



TRINITY  
TRAILER™

***EAGLEBED®***

**OWNER'S MANUAL  
INCLUDING  
SAFETY & MAINTENANCE**



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**Do not operate the EAGLEBED®  
without completely reading and  
understanding this manual.**

## THANK YOU FOR PURCHASING A TRINITY EAGLEBED® TRUCK BED!

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The purpose of this manual is to address:

- Safety
- Warranty Information
- Service and Maintenance
- General Care and Use
- Conveyor Operating Instructions
- Rear Door Operating Instructions
- General Support Information

This manual is written to cover many versions of the Trinity Trailers EAGLEBED® truck bed. Because of this, some sections may not be applicable to your truck bed. Thoroughly review the manual and any attached supplements to determine what is applicable to your truck bed. Please refer to the Table of Contents on [pages 3-5](#) to locate the needed information. For additional questions, please call us:

**Monday through Friday | 8 am to 5 pm MT**

**+1 208-336-3666**

**+1 800-235-6577 (toll-free)**

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## IMPORTANT SAFETY INFORMATION

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**Before attempting to operate, load, unload or do anything with or to the truck bed, YOU MUST READ THIS MANUAL and become completely familiar with all of its operating instructions and safety precautions.**

**To avoid serious injury or death, ALWAYS FOLLOW THESE PRECAUTIONS:**

1. Do not allow unqualified, untrained or careless personnel to operate the truck bed. Do not use the truck bed for a purpose for which it was not intended.
2. Each person at the user's facility who may be involved with installing, operating, servicing, inspecting, maintaining or repairing the truck bed must read the complete operating instructions and carefully study and understand the safety instructions. All actual and potential operators should confirm their having done so in writing.
3. The truck bed must be serviced and maintained only by authorized and properly trained personnel. Such personnel must have undergone training by a factory-trained representative concerning the proper and safe operation of the truck bed. Only the manufacturer or factory-trained technicians should carry out more than minor repairs.
4. Do not allow anyone who is not physically fit or mentally alert near the truck bed or its operating area. Be constantly alert to possible hazards on or around the truck bed.
5. Keep a safe distance at all times from any moving parts, including the conveyor.
6. When unloading the truck bed:
  - a. Long hair must be protected by headgear.
  - b. Do not wear loose apparel such as ties, scarves, etc.
  - c. Remove all wristwatches and jewelry.
  - d. Wear only approved industrial grade eye protection or a face guard to protect against flying debris.
7. Do not allow tools or other loose objects to be placed on top of or around the truck bed.
8. At the very first sign of any problem and before attempting any troubleshooting or maintenance, the conveyor must be stopped.
9. Safety features must not be removed, dismantled, altered, put out of operation or relocated. All guards and safety devices are to be re-fitted and in place after changeovers, servicing or making repairs and before the truck bed is used. All safety devices must be checked at regular intervals for correct operation.
10. Do not remove safety signs or warning decals from the truck bed. Product safety signs should be periodically inspected and cleaned as necessary. Product safety signs should be replaced when they are no longer legible at a normal viewing distance. Replacements are available from Trinity Trailer Mfg., Inc.
11. Follow all workplace safety and accident prevention regulations applicable to the operation of the truck bed. Comply with local, state and/or federal environmental regulations, including those governing airborne dust particles.
12. Designate a person to be responsible at any given time for installation, commissioning, operating and repair of the truck bed so the responsibility for safety will not be lost.

## IMPORTANT SAFETY INFORMATION (CONTINUED)

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13. The truck bed has been designed and built with original Trinity Trailer Mfg., Inc. parts only. Only original Trinity Trailer Mfg., Inc. parts must be used for maintenance or repair. Use of other parts will void your warranty.
14. Do not perform modifications to or reconstruction of the truck bed without first getting written approval from Trinity Trailer Mfg. Inc.
15. The cleanliness and tidiness of the truck bed and its surrounding area must be ensured through appropriate instructions, routine inspections and cleaning.

## WARNING SYMBOLS USED IN THIS MANUAL

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Truck beds have inherent hazards associated with their use. We have made efforts to minimize these risks through the use of engineering controls. There are certain risks, however, which cannot be completely eliminated if the design is to remain functional.

The following symbols and classifications of hazards are used in this manual and on the safety labels on the truck bed.



### DANGER

**This indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**



### WARNING

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

## Safety Labels

Your truck bed had numerous safety labels affixed to it when it was built; they are shown throughout this manual. It is important that these labels remain visible and legible throughout the life of the truck bed. To help ensure they are visible, the truck bed should be cleaned regularly with water and a mild soap. Over time the condition and/or color of the labels may deteriorate due to use of the truck bed and the environment in which it is used. If the labels should become illegible or lose their color, it is the owner's responsibility to replace them. Contact TRINITY SERVICE & PARTS® at (800) 235-6577 to order replacements.

All decals can be found in the Master Decal Kit – Part # T000000661

## LIMITATION OF WARRANTIES

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Goods manufactured by Trinity Trailer Manufacturing, Inc.® (“Trinity”) are warranted to be free from defects in workmanship or material under normal use and service. Trinity will repair or replace, at its option, any factory-installed part that is defective in materials or factory workmanship. Trinity is not responsible for any time or income that you lose, due to a Warranty Claim. Trinity also is not responsible for cost of rental vehicles, fuel, telephone, travel, meals, or lodging, or the loss of revenue.

### Warranty Work

All warranty work must be performed at a repair shop, approved in advance by Trinity. Trinity reserves the right to ask for Service Records, depending on the claim. Trinity also has the right to share Warranty Claims with Vendors and Manufacturer partners to help improve our design and limit our defects.

