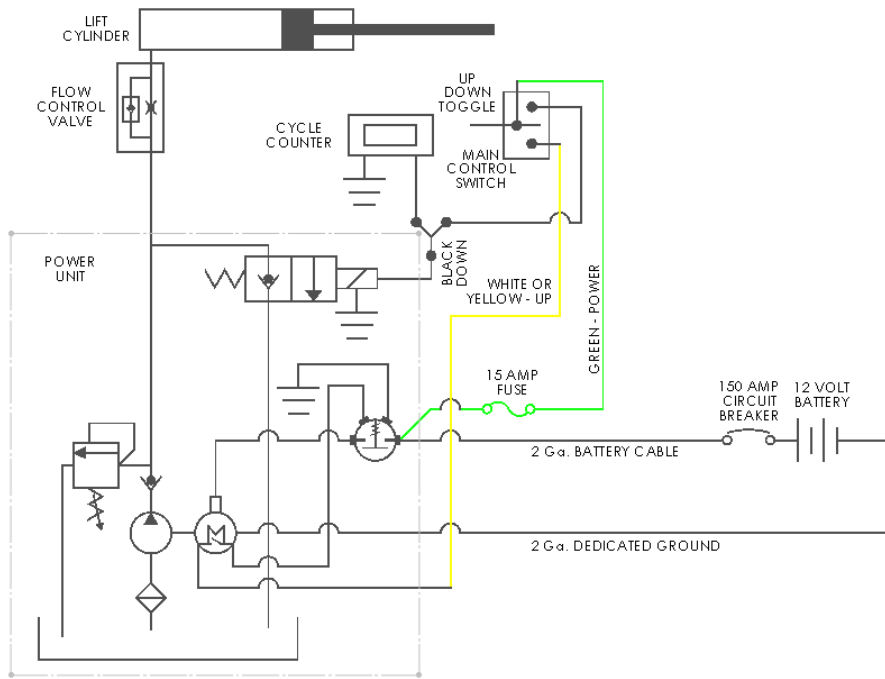
## IMPORTANT

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 chassis frame if engine is not adequately grounded to chassis frame. When there are two or more batteries, all cables connecting batteries together must be 2 ga. or heavier. This includes all original equipment batteries on vehicle.

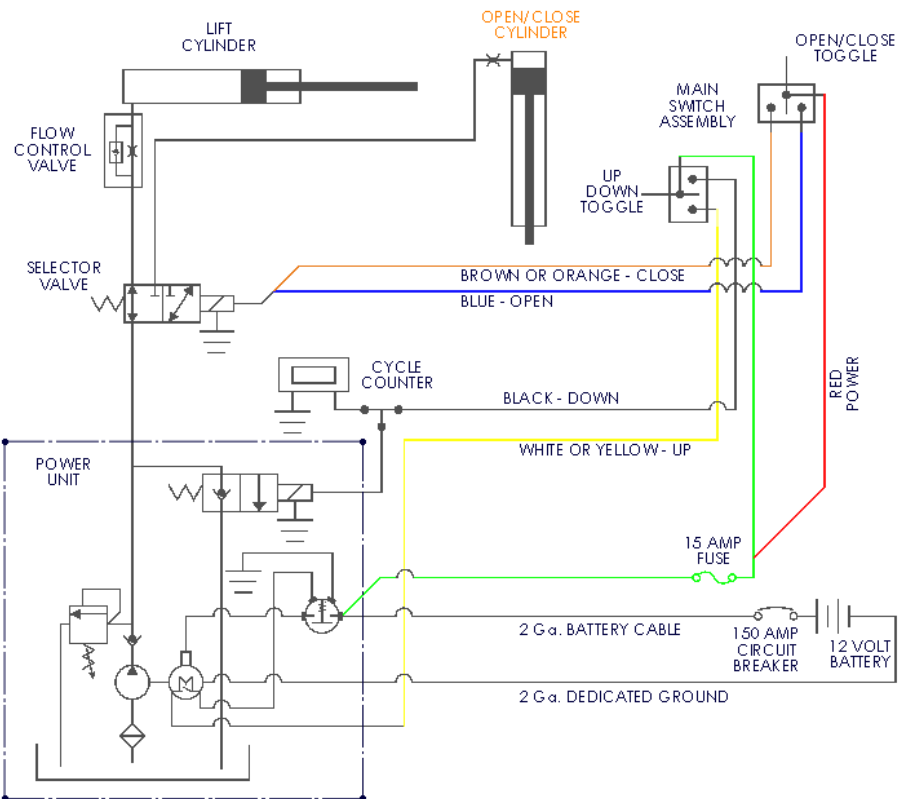
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# Chapter 4 Liftgate Installation

ELECTRICAL / HYDRAULIC SCHEMATIC (MANUAL CLOSE)

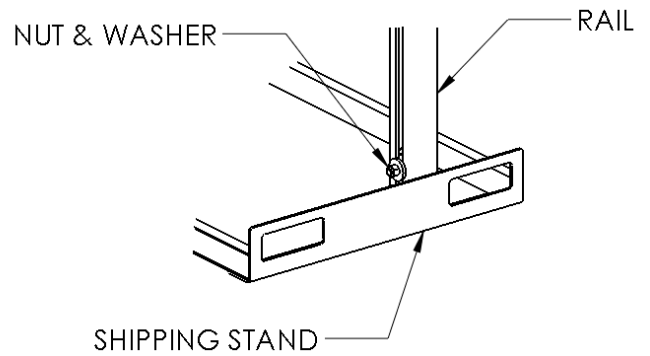


ELECTRICAL / HYDRAULIC SCHEMATIC (POWER CLOSE)



