

ANTHONY
LIFTGATES, INC.®

PCR

*Shown with optional features.

INSTALLATION, OPERATION, AND MAINTENANCE



MODELS

PCR-1800-94
PCR-1800-94-AB
PCR-1800-94A
PCR-1800-94A-AB
PCR-2500-94
PCR-2500-94-AB
PCR-2500-94A
PCR-2500-94A-AB
PCR-2500-94-GB
PCR-2500-94-GB-AB
PCR-3000-94-HC

QUALITY, RELIABILITY, CUSTOMER SERVICE

MADE IN THE USA 

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1. General Information Section

1.1 Introduction

Congratulations on selecting an Anthony Medium RailTrac™ Liftgate. Anthony liftgates are among the finest liftgates available on the market today. To ensure your liftgate will perform to your expectations, we have designed this manual to furnish you with the necessary instructions and safety precautions to properly install and operate your Anthony Liftgate. A parts manual is available in the Manual section of our Website at www.anthonyliftgates.com.



Typical Anthony Liftgates PCR Medium Railtrac liftgate.

1.2 Important Operation Notes!

A platform restraining system may be needed to retain certain types of cargo on the liftgate platform, such as a cart stop, straps, etc. This should be considered by the purchaser for their particular application to prevent the possibility of severe personal injury or death due to cargo shifting and/or falling from the liftgate platform.

All users of this liftgate must be at least 18 years old and have read and understood all operation instructions and safety decals before use.

WARNING



Crush Hazard
Unsecured loads, when moved on the liftgate, can shift or fall.

To prevent personal injury or death, make sure loads are securely fastened to liftgate or restrained by cart stops, retention ramp, or fencing.

1.3 Model Information!

The Power Close RailTrac model Liftgates work best on truck bodies with “roll-up” style doors. The liftgate can be installed on “swing-type” doors, but may require modification to the truck body due to interference between the liftgate rails and the location of door latches and hinges. The PCR Liftgate can also be installed on flat bed trucks.

The PCR Liftgate provides up to 58 inches of total lift height. On trucks with bed heights that are below typical dock heights, the above bed liftgate allows the cargo to be loaded from the bed of the truck and then raised to a higher dock height. Depending on truck bed height, the platform travel can be up to 18 inches above the truck bed.

The maximum lifting capacity of the PCR Liftgates ranges from 1800 to 3000 pounds, depending on the model.

All Anthony PCR model liftgates are factory assembled, tested, and energized to ensure the highest quality performance standards. They ship completely assembled for fast, clean, and easy installation.

With the proper tools and two installers, the PCR can be installed in one to two hours.

This Installation, Operation, and Maintenance manual will provide you with easy to follow instructions, along with photos and illustrations. All Safety precautions have been clearly identified and detailed throughout each section.

At the bottom of each page is the Anthony Liftgates Inc. Product Support phone number. If you are unclear about any of the instructions, please phone Anthony Liftgates' Product Support.

In addition to the installation instructions, a complete explanation of the safety words and rules are included in the Safety section of this manual. Please turn to the Safety section and read it thoroughly before proceeding to the next page.

1.4 Installation Recommendations

Even though the following goes without saying, we feel compelled to state:

Anthony Liftgates should only be installed by those with sufficient skills to understand the installation and operation of the liftgate, along with the equipment required to install the liftgate. The installation instructions in this manual are intended to give typical installation instructions to the installer for both the operation and what we believe to be the most desirable sequence of installation. These instructions cannot replace a qualified person, or clear thinking and the basic knowledge that must be possessed by the installer.

We urge the installer (or anyone else) to call us if they have any questions. We have qualified personnel at our Pontiac, Illinois plant to answer any questions that you may have. Sometimes a detailed discussion on the phone can be far more satisfactory than a detailed written explanation.

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

Again, we urge you to call us at our Pontiac, Illinois plant if you find the liftgate is not operating properly, if you do not know how to make the necessary repair, or if you have installation issues.

If you have any doubts or questions, contact us at:

Anthony Liftgates, Inc.
1037 West Howard Street
Pontiac, Illinois 61764
(815) 842-3383 or 800-482-0003
Web: www.anthonyliftgates.com
Email: Sales@anthonyliftgates.com

WARNING



PROPER INSTALLATION

The success or failure of this liftgate to properly and efficiently operate will depend on a thorough and proper installation. Failure to read, understand, and follow the installation instructions and safety recommendations in this manual before installing the liftgate can result in serious injury or death. Also read and understand the operating instructions in the Operation Section.

When installed, this liftgate must not alter nor prevent vehicle compliance to any existing state or federal standards, and especially FMVSS 105. Each chassis manufacturer's recommendations should be consulted for compliance. Also make sure the weight of the liftgate and its load will not overbalance the truck, possibly raising the front wheels off the ground.

1.5 Warranty

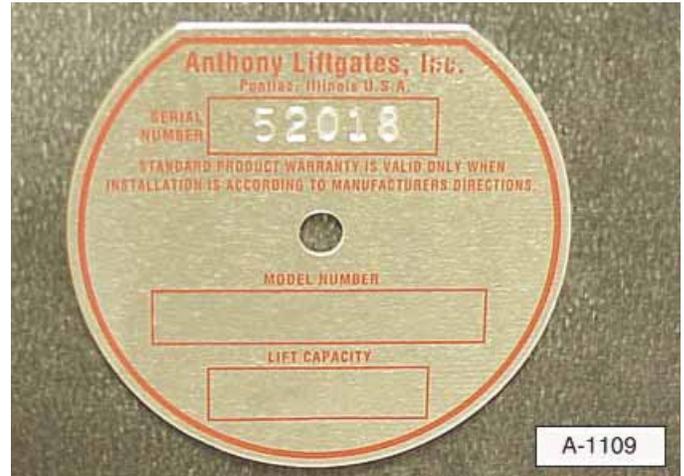
WARNING

VOIDED WARRANTY

The liftgate must be installed according to the installation instructions or the warranty will be void. Unauthorized modifications of the liftgate may cause it to improperly operate or cause other unforeseen problems or dangers that may cause serious injury or death. If any deviation is deemed necessary, written permission must first be obtained from Anthony Liftgates.

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

Before calling for warranty or other product information, have the serial number, model number, and lift capacity of your liftgate, which is stamped into the identification plate on the back side of the power unit box, facing the rear of the truck. This information will help us verify your warranty information and access a list of all part numbers of components that were used on your specific liftgate.



Identification plate.

Record the serial number, model number, and date of installation for easy reference when contacting Anthony Liftgates with questions.

Serial Number Information	
Serial No.	
Model No.	
Date of Installation	

Refer to "10.1 Limited Warranty" on page 44 for complete warranty details.

1.6 Decals

SAFETY INSTRUCTIONS



To prevent personal injury from not being aware of safety recommendations, make sure all decals are attached to the liftgate and/or truck and are legible at all times!

Safety decals provide a vital role in helping to reduce injuries and/or possibly even death. To ensure the greatest level of safety, all decals must be in place and legible at all times. Remember, it's the users responsibility to maintain these decals. For a complete part number list and illustration of the decals used on the PCR Liftgate, refer to "5. Decals" on page 27.

For decal placement, refer to "5.1 Decal Locations" on page 27.

For replacement decals contact:

Anthony Liftgates, Inc.
1037 West Howard Street
Pontiac, Illinois 61764
(815) 842-3383 or 800-482-0003
Web: www.anthonyliftgates.com
Email: Sales@anthonyliftgates.com

1.7 Ordering Parts

We manufacturer a quality liftgate that requires very little maintenance or repair. However, should a part break, become damaged, or worn, our knowledgeable staff can make sure you receive the part(s) to put your liftgate back into operation.

Note: The liftgate's packet of information does not contain a "parts manual." The most current and up-to-date parts manuals can be obtained by accessing our website anytime.

Our website address is

www.anthonyliftgates.com

Click on "Manual" and choose a model.

If you do not have access to the internet, or just prefer a printed copy of a manual, we can send one to you. Call or write our office listed below.

For questions or to order parts, contact:

Anthony Liftgates, Inc.
1037 West Howard Street
Pontiac, Illinois 61764
(815) 842-3383 or 800-482-0003
Web: www.anthonyliftgates.com
Email: Sales@anthonyliftgates.com

2. Safety Section

2.1 Safety Is Your Responsibility



It is the responsibility of the installer/operator to understand and perform proper operating procedures. Be aware of the inherent dangers in the use of this product and the tools used to install it. Read and understand all Danger, Warnings, Cautions, and Important Notices in this manual and on the liftgate or truck.

2.2 Safety Signal Words



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, SAFETY INSTRUCTIONS, CAUTIONS, IMPORTANT NOTICES, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following key words call the readers' attention to potential hazards.

Hazards are identified by the "Safety Alert Symbol" and followed by a signal word such as "DANGER", "WARNING", or "CAUTION".

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

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

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates that equipment or property damage can result if instructions are not followed.

SAFETY INSTRUCTIONS

Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

Note: Contains additional information important to a procedure.

2.3 Safety Rules

Accidents can often be avoided by being alert and recognizing potentially hazardous situations. Any individuals installing, operating, repairing, or maintaining products manufactured by Anthony Liftgates should have the necessary training, skills, and tools required to perform these functions properly and safely. The safety information in this manual serves as a basic guide in an attempt to prevent injury or death.

Anthony Liftgates cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product itself are, therefore, not all-inclusive. If tools, procedures, work methods, or operating techniques that are not specifically mentioned by Anthony Liftgates are used, you must satisfy yourself that they are safe for you and for others. Make sure the liftgate or truck it is mounted onto will not be damaged or made unsafe by any operation, lubrication, maintenance, or repair procedures that you choose.

DO NOT proceed, if any doubt arises about the correct or safe method of performing anything found in this or other Anthony Liftgates' manuals. Seek out expert assistance from a qualified person before continuing.

WARNING



To avoid personal injury or death, carefully read and understand all instructions pertaining to the Anthony Liftgates product. Do not attempt to install, operate, or maintain our product without fully understanding all of our instructions and safety recommendations. Do not operate or work on a truck or liftgate unless you read and understand the instructions and warnings in the Installation and Operation manual. If any doubt or question arises about the correct or safe method of performing anything found in this or other Anthony Liftgates' manuals, contact your Anthony Liftgates' dealer or call the Inside Sales and Service representatives at our main headquarters. Proper care is your responsibility.

⚠️ WARNING



To prevent serious bodily injury, keep sparks, lighted matches, and open flames away from the top of the battery, because battery gas can explode. Always follow all the manufacturers' safety recommendations when working around the truck's battery.



Take precautions to avoid sparks coming into contact with the truck's fuel tank, brake lines, or other flammable components. Sparks can cause an explosion of combustible materials, resulting in serious injury or death.



Never secure the power cable to anything which allows it to contact sharp edges, other wiring, the fuel tank, fuel lines, brake lines, air lines, exhaust system, or any other object that could cause the power cable to wear or be damaged. A cut battery cable can cause sparks resulting in loss of vehicle control, serious injury, or even death.



If required for installation, always use a cutting torch in a well ventilated area and, if in an enclosed area, vent the fumes to the outside. Breathing the smoke and fumes can cause serious injury.



Always follow all State and Federal health and safety laws and/or local regulations when using a cutting torch. Also, follow all manufacturer's safety guidelines. If other people are present during the installation of the liftgate, make sure they remain clear of the cutting area and are shielded from view of any welding. This will prevent serious eye injury from the bright light.



To avoid eye injury, always wear eye protection with the proper lens to protect your eyes.



Tack welds must be strong enough to hold the weight of the individual components being held in place. Insufficient tack welds may not hold the parts in place, resulting in possible bodily harm.



Failure to prevent the truck from moving during the installation of the liftgate could result in a serious crushing injury.



Do not work under the liftgate while it is suspended from the lifting equipment. Failure of the lifting equipment could cause serious crushing injuries. Do not remove the lifting equipment until the liftgate is completely bolted onto the truck frame.

⚠️ CAUTION



Anthony Liftgates recommends not riding the liftgate, however, if the delivery operation requires it, make sure your footing is stable before raising or lowering platform. Always stand away from the edge. When on the ground, always stand clear of liftgate when it is operating.



Always use/set the truck's parking brake before operating the liftgate. Failure to follow this recommendation can result in injury.



Even though the Anthony Liftgate is easy to install, the installation should be done with at least two people.



Do not place hands or feet in pinch points.



Do not place your feet under the liftgate.



To prevent personal injury, clean up any spilled fluids immediately. To avoid tripping, do not leave tools or components laying around in the work area.



Many liftgate models provide steps for drivers as a convenience feature. When steps are present, customer-supplied grab handles and other ingress/egress items should be installed.

SAFETY INSTRUCTIONS



To prevent injury, the liftgate and its related components should only be installed by a qualified installer. They should have knowledge and skill in using lifting equipment and a cutting torch.



To prevent possible injuries due to improper operation, make sure all decals are attached to the liftgate and/or truck and are legible at all times.

2.4 Safety Icons Nomenclature

This manual and the equipment has numerous safety icons. These safety icons provide important operating instructions which alert you to potential personal injury hazards.

2.4.1 Personal Protection/Important Information

-  Read the manual
-  Damaged Safety Signs
-  Inspect Equipment
-  Use proper tools
-  Face Shield
-  Use two people
-  Eye protection
-  Breathing protection
-  Set parking brake
-  Use grab handles

