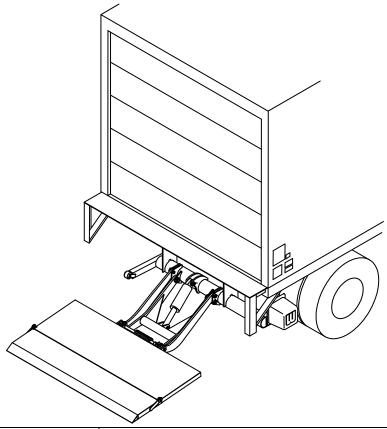


Installation Manual

C15, C20, C25

1600, 2000, 2500 lb. Capacity Flipaway Liftgates



Last Change:

Date	Pages	Description
4-2016	8, 19, 20, 22, 36, 38, 39, 41, 42	P8 – New location and shape of Spec Tag P19 – Added power down pump and cycle counter P20 – Added dedicated ground battery cable P36 – Added cycle counter P38-42 – Revised for dedicated ground cable

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Table of Contents



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 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.

80101388 Rev 03 EO 7820



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 Upstops Pins when in transit.
- Inspect Cables every three (3) months or 750 cycles, whichever comes first. Cables must be replaced if they show signs of wear, distortion, kinking or if any broken wires are visible
- Replace cables every five (5) years or 10,000 cycles, whichever comes first.



This is the safety alert symbol. This manual uses this symbol to alert you to potential personal injury hazards.

Obey all safety messages that follow this symbol to avoid personal injury or death.

SIGNAL WORDS

WARNING

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

Black letters on an orange background

CAUTION

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

Black letters on a yellow background.

NOTICE

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



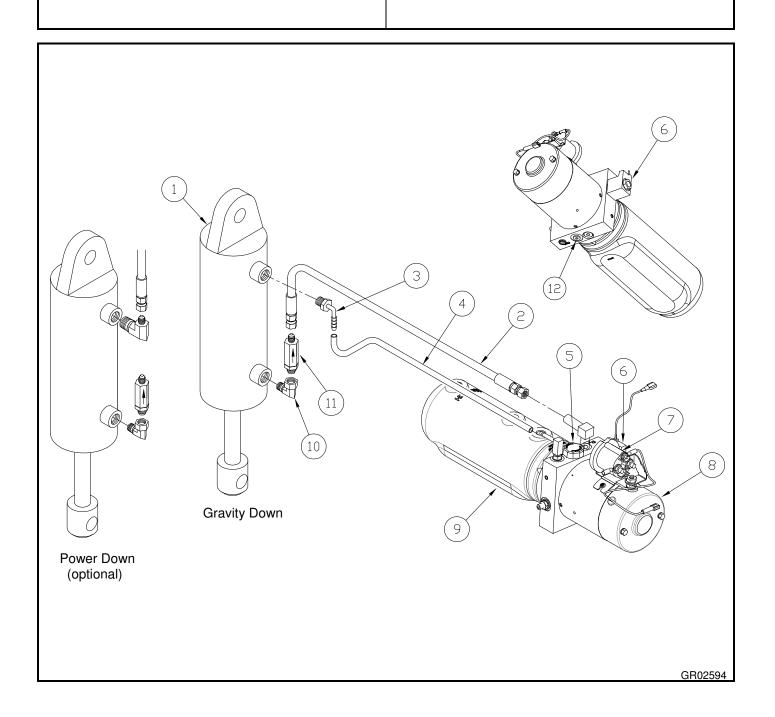


NOTICE

Chapter 2 Liftgate Terminology

- 1. Hydraulic Cylinder
- 2. Hose Assembly
- 3. Return Line Barbed Fitting
- 4. Return Line
- 5. Breather
- 6. Lowering Solenoid

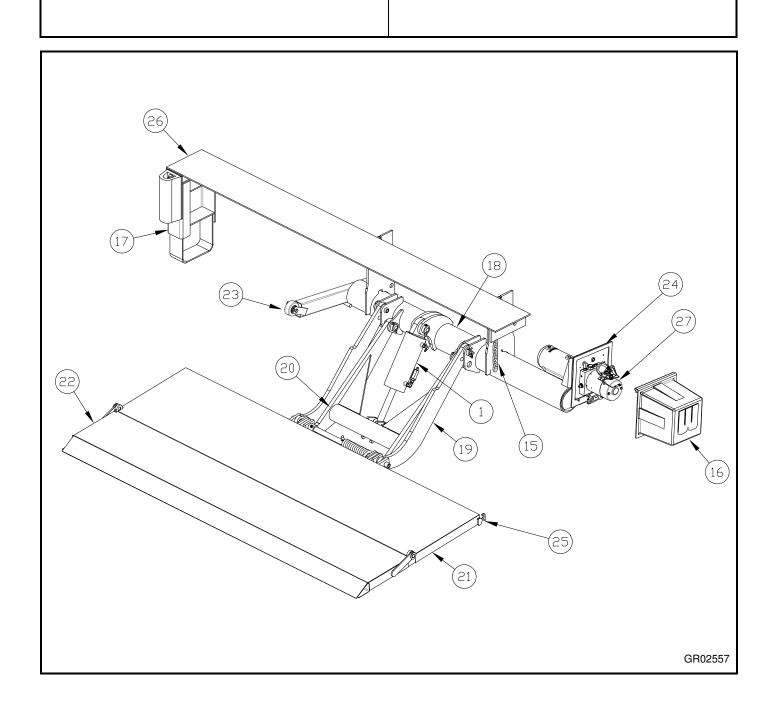
- 7. Pump Unit Starter Solenoid
- 8. Pump Unit Motor
- 9. Pump Unit Reservoir
- 10. Hose fitting
- 11. Pressure Compensative Flow Control Valve
- 12. Drain Plug



Chapter 2 Liftgate Terminology

- 15. Transit Chain
- 16. Pump Unit Cover
- 17. Dock Bumper
- 18. Mount Tube Assembly
- 19. Parallel Arm Assembly
- 20. Lift Arm Assembly

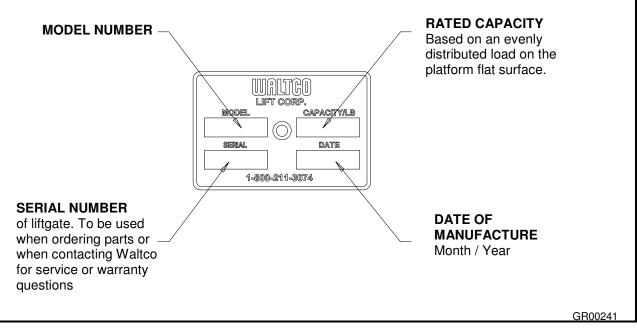
- 21. Platform Deck Assembly
- 22. Platform Extension Assembly
- 23. Parting Bar
- 24. Specification Tag (Bind Pump Plate)
- 25. Transit Chain Lug
- 26. Bed Extension
- 27. Hydraulic Pump Unit

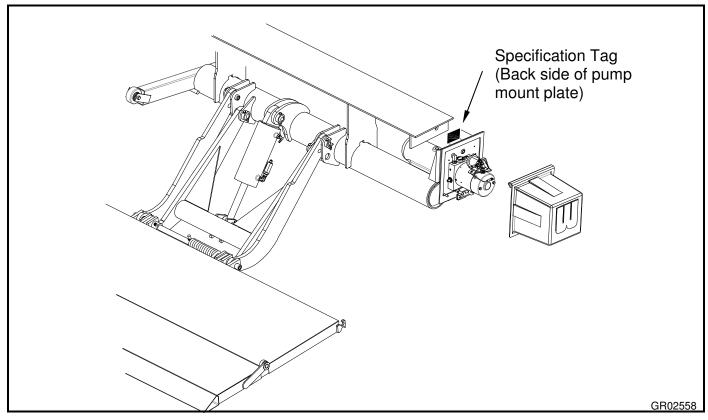


Chapter 2 Liftgate Terminology

Explanation of Specification Tag

Model	Description	Capacity
C15 SB	Standard Bed Height	1600 lbs.
C15 HB	High Bed Height	1600 lbs.
C20 SB	Standard Bed Height	2000 lbs.
C20 HB	High Bed Height	2000 lbs.
C25 HB	High Bed Height (Only)	2500 lbs.





Chapter 3 BASIC MOUNTING REQUIREMENTS

Measure distance from ground to floor level. This is the bed height.

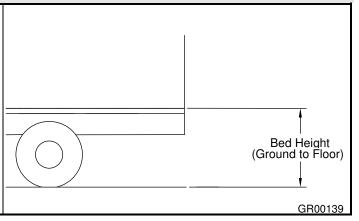
Refer to bed height dimension on mounting chart to determine basic mounting dimension "A" and minimum mount frame clearance required.

NOTE:

Max bed height dimensions for unloaded vehicle. Min bed height dimensions for fully loaded vehicle

NOTE:

Tire clearance should be 6" minimum between tire and mount frame.



These charts are for liftgates with **Steel Platforms** only

See following page for Aluminum Platforms

Sī	C-15 SB & TANDARD BED 29" a	ELS	(C	2	9") GR02529	
Bed Height	Ground Clearance	"A" Dimension	Mount Frame Clearance	Notch Height Max.	Sill Height Max.	"X" Dimension	"Y" Dimension
44"-45"	16"–17"	221/4"	28¾"	5"	7"	13"	12"
40"-43"	14"-17"	20"	31"	5"	6"	14"	10"
37"-39"	123/4"-143/4"	181⁄4"	32½"	41/2"	5"	14"	81/2"
34"-36"	10½"–12½"	17½"	33"	41/4"	5"	14"	8"

	C-15 HB & HIGH BED HEI 32" &			3	2"	GR02829	
Bed Height	Ground Clearance	"A" Dimension	Mount Frame Clearance	Notch Height Max.	Sill Height Max.	"X" Dimension	"Y" Dimension
49"-52"	18"–21"	25"	301/4"	6"	6"	16"	16"
46"-48"	17½"–19½"	22½"	33"	5"	5"	17"	13"

	C-25 HIGH BED HEI 32" &			3	2"	GR02829	
Bed Height	Ground Clearance	"A" Dimension	Mount Frame Clearance	Notch Height Max.	Sill Height Max.	"X" Dimension	"Y" Dimension
49"-52" 42"-48"	17"–21" 13½"–19½"	25" 22½"	30½"" 33"	6" 5"	6" 5"	16" 17"	16" 13"