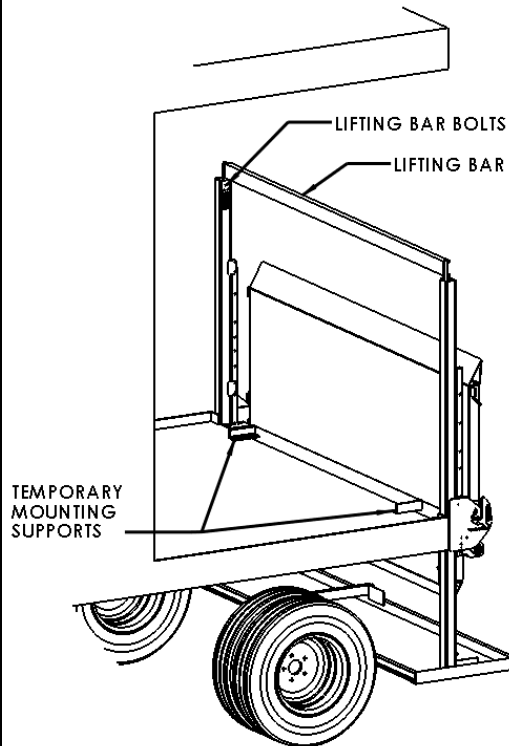
# Chapter 4 Liftgate Installation

Remove shipping stand.



Remove temporary mount supports

Remove lifting bar



## Chapter 4 Liftgate Installation

Open and lower platform to the ground. (See Owner's Manual for operating instructions)

After verifying liftgate position, and that tracks are parallel and square, weld rails to corner posts, or steel brackets if used.

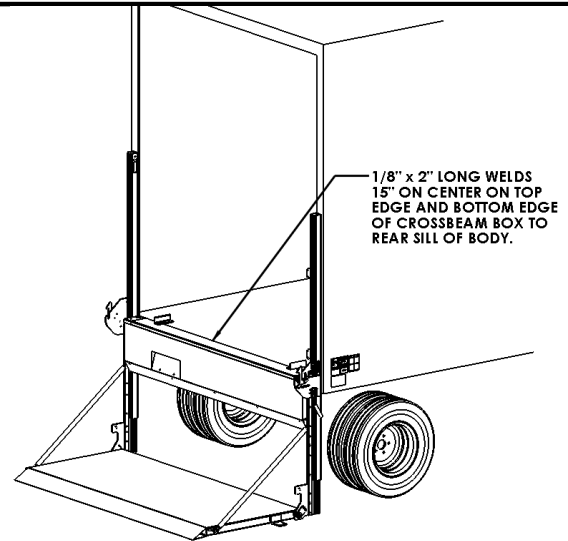
**NOTE:**

**Be aware of plastic slide bearings inside rails. Too much heat can damage bearings.**

**Weld with platform lowered to ground to prevent damage.**

**On Above Floor models, remove chain covers before welding.**

After welds cool, install plastic caps in top of rails.

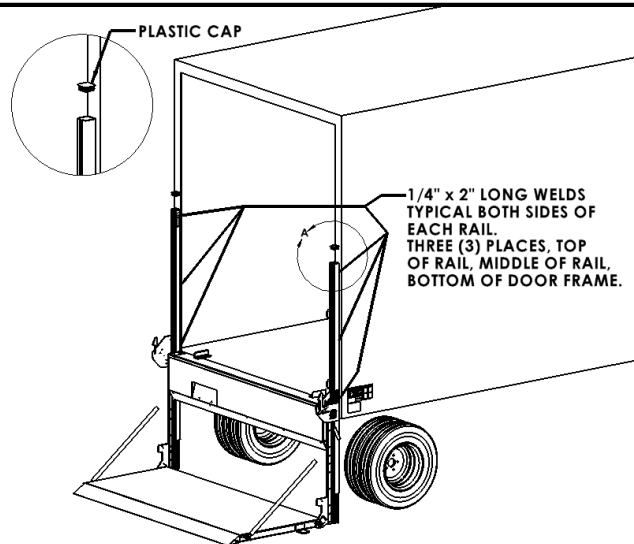


Go to next step if sill is not steel.

Weld liftgate crossbeam box to vehicle with 1/8" welds as shown.

Weld bottom of crossbeam box to rear sill.

**On Above Floor models remove chain covers before welding.**

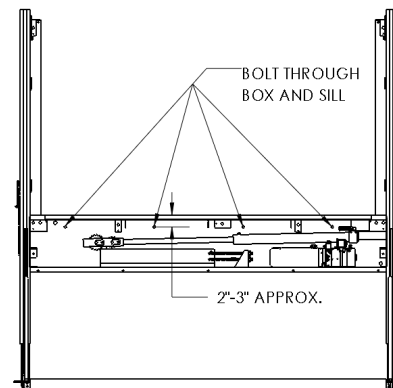


Skip this step if sill is steel.

Remove access door before performing this step.

Drill four 3/8" diameter holes through crossbeam box assembly and rear sill approximately as shown. Assure bolt heads will not interfere with function of liftgate. Install four 3/8" bolts.

Remove any metal shavings after drilling, and reinstall access door.



# Chapter 4 Liftgate Installation

## PLATFORM ADJUSTMENT

Unfold and raise platform to bed level and check for:

- 1 If platform travels more than 1/4" above the top of the crossbeam box, and liftgate is **not an Above Floor** model liftgate, see below for adjustment.
- 2 If platform is uneven see below for adjustment.

Lower platform to ground. Remove access door from crossbeam box.



If liftgate is Above Floor model:

- \* Adjust as required to level platform.