2.4.2 Prohibited Actions

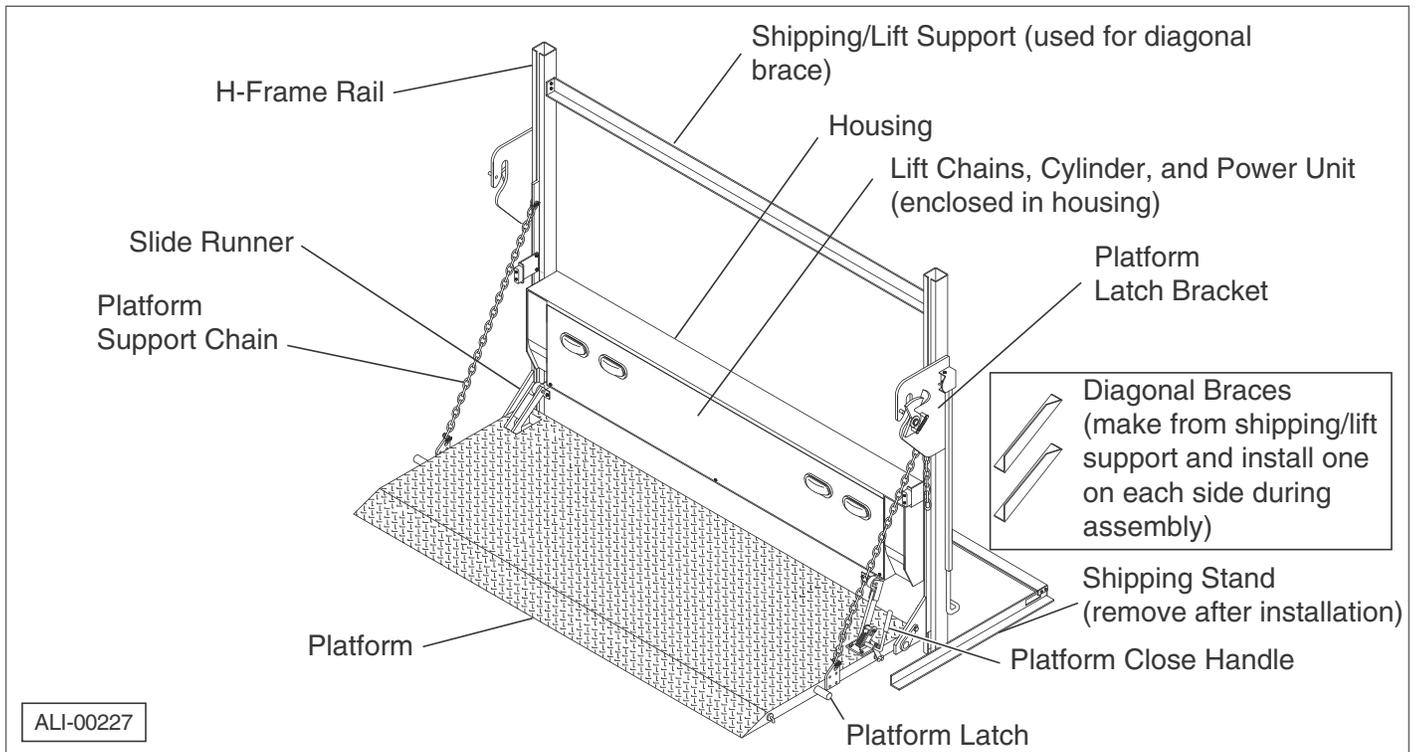
-  No smoking
-  No open flame

2.4.3 Hazard Avoidance

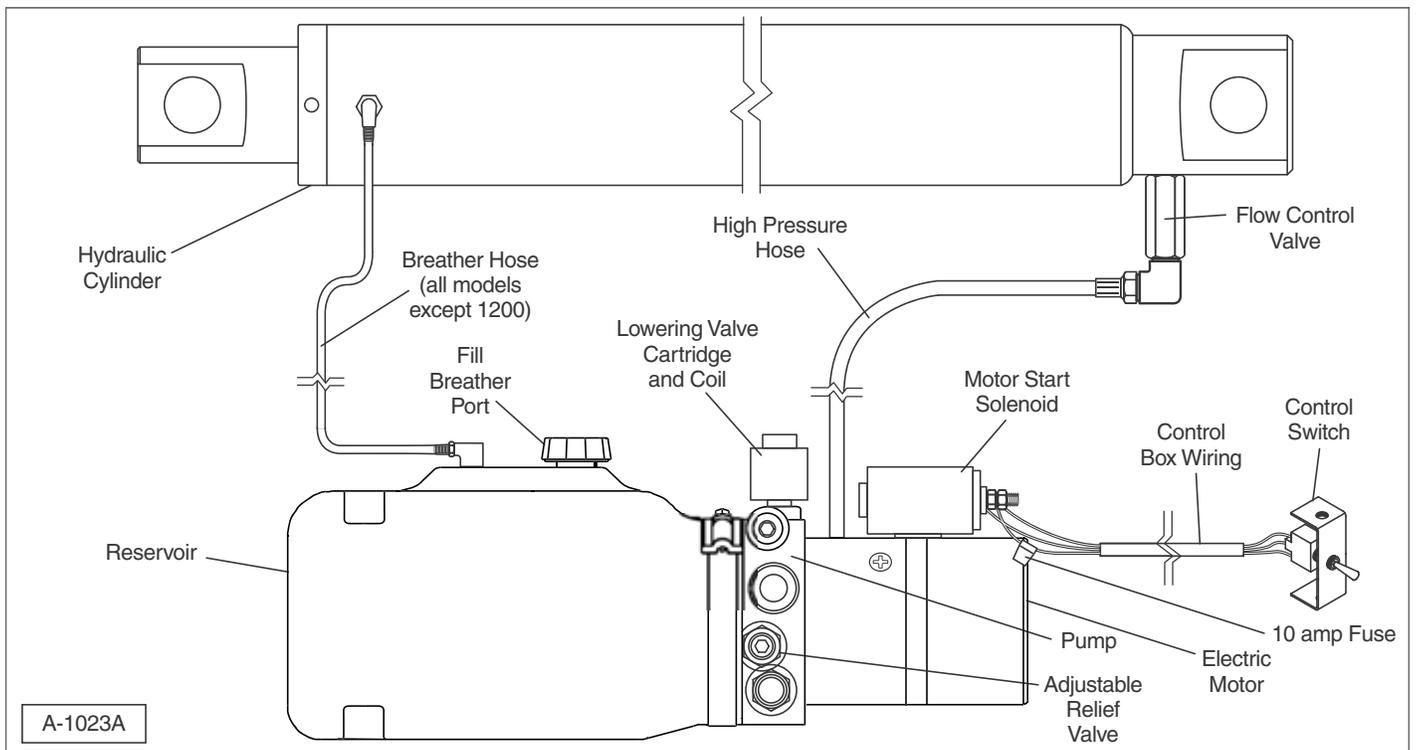
-  Slipping injury
-  Tripping injury
-  Safety alert symbol
-  Explosion hazard
-  Pinch point hazard
-  Dangerous fumes
-  Adequate ventilation
-  Crush hazard
-  Crush hazard (chock wheels)
-  Crush hazard (foot)
-  Fall hazard
-  Defective or broken part
-  Crush hazard (rolling)
-  Crush hazard
-  Stay clear

3. Nomenclature

3.1 Platform Nomenclature.



3.2 Power Unit Nomenclature.



4. Installation Section

4.1 Basic Mounting Information

1. The bed height is measured from the ground to the floor of the truck body. The PCR model liftgates fit on trucks with bed heights between 30 and 58 inches.

Note: All minimum bed height dimensions are measured with the truck loaded to full capacity. All maximum bed height dimensions are measured with the truck empty. Standard PCR Liftgate models, not having the above bed feature, lift to the floor of the truck bed only.

2. The PCR Liftgate models covered by this manual can be installed on trucks or trailers with "Swing-Type" doors, but significant modification to the truck body will be required. Any type of door which would interfere with the installation of this liftgate will require modification of the truck body by the installer.
3. The following Platform Travel Height chart provides the maximum travel height, depending on the truck bed height.

Platform Travel Height for "Above Bed" (AB) Models Only	
Truck Bed Height	Platform Travel Height
40 to 58"	58"
39"	57"
38"	56"
37"	55"
36"	54"
35"	53"
34"	52"
33"	51"
32"	50"
31"	49"
30"	48"

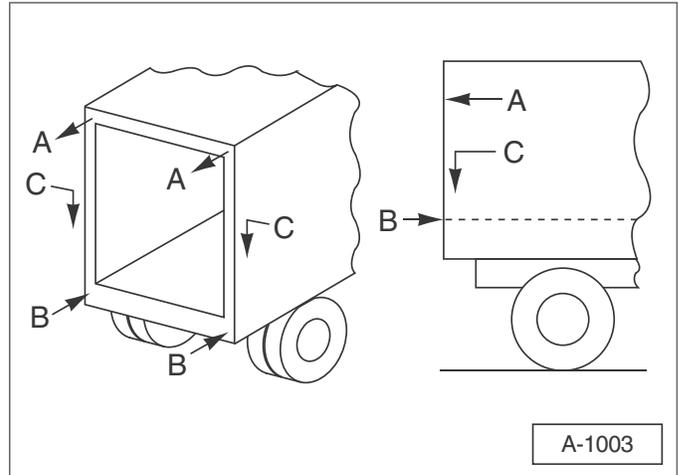
Note: Standard PCR Liftgate models, not having the above bed height feature, lift to the floor of the truck bed only.

4. If your truck bed height is 31 inches or less, the H-frame rails of the liftgate must be cut off **before mounting liftgate**. Cut the rails **after** installation if bed height is higher than 31 inches. The final cutting of these rails will be completed in the installation procedure.
5. The PCR Liftgates mount directly to the rear corner posts of the truck body. Before installing the liftgate, make sure the corners are capable of supporting the load placed on them.

1800 lb. capacity models (each side wall & corner post)
 Tension 2200 lbs.
 Compression 2200 lbs.
 Shear 2200 lbs.

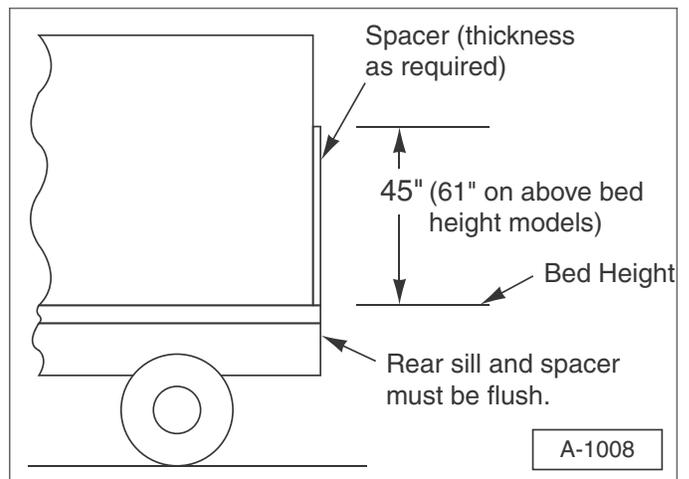
2500 lb. capacity models (each side wall & corner post)
 Tension 2700 lbs.
 Compression 2700 lbs.
 Shear 2700 lbs.

3000 lb. capacity models (each side wall & corner post)
 Tension 3200 lbs.
 Compression 3200 lbs.
 Shear 3200 lbs.

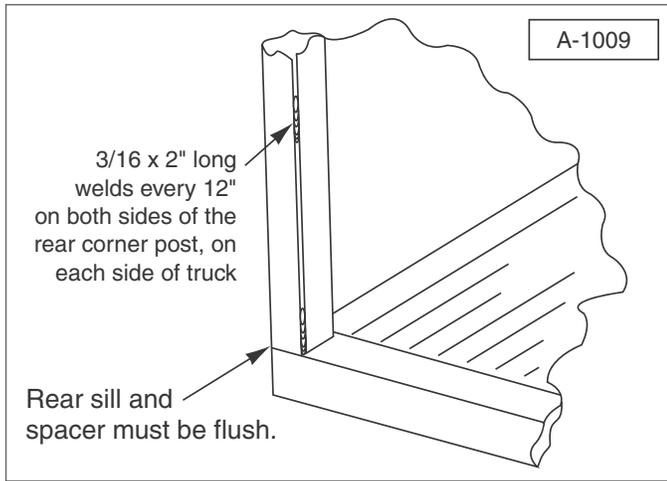


Locations of load.
 (A) Tension. (B) Compression. (C) Shear.

6. Make sure the corner posts are flush with the rear sill. If they are not flush, add spacers, as shown in the illustration.



- Weld the spacers to the corner posts using 3/16 x 2 inch long welds every 12 inches.



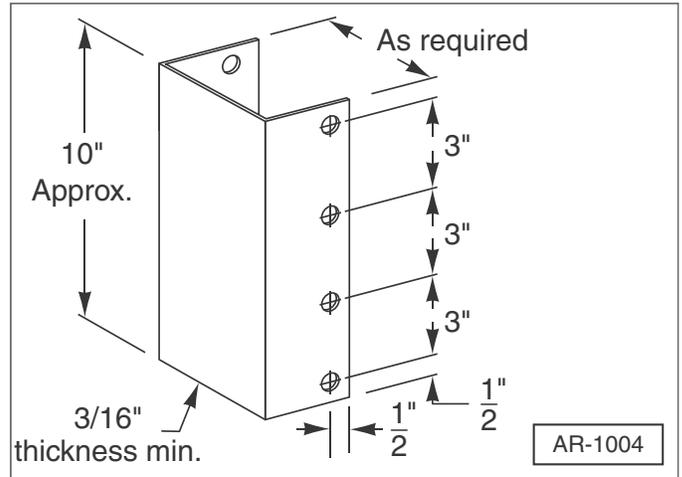
Note: An alternative to one long spacer is using 3 inch long plates spaced 9 inches apart. Make sure the last plate is located 45 or 61 inches above the bed height, depending on the liftgate model being installed.

4.2 Bolt-on Installation

If the truck body corner posts and/or rear sill are not weldable, use this procedure for a bolt-on installation.

4.2.1 Corner Post Mounting Brackets

- Fabricate six mounting brackets from steel plate at least 3/16 inch thick. Make the brackets similar to the example shown in the following drawing. The eight mounting holes should be for 1/4" bolts or larger.



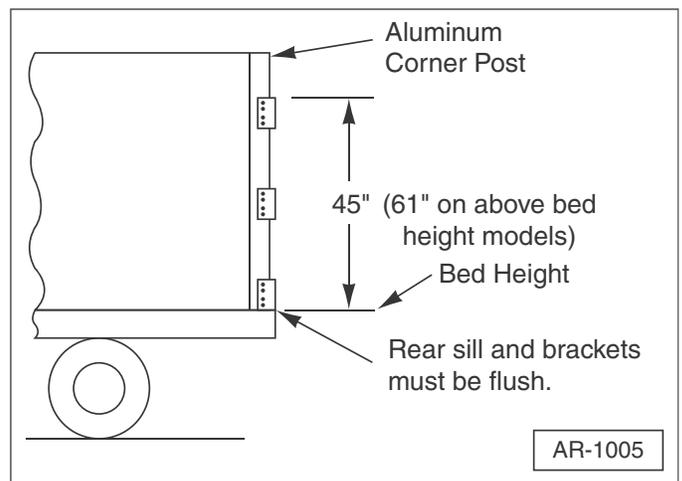
WARNING



CRUSH HAZARD

It is the responsibility of the installer(s) to make sure the steel mounting brackets will safely hold the liftgate onto the truck. If these brackets fail, possible injury or death may result.

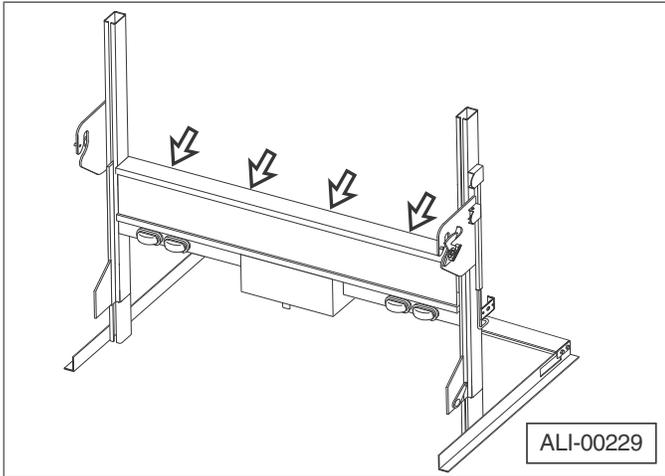
- Mount the steel brackets to the aluminum corner posts at the locations shown below. The sill of the truck bed may also require shims to make sure the surface of the mounting brackets and the sill are flush.



4.2.2 Rear Sill and Housing Modification

If the truck's rear sill is not weldable, the housing must be bolted onto the truck.

Remove the housing cover and drill four evenly spaced holes for 3/8 inch diameter bolts through the inside of the housing and into the rear sill. Make sure the bolt heads will not interfere with the operation of the liftgate.



4.3 Tools Required

The following is a list of suggested tools that should be used to install the PCR liftgate.

- Overhead Crane or Forklift
- Mig or Stick Welder
- Heavy-Duty C-Clamps
- Tape Measure
- Level (small, magnetic)
- Cutting Torch
- Chain Link-Pin Removal Tool (above bed height models only)
- Two pieces of angle iron or channel, 12" long.

4.4 Prior to Installation

Note: Check the OEM vehicle manual for any special requirements prior to welding on the truck. If required, disconnect the battery cable before welding on the truck.

1. Place the truck on a flat, level surface. Block the wheels to prevent possible truck movement during liftgate installation.

WARNING



CRUSH HAZARD

Failure to prevent the truck from moving during the installation of the liftgate could result in serious injury or death from crushing of the installer(s).

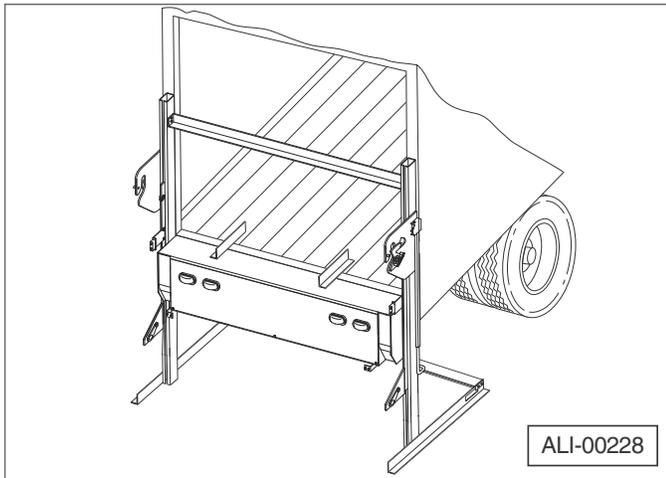
2. Remove the banding securing the liftgate. Remove the loose parts from the pump box.