**This warranty is applicable if the owner has, as a minimum:**

- Followed proper recommended service intervals.
- Not overloaded the truck bed (i.e. Exceeded the GVWR\* or the GAWR\*)
- Not Side loaded the truck bed.
- Adequately restrained the load
- Loaded the truck bed properly

### How to Submit a Warranty Claim

Parts claimed to be defective in materials or workmanship must be brought to the attention of Trinity Warranty Administrator, or by submitting a form at [www.trinitytrailer.com/warranty/](http://www.trinitytrailer.com/warranty/). Trinity has the right to inspect the claim defect and determine whether the part is covered by this warranty. The Warranty Manager may ask for photo confirmation in respect to the claim.

\*GVWR (Gross Vehicle Weight Rating)-The structural capability of the trailer when supported by the kingpin and axles with the load uniformly distributed throughout the cargo space.

\*GAWR (Gross Axle Weight Rating)-The structural capability of the lowest rated member of the running gear component-suspension and spring system, hub, wheels and drums, rims, bearings, brakes, axles or tires.



## **LIMITATION OF WARRANTIES (CONTINUED)**

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### **Wearable Items Are Not Covered Under This Warranty**

Goods which wear out and have to be replaced during the warranty period. These goods include but are not limited to: Plastic Liners, Chains, Belts, Light Bulbs, Electrical Wiring, Paint, Wheel Bearings, Oil and Oil seals, Door Seals, Gaskets, Sealers and Filters, or normal wear or deterioration of any parts due to inadequate maintenance. The Warranty herein does not apply and Trinity makes no warranties, expressed or implied with respect to:

- **TARPS:** Tarps are a wearable item and are not covered by this warranty; however, Trinity reserves the right to evaluate each situation.
- **COMPONENTS:** Tarp components, (i.e. straps, ratchets, electric tarp motors, remotes, tarp arms, tarp pipe, return springs, fasteners.
- **CONTINUOUS BELTS:** Continuous belts are wearable items and are not covered under this warranty.
- **MODIFICATIONS:** Items that have been modified by other outside parties.
- **LABOR:** Trinity does not pay labor or loss time. However, Trinity has the right to negotiate labor on a case-by-case basis through outside repairs

### **Limitations and Disclaimers**

Trinity's sole obligation under this warranty is to repair or exchange, at its option, any such goods manufactured which are found by Trinity to be defective in workmanship or materials. Trinity reserves the right to require any products to be returned for inspection at the buyer's expense to our facility in Boise, Idaho. The foregoing shall be the sole and exclusive remedy for any such defects, whether in contract, tort, warranty or otherwise. Trinity disclaims any responsibility for any loss of time or use of the parts or trailers in which the parts are installed, transportation, cargo loss, or other incidental or consequential damage.

In no event shall Trinity be liable for indirect, special, incidental or consequential damage in connection with or arising out of the sale of goods or furnishing services.

## INSPECTION, SERVICE AND MAINTENANCE

It is important that your truck bed be inspected and serviced on a regular basis to keep it in a safe and functional condition. Regular maintenance will also save you money in costly repairs over time. Trinity recommends that you use a truck and trailer wash to keep your truck bed looking great and operating at peak efficiency.

### Preventative Maintenance Schedule

We recommend that you follow the general preventative maintenance schedule below as well as washing the truck bed as soon as you take delivery. The intervals given are for nominal operating conditions; service more frequently if the truck bed is used in overly humid or dusty conditions.

#### After First 20 Hours Of Operation

- Check torque of pulley bushing bolts (Figure 15).

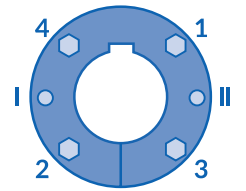
#### After First 50 Hours Of Operation

- Replace the hydraulic oil and filter and check oil levels in all DC power units. Make certain all air is out of the systems to ensure proper operation
- Replace the oil in the planetary gearbox
- Check truck bed to truck mounting bolts for tightness
- Check rubber strip between the truck bed and truck frame for movement

HUB	# Bolts	Bolt Diameter (UNC)	Bolt Length	Torque (in lbs.)
XT25	4	3/8"	2"	350

XT25 Torque Value Table

**Diagram B**



XT15 to XT80

Diagram B - Star Sequence

**Figure 15** Torque Value and Pattern for Torquing the Pulleys, pulley location front and rear of the conveyor belt

## **INSPECTION, SERVICE AND MAINTENANCE (CONTINUED)**

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### **Once a Month**

- Wash thoroughly with a mild soap and water
- Check general structural condition for corrosion or cracks
- Check condition of lights
- Check wiring harness for cracking or chafing
- Check hydraulic and pneumatic lines for signs of leakage or wear
- Check hinges on rear and side door(s) for signs of damage
- Lubricate hinges, latches and bearings (if applicable) on rear and side door(s)
- Check conveyor system for excessive wear or damage
- Check condition of tarp system, if installed
- Check condition and security of mud flaps
- Check oil level in planetary gear on conveyor hydraulic and add if necessary
- Check truck to truck bed mounting bolts for tightness
- Check rubber strip between the truck bed and truck frame for movement

### **Once a Year**

- Drain and replace hydraulic fluid from reservoir
- Replace hydraulic oil and filter (or every 1,000 hours, whichever is first)
- Replace oil in the planetary gearbox (or every 1,000 hours, whichever is first)

## **TRUCK BED INSTALLATION GUIDELINES**

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**Caution:** Please read carefully. The following guidelines cover important points for safe and proper installation of standard configuration Truck Beds.

### **Before installing the truck bed**

- Make certain that the width of the truck bed frame rails and the width of your truck frame rails are compatible. If they are not, please call Trinity Trailer Mfg., Inc. at 1-800-235-6577 for installation assistance.
- Before installing the truck bed to your truck, you must first place the provided 3"x 3/8" rubber strip (cut to the length of the truck bed frame) to the top of the truck frame (on both sides). Once the mounting is complete these rubber strips will help stabilize and cushion the truck bed on the truck frame rails.