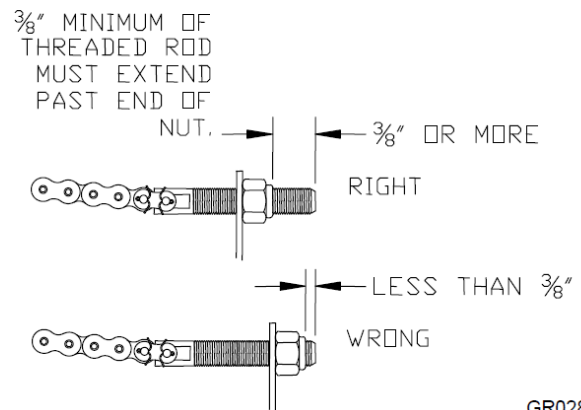
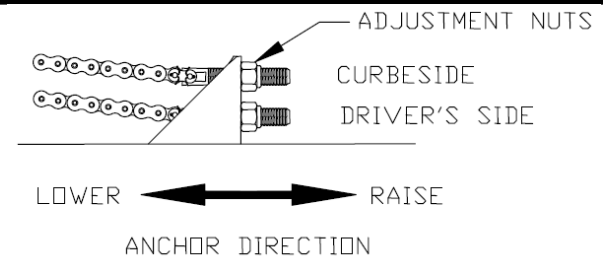
If liftgate is not an Above Floor model:

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

**!** For non-Above Floor liftgates, never adjust platform to travel more than 1/4" above the crossbeam box.

**!** Never adjust nut out less than 3/8" from end of anchor bolt.

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



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## ABOVE FLOOR TRAVEL

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

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

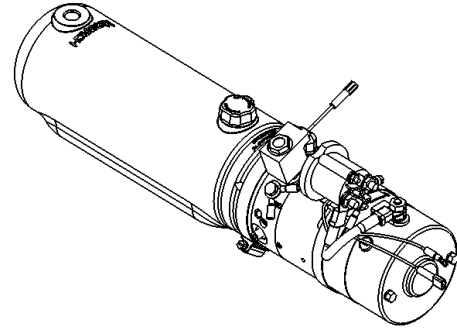
# Chapter 4 Liftgate Installation

## FILLING HYDRAULIC RESERVOIR

Lower platform to ground and remove access door.

Remove breather and fill reservoir with hydraulic fluid until 1/2" from top.

Cycle liftgate several times to release trapped air from system.



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## HYDRAULIC FLUIDS

Fluids are available from the Waltco Parts Dept. 1-800-411-5685 [www.waltco.com](http://www.waltco.com)

### **NOTE:**

**Do not use the following fluids:**

**Brake Fluid**

**Power steering fluid**

**Automatic Transmission Fluid (ATF)**

### Recommended Fluids

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

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

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# Chapter 4 Liftgate Installation

## INCREASING DEPARTURE ANGLE

It may be necessary to increase departure angle if vehicle has a low bed height and or a long overhang,

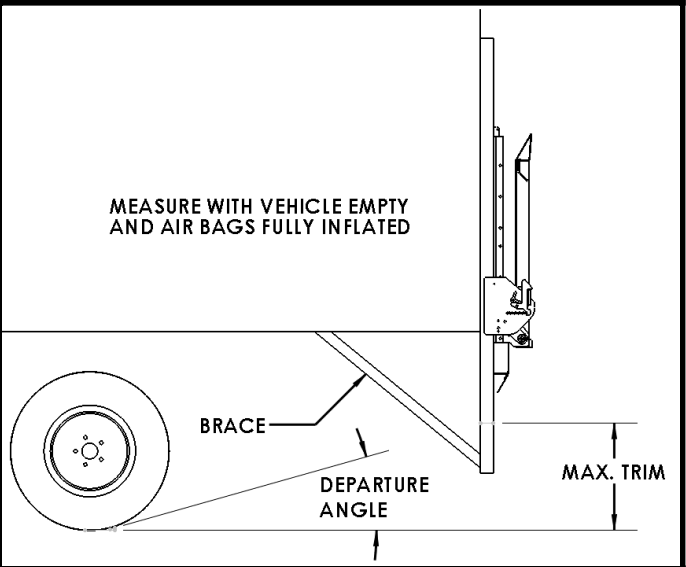
Secure platform in stored position.

Make certain vehicle is empty.

**NOTE:** Vehicles with air ride suspension must have air bags fully inflated before measuring and trimming rails.

Trim rails to dimension in table:

MODEL	MAX. TRIM
MDL12	15"
All other models	20"