Note: The power unit box should contain plastic tie wraps for the power cable, one fuse assembly power cable, and one package containing decals and manuals.



3. Make sure the bumper of the vehicle does not interfere with the pump box. The pump box is bolted onto the liftgate and can be relocated, if necessary.
4. Remove all obstructions from the rear of the truck that would interfere with the operation or installation of the liftgate. Obstructions may include dock bumpers, ICC bumpers, taillights, or any other protrusion.

5. Tack weld two pieces of angle iron or channel, approximately 12 inches long, to the housing. This allows the liftgate to hang from the truck body and positions the liftgate flush with the truck's floor. Do not remove the lifting device at this time.



⚠ CAUTION



CRUSH HAZARD

The tack welds must be strong enough to hold the weight of the liftgate. Insufficient welds may not hold the liftgate in place, resulting in possible bodily harm.

4.5 Installation Procedure

SAFETY INSTRUCTIONS



Even though the Anthony liftgate is easy to install, the installation should be done with at least two people.

1. Measure and determine the centerline of the liftgate. Mark this point.



2. Measure and determine the centerline of the truck's rear sill. Mark this point.



3. Lift and center the liftgate on the truck's rear sill. Make sure the top of the liftgate's housing is flush with the truck floor. The 12 inch pieces of angle iron should keep the liftgate flush with the floor of the truck.



5. Tack weld the liftgate's H-frame columns to the truck's side rails and the housing to the truck's rear sill. Make sure the tack welds can hold at least 800 pounds.



⚠ WARNING



CRUSH HAZARD

To avoid personal injury, do not work under the platform during installation. Work so you are not in the way if a lifting device, clamps, welds, etc. should fail.

Note: Make sure the liftgate is centered side-to-side by measuring between the liftgate H-frame rails and truck body side rails.

4. Clamp the liftgate to the frame of the truck using heavy-duty C-clamp(s) on each side. (Do not remove the lifting device at this time.)



- a. If the truck body corner posts are not weldable, bolt steel mounting brackets to the truck body as shown in "4.2.1 Corner Post Mounting Brackets" on page 13. Weld the H-frame columns to the brackets.
 - b. If the truck's rear sill is not weldable, the housing must be bolted onto the truck. Refer to "4.2.2 Rear Sill and Housing Modification" on page 14.
6. Temporarily connect the liftgate motor to the truck's battery to check the operation of the platform. When using a temporary battery connection make sure all safety precautions are followed.
 - a. If the liftgate is shipped with the platform down below the latch, energize the control switch "up" to raise the platform, until the platform lift pins contact the bottom edge of the latch plate. Remove any shipping material and refer to "6.2 Operating Instructions" on page 32 for operating instructions.

⚠ CAUTION

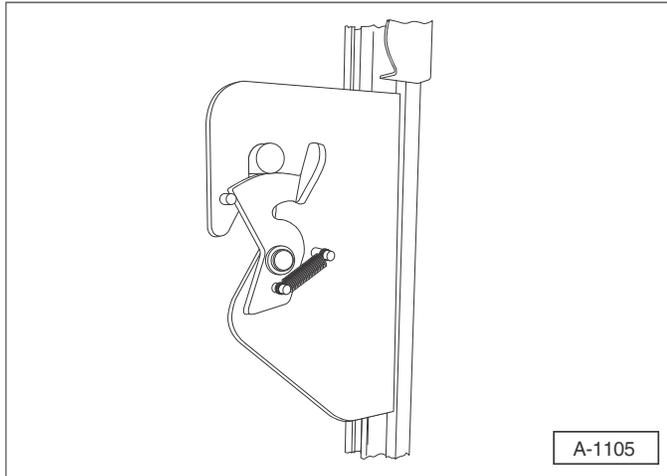


CRUSH HAZARD

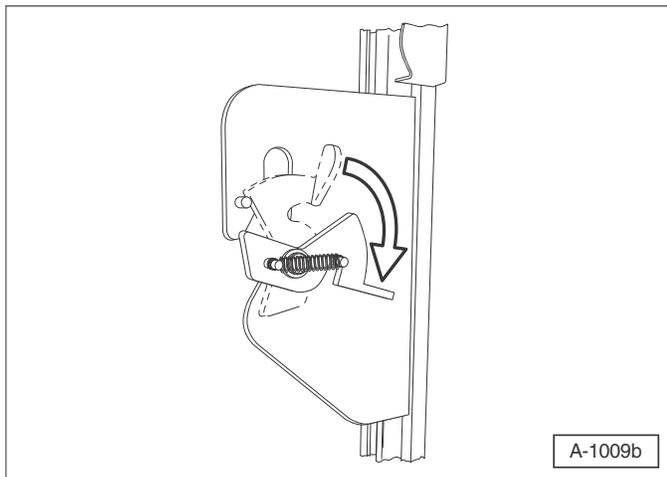
Make sure the area in which the platform will open and close, and move up and down, is free of obstructions or people before operating the liftgate.

7. Operate the platform through its full range of motion. Make sure it operates smoothly and easily without binding. If you experience a problem with the operation, contact Anthony Liftgates.

Note: The Power Close RailTrac has a latching system on the curb and the street side of the liftgate that must be released before the liftgate can be lowered. These latches will automatically relatch every time the liftgate is put in the TRAVEL position and must be released before operating the liftgate.



Latch shown in "travel position".



Latch shown in "released position", ready to lower and open platform.

8. Once the liftgate has been checked and is operating properly, return the platform to the TRAVEL position to continue the installation.

9. Recheck the position of the liftgate and completely weld it to the vehicle.
 - a. Verify that the liftgate is still centered on the truck body.
 - b. Make sure H-frame rails are tight against the truck body side rails, brackets, or spacers.
 - c. Make sure the housing is flush with the floor and tight against the rear sill.
 - d. Put 2" x 3/16" welds every 12" across the housing. Use approximately seven welds.
 - e. Put 2" x 3/16" welds every 12" on the inside and outside of each liftgate H-frame rail. Use approximately ten welds on each rail.

Note: When welding, be careful not to burn through the H-frame rails, because it can cause the internal slide rails to bind during operation.

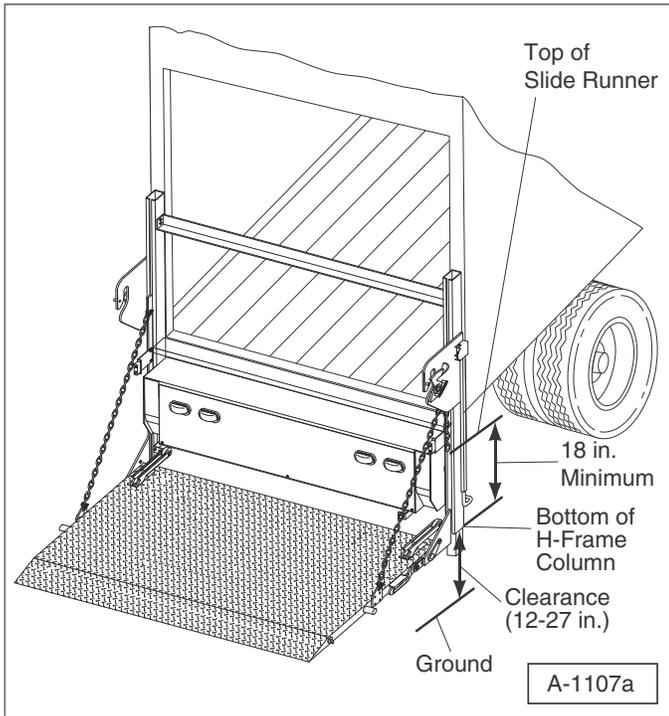
10. Route the supplied power cable (with attached fuse assembly) from the battery to the liftgate power supply using one of the following procedures:



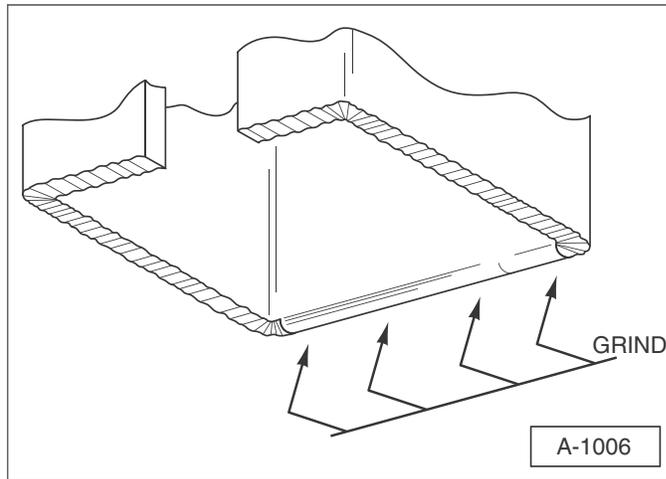
- **Direct Battery Connection** (not recommended). Refer to "4.8.1 Direct Battery Connection (not recommended)" on page 23.
- **Cut-Off Solenoid Connection.** Refer to "4.8.2 Cut-Off Solenoid Connection" on page 24.
- **Cut-Off Switch Connection.** Refer to "4.8.3 Cut-Off Switch Connection" on page 25.

Only one method is required to complete the wiring installation.

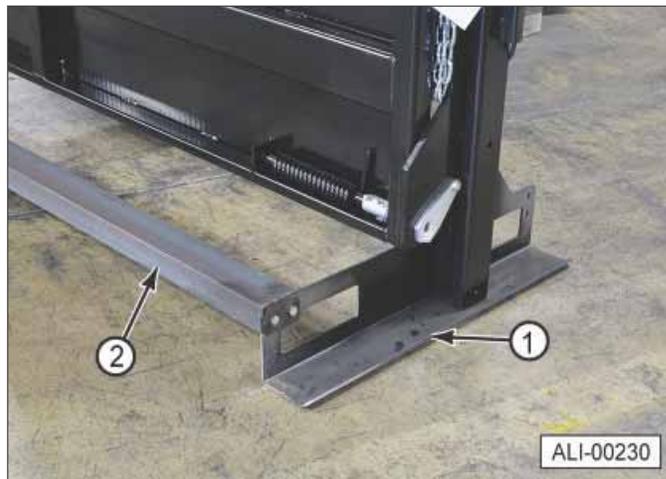
11. Lower the liftgate platform to the ground.
12. Cut off the excess H-frame column. Leave as much length as possible while still maintaining at least 12 inches of ground clearance. The minimum distance between the top of the slide runner and the bottom of the H-frame column should be 18 inches.



13. Grind the bottom of the rails smooth and flat. Make sure the inside and outside edges are rounded to remove any burrs or slag.



14. Remove shipping stands (1) and cross brace (2) from both sides of the liftgate, if not already removed. Remove any sharp edges or burrs from the rails after cutting, and paint the bare metal areas to prevent rust and corrosion.



NOTICE

For smooth operation and long liftgate life, the H-frame column should remain as long as possible. The **minimum** distance between the top of the slide runner and the bottom of the H-frame column should be 18".

SAFETY INSTRUCTIONS

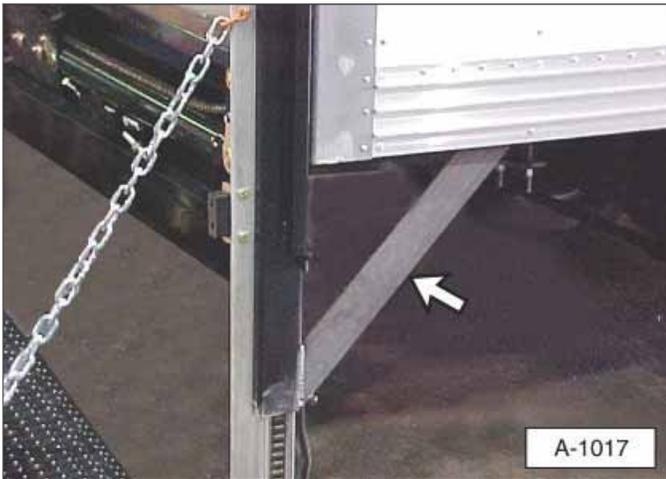
For safety purposes when using a cutting torch, be careful not to cut or burn the wiring leading to the housing. Also cover any other parts that could be damaged by the cutting torch.

15. Unbolt/remove the shipping/lift support.



16. Cut a diagonal support brace and weld it to each H-frame rail.

Note: The diagonal support brace can be made from the angle iron used as the shipping/lift support or from a steel plate which is at least 1/4" thick.

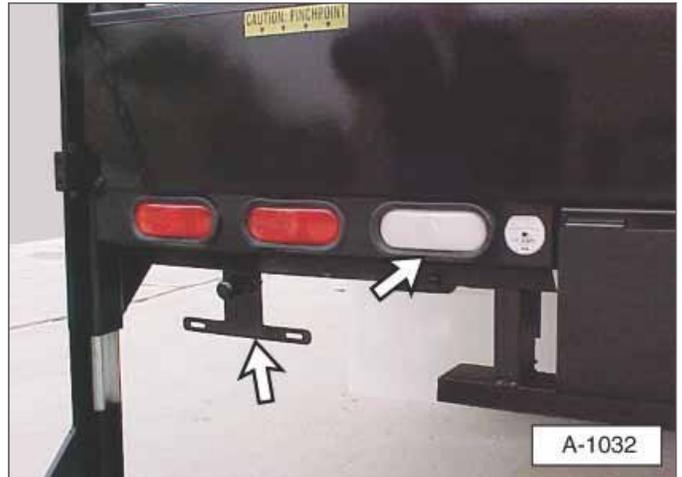


17. For above bed models, refer to "4.6 Chain Adjustment Procedure for Above Bed RailTrac Models" on page 20 for the procedure to cut the lift chain to length and make final adjustments.

18. Raise and lower the platform to make sure it operates smoothly without binding. The platform should be flush with the truck floor when in the fully raised position (bed height models only.)



19. Install lights or other electrical components, as needed. Also install a license plate holder.



CAUTION

CRUSH HAZARD
Make sure the area in which the platform will open and close, and move up and down, is free of obstructions or people before operating the liftgate.

20. Make sure all the operating functions of the liftgate are working properly.
- a. Release the latching system on the street and curb side of the liftgate.
 - b. Push the DOWN control to lower the platform. The platform should slowly and smoothly fold open as it lowers to the ground. This operation should be smooth and free from binding.

- c. Operate the platform up and down several times to make sure the UP and DOWN controls work properly. (Lubricate the slide runners if necessary.)
- d. Make sure the platform stops flush with the truck bed and is aligned with the floor of the truck across the width of the liftgate (bed height models only).
- e. Lower the platform to the ground.
- f. Close the platform and return it to the TRAVEL position. With platform and closer arms below the actuating ramp, push the closer arm handle DOWN and hold it. While holding the handle DOWN, press the UP control switch to raise and fold the platform. When platform begins closing, release the latch handle. Continue raising platform until the platform stops. The platform will automatically latch for traveling.
- g. Make sure the latch pins seat in the lock position.

4.6 Chain Adjustment Procedure for Above Bed RailTrac Models



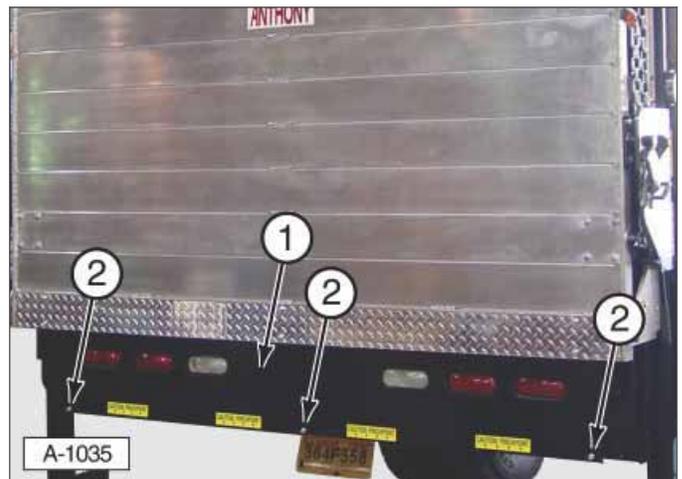
Above Bed RailTrac.

The lift chains must be cut to a specified length to allow the platform to raise to its full height above the bed.