## TRUCK BED INSTALLATION GUIDELINES (CONTINUED)

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- Place the truck bed on the truck chassis, such that, the front cover is 1 inch behind the rear of the truck cab or most rearward truck cab protrusion. The rear of the truck frame should allow the truck bed to lay flat on top of the frame rails with no interference with the tail section.
- Make certain the Truck Bed ribs clear all tires (including lift axle tires).
- **DO NOT WELD MOUNTING BRACKETS TO TRUCK FRAME**

### Mounting Brackets and Bolts

Locate the front mounts as far forward as possible and the rear mounts as far back as possible on both sides of the truck bed. Center mounts should be located approximately halfway between the front and rear mounts.

If the truck frame is wider than the truck bed frame, spacers will need to be placed behind the respective mounts. Enough 1/8" (0.125") spacers are required so that the mounts make minimal contact with the truck frame.

**NOTE:** *Because of the variations in truck beds/trucks, the required 5/8" bolts (Grade 5 minimum), washers and nyloc nuts used to connect these components are **not supplied** and must be purchased in order to correctly mount the truck bed to the truck frame.*

## TRUCK BED INSTALLATION GUIDELINES (CONTINUED)

### Mounting the Truck Bed to an Open Frame

1. Line up the holes in the top “L” shaped bracket with the ones on the truck bed frame rail. Use 5/8” grade 5, coarse thread bolts that are not lubricated (dry/plain), which should be torqued to 150 ft-lbs.
2. Place the bottom bracket (with the pivot bolts loose) onto the bottom flange of the truck’s frame and push it up against the frame rail (Figure 2).
3. Use 5/8” grade 5, coarse thread bolts that are not lubricated (dry/plain), which should be torqued to 150 ft-lbs.
4. When the mount is in place (Figure 3) tighten all nuts and bolts, including the pivot bolt.

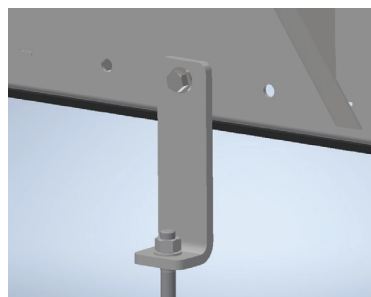


Figure 1 Truck Bed (Open Frame) Mount

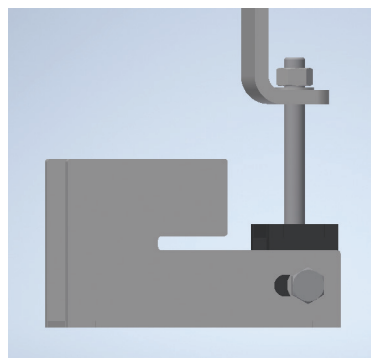


Figure 2 Truck Bed (Open Frame) Mount

EAGLEBED frame mount part  
#T-000000666

Truck frame mount  
part #T-000000663

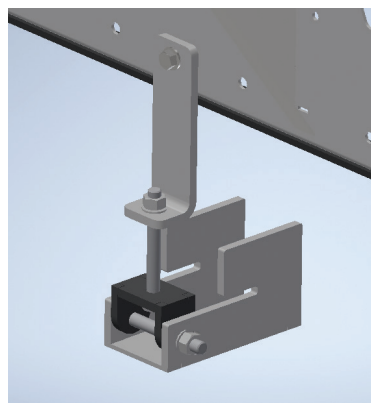


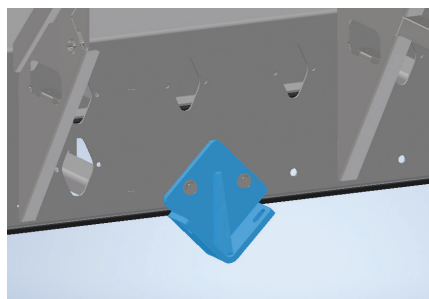
Figure 3 Completed Installation

## TRUCK BED INSTALLATION GUIDELINES (CONTINUED)

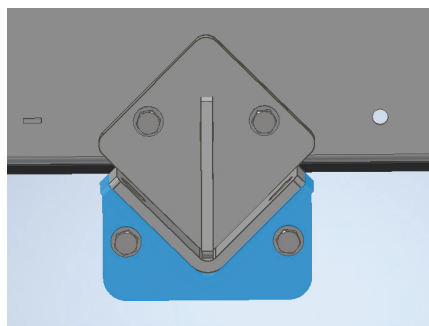
### Mounting the Truck Bed to a Box Frame

1. The bed mounted components will be bolted to each side using pre-existing holes in the bed frame rails. The truck mounted components are bolted to the rails of the truck frame. Note: holes will need to be drilled in the truck
2. Attach the truck bed mounts to the truck bed with 5/8" grade 5, coarse thread bolts that are not lubricated (dry/plain), which should be torqued to 150 ft-lbs. (Figure 4).
3. Clamp one truck bracket to each of the already installed bed brackets. The truck brackets will be used as a drill guide to put the mounting holes in the truck frame.
4. After the holes are drilled, mount the truck bracket to the truck frame with 5/8" grade 5, coarse thread bolts that are not lubricated (dry/plain), which should be torqued to 150 ft-lbs (Figure 5).
5. The truck bracket is used as a drill guide to complete the mounting holes in the bed bracket (Figure 6).
6. Fasten the bed bracket to the truck bracket with 5/8" grade 5, coarse thread bolts that are not lubricated (dry/plain), which should be torqued to 150 ft-lbs.
7. Tighten all bolts sufficiently tight that the assembly does not shift.

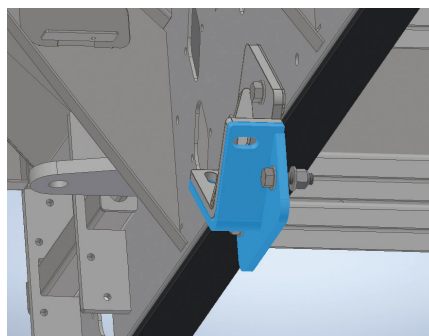
Part number T-000008759  
spacer T-000002936 saddle  
mount truck, T-000002391  
saddle mount bed



**Figure 4** Bed Bracket (Closed Frames) Installed



**Figure 5** Truck Mount Installed (Blue)



**Figure 6** Drill Guide to Complete Closed Frame Mount



## TRUCK BED INSTALLATION GUIDELINES (CONTINUED)

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### Hydraulic and Electrical Connections

#### Hydraulic PTO Connection

No PTO hoses or pump are supplied with customer installed truck beds because of the variation in truck bed mounting (Figure 7). These parts are available for purchase and installation through TRINITY SERVICE & PARTS® (800) 734-8730.