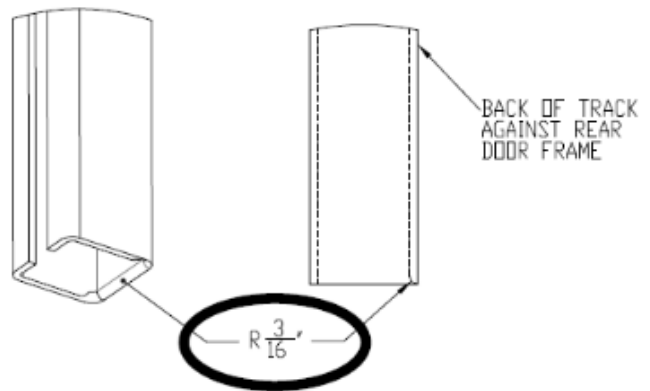
## IMPORTANT

**DO NOT LOWER PLATFORM UNTIL BOTTOM OF RAIL IS GROUND AS INDICATED**

**Grind inside and outside edges of rail smooth after cutting**

**Round back edge of rail, where rear slide bearing contacts, to 3/16" radius.**

**Note: if rails are NOT trimmed, brace as shown.**



GR02852

## Chapter 4 Liftgate Installation

### TORSION BAR ADJUSTMENT



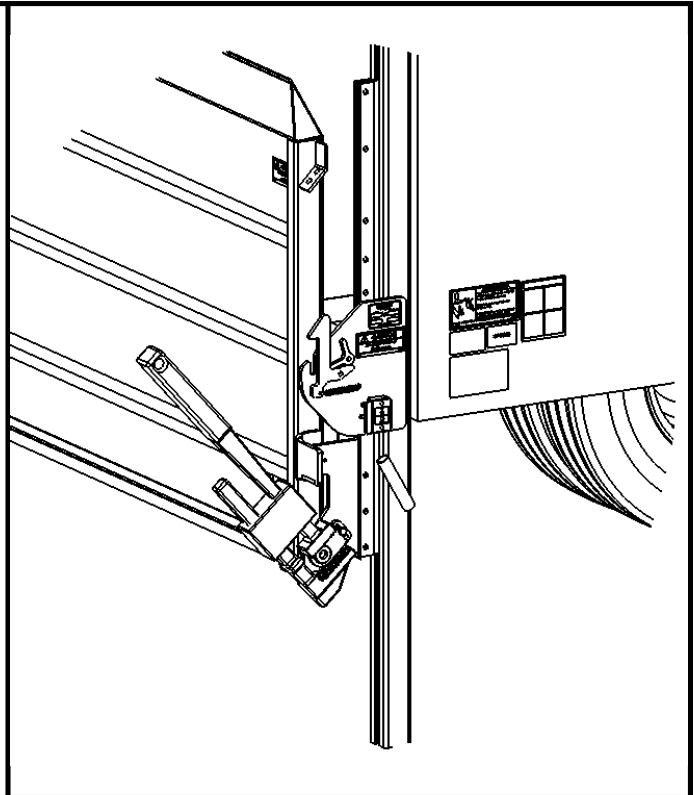
**CAUTION! HINGE PINS ARE PRE-LOADED WITH TORSION FROM TORSION BAR**

Curbside hinge pin is pre-loaded with torque and it wants to spring back counter clockwise. Rotating it **CLOCKWISE** increases the amount of spring assist provided by torsion bar.

Driverside hinge pin is pre-loaded with torque and it wants to spring back clockwise. Rotating it **COUNTER CLOCKWISE** increases the amount of spring assist provided by torsion bar.

Use a large adjustable wrench to rotate hinge pin.

Try to keep one of the torsion bars with minimal pre-loaded torque while the other can be adjusted to maximum amount of assistance.



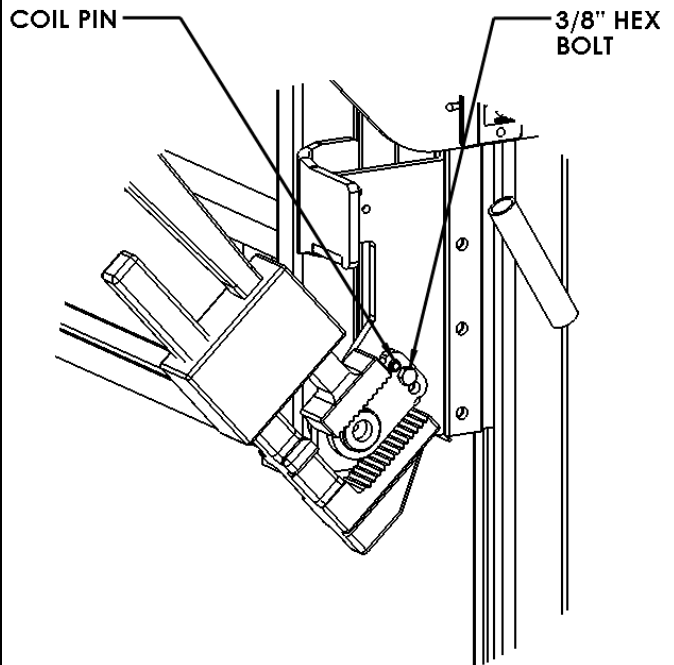
Remove the coil pin.

Keeping bolt in place, remove hex nut that is threaded on bolt.

With adjustable wrench, rotate curbside hinge **CLOCKWISE** to relieve pre-loaded spring torque, remove the bolt and rotate hinge pin to desired position and re-insert bolt in new hole.

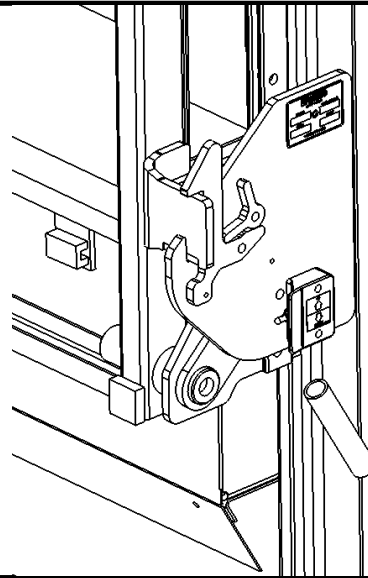
Replace hex nut finger tight and test opening and closing to check if torsion assistance is acceptable.

Once torsion is adjusted, replace coil pin and tighten hex nut.



## Chapter 4 Liftgate Installation

Switch has extra long wiring harness so that it can be unbolted and mounted anywhere that is deemed safe.

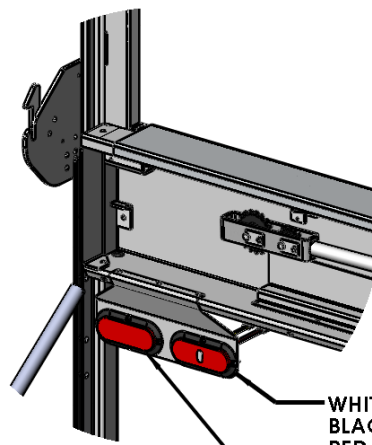


Wire colors and functions are shown to the right.

Four light kit is shown.

Two light kit has two lights with integrated reverse light.

Six light kit has four 3 wire lights and two of the lights with integrated reverse light.



WHITE - GROUND  
BLACK - TAIL  
RED - BRAKE  
YELLOW - REVERSE

WHITE - GROUND  
BLACK - TAIL  
RED - BRAKE/INDEPENDENT TURN



# Chapter 6 Lubrication Instructions

Lubricate lifting chains including sections in crossbeam box, rails & runner assemblies with machine oil or motor oil.