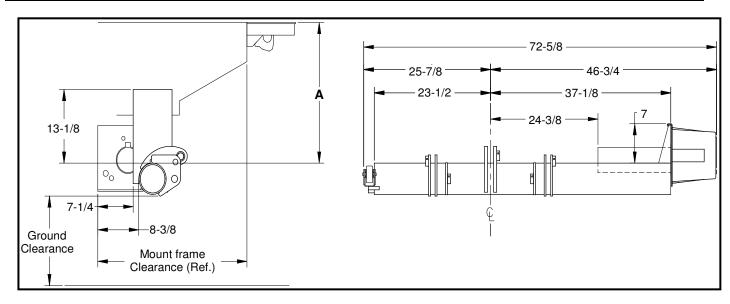
Chapter 3 BASIC MOUNTING REQUIREMENTS

These charts are for liftgates with **Aluminum Platforms** only

ST	ELS		_	9") GR02529		
Bed Height	Ground Clearance	"A" Dimension	Mount Frame Clearance	Notch Height Max.	Sill Height Max.	"X" Dimension	"Y" Dimension
44"-45"	16"–17"	221/4"	28¾"	5"	5½"	14"	12"
40"-43"	14"-17"	20"	31"	41/4"	5"	14"	9"
37"-39"	123/4"-143/4"	181⁄4"	32½"	4"	43/4"	15"	8"
34"-36"	101/2"-121/2"	171/2"	33"	33/4"	41/2"	15"	7½"

C-15 HB & C-20 HB HIGH BED HEIGHT MODELS 32" arms					3	2"	GR02829
Bed Height	Ground Clearance	"A" Dimension	Mount Frame Clearance	Notch Height Max.	Sill Height Max.	"X" Dimension	"Y" Dimension
49"-52"	171/4"-211/4"	25"	30½"	5½"	6"	13"	13"
46"-48"	17½"–19½"	22½"	33"	41/4"	5½"	14"	11"

	C-25 HIGH BED HEI 32" a			3	2"	GR02829	
Bed Height	Ground Clearance	"A" Dimension	Mount Frame Clearance	Notch Height Max.	Sill Height Max.	"X" Dimension	"Y" Dimension
49"-52"	18"–21"	25"	30"	5½"	7"	15½"	15"
42"-48"	13½"–19½"	22½"	32½"	43/4"	5½"	17"	12"



Installation

PREPARATION OF BODY SILL

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

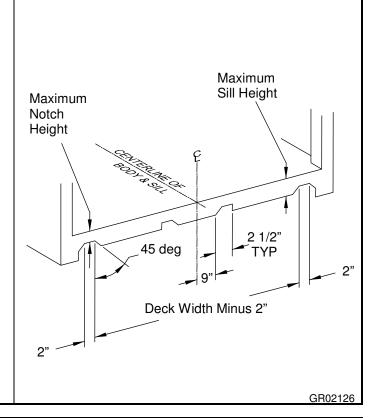
Locate and mark the center of body sill.

NOTE:

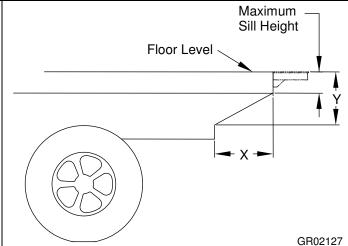
All mounting measurements for centering liftgate will come from centerline mark.

Body sill must have clearances indicated. Cut or notch Rear Sill to obtain these clearances.

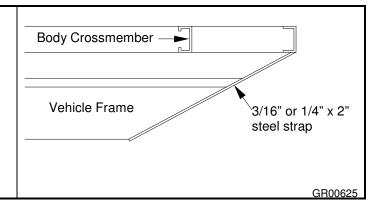
Refer to chart p. 3-1



Cut away vehicle frame as required to obtain the minimum clearance indicated.



Cap Vehicle Frame, using a 3/16" or 1/4" X 2" steel strap.



Installation

INSTALLATION OF BED EXTENSION

Place two Support Gussets on rear sill as shown.

Tack weld Gussets to sill.

NOTE:

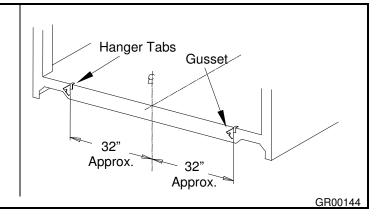
Do not weld hanger tabs to sill!

Break off Hanger Tabs

NOTE:

See next page for Bolt-On/Galvanized Bed

Extension installation



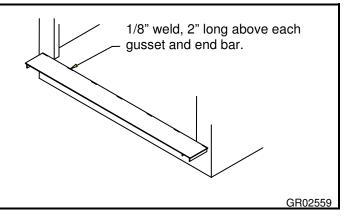
Place Bed Extension on Gussets and center Bed Extension with sill.

(Two raised round spots on surface of diamond plate indicate centerline.)

Weld Bed Extension to sill as shown.

NOTE:

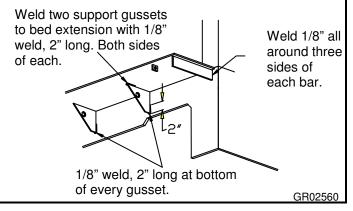
Be certain centerline of body sill and centerline of bed extension are in line.



Weld the two Support Gussets to Bed Extension and weld all gussets to sill as shown.

NOTE:

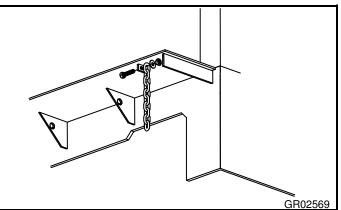
When irregular sill exists, cut or shim gussets to maintain a level attitude of bed extension with floor of body.



Bolt Transit Chain to Bed Extension with 3/8-16 x 1-1/4 Grade 8 bolt, Washer and Hex Locknut as shown.

NOTE:

See Galvanized Dock Bumper installation for Transit Chain installation on Galvanized Bed Extension.



Installation

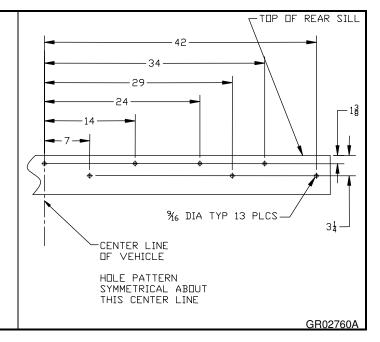
INSTALLATION OF BOLT-ON BED EXTENSION

If bed extension is to be bolted on, use pattern at right for drilling holes.

Twelve (12) 9/16" diameter holes required.

NOTE:

This requires an optional bolt-on style bed extension with mounting holes.



Position Bed Extension up to rear sill using a forklift or crane.

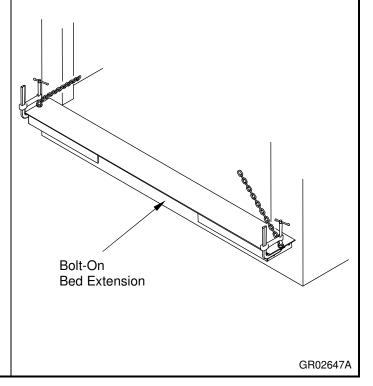


Other means may be used to support Bed Extension in position. ALWAYS verify the safety of your supporting method before proceeding.

If corner posts of vehicle body extend beyond rear sill of body, shims may be added behind bed extension to prevent extension from bowing.

Use twelve (12) 1/2" bolts, nuts, and washers provided with kit.

Torque bolts to 90 ft. lbs.



Installation

Position liftgate up under vehicle.

Using a forklift or crane, raise platform up to bed extension. Use 3/16" spacers to space platform away from bed extension.

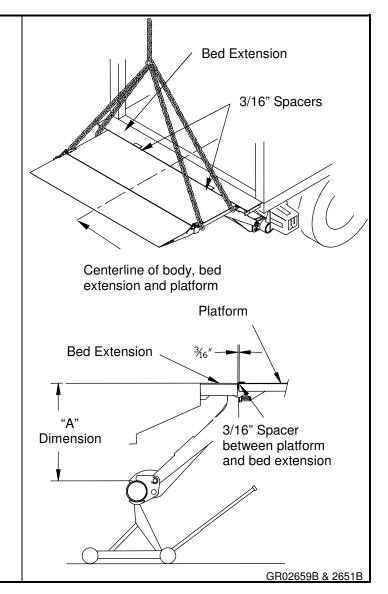
Platform to be centered on vehicle.

A jack, or come-a-long, can be used to position mount tube to proper A-Dimension.

Be sure platform is centered on vehicle body and bed extension.



Other means may be used to support Liftgate in position. ALWAYS verify the safety of your supporting method before proceeding.



Installation

For C-15 and C-20 Only

Assemble supports, using channels or tubes as supports, and rest them on 1" spacers as shown.

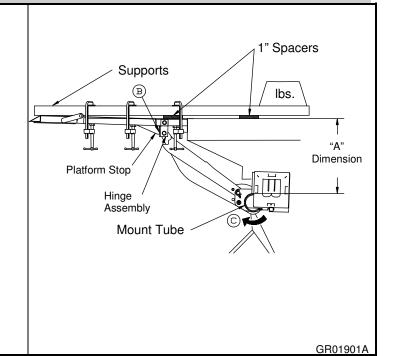
Position deck centrally to and tight against bed extension and clamp securely to supports. Raise mount tube into position to hold "A" dimension. Rotate mount tube in the direction of arrow "C" until hinge assembly and platform stops are snug at arrow "B".



Other means may be used to support Mount Frame in position. ALWAYS verify the safety of your supporting method before proceeding.

NOTE:

Pump box end cover orientation may vary from horizontal up to 3 degrees rotation in either direction. This is normal. Amount of rotation will vary with bed height and mounting dimensions.



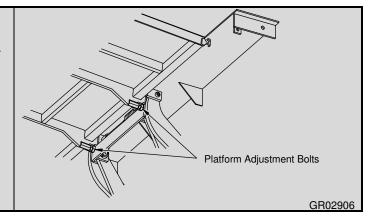
For C-25 Only

The C-25 liftgate has platform adjusting bolts as shown.

Installation is different, see below.



Never get under platform to adjust bolts..



For C-25 Only

Assemble supports, using channels or tubes as supports, do not use spacers.

Position deck centrally to and tight against bed extension as shown and clamp securely to supports.

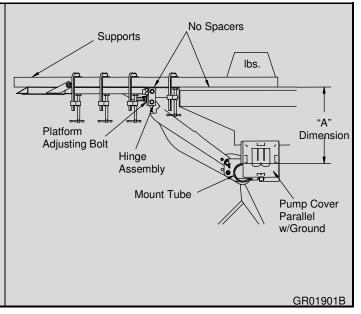
Raise mount tube into position to hold "A" dimension. Rotate mount tube so pump bracket and cover are parallel to the ground.