**It is strongly advised that if your PTO system does not have a pressure relief valve and filter that these items be installed before using your truck bed to ensure system protection.**

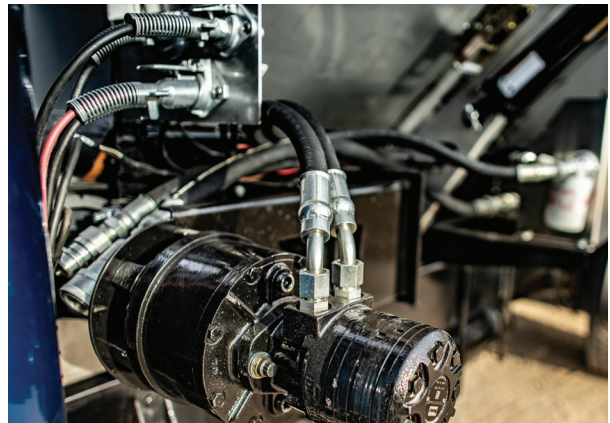


Figure 7 Front PTO & Electric Connections

#### PTO Pump Pressure Line

If your truck bed has PTO system, the pressure line from the PTO pump connects to the 3/4" hose (coming from the flow control valve located at the rear of the truck bed) terminating at the front of the truck bed. A capped 1" NPT Male hose fitting is supplied for this connection.

#### PTO Pump Suction Line

If your truck bed has PTO system, the suction line from the PTO pump connects to the 1" hose (coming from the oil tank) terminating at the front of the truck bed. A capped 1" NPT Male hose fitting is supplied for this connection.

## TRUCK BED INSTALLATION GUIDELINES (CONTINUED)

### Electrical Connections

#### Truck Bed Lights

Your truck bed wiring terminates at the end with a pre-wired 7-way socket (Figure 8). A companion pre-wired 7-way plug is included in the ship loose package and must be wired into the truck wiring system. Once wired in simply plug both ends together and check your lights for correct operation.

Some EAGLEBED models have a 16-2 wire, terminated near the front driver side, which must be wired into the truck wiring system. Once wired in check your lights for correct operation.

#### Truck Bed DC Power Units

In the front of the truck bed there is a pre-wired 2-way socket. A companion pre-wired 2-way plug is included in the ship loose package and must be wired into the truck wiring system. The red wire must be connected to the battery positive post. A 200-amp breaker and the black wire must be connected to the battery negative post. It is recommended that the 200-amp breaker be installed in the battery box (Figure 9).

#### Truck Bed Door Controls

Located in the front of the truck bed are two pre-wired 4-way sockets. Two companion 4-way plugs, pre-wired with 16-3 wire, are included in the ship loose package and must be wired into the cab mounted switches for the side and rear doors (Figure 10). Once the DC Power Units and Cab Switches are wired, test the door controls for correct operation. Note: a third pre-wired switch, located at the driver side rear of the bed, must also be tested at this time. No additional wiring is required for this third switch.



Figure 8 7-Way Socket

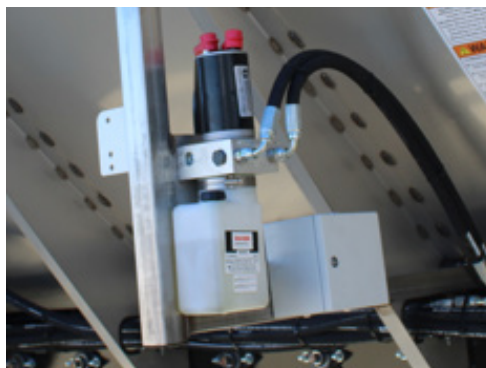


Figure 9 DC Power Unit



Figure 10 Door Controls

## TRUCK BED CONTROLS AND OPERATIONS

### Control Locations

The controls to operate the rear door are located in the cab and on the driver side rear tail fin. The conveyor control is also located on the driver side rear. The switch to control the side door (if equipped) is located inside the truck cab. This unit is designed for use by a single operator.

### Operating Instructions

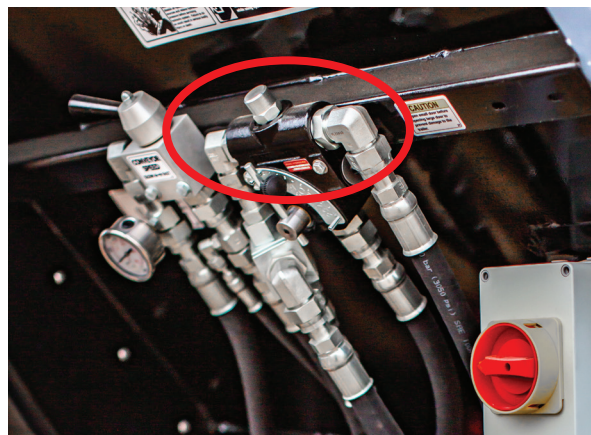
1. Make sure area is clear when backing up to equipment. Make sure discharge tail fins are properly aligned with other equipment.
2. Make sure all hydraulic controls are in the “off” position. (Flow control valve off.)