Note: When cutting lift chain, it is better to leave it too long and repeat the procedure to shorten it, than to cut the chain too short. A lift chain that is cut too short must be replaced. Never splice lift chains.

To adjust the length of the lift chains, follow these steps.

1. Lower the platform to ground.
2. Remove three housing cover screws (2) and then remove housing cover (1).



21. Install grab bars or hand rails, as may be necessary.
22. Attach all decals, as shown in "5.1 Decal Locations" on page 27.
23. Make sure the dock load operation works properly.
 - a. Release the latches on the street and curb side of the liftgate.
 - b. Locate the "special" clip link at the end of the short chain, on top of each side runner. Attach to the platform eyelet on each side.



- c. Activate the DOWN control, and lower the platform in a vertical position until it is below the truck floor.
 - d. After use, activate the UP control and raise the platform until the latches automatically latch for traveling. Unhook both chains from the chain links.
24. Complete "4.10 Final Inspection Checklist" on page 26.

- Calculate the proper length of chain to be removed (if any) using the formula below, if the truck bed is between 28" and 49". If the truck bed is between 50" and 58", no chain removal is required.

Formula:

$$58'' - TBH = CLTR$$

TBH = Truck Bed Height

CLTR = Chain Length to Remove

Example: With a 40" truck bed height.

$$58'' - 40'' = 18'' \text{ of chain to remove.}$$

Example: With a 30" truck bed height.

$$58'' - 30'' = 28'' \text{ of chain to remove.}$$

Note: When cutting lift chain, it is better to leave it too long and repeat the procedure to shorten it, than to cut the chain too short. A lift chain that is cut too short must be replaced. Never splice lift chains.

- Push the control switch to the Down position and push the cylinder rod into the cylinder (retract) to loosen the chain. Determine the length of chain to be removed and push the cylinder rod in by least one half of that length.
- Disconnect the power to the liftgate.

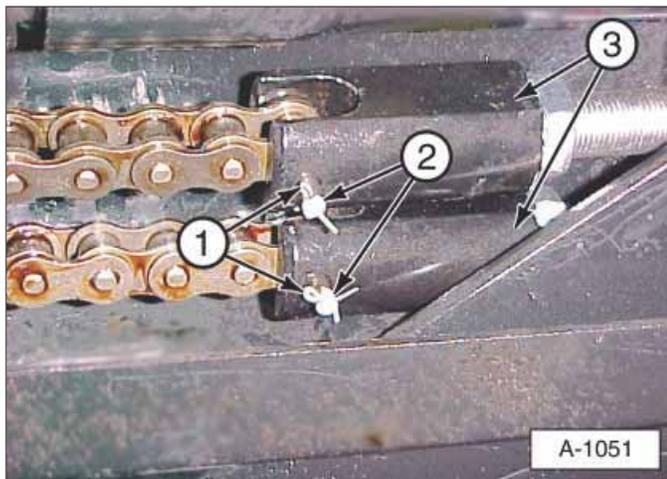
CAUTION



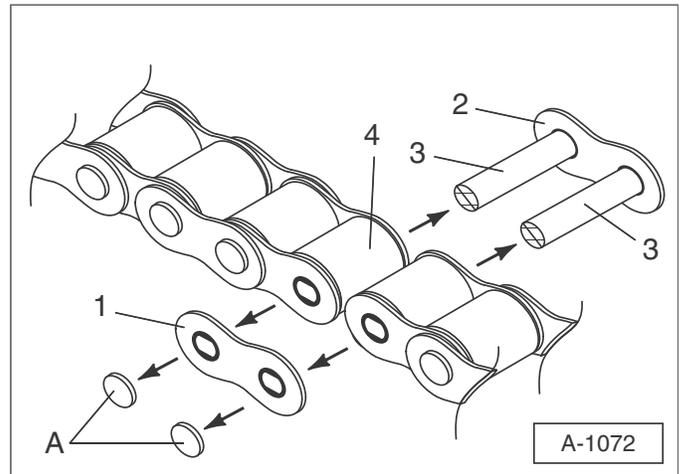
CRUSH HAZARD

When the platform is on the ground, the cylinder rod is in the retracted position. Turn OFF or disconnect power to the liftgate to prevent the cylinder rod from extending. Failure to disconnect the power could result in personal injury.

- Remove cotter pins (1) from chain anchor pins (2). Remove the chain anchor pins from chain anchors (1) and remove both chains.

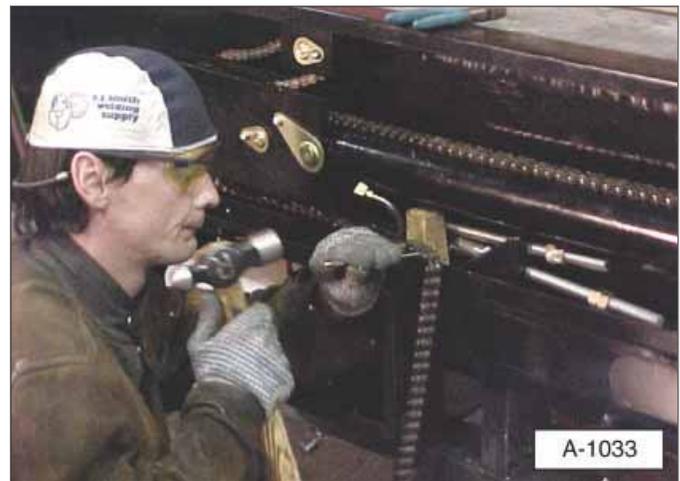


- Measure and mark the location of the length of lift chain calculated using the formula in Step 3.
- Remove a full link nearest to the required length of chain.



Grind heads (A) from chain link pins (3). Remove front link (1) and push rear link (2) with chain link pins (3) out.

- Carefully grind heads (A) off of two chain link pins (3) and remove front link (1).
- Push the rear link and pins out. Remove the excess length of chain.

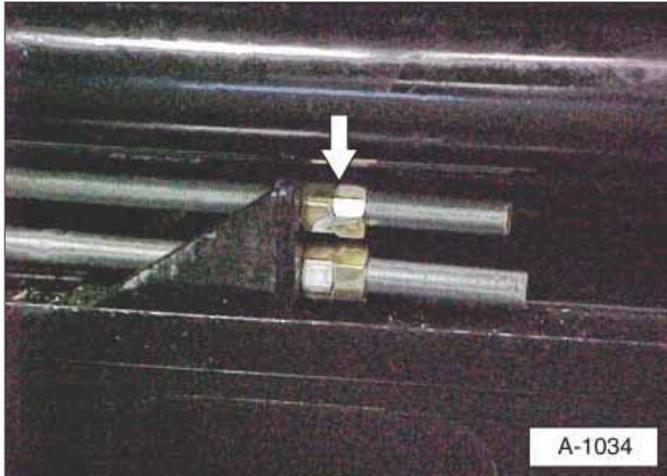


Note: Using a chain link removal tool will greatly reduce the time spent removing these links. These tools are normally available at motorcycle shops or other chain component suppliers.

Note: Some liftgate models may use leaf chains instead of roller chains; however, the same procedures will apply for removing chain links.

- Repeat for the other chain. Make sure equal lengths are removed from both chains.
- Reconnect the chain ends to the chain anchors with the chain anchor pins and **new** cotter pins.

13. Reconnect power to the liftgate. Raise the platform to bed height and check the level of the platform from side-to-side. The platform should be parallel with the truck floor.
14. If adjustments are necessary, lower the platform to the ground and adjust the platform leveling nuts.



15. Recheck the side-to-side levelness of the platform to the truck bed. Re-adjust the platform leveling nuts, as necessary.

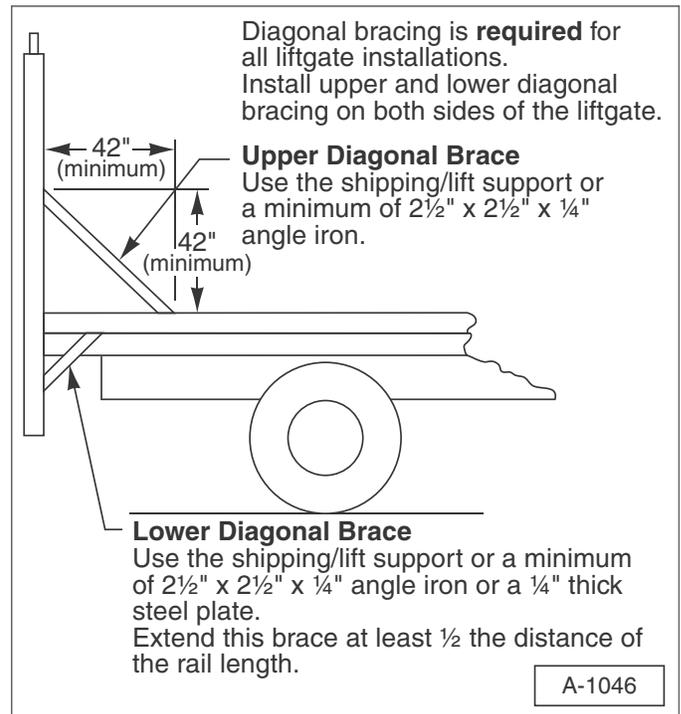
NOTICE

Make sure the two platform leveling nuts (jam nuts) on each of the threaded rods are tightened against each other to prevent loosening. If the jam nuts loosen, the platform can go out of adjustment.

16. Replace the housing cover and secure it with three housing cover screws.

4.7 Installation of RailTrac Liftgates on Flatbed Trucks

When installing the liftgate on flatbed truck bodies, two sets of diagonal braces (two upper and two lower) are required. Diagonal braces can be made from the shipping/lift supports or other recommended materials.



1. Weld or bolt the liftgate to the truck bed. Refer to the normal installation procedure for recommendations and safety precautions.
2. Cut two upper diagonal braces from the shipping/lift support or from 2 1/2 x 2 1/2 x 1/4" thick angle iron.
3. Weld an upper diagonal brace between the H-frame column and the truck bed on each side. The ends of the diagonal brace should be a minimum of 42 inches above the truck bed and a minimum of 42 inches from the end of the truck bed.
4. Cut two lower diagonal braces from the shipping/lift support or from 2 1/2 x 2 1/2 x 1/4" thick angle iron. A gusset (support plate) can also be made from 1/4" thick steel plate.
5. Weld a lower diagonal brace between the H-frame column and the truck bed on each side. The lower diagonal brace or gusset should extend at least one half the length of the H-frame column. For example, if the H-frame column extends 20 inches below the truck bed, the ends of the diagonal brace should extend at least 10 inches downward and 10 inches inward from the end of the truck bed.

4.8 Battery Connection

There are three methods connect the battery. Only one of the following methods is required to complete the wiring installation.

- Direct Battery Connection (not recommended)
- Cut-Off Solenoid Connection
- Cut-Off Switch Connection

WARNING



PERSONAL INJURY HAZARD

Never secure the power cable to anything which allows it to contact sharp edges, other wiring, the fuel tank, fuel lines, brake lines, air lines, exhaust system, or any other object that could cause the power cable to wear or be damaged. A cut battery cable can cause sparks resulting in loss of vehicle control, serious injury, or even death.

Anthony Liftgates strongly recommends the installation of a power cut-off solenoid or cab cut-off switch. Not cutting off power to the liftgate when unattended can result in serious injury or death to unauthorized users or others near the liftgate.

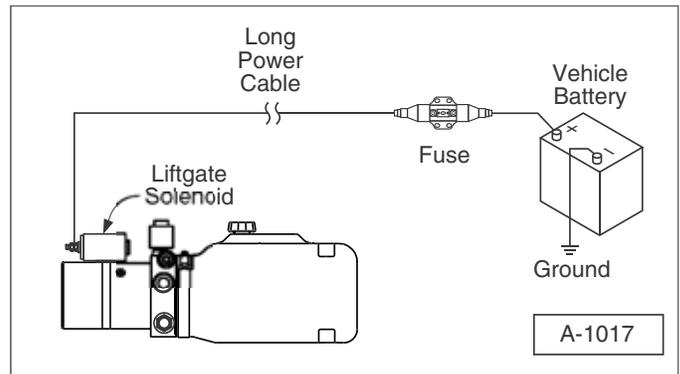
The liftgate must be properly grounded. A ground wire, the same gauge or larger as the liftgate power cable, must be connected from the negative post of the battery or batteries to the truck's frame. Some trucks may have a properly sized ground wire from the battery to the frame and would require no change. If, however, there is no ground wire or it is undersize, add the correctly sized ground wire.

If this Warning is not followed, damage to the truck chassis may occur. Improper grounding can cause the electrical current to travel through brake lines, steel braided power steering hoses, or other chassis wiring causing failure to these components! Failure of these components could result in loss of vehicle control.

4.8.1 Direct Battery Connection (not recommended)

NOTICE

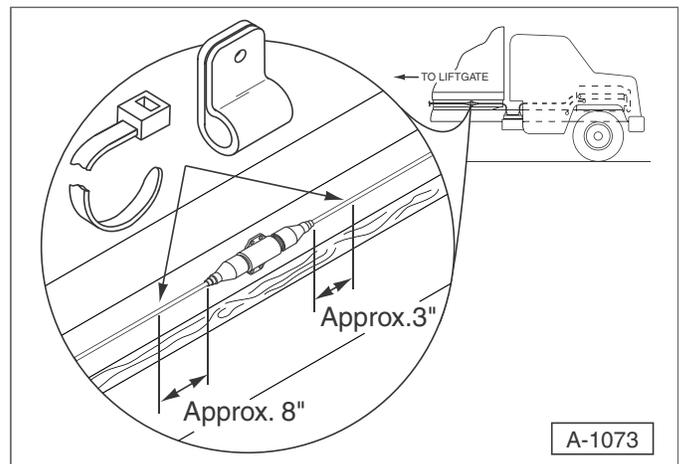
Using the standard wiring hookup is not recommended because it does not cut off power to the liftgate when the truck is left unattended. A cut-off switch or cut-off solenoid will disable the use of the liftgate when the truck is not in use.



Direct battery connection (not recommended).

1. Position the fuse assembly near the battery so the short cable end will reach the positive terminal.
2. Attach the fuse holder to the truck body long sill using either method shown in this step.

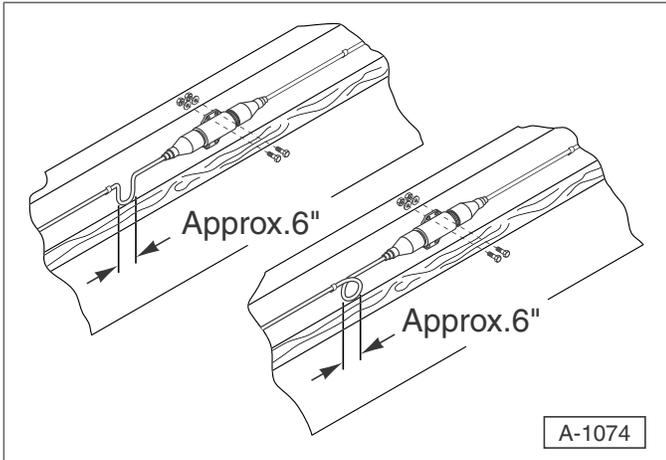
Method A



Fasten the power cable to the truck body. Locate one fastener (battery side) within 3 inches of the end of the fuse assembly. Locate the other fastener (power unit side) within 8 inches of the fuse assembly.

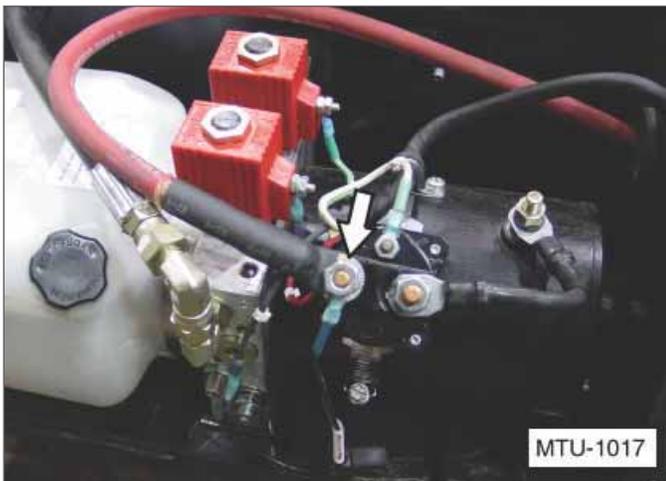
Using this method does not require the fuse assembly to be attached to the long sill.