Other means may be used to support Mount Frame in position. ALWAYS verify the safety of your supporting method before proceeding.

NOTE:

Platform angle will be adjusted later.



Installation

MOUNT PLATE INSTALLATION

Locate mount plates on mount tube. Mount plates should be approximately 90° to vehicle frame.

Check that mount plates extend a minimum of 5-1/4" above bottom of vehicle frame. If dimension cannot be held, refer to the optional installation.

See below for additional instructions.



Shield all wires and hoses from heat and weld splatter.

Recheck "A" dimension. Weld three sides of mount plates 100% to vehicle frame with 1/4" weld.

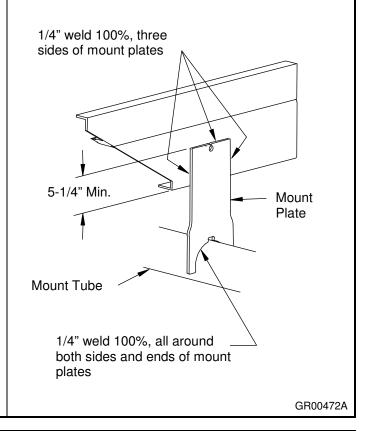
Weld mount tube to the mount plates. Weld all around, both sides of the mount plates, and ends, with 1/4" weld.



To avoid injury or property damage, do not remove clamps from deck. Use forklift crane or

clamps from deck. Use forklift, crane, or other safe

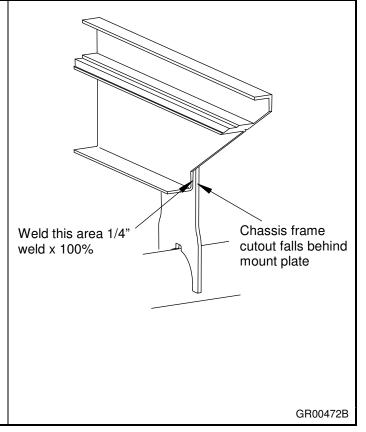
means to support deck and then remove clamps.



ADDITIONAL MOUNT PLATE INSTRUCTIONS

Note how chassis frame cutout falls in relation to mount plate.

Weld back side of mount plate also with 1/4" weld x 100%.



Installation

OPTIONAL INSTALLATION

If the 5-1/4" dimension cannot be met a 3/8" thick plate must be added.



Shield all wires and hoses from heat and weld splatter.

Recheck "A" dimension. Weld three sides of mount plates and three sides of 3/8" plate 100% with 1/4" weld.

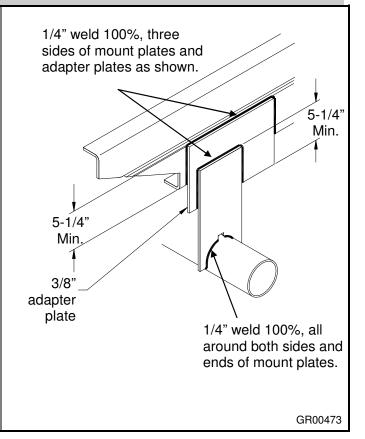
Weld mount tube to mount plates. Weld all around, both sides of mount plates, and ends, with 1/4" weld.



To avoid injury or property damage, do not remove

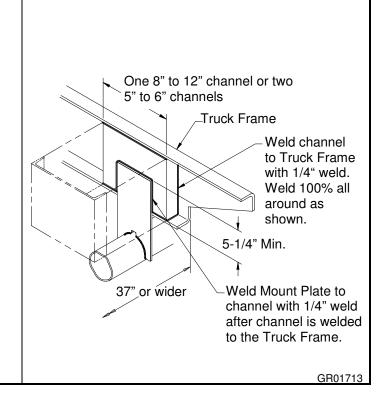
clamps from deck. Use forklift, crane, or other safe

means to support deck and then remove clamps.



NOTE:

If necessary, liftgate may be mounted to inside of frame as shown.



Installation

BOLT-ON MOUNT PLATE ATTACHMENT

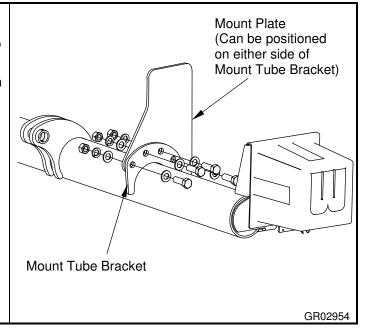
For galvanized option, mount plates must be bolted onto mount tube prior to installation.

Use eight (8) 3/4" bolts, nuts, and washers provided with kit.

Torque bolts to 300 ft. lbs.

NOTE:

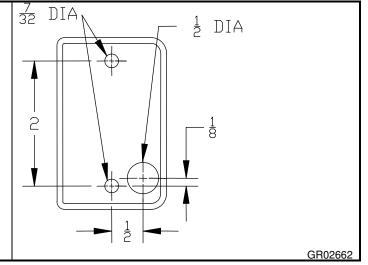
Mount plate has 6 holes, only 4 are used on each side of C-Series liftgates.



INSTALLATION OF CONTROLS

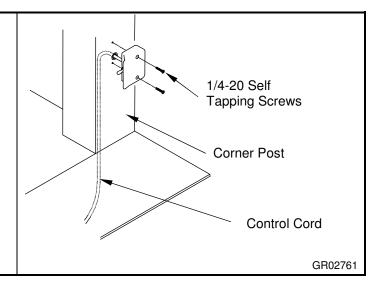
Locate switch such that, when operating liftgate, operator will have clear view of entire platform area and will not be in area that liftgate will pass through.

Install Switch Mounting Template Decal (or use this diagram). Locate screw holes. Drill two (2) 7/32" holes for screws and 1/2" hole for cord.



If Control Cord will be run through a hole of body, remove all sharp edges from hole.

Use 1/4" Self-tapping Screws to secure switch.



Installation

Route Control Cord from Switch, and Battery Cables through Pump Plate.

Install grommets (supplied) as shown on Control Cord and Battery Cables. Secure cables to vehicle with cable ties provided.

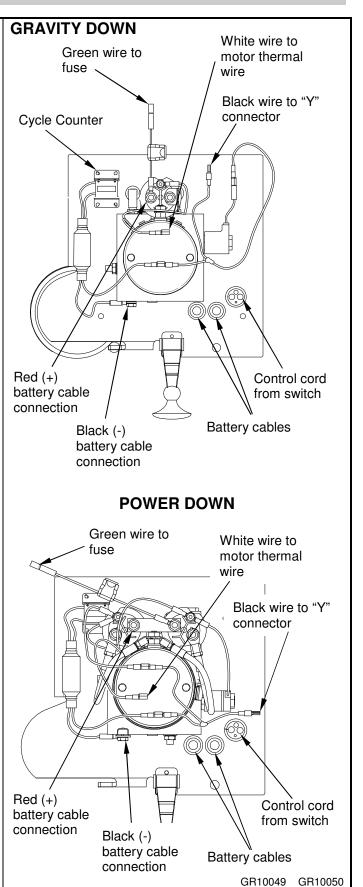
Connect Control Cord and Battery Cables to pump as shown. Connectors are gendered to help assure correct connections.

Add generous amount of dielectric grease to all electrical terminals and connections.

Also refer to electrical schematics on following pages.

NOTE:

Do not connect battery cables to battery at this time.



Installation

INSTALLATION OF POWER CABLES

Locate and mount 150 Amp 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 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 24", maximum length, 2 Ga. battery cable may be used.

Connect end of red (+) battery cable from liftgate to circuit breaker as shown.

Connect black (-) battery cable from liftgate to negative post of batteries as shown.

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.

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.



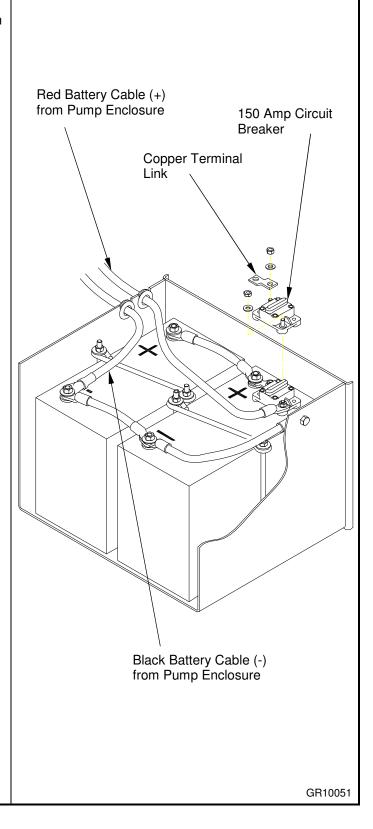
Protect wires from any sharp edges or holes that may abrade insulated covering of wires.



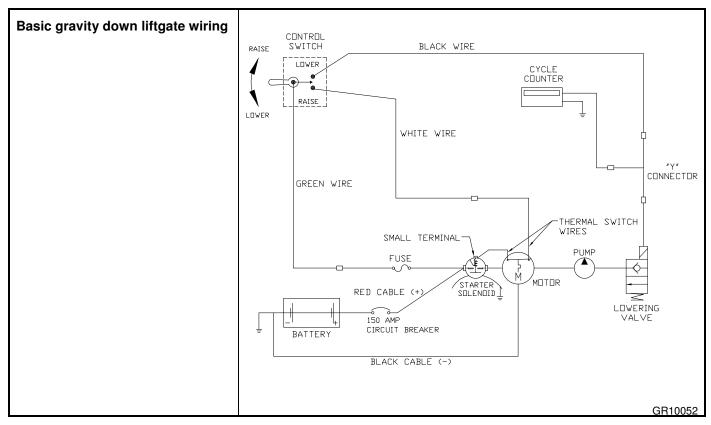
Secure battery cable so it does not come near, or in contact with, other vehicle wiring, fuel lines, brake lines, air hoses, exhaust system, etc.

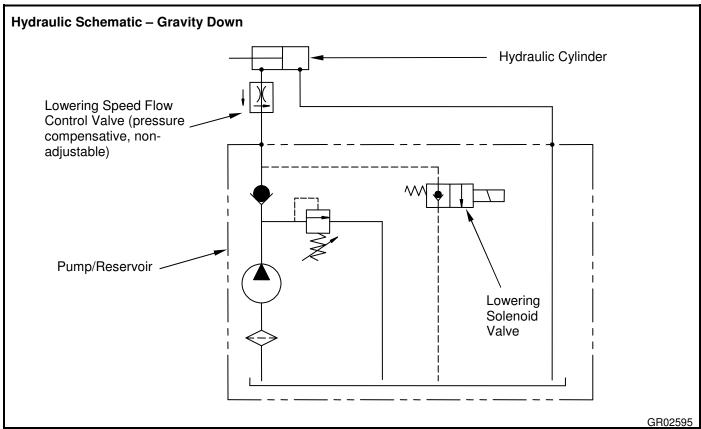
IMPORTANT:

DO NOT operate liftgate until Mounting Bar has been removed.