### PTO

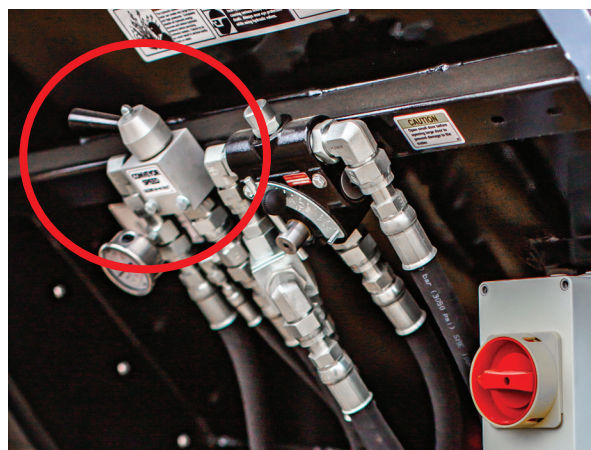
1. Engage PTO.
2. Conveyor operation is now controlled with the flow control valve located on the rear tail fin ([Figure 11](#)).
3. After load is discharged return the flow control handle to the “off” position.

### Electric/PTO Option

1. Connect pigtail to power source.
2. Switch on the electric motor with the power switch located on the shaft mount.
3. Open rear door slowly, the toggle switch to operate the door is located on the tail fin above the power switch.
4. To operate the conveyor, slowly move the needle valve handle located on the rear tail fin until the desired speed is obtained ([Figure 12](#)).
5. When load has fully discharged, close the needle valve handle, turn off the power switch and disconnect pigtail from the power source.



**Figure 11** Rear PTO Controls. Part #004402



**Figure 12** Rear PTO/Electric Controls. Part #001014



## ADJUSTING AND LUBRICATING THE CONVEYOR SYSTEM

### Tensioning Continuous Belt

1. Set both sides of the front shaft with the receiver tube 1" away from the weld as shown in (Figure 13).
2. Install ratchet handles on both rear turnbuckles to prepare for rear shaft adjustments (Figure 14).
3. Loosen both sides of rear shaft until ratchets stop ratcheting, shown at bottom right.
4. Tighten turnbuckle on right side of rear shaft until there is notable resistance.
5. Measure length of exposed receiver tube and then adjust the left side to match this length.
6. Turn on the belt, maintain minimum speed, and observe the side-to-side movement of the belt.
7. The belt will "fall" toward the short side.
8. Short side refers to the distance from the front shaft to the rear shaft.
9. Adjust the turnbuckles on both sides in order to keep the belt in the center of the roller without allowing the belt become too loose or too tight, which will adversely affect belt performance and lifespan.



Figure 13 1" Spacing



Figure 14 Continuous Belt Adjuster Ratchets.  
Part #004569

## ADJUSTING AND LUBRICATING THE CONVEYOR SYSTEM (CONTINUED)

### Bearings and Pulleys

The bearings on the belt rollers must be inspected and lubricated at regular intervals using an NLGI Grade 2 general-purpose grease. The amount of lubrication is dependent upon the amount of use. Refer to page 10, [Figure 15](#), for Torque Value and Pattern for Torquing the Pulleys.

- Under daily use, daily inspection is required. Lubricate as needed.
- Under all other uses, weekly inspection should be sufficient. Lubricate as needed.
- Inspect pulleys for excessive wear or damage.

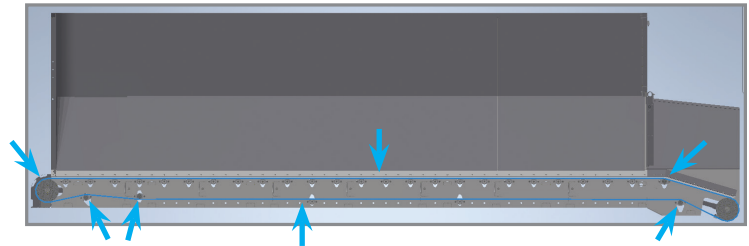


Figure 16 Truck Bed Routing Image



### WARNING

**Attempting to lubricate the bearings while the shaft is rotating can result in serious bodily injury or death. Stay clear of the bearings while they are rotating. Completely disable the hydraulic system before doing any maintenance on the bearings.**

### Planetary Gearbox

When using the planetary gearbox under normal temperature ranges between 0-120 °F, the gearbox is to be half full of SAE 80/90 oil. Use the lower of the two plugs to check the level of the oil on 48" belt truck beds and on 25" and 31" belt truck beds use the 1/8" plug. Oil is to be changed after the first 50 hours of operation with subsequent changes every 1000 hours or yearly, whichever comes first.

**NOTE:** There is absolutely no warranty, expressed or implied, on the conveyor or drive system if the system is not maintained properly, is misused or is overloaded. This includes, but is not limited to the hauling of corrosive materials such as fertilizer, sludge, brewer's mash, or corn gluten.

## LUBRICATION OF THE DOORS

---

Door hinges and bearings must be lubricated regularly, especially if the truck bed has been operated or stored for an extended period of time in a humid or wet environment. Corrosion can lead to the failure of door hinges if they are not maintained properly. As a general rule with the rear and side doors, as with the entire truck bed, “if it moves, lubricate it.” Use an NLGI Grade 2 general-purpose grease on all shafts and grease zerks.

The seals on most doors should have silicone grease or spray-on lubricant applied to them once every three months. This will help them last longer and will help them provide a better seal. During cold, damp weather or under heavy use, apply the grease more frequently.



### WARNING

**Do not get behind a loaded truck bed with the door(s) open. The truck bed's contents could spill on you causing serious injury or death.**



### WARNING

**Door can crush and cut. Keep away from door while operating to prevent bodily injury.**



## DOOR OPERATIONS

### Opening the Fold-Down Spud Door

1. Release the two latches at the sides of the fold-down door by raising the lever and sliding the latch towards the center of the door (Figure 17).
2. Untie the draw rope.
3. Gently lower the upper door using the draw rope to keep it from falling rapidly.