Method B



Attach the fuse holder to the truck body long sill using #10 or #12 self-tapping screws or bolts, washers, and self-locking nuts. Fasten the power cable, as needed, to properly hold it in place. Using this method requires an extra length of cable on one side of the fuse assembly to permit removal of the fuse.

3. Run the long end of the power cable from the fuse to the motor solenoid. If the power cable is longer than required, cut it to the desired length and attach a cable lug according to instructions listed below.



Connect power cable to motor solenoid.

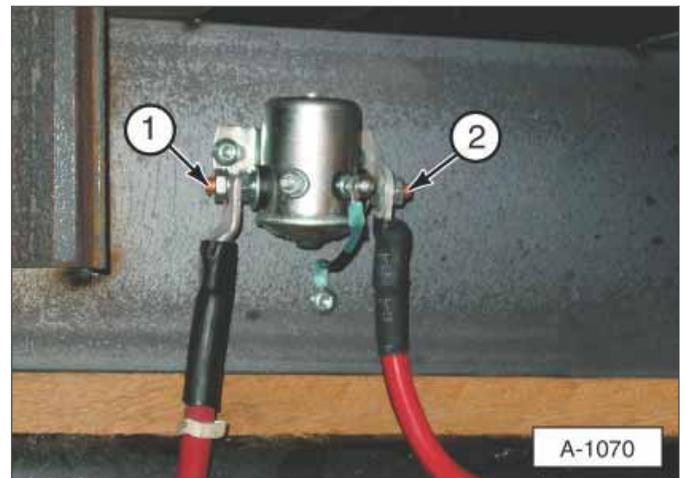
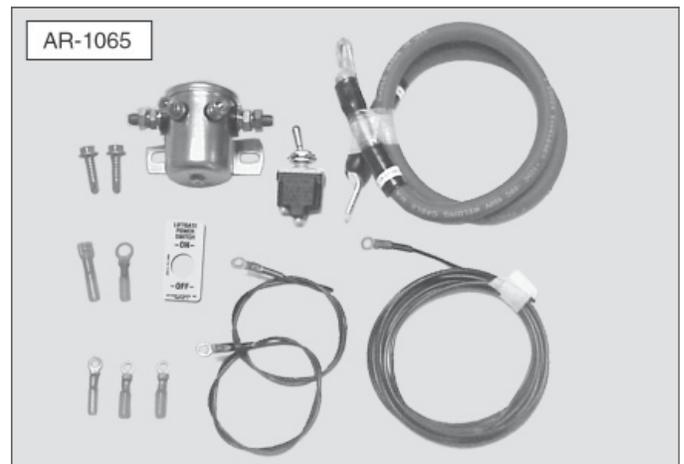
4. Connect the power cable to the motor solenoid. Make sure the power cable is connected to the correct motor solenoid post (one not connected to the motor housing with a metal strap or wire cable).
5. Connect the short end of the power cable to the positive post of the battery.
6. The power unit should now be operational.
7. Coat all terminal ends, studs, and nuts with a Teflon lubricant, grease, or other electrical connection sealant to prevent corrosion.

Note: Do not apply undercoating to power cable or fuse holder! The power cable should be clean near the fuse holder to ensure easy removal of the rubber boot seals if fuse needs to be replaced. For fuse replacement, see the instructions in the Maintenance section of this manual.

4.8.2 Cut-Off Solenoid Connection

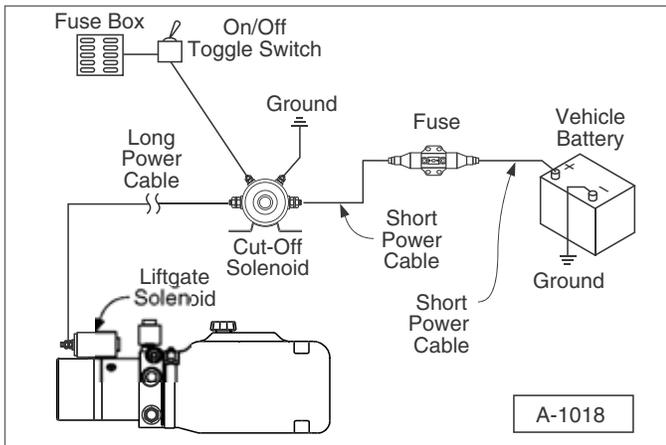
The installation of a cut-off solenoid is a recommended option, by Anthony Liftgates, for all 12 Volt electric liftgates. Installing a cut-off solenoid will help to prevent accidental or unauthorized use of the liftgate.

The optional A-133036 Cut-Off Solenoid Kit can be used in any truck, but is essential for tilt cab applications because it requires only a light weight wire running to the cab—not a large cable as required by the cut-off switch.



Cut-off solenoid installed between battery and fuse assembly. (1) Short cable, part of solenoid kit. (2) Short end of power cable leading to fuse.

Follow the installation directions on the Installation Instruction sheet that comes with the kit.



Wiring diagram with cut-off solenoid.

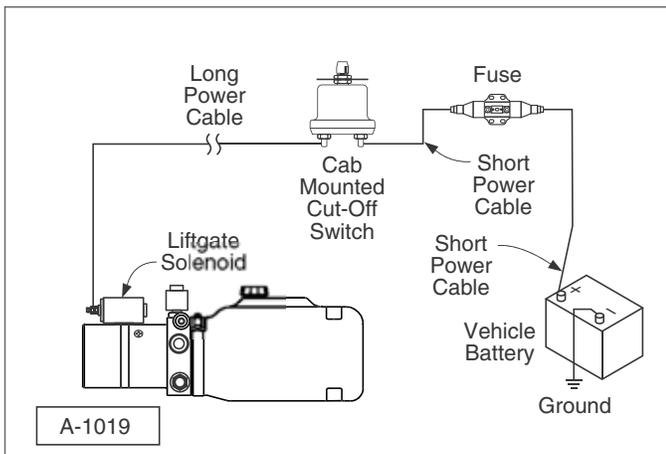
4.8.3 Cut-Off Switch Connection

The installation of a cut-off switch is also a recommended option, by Anthony Liftgates, for all 12 Volt electric liftgates. Installing a cut-off switch will help to prevent accidental or unauthorized use of the liftgate.

Follow the installation directions on the Installation Instruction sheet that comes with the kit.



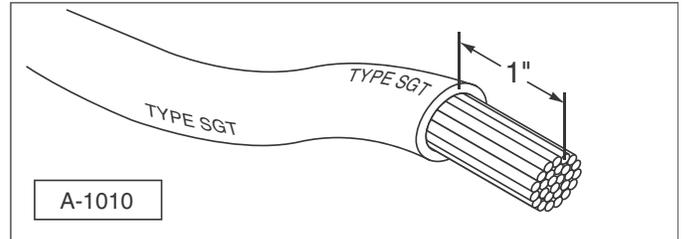
Cut-off switch mounted in cab of truck.



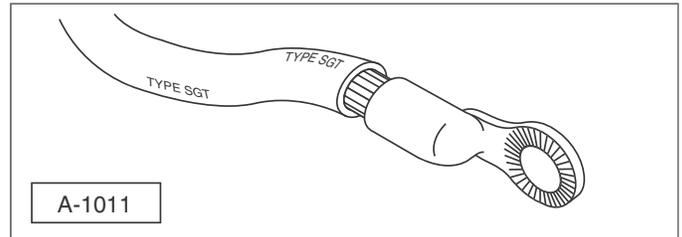
Wiring diagram with cab cut-off switch.

4.9 Cable Lug Installation

1. Strip insulation one inch back from the end of the cable to expose the copper wire.



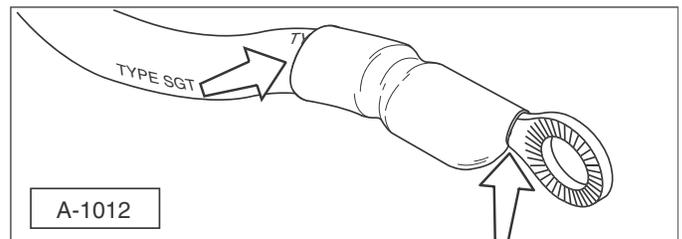
2. Position the cable lug on the exposed wire, as shown. Crimp the cable lug using a cable crimping tool (hydraulic or manual).



NOTICE

Proper wire connections are crucial to the life of the liftgate's power unit. DO NOT smash the cable lug with a hammer to secure it to the cable. Poor connections can result in low voltage, and any attempt to operate below the minimum required voltage could cause system failure.

3. Use the supplied heat shrink tube to insulate the new connection. Heat the shrink tubing using a heat gun or propane torch until it shrinks around the cable insulation and cable lug, leaving only the mounting hole exposed. Do not overheat the heat shrink tubing.



4.10 Final Inspection Checklist

WARNING

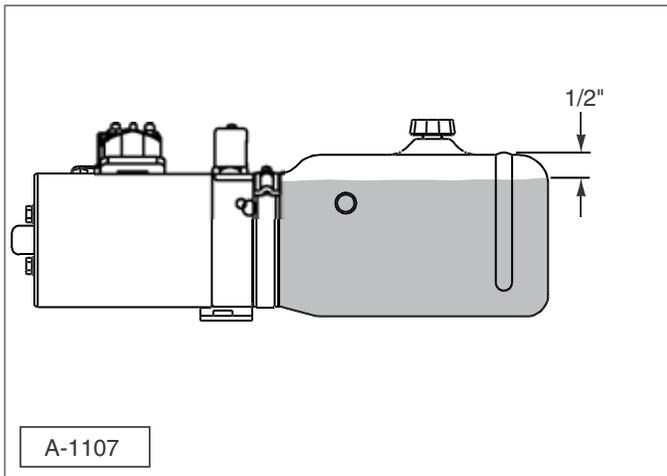


PERSONAL INJURY HAZARD

Do not use the liftgate if any of the items in the Final Inspection Checklist are not checked and verified. Personal injury may result. If you have any questions, contact your nearest Anthony distributor, or the Anthony Liftgates main office.

- Check all welds to make sure they are done properly.
- Make sure all pins are in place and held with proper retainers.
- Make sure the power unit reservoir is filled. The fluid level should be 1/2 inch from the top of the reservoir when the liftgate platform is on the ground.

Use only Dexron VI, Dexron III, or Hyken Glacial Blue hydraulic fluid. For cold weather operation, we recommend Hyken Glacial Blue.



NOTICE

Use only Dexron VI, Dexron III, or Hyken Glacial Blue hydraulic fluid in the power unit reservoir. DO NOT thin hydraulic fluid with brake fluid, and DO NOT use brake fluid in place of hydraulic fluid.

If an emergency situation occurs, any anti-wear hydraulic fluid can be used, but the system should be flushed and the fluid changed as soon as reasonably possible. Hydraulic fluids should not be mixed due to possible compatibility problems.

The recommended fluids are compatible and may be mixed, however, the cold weather operating characteristics of Hyken Glacial Blue will be adversely affected.

- Install the cover on the power unit box. Make sure it is secured with a padlock, lock pin, or wire (customer supplied).
- Operate the liftgate through its entire operational cycle (Up and Down) several times. Make sure the liftgate operates evenly, freely, and smoothly throughout the entire operating range and that there is no unusual noise or vibration while operating the liftgate.
- Make sure all decals are in place and legible.
- Make sure the license plate bracket is properly installed, as required by law.
- Make sure the truck and/or trailer meet all local, state, and federal regulations; including, but not limited to those required for bumpers, lighting, and reflectors.
- Make sure the optional cab cut-off switch or power cut-off solenoid is installed.
- Put the Installation, Operation, and Maintenance manual in the glove compartment of the vehicle.

5. Decals

5.1 Decal Locations

SAFETY INSTRUCTIONS



To prevent personal injury from not being aware of safety recommendations, make sure all decals are attached to the liftgate and/or truck and are legible at all times!

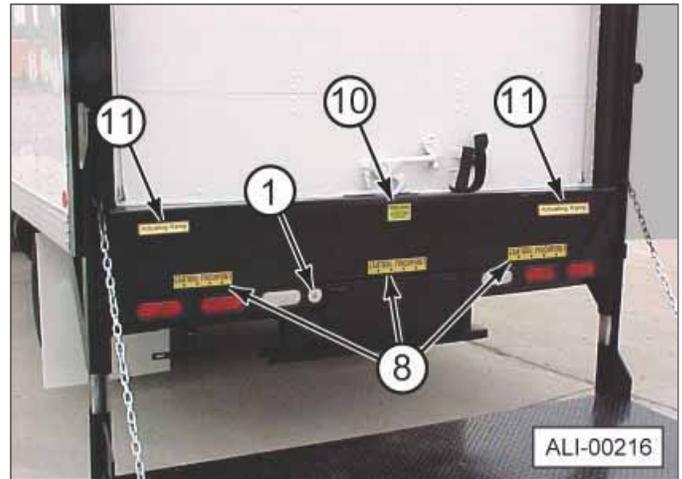
Safety decals provide a vital role in helping to reduce injuries and/or possibly even death. To ensure the greatest level of safety, all decals must be in place and legible at all times. Remember, it is the users responsibility to maintain these decals. For a complete part number list and illustration of the decals used on the Power Close Rail liftgate, refer to the online Parts manual.

For replacement decals contact:

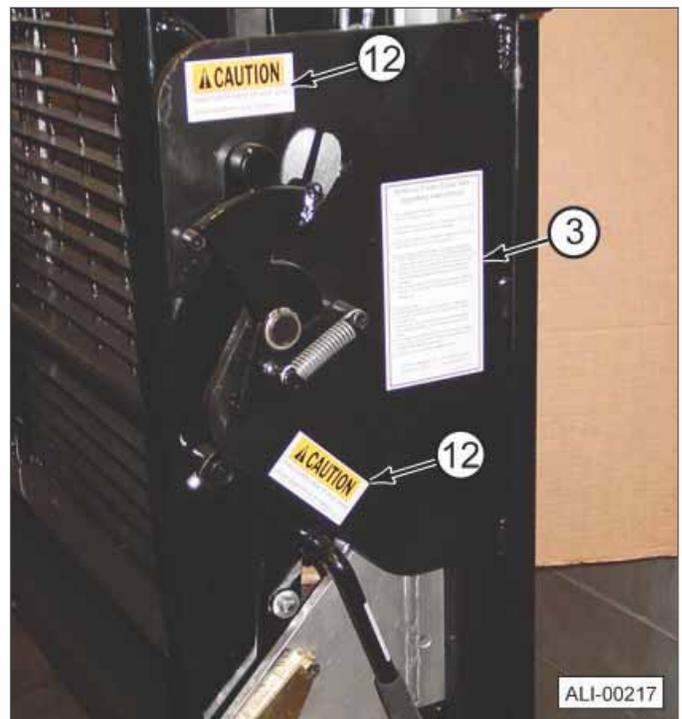
Anthony Liftgates, Inc.
1037 West Howard Street
Pontiac, Illinois 61764
(815) 842-3383 or 800-482-0003
Web: www.anthonyliftgates.com
Email: Sales@anthonyliftgates.com



2. Maximum Capacity Decal
4. Urgent Warning Decal (Q-003013)
5. After Using Liftgate Decal (ATU-141)
6. Notice Decal (A-150238)
7. Lift Chain—Inspect, Lubricate, and Replace (A-171448)
9. Anthony Hydraulic Liftgate Label (998420)-**Factory Installed-**



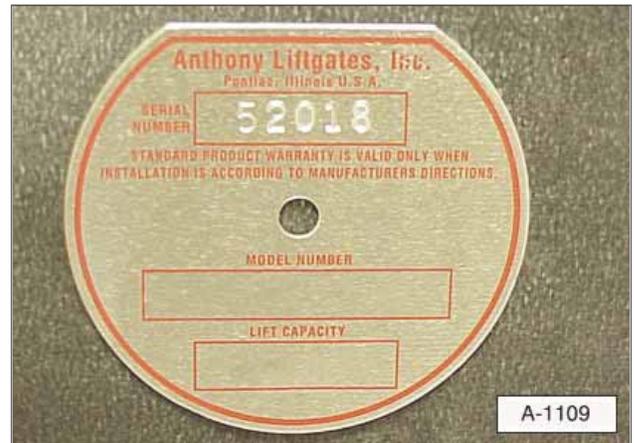
1. Identification Plate
8. Caution: Pinchpoint (AR-18-76)
10. Stand Clear Do Not Ride On Lift (ATU-146)
11. Actuating Ramp (A-131079)-**Factory Installed-**