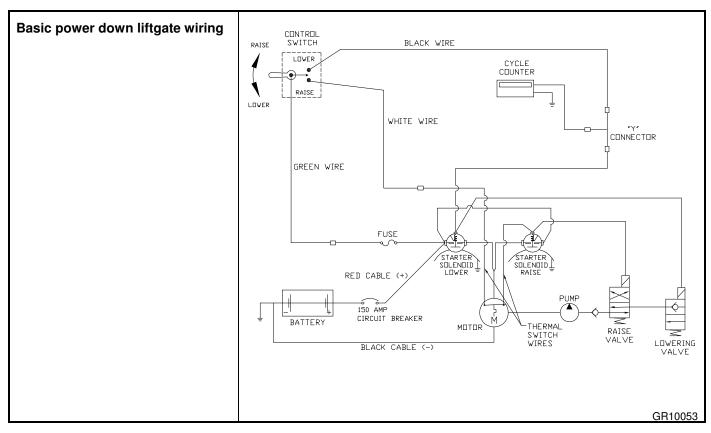


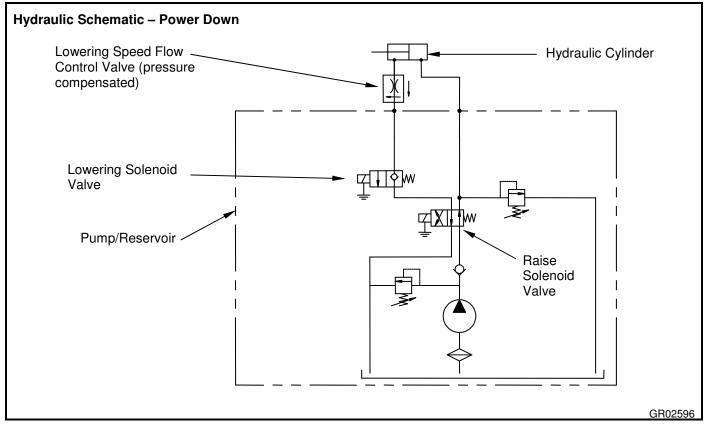
Installation





Installation



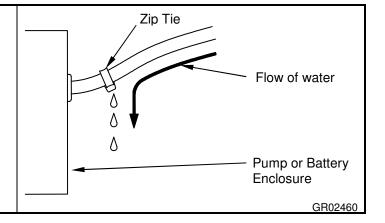


Installation

DIVERT WATER FROM ENCLOSURE

To help prevent channeling water into pump or battery enclosures:

- Secure hoses, cables and cords downward as they exit the enclosure.
- If a downward exit is impractical, a Zip Tie can be installed around hose or cable to help interrupt the flow of water as shown.



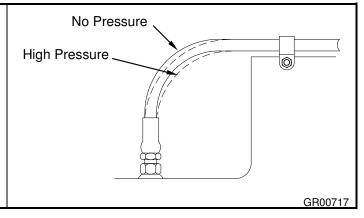
HOSE INSTALLATION

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.



FILLING HYDRAULIC RESERVOIR

Position liftgate deck per chart below (use forklift, crane, or other safe device).

Remove Reservoir Plug.

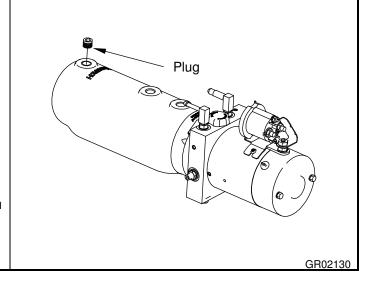
Oil level should be 1/2" from top of reservoir.

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

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

Note;

If any hydraulic components were removed and replaced, or disconnected during installation, or you suspect there is air in the system, the system should be bled per the instructions on following pages.



Installation

LIFTGATE POSITION FOR OIL LEVEL CHECK						
	Gravity Down Pump:	Power Down Pump:				
Deck should be in this position:	Ground Level	Bed Level				

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

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

Fill reservoir

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

NOTE:

Do not use the following fluids:
Brake Fluid
Power steering fluid
Automatic Transmission Fluid (ATF)

Rev 06

There is no speed adjustment on this liftgate.

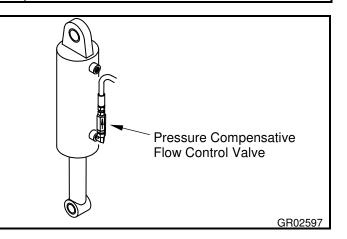
Lowering speed is controlled by the pressure compensative valve plumbed at the cylinder.

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

<u>Bed Height (inches)</u> = Lowering Time (seconds)



This liftgate must have the correct pressure compensative valve installed: 7010001-12



Installation

BLEEDING HYDRAULIC SYSTEM

GRAVITY and POWER DOWN LIFTGATES

Note: Fluid level in reservoir will need to be checked before and after bleeding system.

Check fluid level, to be 1/2" from top of reservoir with platform at ground for gravity down units, platform at bed height for power down units.

Lower platform to ground, place a bucket or pan under the raise line and cylinder to catch hydraulic fluid.

Disconnect raise line at the flow control valve.

With someone holding the raise line in the bucket/pan, press the raise switch and activate the pump. Do this until a steady, air free, stream of fluid flows from the hose.

Reconnect hose to cylinder. Again, check fluid level of reservoir and fill as may be required.

POWER DOWN LIFTGATES ONLY

On power down liftgates the upper hose (lowering) will also have to be bled of air.

Again, check fluid level with platform at bed level.

Lower platform to ground.

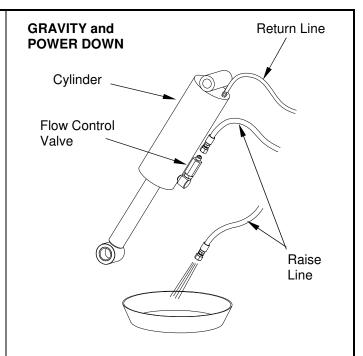
Disconnect upper lowering line.

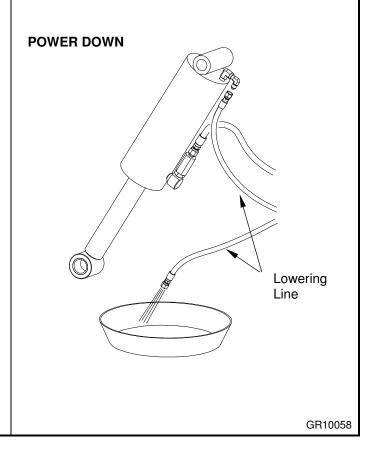


CAUTION as hydraulic line may be pressurized

With someone holding the lowering line in the bucket/pan, press the lower switch and activate the pump. Do this until a steady, air free, stream of fluid flows from the hose.

Reconnect hose to cylinder. Again, check fluid level and fill as may be required.





Installation

For C-25 Only

ADJUST PLATFORM ANGLE

Lower platform until stop blocks hit ground.

Tip of platform should touch ground without platform breaking (starting to fold) as shown in top drawing.

If platform tip is off the ground, adjust platform down until it reaches ground.

If platform tip reaches ground before stop blocks, and platform starts to fold, adjust platform up.

Be sure both adjusting bolts are adjusted the same.



Never get under platform to adjust bolts.



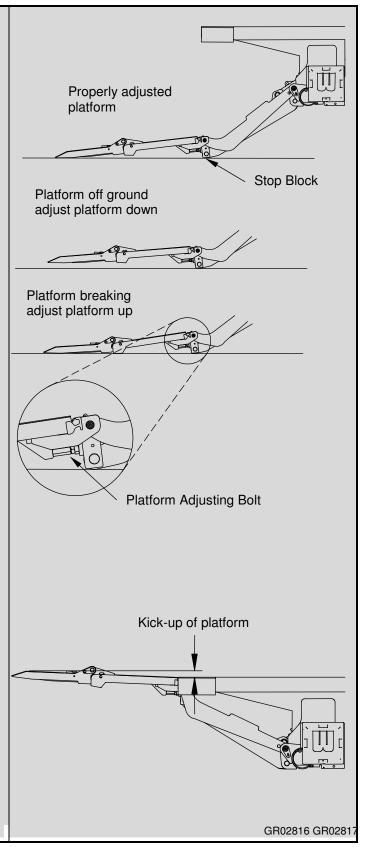
Always secure jam nuts after any adjustment is made.

Raise platform back to bed level to check kick-up of platform.

Initial kick-up will range from 1" on low bed heights up to 4-3/4" on higher bed heights.

If kick-up is too little, or too great for specific application, adjust angle of platform as required.

For additional assistance contact Waltco Tech Support.



Chapter 4 Installation

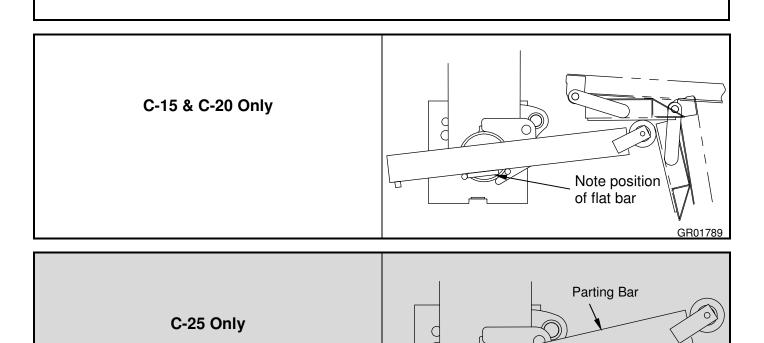
INSTALLATION OF PARTING BAR (Non-Galvanized)

To assist the opening of the platform:

Locate and position the parting bar using the diagrams below for reference. Verify parting bar positions platform properly at ground.

Non-Galvanized

- Locate and tack weld in position.
- Check opening and closing operation.
- Weld parting bar to mount tube 100% at all point of contact with 1/4" weld.