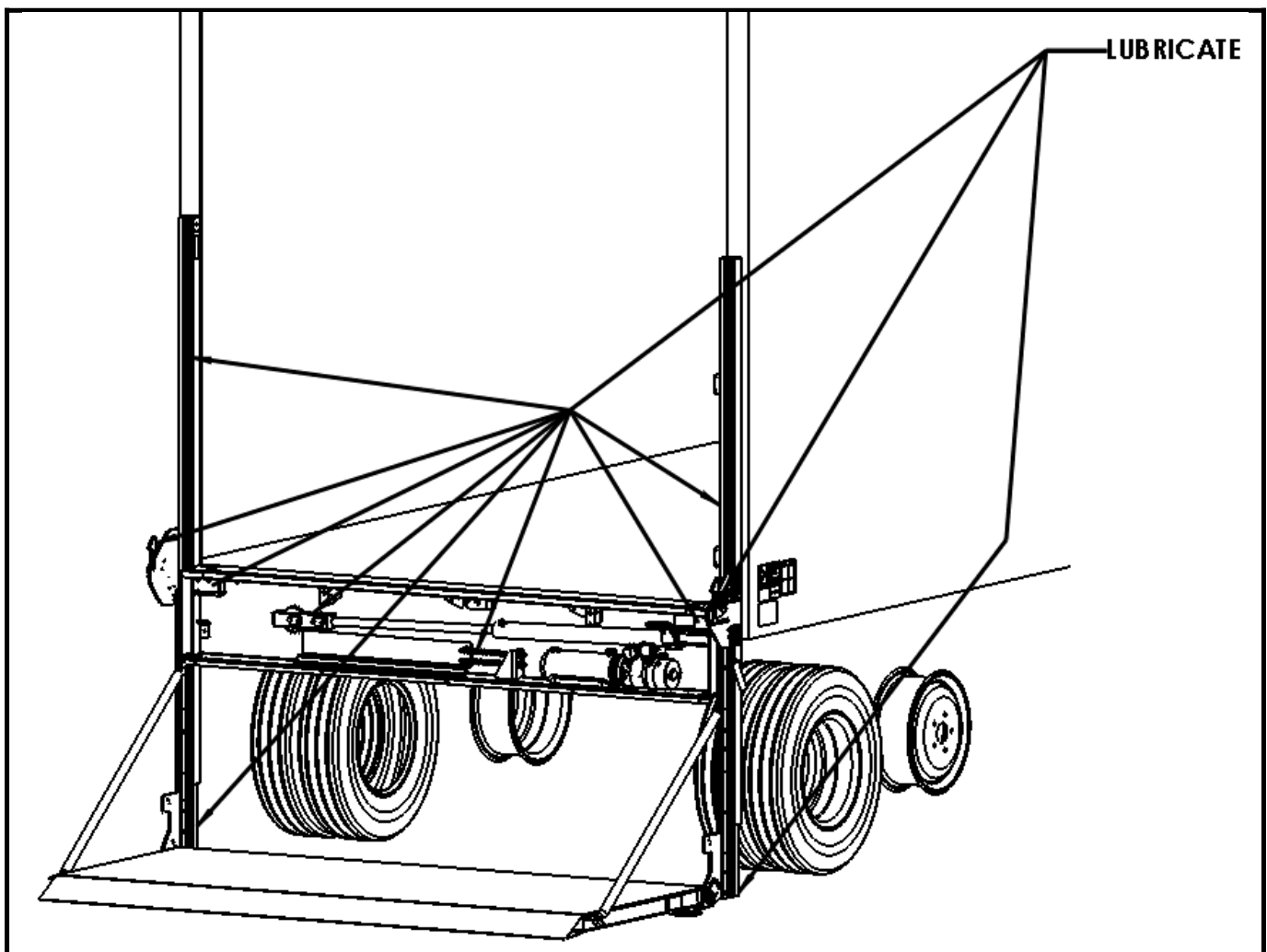
Lubricate latch, inside rails, crossbeam box and platform hinges with machine oil or motor oil.

Lubricate driver and passenger side rails.

## Suggested Minimum Lubrication Schedule (in days)

Monthly Cycles	Light Duty	Medium Duty	Heavy Duty
< 250	45	30	21
250 - 350	30	21	14
350 - 450	21	14	7
> 450	Contact Factory		

\* Lubricate every 30 days if cycles are unknown.



# Chapter 7 Final Inspection List

## IMPORTANT

**All of the following are to be checked and verified before installation is completed.**

- 1 Vehicle side walls are strong enough to support lifting forces.
- 2 Platform is level with vehicle bed and ground.
- 3 All welds are done properly.
- 4 Check Crossbeam Box for proper welds above and below rear sill if welded.
- 5 Check fasteners if Crossbeam Box is bolted to rear sill.
- 6 Rails properly trimmed, and back edge ground smooth.
- 7 All fasteners are tight.
- 8 Controls operate properly.
- 9 Cab Shut-Off switch (optional) properly installed and working.
- 10 Pump reservoir filled to proper level.
- 11 All phases of liftgate operation work properly.
- 12 Platform adjusted properly and chain-anchor lock nuts tight.
- 13 All sprockets and chains mesh properly and all fasteners properly installed.
- 14 All doors and covers properly in place and secure.
- 15 All decals are in place and legible.
- 16 Lights installed and properly operating. Reflectors re-installed if necessary.
- 17 Vehicle meets all state and federal standards.
- 18 Owner's manual in vehicle.
- 19 Liftgate has been operated through its entire cycle several times and checked for smooth and even operation throughout entire operating cycle with no unusual noise or vibration.