### Closing the Fold-Down Spud Door

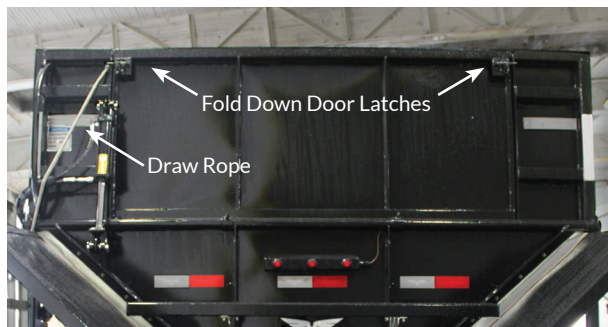
1. Pull on the draw rope to raise the fold-down door (Figure 17).
2. Tie off the rope to hold the fold-down door in position.
3. Lock the fold down door latches.

### Lower Door Procedures

1. Make sure the electrical supply from the tractor to the truck bed is properly connected.
2. Push the rubber booted switch on the rear tail fin, above the conveyor electric switch. See the yellow circle in (Figure 18), to close or open the door to the desired height.

### Driver's Side Fold Down Door Operations

The side door is operated by a switch generally located on the dashboard of the truck. The door will function in either the opening or closing motion as long as the switch is held in that position (Figure 19).



**Figure 17** Rear Upper Door Diagram



**Figure 18** Lower Door Switch



**Figure 19** Side Door Operation

## COATING CARE AND CORROSION PREVENTION

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Your truck bed may be coated with a high-performance polyurethane paint. This paint is designed to give you durable performance in the rugged environments encountered by your truck bed.

The best way to preserve the finish on your truck bed and help prevent corrosion is to wash it regularly, especially after it has been used around road salt or other ice melting agents, road oil or tar, or any other potentially corrosive material. Use warm water with a mild soap and allow the truck bed to air dry. Use of abrasive or caustic cleaning agents will cause paint deterioration. Hauling corrosive products such as salts and fertilizers will also cause paint deterioration.

Small nicks or chips in the paint can occur with normal use. Any chips or scratches in the finish should be repaired with matching touch-up paint. This is especially important for carbon steel truck beds, as even small areas of bare metal can corrode quickly. The cost of repairing any chips is the responsibility of the owner. Removal or disrepair of mud flaps on either the truck or the truck bed will cause paint deterioration. Frequent use of the truck bed on gravel roads will also cause paint deterioration.

## STAINLESS STEEL BODIES

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Truck beds with stainless steel bodies require the same care as painted truck beds. Regular washings to remove road grime and remnant corrosive material will help maintain the finish and help prevent corrosion. Use warm water with a mild soap and allow the truck bed to air dry. Use of abrasive cleaning agents will dull and scratch the finish. Use of carbon steel utensils will result in surface contamination.

It is particularly important to rinse off the truck bed after hauling any material containing chlorides as prolonged contact with chlorides may dull the finish and leave it subject to pitting.

Carbon contamination of stainless steel will cause localized rust spots. The breakdown of the carbon on the surface of stainless steel does not affect the structural integrity of the truck bed.

## CLEANING THE INTERIOR



### DANGER

Under no circumstances should you get into the truck bed with the conveyor system running or enabled (Figure 20). For your safety, completely disable the hydraulic system before entering the truck bed (Figure 21).

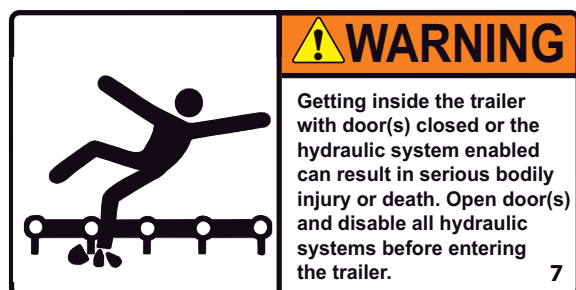


Figure 20 Entering Truck Bed Warning

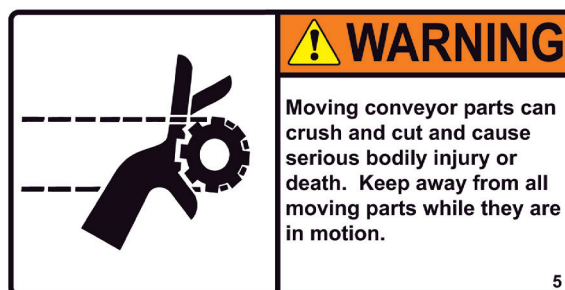


Figure 21 Moving Conveyor Crush Warning

## HYDRAULIC SYSTEM SERVICING

### Tractor Hydraulic System Requirements

Gear Pump Requirements (Volume):	10-30 GPM (Gallons per Minute)
Reservoir Capacity:	Minimum 5 Gallons
Hyd. Pressure Requirements/Bypass Settings:	2500 PSI/3000 PSI
Filtration Requirement:	10 µm

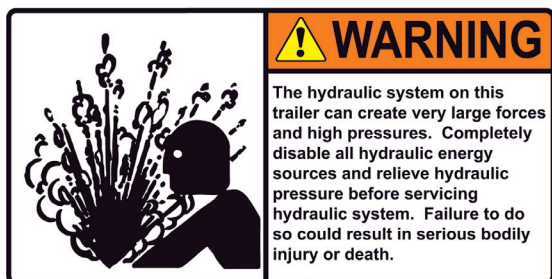
Tractor hydraulic oil must be maintained at all times. Neglect of the tractor oil will result in premature hydraulic component failure.

If the truck bed was ordered with “Food Grade” hydraulic oil, the tractor must also have “Food Grade” hydraulic oil or it will contaminate the truck bed’s hydraulic system.

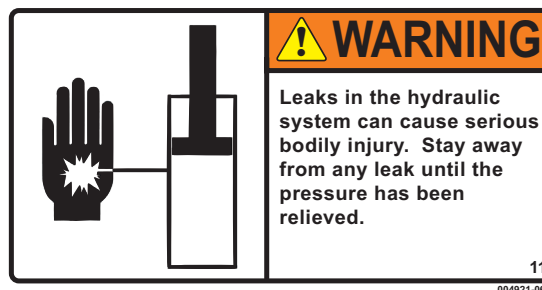
### Hydraulic Cylinder Maintenance

The hydraulic cylinders which operate the rear door and side door (if installed) should be inspected before each use. Precautionary measures that must be taken before performing any maintenance ([Figures 22-23](#)).