Note position of flat bar

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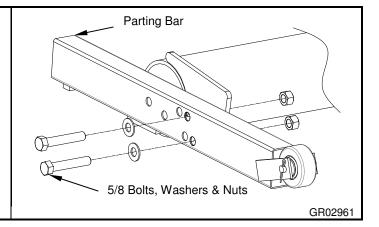
Installation

INSTALLATION OF PARTING BAR (Galvanized)

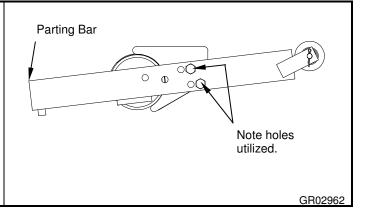
To assist the opening of the platform:

Locate and position the parting bar using the diagrams below for reference. Verify parting bar positions platform properly at ground.

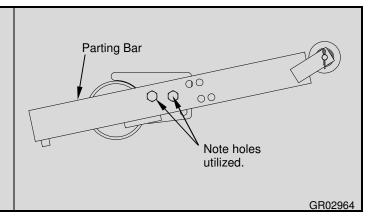
- Locate and bolt in place.
- · Check opening and closing operation.



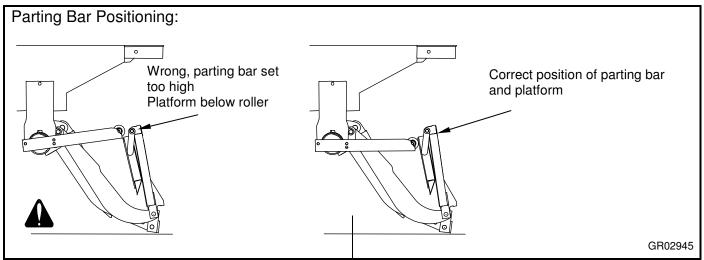
C-15 & C-20 Only

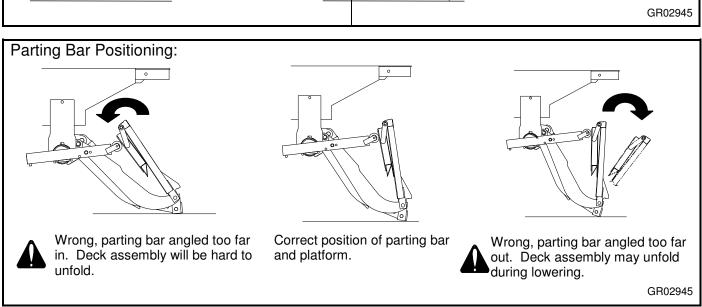


C-25 Only



Installation



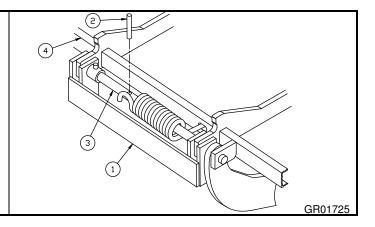


Installation

ACTIVATION OF FOLD OVER ASSIST SPRING

With hinge (1) half way to ground and platform (4) resting on parting bar, drive coiled pin (2) down flush with top of hinge pin (3).

Check to ensure that torsion spring contacts coiled pin (2) when platform is rotated to vertical position.



INSTALLATION OF UPSTOPS

Purpose of up-stops is to prevent excessive bowing of bed extension when platform is powered up against extension.

Stored position up-stop

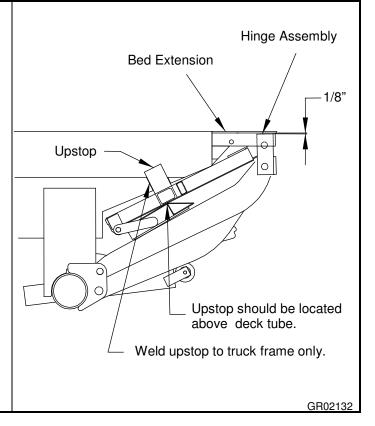
Fold platform to stored position and using Raise Switch, raise platform so stop block is approximately 1/8" from bed extension as shown.

Position up-stop along outside of truck frame as shown. Only one up-stop is required.

NOTE:

Use up-stop supplied in parts box or use a piece of channel, angle, or bar stock. Up-stop should be approximately 3" wide

Tack weld up-stop in place. Check to make sure Up-stop does not interfere with opening or folding of platform before finish welding.

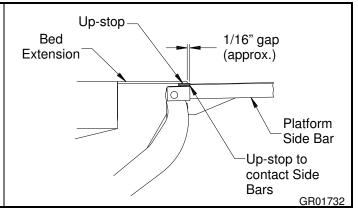


Open position up-stop

NOTE:

This up-stop is optional and only required if bed extension bows when platform is powered up against it while in the open (loading) position.

With platform in the open position and using Raise Switch, raise platform to within 1/16" of bed extension as shown below.

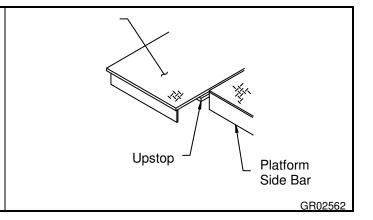


Installation

NOTE:

Up-stops can be made from any 3/8" or ½" bar stock

Locate and weld up-stops to underside of bed extension. Up-stops are to contact the platform side bars on each side of platform.



INSTALLATION OF DOCK BUMPERS

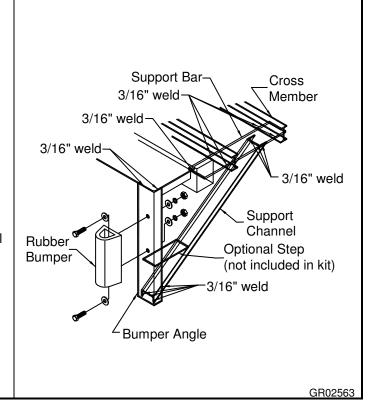
Grind corners of bed extension as required for proper fit of dock bumper angles.

Locate and weld dock bumper angles against outer edge of bed extension and snug up against underside of bed extension, 3/16" weld 100% as shown below.

Position support bar as shown holding bar tight against sill. Weld 3/16" welds as shown to cross members and sill.

Position support channel as shown holding channel tight against bumper angle and support bar. Weld 3/16" welds as shown.

Install optional rubber bumper if ordered. Install optional step if desired by welding a 3/8" x 3" x 9-1/2"lg. bar between support channel and bumper angle as shown.



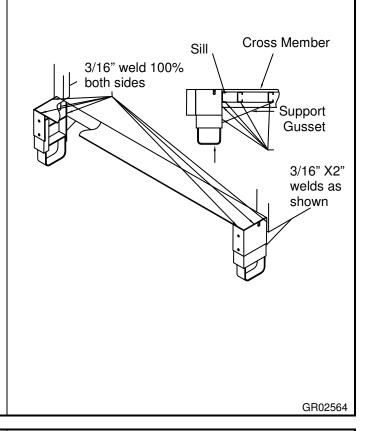
Installation

OPTIONAL SUPER DUTY DOCK BUMPER INSTALLATION.

Position bumper assemblies as shown. Top of bumper assemblies to be flush with top of bed extensions.

Weld into place with 3/16" weld as shown.

Weld support gussets to bumper assembly and to cross members as shown below.

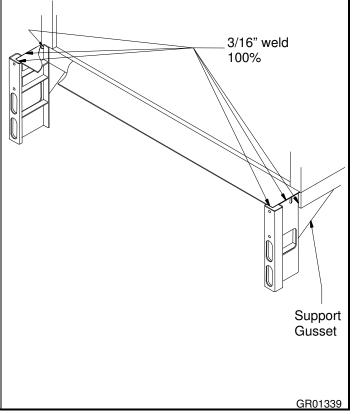


OPTIONAL DOCK BUMPER AND TAILLIGHT INSTALLATION

Position bumper assemblies as shown.

Weld into place with 3/16" fillet weld as shown.

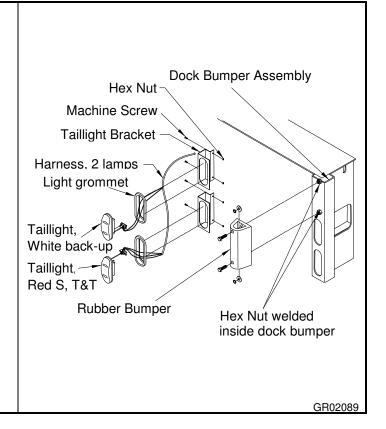
Weld support gussets to bumper assembly and to cross members as shown.



Installation

LIGHT INSTALLATION

Install lights and rubber bumpers (if ordered) using parts and fasteners provided.

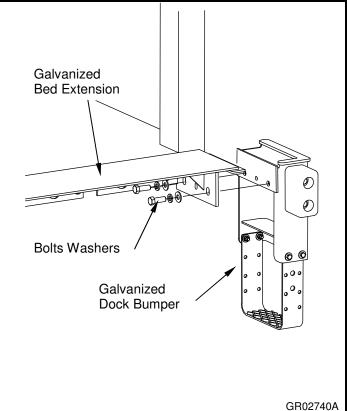


INSTALL GALVANIZED DOCK BUMPERS

Slip dock bumpers on to bed extension.

Bolt bumpers to bed extension using four 5/8" bolts, washers and lock washers.

Torque bolts to 167-179 ft. lbs.

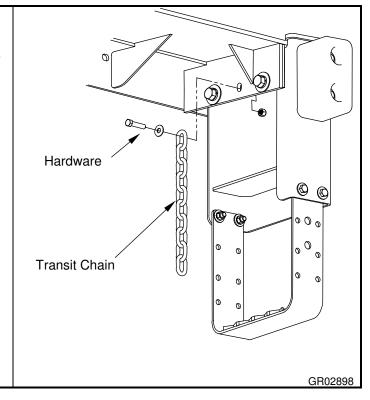


Installation

TRANSIT CHAIN INSTALLATION FOR GALVANIZED DOCK BUMPERS

Bolt Transit Chain to Bed Extension with 3/8-16 x 1-3/4" Gr 8 bolt, Washer and Locknut as shown.

Note: If Dock Bumpers are included, they must be installed prior to installing Transit Chain.



Waltco offers three suggestions for the installation of the vehicle taillights. We believe these suggested locations meet D.O.T. regulations but do not warrant that they do. Your installation of the vehicle taillights should meet all applicable regulations and requirements. This is in no way to infer that these suggestions are the only correct method of installing taillights.

Location "A": Mount lights beneath the bed extension skin, if there is sufficient room.

Location "B": Mount lights above bed extension or into the body rear corner posts.

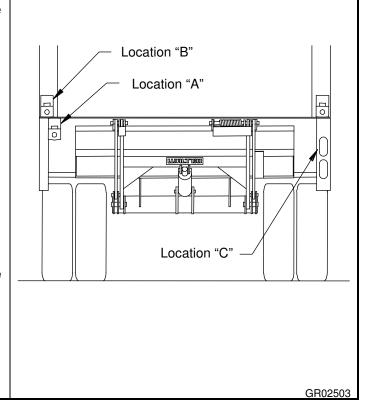
Location "C": Waltco has dock bumpers available that have lights included as part of the dock bumper.