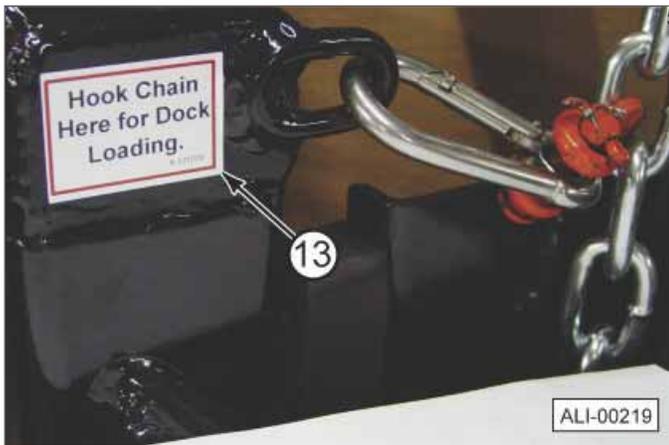
3. Anthony Power Close Rail Operating Instructions (A-131076)-**Factory Installed-**
12. Keep Hands Clear of Latch (A-131067)-**Factory Installed-**

5.2 Decal Illustrations

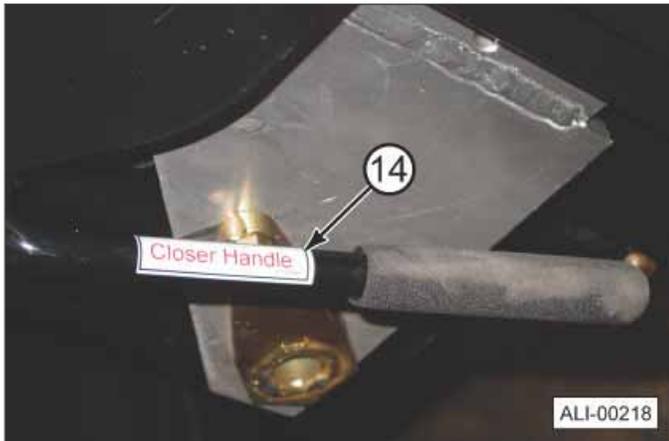
1.



2.



13. Hook Chain Here for Dock Loading (A-131078) -Factory Installed-



14. Closer Handle (A-131080) -Factory Installed-

Item	Part no.	Description
1	—	Identification Plate
2	ATU-175	1800 lbs. Maximum Capacity Decal
	ATU-174	2500 lbs. Maximum Capacity Decal
	ATU-147	3000 lbs. Maximum Capacity Decal
3	A-131076*	Power Close Rail Operating Instructions
4	Q-003013	Urgent Warning Decal
5	ATU-141	After Using Liftgate Decal
6	A-150238	Electrical Overload Decal
7	A-171448	Lift chain - Inspect, Lubricate, Decal
8	AR-18-76	Caution: PinchPoint Decal
9	A-131034*	Anthony Hydraulic Liftgate Label
10	ATU-146	Stand Clear Do Not Ride On Lift Decal
11	A-131079*	Actuating Ramp
12	A-131067*	Keep Hands Clear of Latch
13	A-131078*	Hook Chain Here for Dock Loading
14	A-131080*	Closer Handle
15	A-131036**	Liftgate Fuse Changing Procedure Decal

* Factory Installed

** This decal is attached, at the factory, to the power cable/fuse assembly.

Note: Items 3, 11, 12, 13, and 14 are supplied as a decal kit, part no. A-131088.

CAUTION

Make sure the proper “maximum capacity” decal goes on the appropriate liftgate. For example, the “1800 Maximum Capacity” decal goes on AR-1800 models only. Do not put a higher rated decal (2500 pound) on a smaller liftgate (model 1800); this could result in liftgate damage or possibly personal injury.

1800 lb. - ATU-175
2500 lb. - ATU-174
3000 lb. - ATU-147

3. **Anthony Power Close Rail Operating Instructions**

1. Disengage the latches, one on the street side and one on curbside of gate.
2. Press the "down" switch to lower and unfold the platform. It will automatically unfold.
3. Once the platform is unfolded operate the lift up and down using the control switch.
4. **To fold the platform to the "in transit" position:**
 - a.) With platform and closer arms below actuating ramp, push the closer arm handle down and hold.
 - b.) While holding the handle down, press the "up" control switch to raise and fold the platform.
 - c.) When platform begins closing, let go of latch handle.
 - d.) Continue raising the platform until the platform stops. The platform will automatically latch for traveling.
5. **To Dock Load**
 - a.) Disengage latches on both sides of the gate.
 - b.) Connect the (2) chains to rings on both sides of platform.
 - c.) Press the "down" switch to lower the platform in a vertical position until it is below the truck floor.
 - d.) To return the platform to the "in transit" position, press the "up" switch, raising the platform until it stops and latches engage.
 - e.) Unhook chain link from platform rings.

Anthony Liftgates, Inc. 1037 W. Howard St.
Pontiac, IL. 61764 (815) 842-3383
#A-131076

5. **AFTER USING LIFTGATE, SECURE LATCH AND, IF EQUIPPED WITH POWER CUT OFF SWITCH, TURN OFF POWER TO PREVENT UNAUTHORIZED USE OF LIFTGATE.**

ATU-141 03/2008

6. **NOTICE**

THIS LIFTGATE IS PROTECTED WITH AN ELECTRICAL OVERLOAD CIRCUIT BREAKER, LOCATED NEAR THE POWER SUPPLY.

A-150238 03/2008

4. **WARNING**

ELEVATING GATE INSTRUCTIONS
Before Operating Lift, Be Sure You Understand the Following.

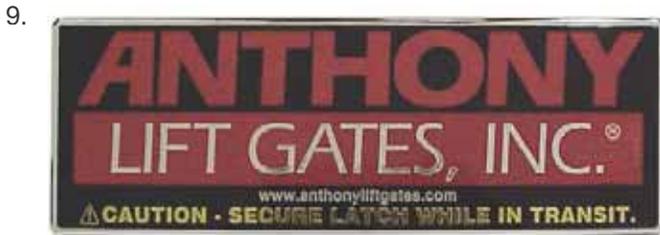
1. Improper operation of this lift can result in serious personal injury. Do not operate unless you have been properly instructed and have read and are familiar with the operating instructions. If you do not have a copy of the instructions, please obtain them from your employer, distributor, or lessor, as appropriate, before you attempt to operate the lift.
2. Be certain the vehicle is properly and securely braked before using the lift.
3. Always inspect this lift for maintenance or damage before using it. If there are signs of improper maintenance, damage to vital parts, or slippery platform surface, do not use the lift. Do not attempt your own repairs, unless you are specifically trained.
4. Do not overload. See Mfg. Literature and/or Rating Label on the unit for the rated load. Remember that this limit applies to both raising and lowering operations.
5. Each load should be placed in a stable position within the edges of the platform as near as possible to the center of the platform side to side, and as close to the truck sill as possible.
6. Never stand in or move through or allow anyone else to stand in or move through the area in which the lift may operate or into which an upset load might fall.
7. This is not a passenger lift. This liftgate is intended for loading and unloading of cargo only. Do not use this liftgate for anything but its intended use.

Anthony Liftgate, Inc.
Q-003013 03/2008

7. **WARNING**

INSPECT, LUBRICATE AND REPLACE LIFTGATE DRIVE CHAIN ACCORDING TO MANUFACTURERS RECOMMENDATIONS. FAILURE TO FOLLOW THESE MANUFACTURERS RECOMMENDATIONS MAY RESULT IN SERIOUS BODILY INJURY. FOR INFORMATION CONTACT YOUR NEAREST ANTHONY LIFTGATE DISTRIBUTER OR ANTHONY LIFTGATES, INC., PONTIAC, IL. 61764

171448



Note: This decal is attached, at the factory, to the power cable/fuse assembly.

6. Operation Section

6.1 General Operating Safety

The following is a list of Do's and Don'ts for the operation of the liftgate.

✓ Do's

- ✓ Read and follow warning decals, operating decals, and owners manual(s).
- ✓ Keep all decals in place and legible and retain the owner's manual in the vehicle or all Warranties are void.
- ✓ Make sure the vehicle is properly and securely braked before using the liftgate.
- ✓ Keep yourself clear of all moving parts.
- ✓ Make sure the area in which the platform will travel is clear before opening, closing, raising, or lowering the platform.
- ✓ Make sure the platform area, including the area in which loads may fall from the platform, is clear before, during, and at all times while operating the liftgate.
- ✓ Always place the load as close to the center of the platform as possible. Also, position the load as close to the center of the truck's rear sill as possible.
- ✓ Make sure the slide runners move smoothly inside the H-frame rails with no unusual noise or vibration.
- ✓ Only operate the liftgate with the Up/Down control mounted on the H-frame rail or using an optional, hand-held remote control.
- ✓ Check the oil level in the hydraulic tank monthly. Change the oil with Dexron VI, Dexron III, or Hyken Glacial Blue hydraulic fluid if it is contaminated or dirty. For cold weather operation, we recommend Hyken Glacial Blue.
- ✓ Visually inspect the liftgate frequently and keep it properly adjusted.
- ✓ Visually inspect the lift chains and replace them if signs of wear or damage are present.
- ✓ Repair any damage to the liftgate to prevent accidents.
- ✓ Place the liftgate into the storage position with the platform latch pins in the latch brackets (TRAVELING position) when the liftgate is not in use.

✗ Don'ts

- ✗ Do not overload the platform. The maximum rated capacity is based on an evenly distributed load on the platform's flat surface.
- ✗ Do not ride on the liftgate. Always stand clear of the liftgate when it is operating.
- ✗ Do not allow children to play around or operate the liftgate.
- ✗ Do not allow your liftgate to be used by persons not familiar with its operation.
- ✗ Do not use your liftgate if it shows signs of abuse or fails to operate freely and smoothly.
- ✗ Do not allow the motor/pump to run after the liftgate is fully raised and has stopped moving.
- ✗ Do not use brake fluid in the hydraulic reservoir.
- ✗ Do not bounce the platform by pushing and releasing the control button/switch abruptly.
- ✗ Do not use the liftgate for anything other than its intended use of loading and unloading cargo.
- ✗ Do not operate lift trucks on or over any part of the platform.
- ✗ Do not stand under or place any object under the liftgate work area.
- ✗ Do not operate the liftgate with the housing cover removed.
- ✗ Do not drive the truck unless the liftgate is in the stored position and the latch pins are secured inside the latch brackets (TRAVELING position).

6.2 Operating Instructions

6.2.1 Power Close Rail

1. Disengage the latches, one on the street side and one on the curb side of the liftgate.
2. Press the “Down” switch to lower and unfold the platform. It will automatically unfold.
3. Once the platform is unfolded, operate the lift up and down using the control switch.
4. **To fold the platform to the “In Transit” position:**
 - a. With platform and closer arms below the actuating ramp, push the closer arm handle down and hold.
 - b. While holding the handle down, press the “Up” control switch to raise and fold the platform.
 - c. When the platform begins closing, let go of the latch handle.
 - d. Continue raising the platform until the platform stops. The platform will automatically latch for traveling.
5. **To Dock Load:**
 - a. Disengage the latches on both sides of the gate.
 - b. Connect the two chains to rings on both sides of the platform.
 - c. Press the “Down” switch to lower the platform in a vertical position until it is below the truck floor.
 - d. To return the platform to the “In Transit” position, press the “Up” switch, raising the platform until it stops and the latches engage.
 - e. Unhook the chain links from the platform rings.

7. Maintenance Section

WARNING



To prevent serious bodily injury, keep sparks, lighted matches, and open flames away from the top of the battery, because battery gas can explode. Always follow all the manufacturers' safety recommendations when working around the truck's battery.



Take precautions to avoid sparks coming into contact with the truck's fuel tank, brake lines, or other flammable components. Sparks can cause an explosion of combustible materials, resulting in serious injury or death.



Never secure the power cable to anything which allows it to contact sharp edges, other wiring, fuel tank, fuel lines, brake lines, air lines, exhaust system, or any other object that could cause the power cable to wear or be damaged. A cut battery cable can cause sparks resulting in loss of vehicle control, serious injury, or even death.



Always weld in a well ventilated area and, if in an enclosed area, vent the fumes to the outside. Breathing welding smoke and paint fumes can cause serious injury.



Always follow all State and Federal health and safety laws and/or local regulations when using an arc welder, mig welder, or cutting torch. Also, follow all manufacturer's safety guidelines. If other people are present during the installation of the liftgate, make sure the welding area is shielded from their view.



To avoid eye injury during welding, always wear a welding helmet with the proper lens to protect your eyes.



To prevent personal injury, clean up any spilled fluids immediately. To avoid tripping, do not leave tools or components laying around in the work area.

7.1 Monthly Inspection

The following inspection and maintenance operations should be performed at the recommended intervals or at any time the unit shows signs of abuse, and/or improper or abnormal operation. Adherence to these guidelines will help ensure the maximum operator safety and satisfaction with your Anthony Liftgate through preventive maintenance.

1. Make sure the liftgate operates freely and smoothly throughout its entire range of movement. Make sure there is no unusual noise or vibration during operation and that the slide runners move smoothly and evenly in the H-frame rails.
2. Check for damage to the liftgate such as bent or distorted slide runners, or any cracked weld which may have resulted from overload or abuse. Check for excessively worn parts such as the lift chains, or platform support chains. Replace bushings and pins if worn.
3. Check for excessive wear or damage in the following areas:
 - a. All bearings, pins, and sprockets. Bearings inside of sprockets should be checked for wear and replaced if worn.
 - b. Slide runners.
 - c. Platform retainer.
 - d. Platform hinge.
4. Check the platform chains, make sure they are in good shape and the ends are connected properly. Check the special clip link for dock load operation.
5. Inspect the entire length of both internal lift chains and replace them if they show any damage or wear beyond the tolerance specifications. Refer to the Lift Chain Inspection section to determine if the chain requires replacement. Replace only with Anthony approved chains.
6. Check all connecting links in the lift chain to make sure they are properly secured with cotter pins.
7. Make sure the platform is level when raised to bed height.
8. Inspect the platform latches and latch brackets for cracks or damage. Make sure the platform locks securely in place for transit.
9. Make sure all electrical wires, switches, and connections are in good working condition and operate properly.
10. Check for oil leaks in these areas:
 - a. Hydraulic lift cylinder.
 - b. Hydraulic hoses. Replace if they show signs of leakage or excessive abrasion of the covering.
 - c. Check all hydraulic fittings for damage or leaks. Tighten fittings to stop leaks or replace if damaged.

11. Check the power unit reservoir oil level.
 - a. With the platform on the ground, the oil level should be within 1/2 inch of the top of the reservoir.
 - b. Fill the tank as required with Dexron VI, Dexron III ATF hydraulic oil or Hyken Glacial Blue. For cold weather operation, we recommend Hyken Glacial Blue. Do not use brake fluid.

NOTICE

Use only Dexron VI, Dexron III, or Hyken Glacial Blue hydraulic fluid in the power unit reservoir. DO NOT thin hydraulic fluid with brake fluid, and DO NOT use brake fluid in place of hydraulic fluid.

If an emergency situation occurs, any anti-wear hydraulic fluid can be used, but the system should be flushed and the fluid changed as soon as reasonably possible. Hydraulic fluids should not be mixed due to possible compatibility problems.

The recommended fluids are compatible and may be mixed, however, the cold weather operating characteristics of Hyken Glacial Blue will be adversely affected.