**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 mechanic using WALTCO Replacement parts.

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

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## THE FOLLOWING INFORMATION MUST BE INCLUDED:

- 1 SERIAL NUMBER - [WALTCO liftgate serial numbers can be found on the Specification tag attached to the mount frame. (On older units, the Specification Tag is located on the side or bottom of the platform)]
- 2 MODEL NUMBER - [Or capacity]
- 3 PLATFORM SIZE

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## THEN INCLUDE THE FOLLOWING INFORMATION:

- 4 PART NUMBERS
- 5 DESCRIPTION
- 6 QUANTITY REQUIRED

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

**Waltco lift Corp.**  
1777 Miller Parkway  
Streetsboro, OH 44241  
1-800-411-5685  
FAX: 1-800-411-5684  
E-MAIL: [parts@waltco.com](mailto:parts@waltco.com)

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

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## PLEASE NOTE:

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

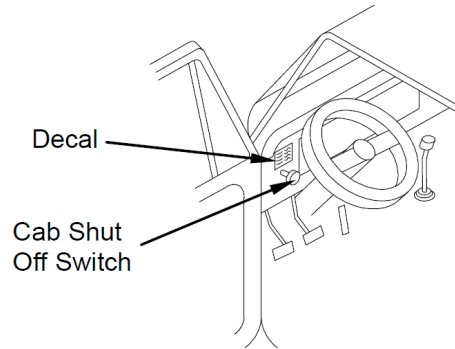
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EO10758

REV 03

# Installation of Cab Shut Off Switch

Install cab shut off switch and shut off switch decal in convenient location in vehicle cab.



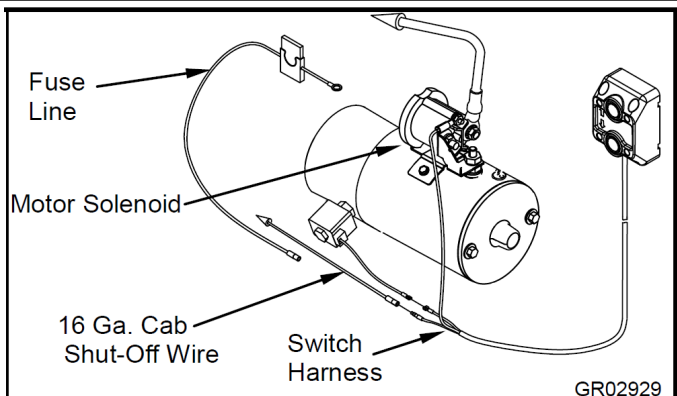
GR00379

Remove fuse line from motor solenoid.  
Unplug fuse line from switch harness and save for later installation.

Plug green 16ga. x 40 ft. cab shut-off wire into switch harness.

Note:

If motor does not have Thermal wires, plug switch wire into Adapter Blade.



GR02929

Run green 16 ga. x 40 ft. cab shut-off wire to cab shut-off switch.

Cut off excess wire and connect to cab shut-off switch with supplied #10 ring terminal.

Re-install the fuse line, plug into excess 16 ga. wire.

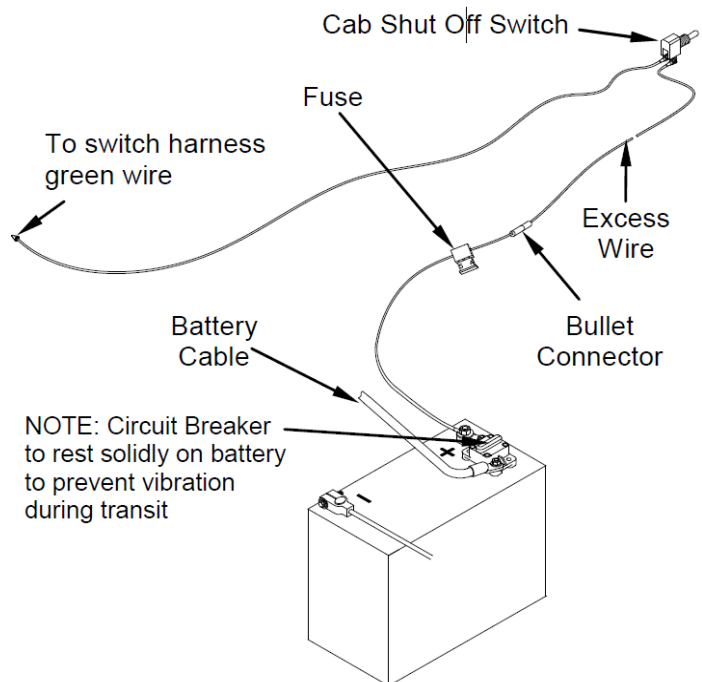
Run excess 16 ga. wire from vehicle battery to cab shut-off switch. Fuse end toward battery

**NOTE: Do not connect to battery at this time.**

Connect 16 ga. wire to cab shut-off switch with supplied #10 ring terminal.

Connect fuse line to battery with attached 3/8" ring terminal

**Important: Heat shrink all connectors.**



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Rev 06 EO7820

# Dual Control Switch and Remote Installation Instructions

## Locating and Mounting Permanent Switch

Locate a position for Switch such that operator has a clear view of entire Platform area and will not be in the area that liftgate passes through.

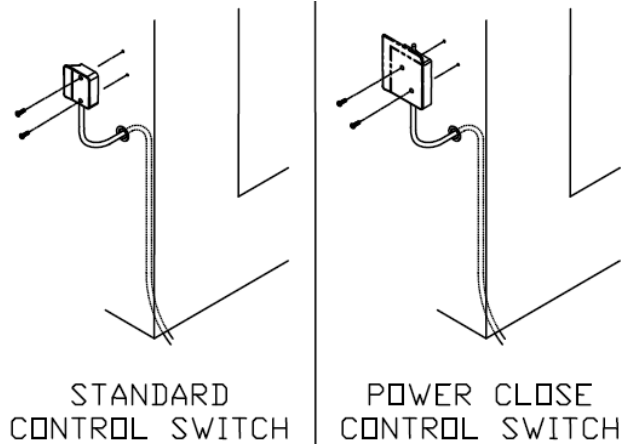
### **IMPORTANT**

**Verify that Control Cord is long enough to reach pump unit before advancing to the next step**

Using Switch as Mounting Template, drill two 7/32" diameter holes.

If Control Cord will be run through a hole in the side of truck, remove all sharp edges from center hole and insert a grommet.

Mount Switch with 1/4" Self-Tapping screws provided.