NOTE:

Original equipment lights may not provide sufficient clearance at this location so a narrower light may be required.

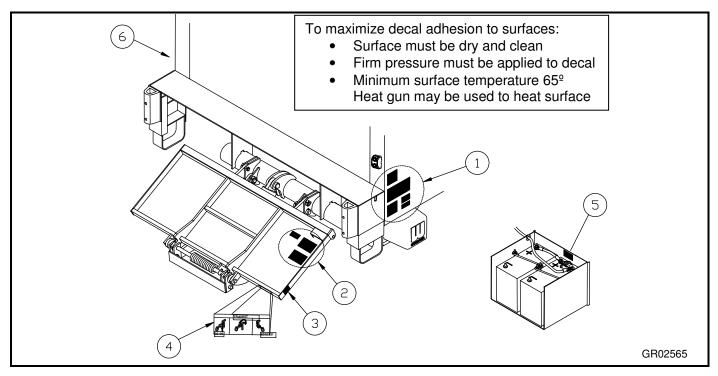


All lights must be installed in accordance with all applicable D.O.T. regulations.



Chapter 5 Placement of Decals

	All decals must be in place and legible or all warranties are void.								
ITEM	DECAL	QTY	PART NO.	LOCATION					
	Safety Instructions	1	80100850	Locate in a conspicuous place near controls.					
	Operation	1	80101528	If your liftgate is equipped with dual					
1	Hazard Decal	1	80101370	controls, an additional Safety Instruction					
'	Important Decal	1	80100828	decal (80100850) is to be placed in a conspicuous place near the second set of					
	Stand Clear Decal	1	75089296	controls.					
				Refer to the following diagram showing decal locations.					
	Use Handle Decal	1	75089295						
	Stand Clear Decal	1	75089296	Locate near platform handle					
2	C15 – 1600 lb		80100252	(positioned so as to be read when platform					
	C20 – 2000 lb	1	80100253	is being unfolded into loading position)					
	C25 – 2500 lb		80100255						
	C15 – 1600 lb		80100252	Locate on side of deck					
3	C20 – 2000 lb	1	80100253	(Same side as controls, position as to be read with platform					
	C25 – 2500 lb		80100255	open)					
4	Store Tight Decal	1	80101517	Locate on back of deck on curb side (Visible when platform is stored)					
5	Circuit Breaker Decal	1	80100829	Locate next to liftgate circuit breaker. In applications where more than one circuit breaker is used, this decal must be placed in both locations					
6	Stand Clear Decal	1	75089296	Locate on driver's side of vehicle body near liftgate					

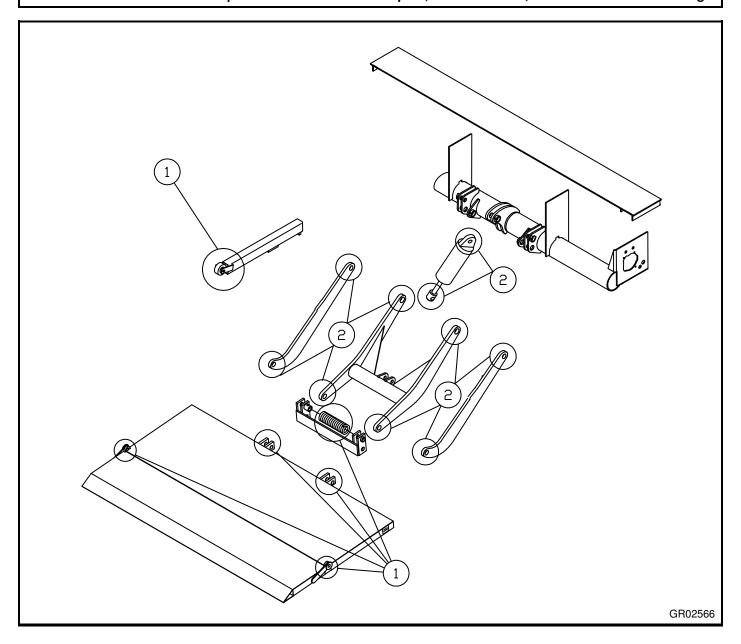


Chapter 6 Lubrication Instructions

The liftgate should be lubricated every 120 days.

There are no grease fittings provided on the liftgate.

- #1 Oil with a light weight machine oil (do not use oil on bearings in arms or cylinder).
- #2 These are bearings that do not require grease, however, bearing can be sprayed with a non-petroleum based lubricant such as Zep-45 to retard corrosion of pins, reduce friction, and increase life of bearings



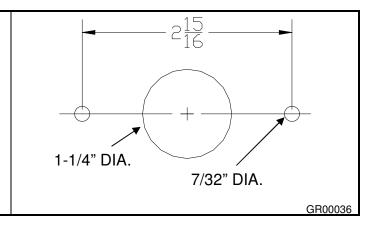
Ch 7. FINAL INSPECTION SHEET

IMPORTANT:				
All of the following are to be checked and verified before installation is complete.			S.	Are all decals properly in place and legible according to the decal placement drawings?
A.	Is grade 8 bolt installed through collar and lower cylinder pin and retained with self-locking nut?		T. U.	Is pump cover installed and securely latched? Is the owner's manual in the vehicle?
□ в.	Are all roll pins securely in place?		٧.	Does cycle counter add a cycle each time
☐ c.	Are all fasteners tight?		٧.	lower switch is activated and held on for 4 seconds or longer?
□ D.	Does liftgate fold and unfold properly?			ő
E.	Does the platform meet the bed extension properly?			
F.	Does transit chain properly hook onto transit chain lug?			
☐ G.	Do controls operate properly?			
□ н.	Are bed extension, mount frame, mount plates, up-stops, dock bumpers, bumper braces, taillight guards and taillights all finish welded?			
I.	Are hydraulic hoses and fittings properly connected with no leaks?			
☐ J.	Verified correct pressure compensative valve is installed?			
	Are battery cables attached and clamped tight?			
L.	Is 150 amp circuit breaker installed at battery?			
Ш М.	Are all electrical connections coated with dielectric grease?			
■ N.	Has hydraulic system been properly bled of all air?			
□ o.	Is pump reservoir full of oil?			
P.	Are all parts properly lubricated according to the lubrication instructions?			
□ Q .	Do lights operate properly (Note: Lights must be installed in accordance with all applicable state and federal D.O.T. regulations)	A	ch	not use liftgate if any of the above are not ecked and verified. If you have any question
∐ R.	Is license plate properly installed?		Wa	t covered in this manual, contact your neard altco distributor, or the nearest Waltco story.

Hand Held Remote Installation

DRILL SOCKET HOLES

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



INSTALL SOCKET

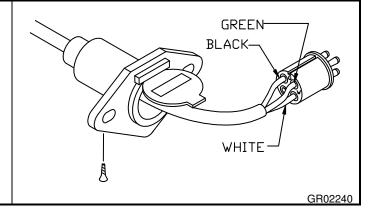
Assemble socket as shown.

Install wires according to colors:

W = White (Raise)

B or BK = Black (Lower)

G = Green (Power)



CONNECT WIRES TO PUMP UNIT

Route Control Cord into pump enclosure.

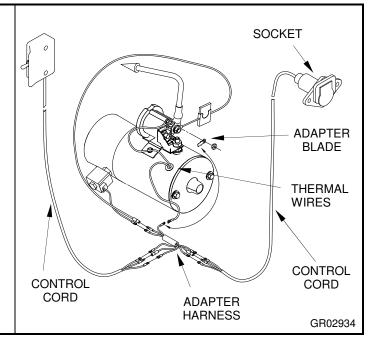
First connect Pump wires to Dual Control Adapter Harness as shown.

Connect both Control Cords to other ends of Adapter Harness as shown.

Note!

Match wire connections male to female. Color of wire may vary.

If motor does not have Thermal Wires, plug Adapter Harness into Adapter Blade.

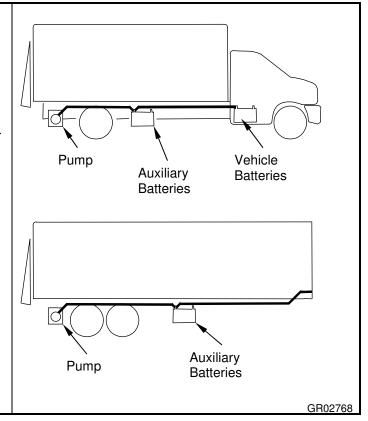


DETERMINE BATTERY LOCATION AND CABLE ROUTING

Determine where auxiliary battery box will be mounted on the vehicle.

For trucks your installation will use cables supplied with liftgate.

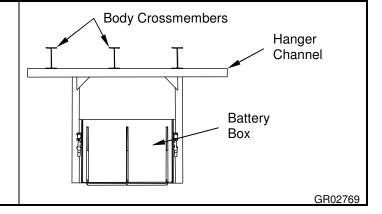
For trailers additional cables are supplied with the trailer kit



Locate battery box in a suitable location under the vehicle body.

Weld hanger channel to body crossmembers.

Install batteries into box.



Install #1 ga. power and ground cables to liftgate pump unit per liftgate instructions.

Route cables along chassis frame towards auxiliary battery box, securing them every 24" with cable ties provided.

Do not connect any cables to batteries at this time.



Be certain cables are protected with grommets when passing through metal holes or over sharp edges. Cut cables to required length.

Use remaining length of cables to connect from auxiliary batteries to vehicle batteries (for truck applications only, trailers will use additional 0 ga. cables).

Install terminal lugs on ends of cables as shown below.

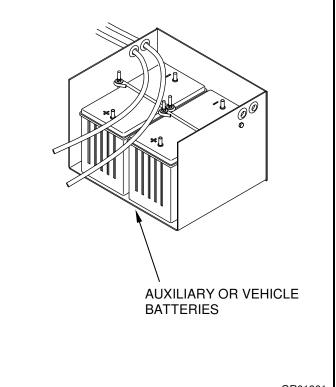


Protect wires from any sharp edges or holes that may abrade insulated covering of wires.



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.

Install cable lugs as shown below.



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INSTALLATION OF TERMINAL LUG

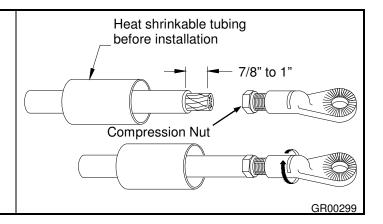
Strip 7/8" to 1" of insulation from end of cable.