12. Use a 30W motor oil to lubricate the following areas.
 - a. Oil inside of the housing where the sprocket shoe travels when the hydraulic cylinder moves.
 - b. Completely oil the inside of the entire length of both H-frame rails. This helps to prevent oxidation on inside column surfaces.
 - c. Oil the entire length of both the lift chains. This includes all chain inside the H-frame rails, cylinder housing, and rails.
 - d. Oil the platform hinge points.
 - e. The sprocket bearings are self lubricating and do not need to be lubricated.
 - f. Lubricate the closer arms and the closer arm handle pivot.
13. Check the fluid level of the vehicle battery. Fill as required.
14. Examine all Warning, Capacity, and Operational Decals. If they are not readable, they should be replaced. Decals may be obtained from Anthony Liftgates, Inc.

7.2 Semi-Annual Inspection

In addition to the items requiring monthly inspection, also inspect the condition of the hydraulic fluid..

1. If the oil in the hydraulic tank is dirty, drain the oil and flush the entire system. Refill the system with the recommended oil outlined in Step 11 of the "Monthly Inspection" section.

7.3 Lift Chains

The following section covers the maintenance and repair of the PCR lift chains. Make sure you read and follow all the recommendations and safety issues before working on or adjusting the lift chain.

! WARNING



CRUSH HAZARD

Lift chains will break if misused or abused.

NEVER splice lift chains. Always replace the entire length of both lift chains in the event of breakage, damage, or wear.

DO NOT use spring clips to retain the chain link plates when making chain end connections. Use only the recommended cotter pins, described in this section.



You may be seriously injured if you attempt to install lift chains on equipment when it is connected to a power source. Before attempting installation, place the platform on the ground and shut OFF the power.

7.3.1 Master Link Replacement

Do not use a master link with a spring retaining clip. Only use Anthony approved master links.

7.3.2 Cotter Pin Replacement

The cotter pins used in lift chain master links are special cotter pins which are heat-treated and formed to remain under compression. This will minimize movement in the pin hole when inserted into the master link. After insertion, the prongs should not be spread more than a 90 degree included angle. **The cotter pins are hardened for high retention life, and should not be reused once removed.**

NOTICE

Do not use ordinary commercial cotter pins in the RailTrac lift chain master links because they will not provide equal service.

7.3.3 Sprocket Replacement

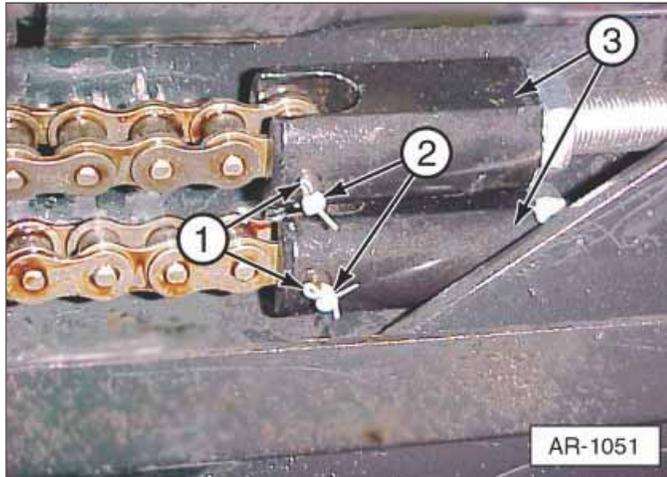
When a lift chain becomes worn and needs replacement, inspect the sprockets for worn, hooked, or deformed teeth. Running a new chain on worn sprockets can lead to shortened chain life and chain failure.

Do not run old chain on new sprockets. A good fit between the lift chain and sprocket is essential for a smooth running liftgate.

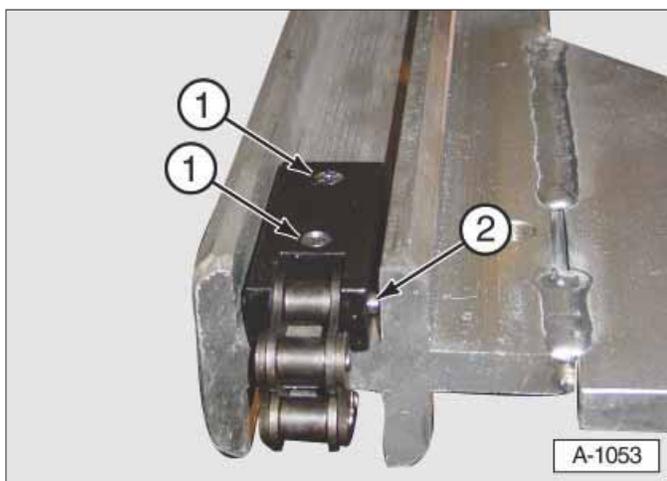
7.3.4 Lift Chain Replacement

If a lift chain breaks or needs replacing, replace the complete length of chain. **Do Not** splice in new sections to old sections. We also recommend replacing both lift chains and all sprockets at the same time. Do not run one old lift chain and one new lift chain as undue wear on the new chain will occur.

1. Lower the platform to the ground.
2. Disconnect power to the liftgate.
3. Remove the housing cover.
4. Remove cotter pins (1) from chain anchor pins (2). Remove the chain anchor pins from chain anchors (3) and remove both chains.



5. Remove the chain from the bottom of the slide runner.
 - a. Remove two bolts (1) holding the chain anchor to the slide rail.
 - b. The connecting pin (2) can be removed once the chain anchor is unbolted.



Chain anchor on slide runner.

6. Determine the length of the old chain by counting the number of links. Measuring the chain does not accurately determine the length of the chain because of elongation (stretching) of the old chain.

7. On above bed lifts, if necessary, cut the new chain to the same length (same number of links) as the old chain.
8. Reattach the new chain to both chain anchors. Only use new master links and cotter pins.

NOTICE

Do not re-use cotter pins and do not use a master link with a spring retaining clip. Only use Anthony approved cotter pins and master links.

WARNING



Never work under a liftgate in the raised position. Make all lift chain adjustments with the platform on the ground or with wooden blocks under each corner. Serious injury or death can result if this action is not followed.

7.3.5 Lift Chain Lubrication

The most important consideration in field maintenance of lift chains is **lubrication**.

Maintaining an oil film on all chain surfaces will:

- Minimize joint wear (chain stretch).
- Prevent corrosion.
- Reduce the possibility of pin turning.
- Minimize tight joints.
- Promote smooth, quiet chain action.
- Lower chain tension by reducing internal friction in the chain system.

Properly lubricated lift chain joints may acquire a "paste-like" build-up, made of oil and dirt, but joint wear will still be much less than if the chain is allowed to run dry with metal-to-metal contact.

30W motor oil is an excellent chain lubricant. Generally, the heaviest (highest viscosity) oil that will penetrate the joint is the best. Apply oil to chains with a paint brush, flooding the entire length of chain every inspection period.

7.3.6 Cleaning Lift Chains

Only use kerosene or mineral spirits to clean the lift chain.

NEVER USE GASOLINE OR OTHER HIGHLY VOLATILE SOLVENTS. Reoil the chain with motorcycle chain lube after cleaning.

7.3.7 Lift Chain Inspection

After each 90 days of operation (more often in hostile environments), the lift chains should be inspected and lubricated. The inspection should focus on the following:

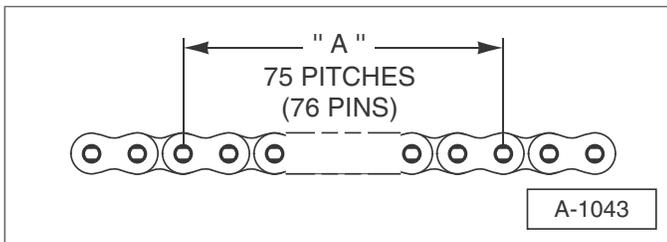
Elongation



CRUSH HAZARD Do not repair lift chains by splicing new links or new sections of chain into used sections of chain. This will cause uneven loads and undue wear resulting in lift chain failure. Both lift chains must be replaced at the same time.

When a length of chain has elongated from wear more than 2% of the pitch, it should be discarded and replaced.

Elongation (A) of the lift chains may be checked by measuring a length of chain. Measure 75 pitches of the chain, or from the center of one pin to the center of the 76th pin. This length should be less than dimension "A" in the Chain Elongation chart. If the dimension is greater than the chart value, replace both chains.

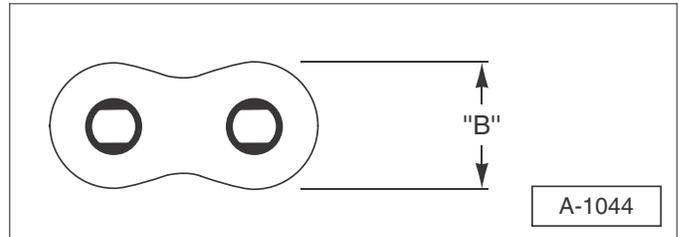


Chain Elongation		
Model	Chain Pitch	Dimension "A"
1800 lb. capacity	5/8	47 13/16
2500 lb. capacity	3/4	57 3/8
3000 lb. capacity	5/8	47 13/16

Note: Measure a section of lift chain that flexes over a sprocket, because this area will be worn the most. Make all measurements with the platform on the ground so there is no load on the lift chain.

Edge Wear

Check the lift chain for wear on the link plate edges (B) caused by running back and forth over the sheaves. Measure the height (or depth) of the chain link (using a micrometer or calipers) in an area that runs over a sheave. Compare the result to Dimension "B" in the Edge Wear chart. If the chain measures less than the specified dimension, replace the chains.



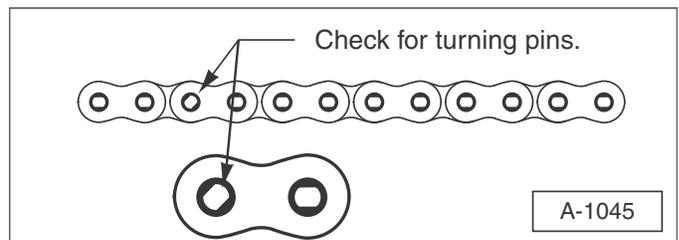
Edge Wear		
Model	Chain Pitch	Dimension "B"
1800 lb. capacity	5/8	N/A
2500 lb. capacity	3/4	N/A
3000 lb. capacity	5/8	0.564"

Protruding or Turning Pins

The pin head rivets in the lift chain should be examined to determine if the flats of the V-heads are still in correct alignment.

Highly loaded chain, operating with inadequate lubrication, can cause forces that result in pin rotation. When the chain is allowed to operate in this condition, a pin(s) can begin to twist out of a chain link, resulting in failure.

Chain with rotated or displaced heads and/or abnormal pin protrusion should be replaced immediately. Turned pins occur in the areas of the chain that ride over sheaves, so inspect these areas carefully. Any wear pattern on the pin heads or sides of the link plates indicates misalignment in the system. This condition damages the chain and should be corrected.



Cracked Link Plates

If any crack is discovered in the chain link plates, the chain should be completely replaced.

Chain Anchors and Sheaves/Sprockets

An inspection of the chain system also includes a close examination of chain anchors and sheaves. Make certain all fasteners are in place and secure.

Check chain anchors for wear, breakage, and cracks. Anchors with worn, broken, or cracked fingers should be replaced.

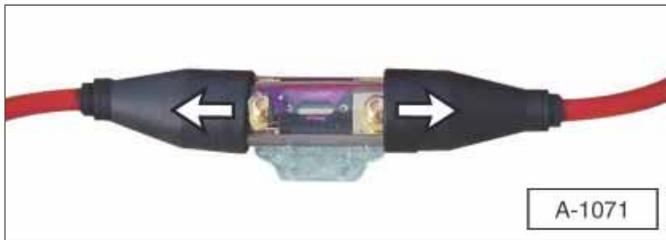
Sheaves/sprockets with badly worn flanges and outside diameters should be replaced. Bearings within the sheaves can be replaced separately. If replaced, the bearing should be staked and/or held in place with Loctite.

7.4 Replacing the Fuse

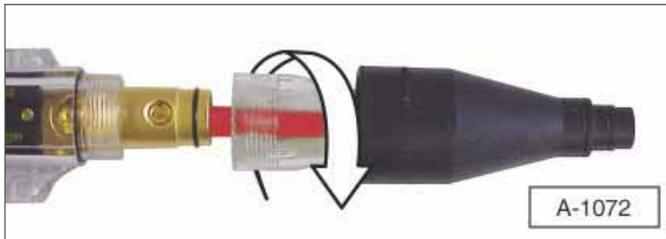
SAFETY INSTRUCTIONS

To avoid injury, disconnect the liftgates power from the battery(ies) before replacing the fuse, or before disassembling the fuse holder. Ignoring this warning can cause an electrical "arc", resulting in personal injury or property damage.

1. Pull back the rubber boots from the fuse holder.

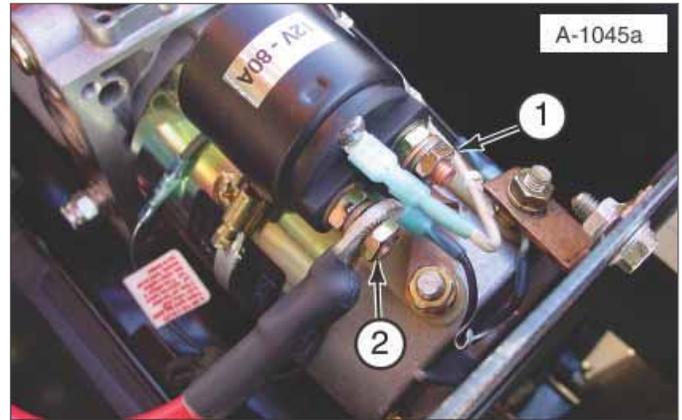


2. Unscrew the fuse holder ends from the fuse holder body and pull it apart.

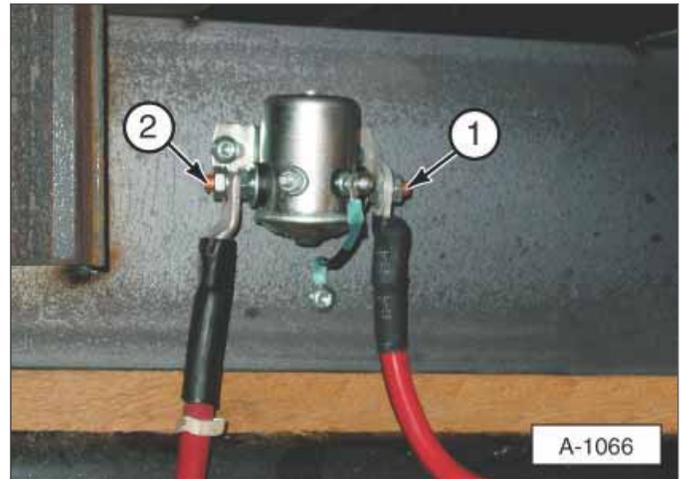


3. Slide the fuse holder body one direction (left or right) to expose the blown fuse.
4. Loosen the screws from each end of the fuse and remove it. Replace the fuse with the same size (Amperage) fuse as the one removed. If you are unsure of the replacement fuse amperage, contact Anthony for your specific size fuse. Retighten the screws.
5. Reassemble the fuse in reverse order. Be sure the rubber boots are sealed around the fuse holder and cable.
6. Reconnect power after you are certain liftgate area is clear.

7.5 Checking Motor Start Solenoid and Power Cut-off Solenoid



Motor start solenoid.



Power cut-off solenoid.

Both the motor start solenoid and power cut-off solenoid can be checked by bypassing the solenoid itself.

1. Use jumper cables for this test.
2. Connect one jumper cable to battery side (2) of the solenoid. Connect the other cable to motor side (1) of the solenoid.
3. If the liftgate is activated, the solenoid is bad and should be replaced.

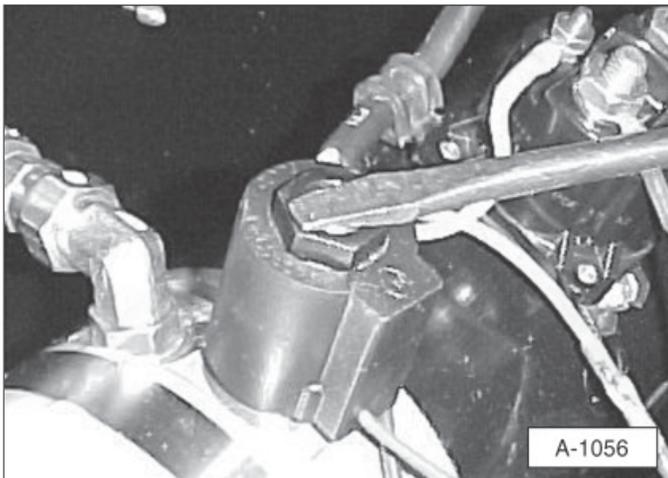
7.6 Testing Power Cables

To test the continuity of power cables, connect a voltage meter between the power cable and a ground on the vehicle.