GR02812

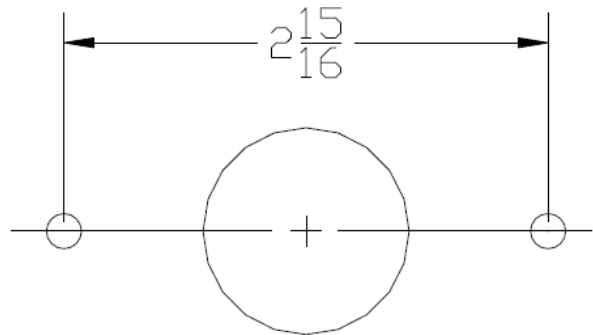
## Mounting Socket for Hand Held Switch

Locate a position for Socket such that operator has a clear view of entire Platform area and will not be in the area that liftgate passes through.

Using dimensions shown, drill mounting holes in desired location for socket.

### **IMPORTANT**

**Verify that Control Cord is long enough to reach pump unit before advancing to the next step**



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## Assemble and Install Socket

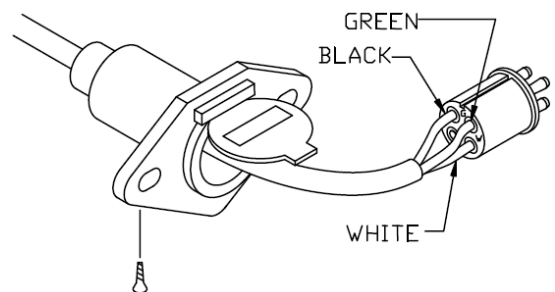
Assemble Socket as shown.

Install wires according to colors:

W = White (Raise)

B or BK = Black (Lower)

G = Green (Power)



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Rev 05 EO10700

# Dual Control Switch and Remote Installation Instructions

## Connect Wiring

Route cord from Dual Control Switch into pump enclosure.

Disconnect existing switch wires from pump.

Connect one end of Adapter Harness 10098413 (with 3 connectors to pump unit and power wire from battery).

Connect other end of adapter harness (with 6 connectors to the two switches)

For Power Close units, also install Adapter Harness 10098429 to Selector Valve on cylinder, and to Open/Close switches.

Bundle wires inside crossbeam box with small zip tie provided to insure wires do not come into contact with roller chain or other moving mechanisms.

Secure switch cord with large zip ties.

### NOTE:

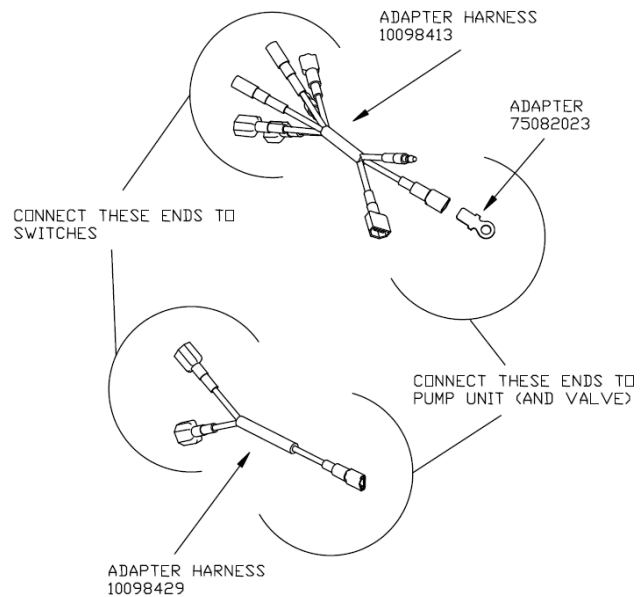
Match wire connections male to female.

Color of wire may vary.

Also refer to numbers printed on wires of adapter.