Slide heat shrinkable tubing onto cable.

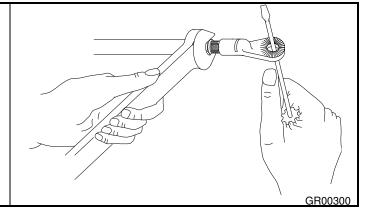
Insert bare wire into compression nut until it seats.

IMPORTANT: Be sure to use correct compression nut, use 1&2 gauge nut for 1 gauge cable, use 0 gauge nut for 0 gauge

Note: Copper wire should be flush with, or slightly past



Grip nut with wrench and turn terminal until nut seats



Auxiliary Battery Kit w/Dual Cables

80101569

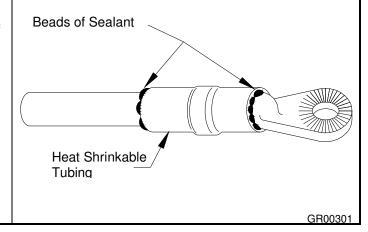
Position heat shrinkable tubing over terminal and end of cable

Note: Red heat shrink is applied to power cable and black heat shrink to ground.

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



INSTALLATION OF CIRCUIT BREAKER(S)

Batteries on a truck will require circuit breakers at both the auxiliary batteries and the vehicle batteries.

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

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

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 24", maximum length, 2 Ga. battery cable may be used.

Connect cables as shown.

Apply a generous amount of Dielectric Grease to all Positive (Hot) Battery terminals and Circuit Breaker terminals.

Install circuit breaker decal, 80100829, near the circuit breaker.

For trucks, use remaining length of cables supplied with liftgate, and route from auxiliary batteries to vehicle batteries.

Install terminal lugs on cables as required per previous instructions.

Install circuit breaker and cables to vehicle batteries per previous instructions.



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

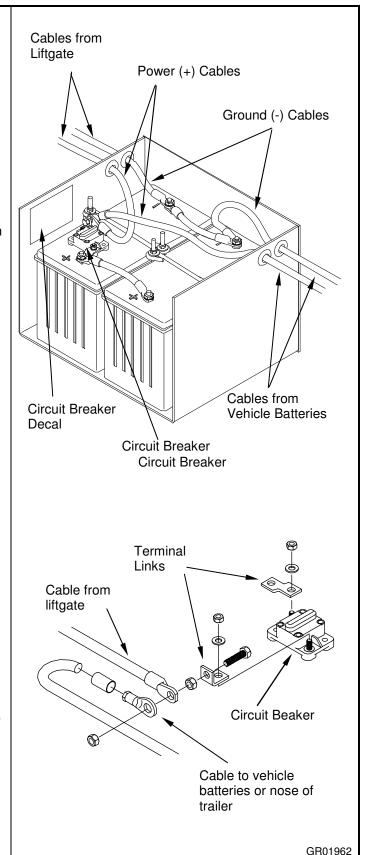


Secure battery cable so it does not come near, or in contact with, other vehicle wiring, fuel lines, brake lines, air hoses, exhaust system, etc.

IMPORTANT:

If liftgate has a Mounting Bar, <u>do not</u> operate liftgate before bar has been removed.

See below for trailer applications.



For trailer applications with dual pole socket:

Using 0 ga. cables, supplied with trailer kit, feed each end through battery-box wall and install a compression terminal on both red and black cables.

Do not connect any cables to batteries at this time.

Run cables from battery box to trailer nose, securing them every 24" with cable ties.

For trailer applications with <u>dual</u> pole socket:

Install dual pole socket in nose of trailer. Drill 1-3/4" hole in trailer and mount with hardware provided.

Route cables from auxiliary batteries to nose of trailer.

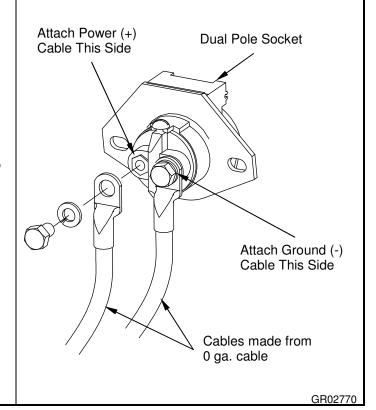
Install cables to socket as shown.

Apply a generous amount of Dielectric Grease over cable terminals.

IMPORTANT: Be sure to orientate cables as shown, power (+) to the left, ground (-) to the right.



Power (charge) cable from tractor batteries to trailer must also be protected with a 150 amp circuit breaker at the tractor batteries.



Note

While these instructions can be used for single pole sockets, Waltco recommends dual pole sockets be used for their superior grounding abilities.

For trailer applications with single pole socket:

Using 0 ga. cable, supplied with trailer kit, feed the end through battery-box wall and install a compression terminal on that end.

Do not connect any cables to batteries at this time.

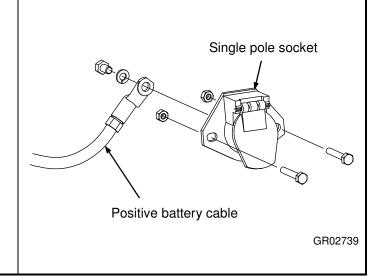
Run cable from battery box to trailer nose, securing them every 24" with cable ties.

For trailer applications with single pole socket:

Drill 1-3/4" hole in nose of trailer for trailer socket. Mount socket to trailer with bolts and nuts provided. Attach cable to back of socket with bolt provided. Apply a generous amount of Dielectric Grease over cable terminal.



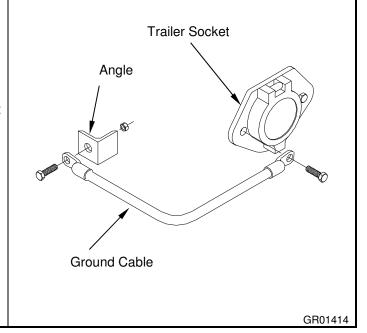
Power (charge) cable from tractor batteries to trailer must also be protected with a 150 amp circuit breaker at the tractor batteries.



Ground trailer socket to main structure of trailer.

Use the 18" ground cable, supplied, and bolt it to the trailer socket and suitable structure on the nose of the trailer.

An angle has been provided, it can be used by welding it to the crash plate, or other suitable structure.

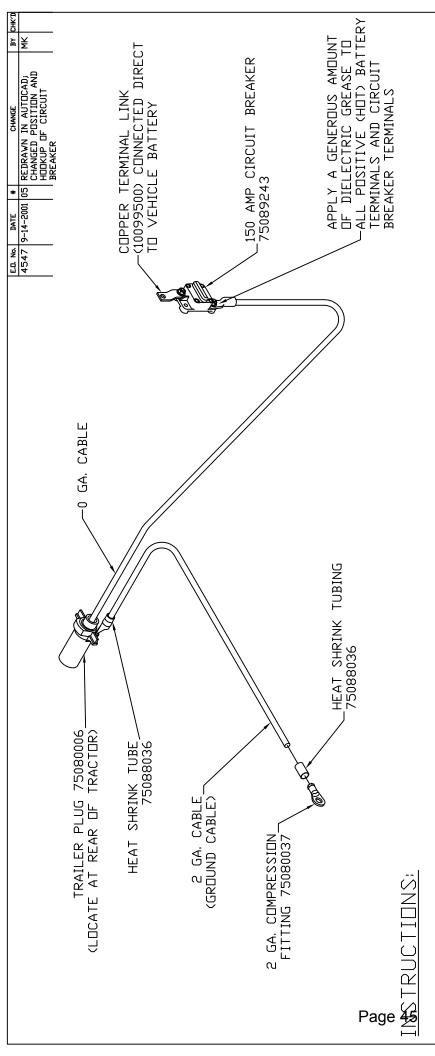


For all trailer applications:

After single or dual pole socket is installed:

Connect cable(s) to terminals in the battery box as shown previously; using a 150 amp circuit breaker to protect the charge circuit.

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PURPOSE OF THIS KIT IS TO RUN THE LIFTGATE OF THE TRACTOR BATTERIES,

- COPPER TERMINAL LINK (10099500), NOTE: IF UNABLE TO CONNECT CIRCUIT BATTERY CABLE TO CONNECT CIRCUIT BREAKER TO VEHICLE BATTERIES, BREAKER DIRECT TO BATTERY, USE AN OPTIONAL 24" MAXIMUM LENGTH LOCATE CIRCUIT BREAKER DIRECTLY ON VEHICLE BATTERY USING
- 2. CUT CABLES TO LENGTH, INSTALL COMPRESSION TERMINALS, AND APPLY HEAT TO HEAT SHRINK TUBING SUPPLIED WITH KIT (SEE DRAWING 80100823>

NEVER SECURE BATTERY CABLE IN SUCH A WAY THAT IT COMES INTO CONTACT WITH OTHER WIRING, FUEL LINES, BRAKE LINES, AIR HOSES, EXHAUST SYSTEM....ETC. [MPDRTANT:

THIS DRAWING IS USED FOR POWER KIT NUMBER 80000618

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The decembe is a confidential decisions and is loaned subject to recall at any the and site in the tree recall at any the and subject to recall at any the and in any any dethievant, so the interests of what ICO EQUIPMENT COMPANY	WALTCE TRUCK EQUIPMENT CE. RESI RETRIENSE, DIE 44278 GARDIN, CA. 9249	
Tolerances Unless Ditherwise Data 250 Data 250 Data 210 Data 250 Data 250 Data 250 Data 250	INSTALLATION OF TRACTOR VIRING KIT	
DO NOT SCALE		
DRAWING	PAGE 1 OF 1 PART NO. 80100822	



Dual Control Switch, Installation InstructionsFor Kit 80000437

Note: Kit may include additional parts not used in all installations

Locating and Mounting 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.

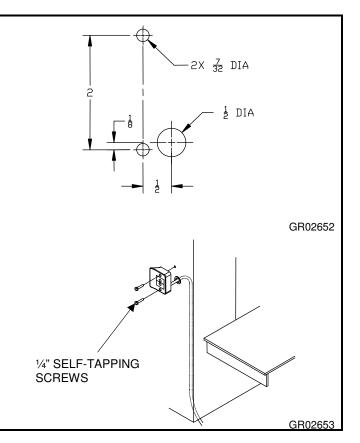
IMPORTANT

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

Using Switch Mounting Template or diagram to the right, drill two fastener holes with a 7/32" drill bit

If Control Cord will be run through a hole in the side of the truck, drill ½" dia hole and remove all sharp edges and insert a grommet.

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



Route Control Cord into pump enclosure.