1. Attach the positive clip of the voltage meter to the power cable on the motor start solenoid.
2. Attach the negative clip of the voltage meter to a ground on the chassis of the vehicle.
3. The voltage reading should indicate a minimum of 12 Volts.
4. If the voltage meter indicates less than 12 Volts, check the following:
 - a. Make sure power to the liftgate is turned ON.
 - b. Make sure all connections are clean and tightly connected.
 - c. Make sure the power source (battery) is fully charged and operational.
5. If the Voltage is still below 12 Volts, replace the power cable.

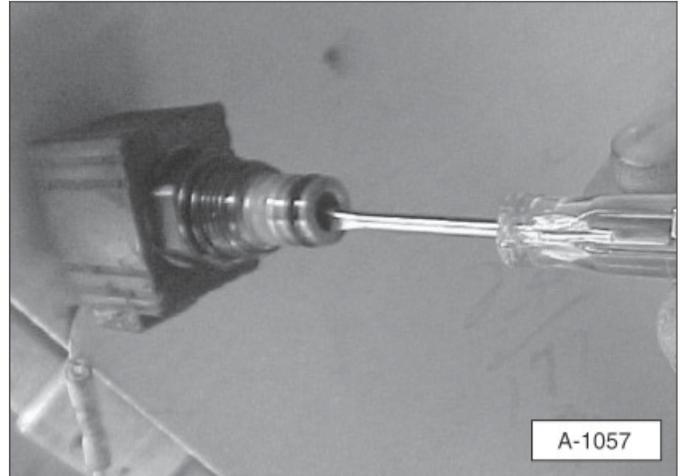
7.7 Checking Lowering Valve Cartridge and Coil

1. Place the platform on the ground in the open position.
2. Place a steel screwdriver over the top of the lowering valve cartridge coil.



3. Momentarily activate the control switch in the DOWN position. The screwdriver should be attracted to the magnetic field created by the coil.
4. If no magnetic pull is produced, the coil is bad and should be replaced. If the coil is good, check the lowering valve cartridge.
5. Remove the coil from the lowering valve cartridge assembly.
6. Remove the lowering valve cartridge from the pump body.

7. Clean the lowering valve cartridge and blow it dry with compressed air (not greater than 30 psi). Also, blow out the pump body.
8. Use a small screwdriver and carefully press on the poppet inside the lowering valve cartridge. The poppet is spring loaded and should move when it is pressed. If the poppet does not move, then the lowering valve cartridge should be replaced.



Push poppet to check for free movement.

7.8 Checking Cylinder Piston Seals (drifting - caused by seal leakage)

1. Remove the breather hose (if so equipped.)
2. Raise the platform all the way up and hold the switch in the "ON" position while checking for oil coming out of the breather port to the cylinder.
3. If a continuous flow of oil comes out of this port (while the platform is all the way up and the switch is held "ON"), then the piston seals are leaking and the cylinder should be replaced.

7.9 Checking System Pressure

For PCR Liftgates, there is only one relief valve.

To check the pressure setting:

1. Place the platform on the ground and remove the pressure hose from the port on the pump.
2. Install a tee (customer supplied) into the port.

! WARNING



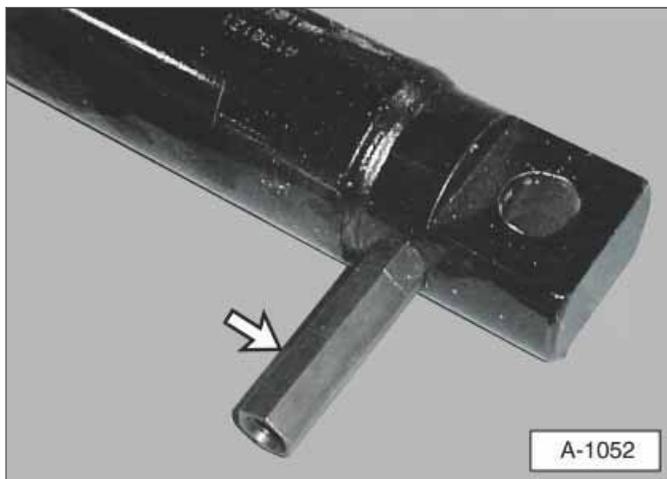
CRUSH HAZARD
Do not stand or work in the platform's work area while operating the liftgate. Place the pressure gauge so it can be read while operating the liftgate from a safe location. Serious injury or death could result if this action is not followed.

3. Connect a pressure gauge to the tee (with a capacity rating of 4000 psi or above) and reconnect the hydraulic hose. The pressure gauge should be connected to a hose that allows the mechanic to read the gauge without being under the platform.
4. Raise the platform and check the pressure. A low pressure threshold is listed for each model in the following chart.

Low Pressure Threshold Chart	
Model	Low Pressure Threshold
1800 lb. capacity	2300 psi
2500 lb. capacity	3000 psi
3000 lb. capacity	3000 psi

5. If the appropriate pressure is not reached, replace the pump.

7.10 Flow Control Valve



Flow control valve.

WARNING



CRUSH HAZARD

Do not operate the liftgate without the flow control valve because the platform may lower too rapidly under heavier loads.

Serious injury or death could result if this action is not followed.

The flow control valve is designed to keep the liftgate from lowering too rapidly under a heavier load.

1. Test the flow control valve by comparing the lowering speed with and without a load.
2. If the lowering speed varies by more than 10 percent:
 - a. Clean the H-frame rails and slide runners.
 - b. Replace the flow control valve and run the test again.

Note: The lowering speed of the liftgate can be affected by dirt and debris in the H-frame rails and slide runners.

7.11 Checking the Control Switch

The control switch, shown in the photo, is permanently sealed (potted) and cannot be checked. If this switch is not working properly, replace it.



CAUTION



CRUSH HAZARD

Stand clear of the liftgate when checking the control switch. It is possible for the liftgate to activate when testing the switch, which could lead to personal injury.

8. Troubleshooting Section

Problem	Possible Causes	Possible Solution
Motor does not run when control switch is activated.	Cab cut-off switch.	Turn switch to ON position.
	Dead or low battery.	Make sure battery is fully charged. Check for loose or corroded battery connections. Replace or recharge battery.
	Main power cable circuit protection tripped or blown.	Replace fuse or reset breaker. See "7.4 Replacing the Fuse" on page 37.
	Control cord fuse (10 Amp) inside power unit box is blown.	Replace, if fuse is blown. If problem continues, check for shorts in the electrical system.
	Defective control box switch.	Check switch, replace if defective. See "7.11 Checking the Control Switch" on page 39.
	Motor start coil.	Check coil. See "7.5 Checking Motor Start Solenoid and Power Cut-off Solenoid" on page 37. Replace if defective.
	Power cut-off solenoid, if so equipped.	Check coil. See "7.5 Checking Motor Start Solenoid and Power Cut-off Solenoid" on page 37. Replace if defective.
	Defective power cable.	Check power cable for continuity. See "7.6 Testing Power Cables" on page 38.
	Defective motor.	If the motor is determined to be bad, it should be replaced. Bad motors are often caused by loose connections, corrosion, a poor ground, or low voltage (which is a result of weak batteries).
		If liftgate is installed on a semitrailer, make sure the power cable leading to the battery is two gauge or heavier. Smaller wires can reduce the voltage, resulting in motor failures.
	If the motor does not operate in freezing conditions, make sure the motor housing does not contain water.	
Platform raises slowly, sticks, or shakes.	Dirty or worn lift chain and sprockets.	Clean and oil all parts. Replace chain, sprockets, or sprocket bearings, if necessary.
Motor runs, but liftgate will not lower to the ground.	Structural damage. Check lift chains, sprockets, and slides.	Fix damage. Replace worn parts.
	Defective control switch.	Check the control switch. See "7.11 Checking the Control Switch" on page 39.
	Defective lowering valve coil.	Check the coil using the procedure in "7.7 Checking Lowering Valve Cartridge and Coil" on page 38.
	Defective lowering valve cartridge.	Check, remove, and clean valve cartridge using the procedure in "7.7 Checking Lowering Valve Cartridge and Coil" on page 38.
	Defective flow control valve.	Replace the flow control valve. See "7.10 Flow Control Valve" on page 39.
Motor runs, but platform will not raise, will not raise rated capacity, or raises but drifts down when control switch is released.	Load capacity has been exceeded.	Verify load capacity and adjust load weight.
	Structural damage.	Replace damaged parts.
	Low fluid level.	Fill reservoir (with the platform completely lowered to the ground). See "7.1 Monthly Inspection" on page 33.
	Low Voltage.	Inspect the battery connection terminals and check the battery's Voltage (9 Volts minimum).
	Dirty or defective lowering valve.	Coil or cartridge may need cleaning or replacement. See "7.7 Checking Lowering Valve Cartridge and Coil" on page 38.
	Bad piston seals.	Check Cylinder for Leakage. See "7.8 Checking Cylinder Piston Seals (drifting - caused by seal leakage)" on page 38.
	Hydraulic pump is worn.	Replace hydraulic pump.

Problem	Possible Causes	Possible Solution
Sagging platform.	Bushing wear where slides connect to platform.	Replace bushings.
	Structural damage.	Replace worn parts.
	Platform support chains.	Replace.
Foaming oil.	Air in the hydraulic hose(s).	Check oil level in reservoir. See "7.1 Monthly Inspection" on page 33.
	Broken or loose fluid return tube.	Remove the oil reservoir and make sure the return tube is below the oil level. If the tube has turned or fallen out, reinstall it into the pump housing. Use a center punch to "stake" the tube into position.
Platform lowers very slowly.	Improper oil in hydraulic reservoir.	Change it to multi-viscosity hydraulic fluid. See "7.1 Monthly Inspection" on page 33.
	Damaged or kinked hydraulic hose.	Repair or replace.
	Cylinder rod is scored, pitted, or bent.	Repair or replace.
	Defective flow control valve.	Replace the flow control valve. See "7.10 Flow Control Valve" on page 39.
	Slide runners are dirty, damaged, or need oil.	Pressure wash rails. Lubricate slide runners with motorcycle chain lube. Replace slide runners if they are bent or damaged.
	Defective lowering valve.	Coil or cartridge may need cleaning or replacement. See "7.7 Checking Lowering Valve Cartridge and Coil" on page 38.
	Chains and sprockets are dirty.	Pressure wash chains and sprockets. After washing, lubricate with motorcycle chain lube.
Platform raises partially and stops.	Load capacity has been exceeded.	Verify load capacity and adjust load weight.
	Structural damage.	Replace damaged parts (lift chains, sprockets, slides, cylinder, etc.).
	Low Voltage.	Recharge battery (if less than 9 Volts).
	Low pressure.	Refill reservoir. Check pump and motor.
Platform will not lower.	Platform operating area is not clear.	Clear area.
	Structural damage.	Replace damaged parts (lift chains, sprockets, slides, etc.).
	Low Voltage.	Recharge battery (if less than 9 Volts).
	Defective lowering valve.	Replace the lowering valve. See "7.7 Checking Lowering Valve Cartridge and Coil" on page 38.
	Defective hydraulic pump and motor.	Replace power unit.

10. Warranty Section

10.1 Limited Warranty

Medium RailTrac 2 yrs Mechanical + 2 yrs Electric/Hydraulic

Thank you for purchasing an Anthony liftgate. We strive to produce the most trouble free and reliable liftgates in the market. We believe you will experience years of reliable operation and minimum downtime interruptions. To further insure your confidence in Anthony, this warranty will cover your unit for 2 years or 6,000 cycles (whichever occurs first) on mechanical/structure, electrical, and hydraulic operating parts. This warranty is extended to the original purchaser (user only) and is not transferable. The warranty term begins from the date of shipment from our factory or warehouse.

Anthony Liftgates Inc. will cover all failed components during the warranty period. Labor will be provided under our Flat Rate Warranty Schedule, in effect at the time of the part failure, and includes diagnosis time. Contact Anthony for current reimbursement amounts. For repairs NOT listed on the Flat Rate Warranty Schedule, contact the Anthony Warranty Department for approved reimbursement, prior to performing repairs. Anthony Liftgates Inc. reserves the right of determination of whether a component is defective or has failed. This warranty applies to Anthony liftgates installed, operated, and maintained in accordance with Anthony Liftgates Inc. installation, operation, and maintenance manuals, videos, etc.

Certain Anthony models have published Lifetime Warranties on listed components, as published in current literature. This additional coverage will be detailed on the published operation components, providing the unit has been operated and maintained within the intended usage.

Anthony Liftgates, Inc. will process all claims and determine their eligibility for authorization upon the receipt of the failed part, the identification of the claimant, and the liftgate serial number. All parts must be returned freight prepaid and following the instructions given by the Anthony Warranty Department. Freight collect shipments will not be accepted.

PLEASE NOTE THAT NO CLAIMS WILL BE PROCESSED WITHOUT THE PART, THE CLAIMANT'S INFORMATION, AND THE LIFTGATE SERIAL NUMBER.

Claims not submitted within 30 days of repair date will be denied.

Note: ALL CLAIMS MUST BE COMPLETED ON THE ANTHONY LIFTGATES INC. WARRANTY CLAIM FORM.

This form provides all the necessary information.

Upon approval of the claim, Anthony will, at the direction of the claimant, return a replacement part and labor allowance, or a parts credit based on current distributor net pricing, and the appropriate flat rate labor allowance.

Anthony Liftgates, Inc. is not responsible or liable for loss of time, cost, labor, material, profits, direct or indirect damages caused by failed components, whether due to rights arising under purchase, order, contract of sale or independently thereof, and whether or not such claim is based on contract, tort, or warranty. The sale of products of Anthony Liftgates, Inc. under any other warranty or guarantee express or implied is not authorized. This warranty does not cover misuse, abuse, damage, or product finish, normal wear, maintenance adjustments, careless or negligence of use or maintenance. Modifications to our product are not covered unless prior authorized by Anthony.

Purchased Parts warranty is 1 year from date of purchase and covers replacement of part only.

If you require assistance or have questions, please contact Anthony Liftgates Inc. at 815-842-3383.

Note: Most (not all) Anthony liftgate models incorporate our Service-Free feature. Service-Free refers to the fact that these models require no routine or scheduled lubrication of the major pivot points that contain our service-free bushings. Normal repair and maintenance of your liftgate, per our instruction, is necessary for ALL Anthony liftgates.

Anthony Liftgates, Inc.
1037 W. Howard St. P.O. Box 615
Pontiac, IL 61764-0615

PH: 815-842-3383
FAX: 815-844-3612
E-Mail: warrantyclaims@anthonyliftgates.com

10.2 Warranty Policy and Procedure

All warranty claims must be completed on the Anthony Liftgates Warranty Claim Form utilizing the Flat Rate Warranty Schedule. See the current rates as listed for each model. Using this process will allow for quick and accurate credit payment.

Claims will not be processed without the failed part returned (pre-paid) to Anthony Liftgates, and the warranty claim form completed.

Note: When returning defective parts for warranty consideration, be sure to call ahead for a Return Authorization Number.

If you require further assistance or have questions, please contact the Anthony Liftgates Warranty Dept. at 815-842-3383 or email warrantyclaims@anthonyliftgates.com.

A photograph of an Anthony Liftgates, Inc. PCR liftgate. The liftgate is a large, rectangular, silver-colored metal platform with a diamond-plate texture, mounted on a black frame. It is shown in a partially raised position, with the platform tilted upwards. The frame has several red and white lights on the side. The liftgate is attached to a vehicle, which is partially visible in the background. The liftgate is secured with chains. The background shows a concrete floor and a wooden wall.

ANTHONY
LIFTGATES, INC.®

PCR

*Shown with optional features.

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