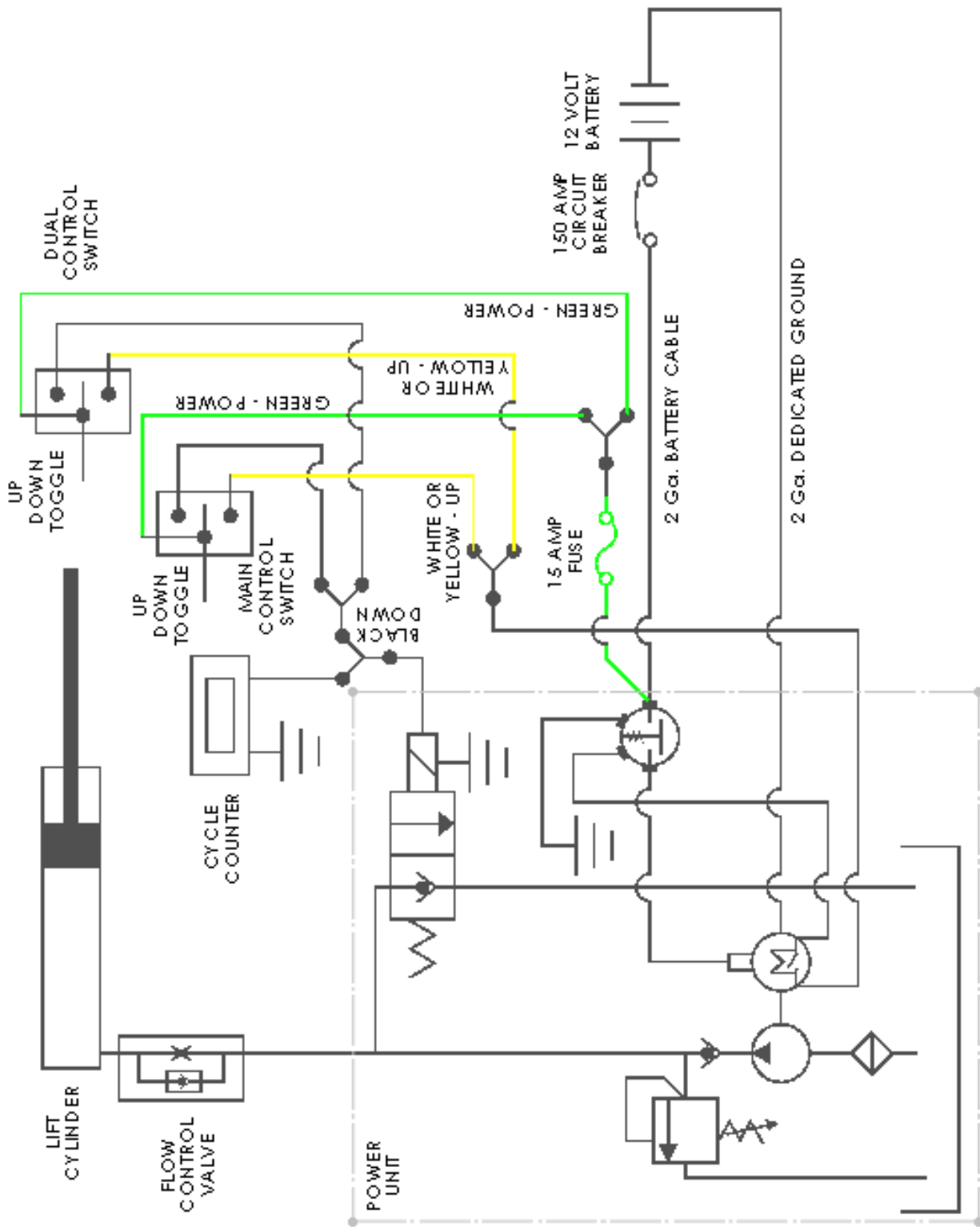


**Protect wires from any sharp edges or holes that may abrade insulated covering of wires.**

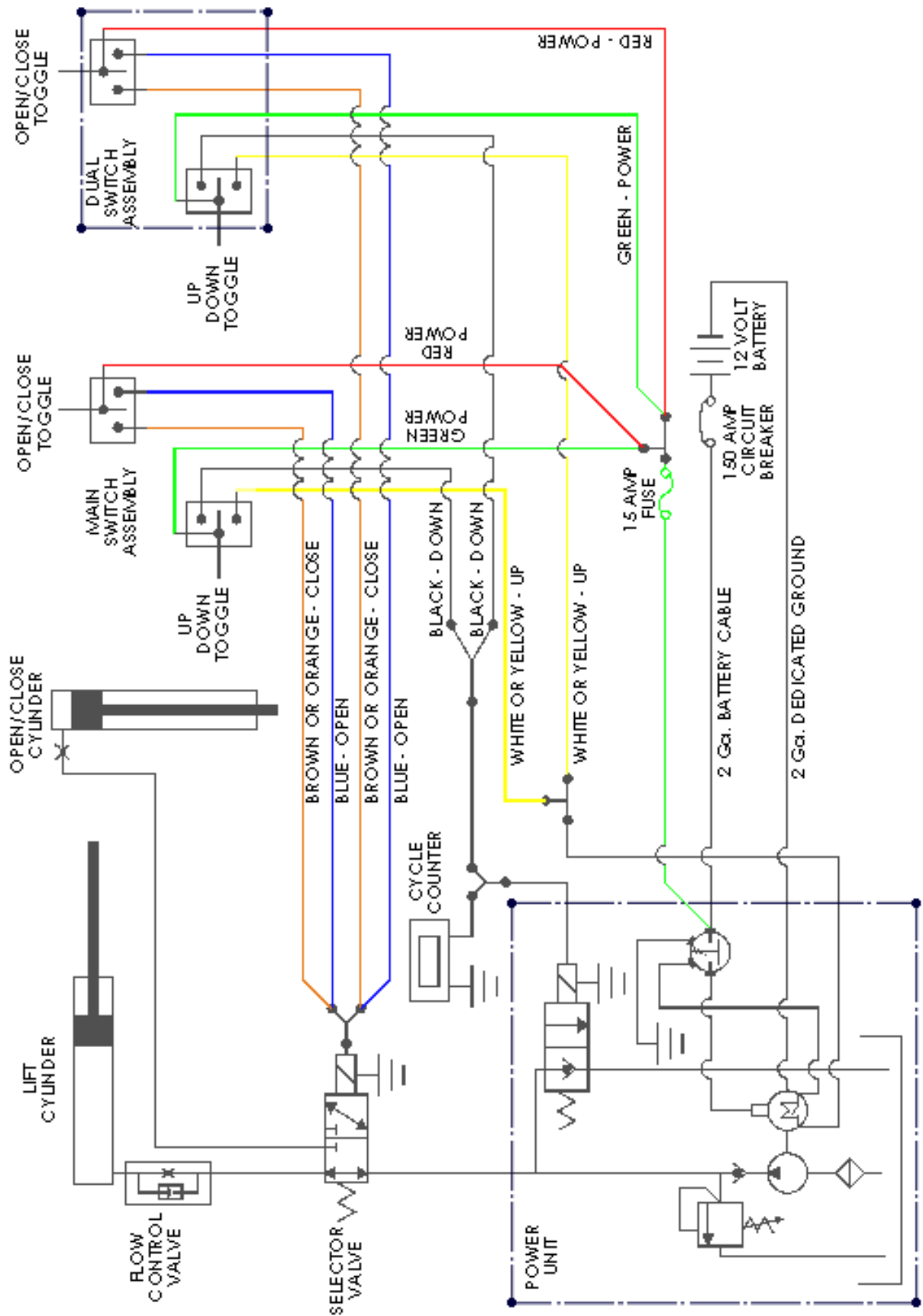


GR02931

# DUAL CONTROL ELECTRICAL / HYDRAULIC SCHEMATIC (MANUAL CLOSE)



# DUAL CONTROL ELECTRICAL / HYDRAULIC SCHEMATIC (POWER CLOSE)



! **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**