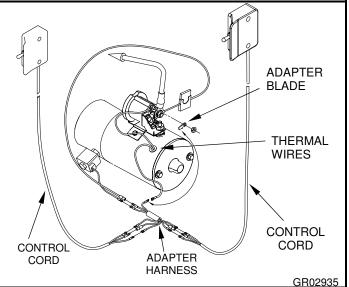
First connect Pump wires to Dual Control Adapter Harness as shown.

Connect both Control Cords to other ends of Adapter Harness as shown.

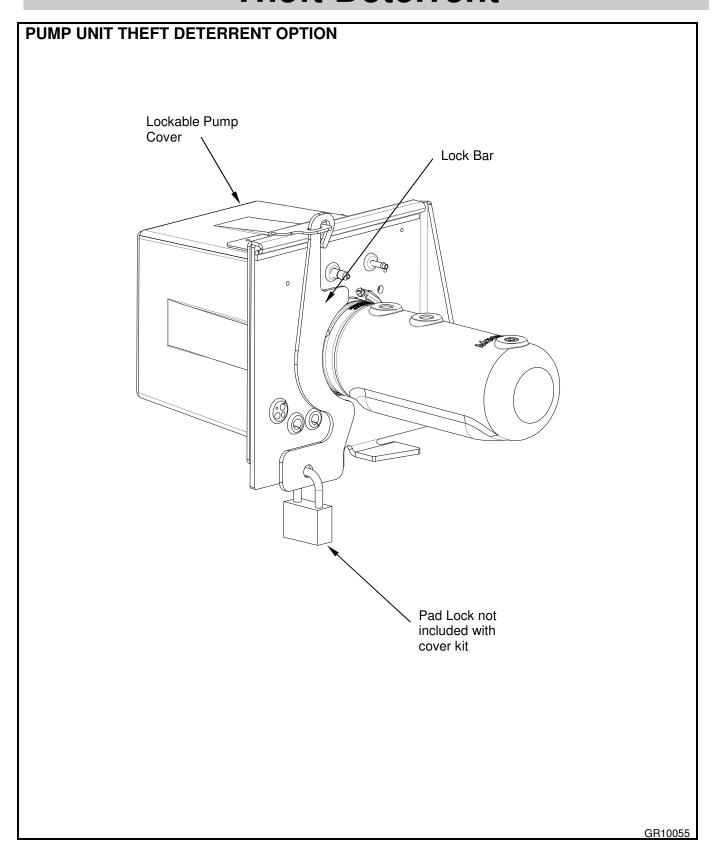
NOTE:

Match wire connections male to female. Color of wire may vary.

If motor does not have Thermal Wires, plug Adapter Harness into Adapter Blade.

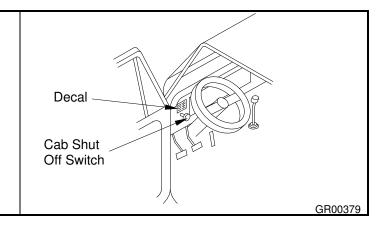


Theft Deterrent



Installation of Cab Shut Off Switch

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

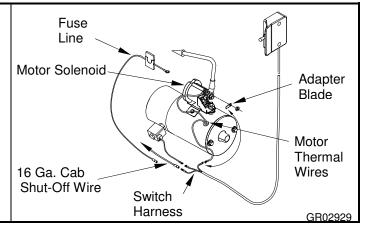


Remove fuse line from motor solenoid. Unplug fuse line from switch harness and save for later installation.

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

Note:

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



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

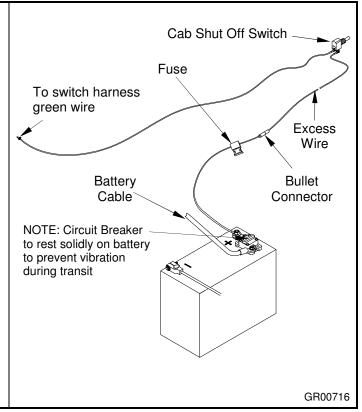
Run excess 16 ga. wire from vehicle battery to cab shut off switch. Fuse end to be toward battery.

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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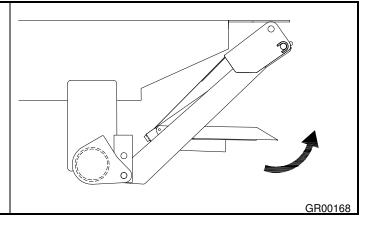
INSTALL RUBBER SNUBBERS

Raise Platform to fully closed position.

NOTE:

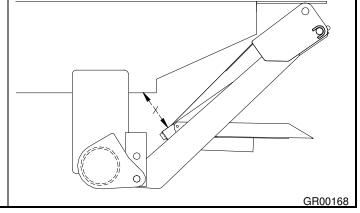
On F and FSL Series Liftgates only:

Pull up and rearward on Deck Extension to make certain Platform is fully in stored position.



Measure distance "X" from tube at end of deck to a selected spot on chassis frame.

Lower platform slowly until "X" increases by 3/8".

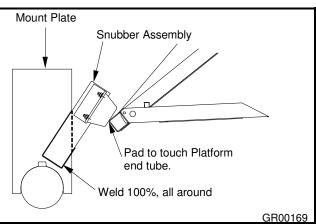


Position a Snubber Assembly approximately as shown on each Mount Plate and tack weld in place.

Lower, open and re-store Platform a few times to check operation of Snubbers.

Check that Snubber Assemblies do not interfere with opening or storing away of deck.

Weld Snubbers 100% with 1/4" welds.

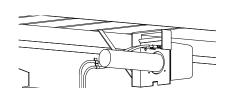


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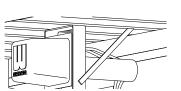
REMOTE MOUNT BRACKET INSTALLATION INSTRUCTIONS

1. Locate a position for the pump on the truck frame as near to the rear of the vehicle as practical. Shown below are three possible ways the pump may be mounted. If the pump will be mounted on the driver's side of the vehicle, use the dual control switch kit (part no. 80000429) so that a switch can be mounted on the curb side.

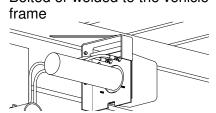
Mounted on crossmembers parallel to the vehicle frame



Mounted on crossmembers perpendicular to the vehicle frame



Bolted or welded to the vehicle frame



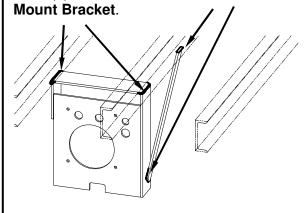
2. Install Remote Bracket on to the vehicle.

If welding to crossmembers

Weld top ends of Mount Bracket to a crossmember.

Weld both sides of one end of Brace to a crossmember.

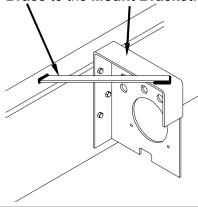
Weld (3) sides of other end of Brace to the



If bolting Mount Bracket to vehicle frame

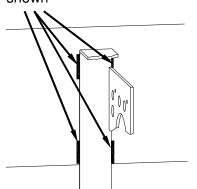
Weld both sides of one end of Brace to the body long member.

Weld (3) sides of other end of Brace to the Mount Bracket.



If welding Mount Bracket to vehicle frame

Weld the Mount Bracket as shown

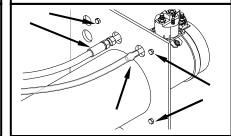


Also weld Brace as shown in previous picture.

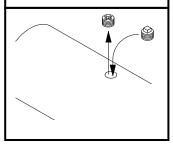
3. Add Gasket to Mount Bracket.



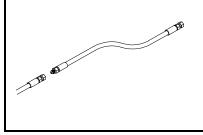
4. Detach hoses and unfasten (4) hex-screws to remove pump.



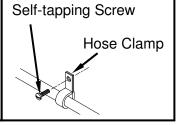
5. Replace vented plug with Square Head Plug



6. Connect Hose Extension to Hydraulic Hose.



- 7. Fasten Pump to Mount Bracket using the (4) hex screws.
- 8. Re-attach hoses.
- **9.** Secure hoses to the vehicle using the hose clamps and self-tapping screws provided.



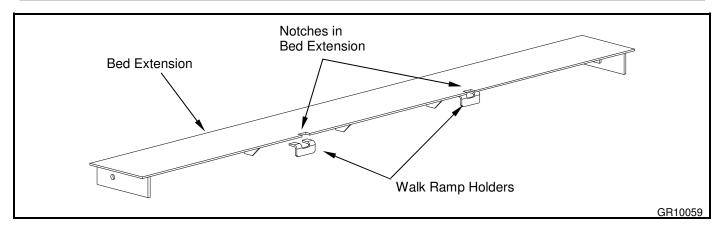
IMPORTANT: Hydraulic hoses are to be protected from sharp edges, and never secured near exhaust system.

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WALK RAMP HOLDER INSTALLATION

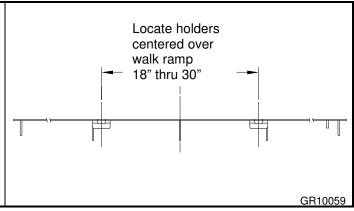
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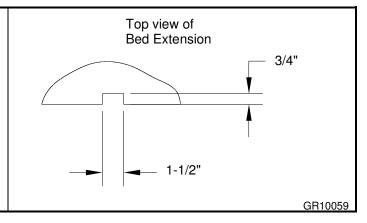
Determine location required for walk ramp holders and notches in bed extension. Holders to be centered over walk ramp.

NOTE:

This kit is not compatible with 21-3/4" ramp hook spacing's for C-Series Liftgates.

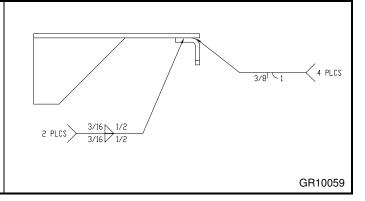


Cut two (2) notches in bed extension as shown for walk ramp hooks.



Weld holders to underside of bed extension as shown.

Verify walk ramp hooks properly engage notches and holders.



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:

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

THEN INCLUDE THE FOLLOWING INFORMATION:

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

MAIL, E-MAIL OR PHONE YOUR REQUEST TO:

Waltco Lift Corp 285 Northeast Avenue Tallmadge, OH 44278 1-800-411-5685 FAX: 1-800-411-5684

E-MAIL: parts@waltco.com

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

PLEASE NOTE:

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

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

Additional WARNING DECALS, OPERATION DECALS and OWNER'S MANUALS can be obtained from WALTCO LIFT CORP.
NOTE: When ordering, give model and serial number of the liftgate.

IMPORTANT

AWARNING

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**

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