- Repair any leaking fittings found before operating the cylinder.
- Keep the cylinder clean and free from foreign materials.
- If there is leakage across the cylinder or the cylinder housing or the shaft is damaged, replace the cylinder.
- A light film of oil on the shaft of the cylinder is normal and should not be mistaken as a leak.
- Small burrs or scratches should be removed from the shaft using a honing stone or emery cloth before use of the cylinder.



**Figure 22** Disable Hydraulics Prior to Performing Maintenance Label



**Figure 23** Hydraulic Leak Warning

## **HYDRAULIC SYSTEM SERVICING (CONTINUED)**

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### **Hydraulic Lines and Fittings**

Visually inspect the hoses and fittings for leaks, cracks, chafing or crimping. Since the hydraulic system operates at high pressures, replace any components which are worn or damaged before use.

### **Hydraulic Fluid Recommendations**

- The hydraulic oil level in the tank should be no lower than four inches from the top which will be at the 80°C line of the tank. Check the oil level daily. Refill as required.
- The low pressure filter in the system should be changed after the first 50 hours of operation and changed every 250 hours thereafter. Under dirty or dusty conditions, change the filter more frequently.
- Recommended fluid-Chevron Hydraulic Oil AW ISO 32 or equivalent. For food grade applications Chevron Hydraulic Oil FM ISO 32 or equivalent may be used.

## DRIVE AND HYDRAULIC SYSTEMS

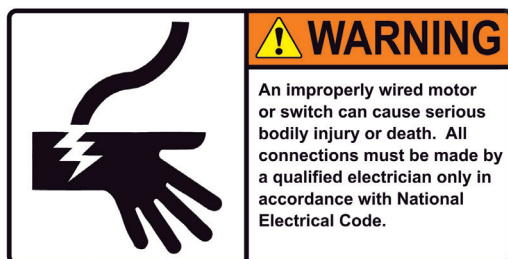
### Supplying Power to the Electric Motor

Because there are various types of receptacles, truck beds equipped with electric motors have the correct plug installed in the factory. Consult a qualified electrician to determine the type and rating of plug needed and to have it installed if replacement is needed (Figures 24-25 and Table 1). If a longer cord is necessary, use a plug to make the connection between the pigtail and the cord – **DO NOT splice the conductors!**

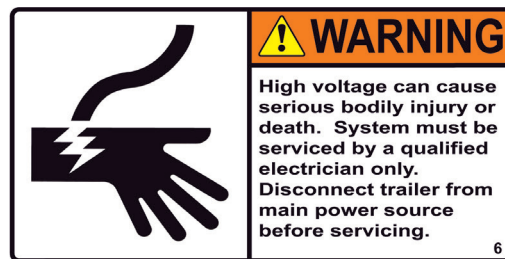
You will also need to determine the appropriate size of extension cord needed for your application. The lengths given in Table 1 are the maximum recommended length for single-phase 220 VAC with a 2% maximum voltage drop. **Consult a qualified electrician if your truck bed uses a motor other than a single-phase 7-1/2 HP motor for proper cord sizes and lengths.**

7-1/2 HP Single Phase	
Conductor Size (AWG)	Max Cable Length (Ft)
14	NOT RECOMMENDED
12	NOT RECOMMENDED
10	NOT RECOMMENDED
8	240
6	350

**Table 1** Maximum Length for Electrical Motor Cord Size, 1Ø 220 VAC



**Figure 24** Motor Wiring Decal



**Figure 25** Electrical Servicing Decal



## UNLOADING THE SYSTEM

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### General Door Safety

Figures 26-30 are decals that were installed on your truck bed when it was built regarding the safe operation of the rear door(s). Completely read through this information and adhere to it when operating the door(s).

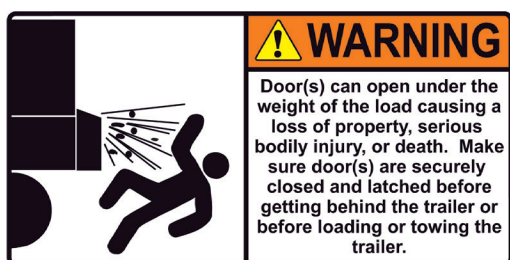


Figure 26 Getting Behind the Trailer Decal



Figure 27 Overhead Door Decal

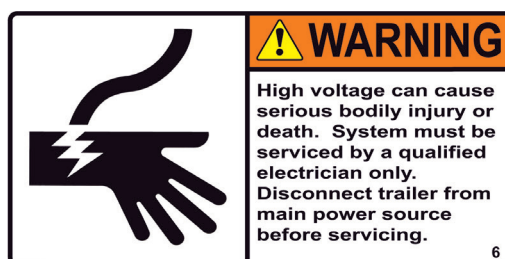
## UNLOADING THE SYSTEM (CONTINUED)

### General Conveyor Safety

The conveyor system on your truck bed can be very dangerous if it is not operated safely. [Figures 28-30](#) show decals that were placed on your truck bed when it was built. Read and understand each of them before operating the conveyor system.



**Figure 28** Do not Operate Conveyor with Doors Closed Label.



**Figure 29** High Voltage Warning Label



**Figure 30** Hydraulic Pressure Leak Warning Label

## UNLOAD OPERATING PROCEDURES

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### WARNING

Moving conveyor parts can crush and cut and cause serious bodily injury or death. Keep away from all moving parts while they are in motion.

### Engage Hydraulic System

#### 1. Electric Motor-Driven Hydraulic System

- a. Make sure the electric motor is in the “off” position.
- b. Rotate the needle valve (Page 17, [Figure 12](#), “Rear PTO/Electric Controls”) so the lever is toward the front of the truck bed.
- c. Plug the electric motor into an approved receptacle which is appropriately sized and has the necessary safety mechanisms to properly operate the motor.
- d. Switch the electric motor on.

#### 2. Truck-Driven PTO Hydraulic System

- a. Make sure the PTO is off.
- b. Make sure the flow control valve (Page 17, [Figure 11](#), “Rear PTO/Electric Controls”) is shut off.
- c. Check the connections between the tractor and the truck bed to ensure the pressure and return lines are connected properly and securely.
- d. Ensure the rear door is open. (Procedures for opening the door are on [Pages 20-21](#))
- e. Engage the PTO on the tractor.

### Operate the Conveyor

#### Electric Motor -Driven

1. Open rear door using appropriate procedure above.
2. Adjust the needle valve (Page 17, [Figure 12](#), “Rear PTO/Electric Controls”) to obtain the desired conveyor speed

#### Truck-Driven PTO

1. Open rear door using appropriate procedure above.
2. Adjust the flow control valve (Page 17, [Figure 11](#)) to obtain the desired conveyor speed. If the desired speed cannot be reached with the flow control valve completely open, increase the engine rpm on the tractor.
3. Reduce the engine rpm on the tractor to idle before trying to control the conveyor speed with the flow control valve.

## REPORTING SAFETY DEFECTS

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Trinity Trailer Mfg., Inc.  
7533 S. Federal Way  
Boise, Idaho 83716  
(208) 336-3666  
(800) 235-6577  
Fax (208) 336-3741

### Reporting safety defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administrations (NHTSA) in addition to notifying Trinity Trailer Mfg., Inc.

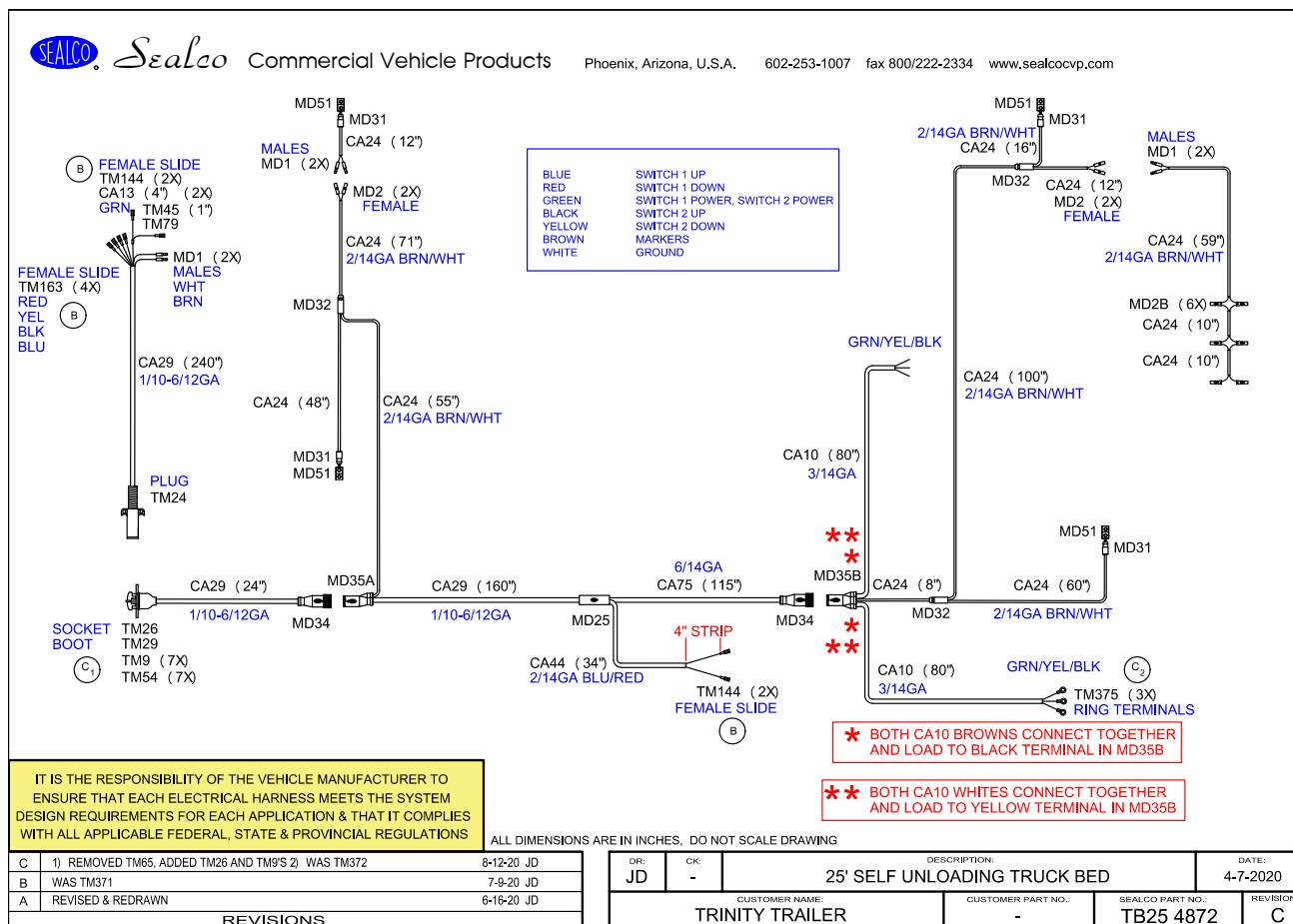
If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in any individual problems between you, your dealer or Trinity Trailer Mfg., Inc.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (336-0123 in Washington, DC area) or write to:

NHTSA  
U.S. Department of Transportation  
400 7th Street SW, (NSA-11)  
Washington, DC 20590

You can also obtain other information about motor vehicle safety from the Hotline.

## WIRING DIAGRAM





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Boise, ID 83716

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