

November 15, 2016  
Lit. No. 78488, Rev. 01

# Pivot Mount

## Installation Instructions

 **CAUTION**

Read Owner's Manual before operating or servicing spreader.

# SAFETY

## SAFETY DEFINITIONS

### **⚠ WARNING**

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

### **⚠ CAUTION**

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

**NOTE:** Indicates a situation or action that can lead to damage to your spreader and vehicle or other property. Other useful information can also be described.

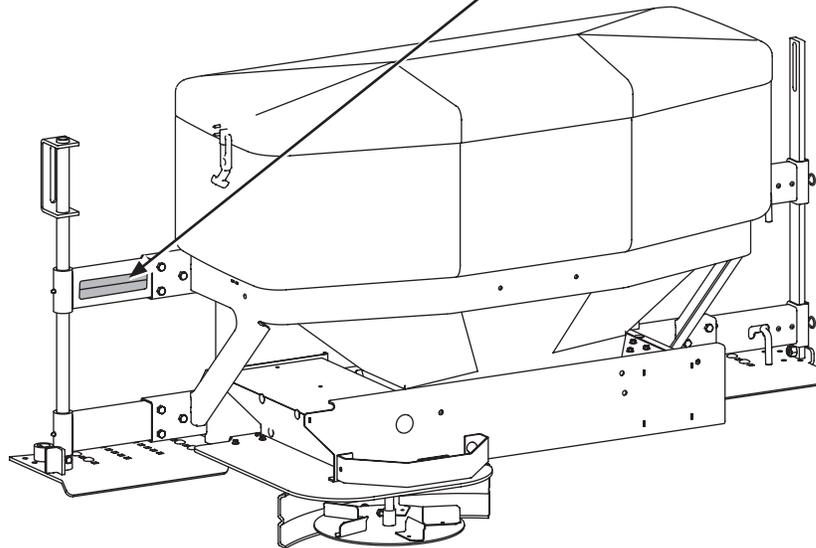
## WARNING/CAUTION LABELS

Become familiar with and inform users about the warning and caution labels on the spreader.

**NOTE:** If labels are missing or cannot be read, see your sales outlet.

Caution Label, pivot mount only  
(located on both sides)

**⚠ CAUTION**  
Do not swing spreader  
with material in the hopper.



# SAFETY

## SAFETY PRECAUTIONS

Park the vehicle on a level surface, place shift lever in PARK or NEUTRAL and set the parking brake. Turn OFF the engine and remove keys.

### ⚠ WARNING

- Driver to keep bystanders minimum of 25 feet away from operating spreader.
- Before working with the spreader, secure all loose-fitting clothing and unrestrained hair.
- Before operating the spreader, verify that all safety guards are in place.
- Before servicing the spreader, wait for conveyor or spinner to stop, then lock out power.
- Do not climb into or ride on spreader.

### ⚠ WARNING



Overloading could result in an accident or damage. Do not exceed GVWR or GAWR ratings as found on the driver-side vehicle door cornerpost. See Loading section to determine maximum volumes of spreading material.

### ⚠ CAUTION

If rear directional, CHMSL light or brake stoplights are obstructed by the spreader, the lights shall be relocated, or auxiliary directional or brake stoplights shall be installed.

### ⚠ CAUTION

During the hopper installation we recommend the addition of an OSHA compliant Backup Alarm. This alarm is required for OSHA governed employers.

### ⚠ CAUTION

- Do not operate a spreader in need of maintenance.
- Before operating the spreader, reassemble any parts or hardware removed for cleaning or adjusting.
- Before operating the spreader, remove materials such as cleaning rags, brushes, and hand tools from the spreader.
- While operating the spreader, use auxiliary warning lights, except when prohibited by law.
- Tighten all fasteners according to the Torque Chart. Refer to Torque Chart for the recommended torque values.

### ⚠ CAUTION

Disconnect electric and/or hydraulic power and tag out if required before servicing or performing maintenance.

### ⚠ CAUTION



DO NOT leave unused material in hopper. Material can freeze or solidify, causing unit to not work properly. Empty and clean after each use.

**NOTE:** Lubricate grease fittings after each use. Use a good quality multipurpose grease.

## PERSONAL SAFETY

- Remove ignition key and put the vehicle in park or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or spreader.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

# SAFETY

## FIRE AND EXPLOSION

### ⚠ WARNING

**Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.**

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

## CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communication Equipment such as cell phones, text messaging devices, pagers or two-way radios.

## VENTILATION

### ⚠ WARNING

**Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.**

## BATTERY SAFETY

### ⚠ CAUTION

**Batteries normally produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks, or lit tobacco to come near battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.**

- **Batteries contain sulfuric acid, which burns skin, eyes and clothing.**
- **Disconnect the battery before removing or replacing any electrical components.**

## NOISE

Airborne noise emission during use is below 70 dB(A) for the spreader operator.

## VIBRATION

Operating snowplow vibration does not exceed 2.5 m/s<sup>2</sup> to the hand-arm or 0.5 m/s<sup>2</sup> to the whole body.

## TORQUE CHART

### ⚠ CAUTION

**Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to torque chart. Use standard methods and practices when attaching spreader, including proper personal protective safety equipment.**

Recommended Fastener Torque Chart					
Inch Fasteners Grade 5 and Grade 8					
Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Grade 5	 Grade 8		 Grade 5	 Grade 8
1/4-20	8.4	11.9	9/16-12	109	154
1/4-28	9.7	13.7	9/16-18	121	171
5/16-18	17.4	24.6	5/8-11	150	212
5/16-24	19.2	27.3	5/8-18	170	240
3/8-16	30.8	43.6	3/4-10	269	376
3/8-24	35.0	49.4	3/4-16	297	420
7/16-14	49.4	69.8	7/8-9	429	606
7/16-20	55.2	77.9	7/8-14	474	669
1/2-13	75.3	106.4	1-8	644	909
1/2-20	85.0	120.0	1-12	704	995
Metric Fasteners Class 8.8 and 10.9					
Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Class 8.8	 Class 10.9		 Class 8.8	 Class 10.9
M6 x 1.00	7.7	11.1	M20 x 2.50	325	450
M8 x 1.25	19.5	26.9	M22 x 2.50	428	613
M10 x 1.50	38.5	53.3	M24 x 3.00	562	778
M12 x 1.75	67	93	M27 x 3.00	796	1139
M14 x 2.00	107	148	M30 x 3.50	1117	1545
M16 x 2.00	167	231	M33 x 3.50	1468	2101
M18 x 2.50	222	318	M36 x 4.00	1952	2701
These torque values apply to fasteners except those noted in the instructions.					

# LOADING

These instructions cover vehicles recommended for carrying the spreader. Please see your sales outlet for proper vehicle applications.

## **⚠ WARNING**

Overloading could result in an accident or damage. Do not exceed GVWR or GAWR ratings as found on the driver-side cornerpost of vehicle. See Loading section to determine maximum volumes of spreading material.

## CERTIFICATION

## **⚠ WARNING**

New untitled vehicle installation of a spreader requires National Highway Traffic Safety Administration altered vehicle certification labeling. Installer to verify that struck load of snow or ice control material does not exceed GVWR or GAWR rating label and complies with FMVSS.

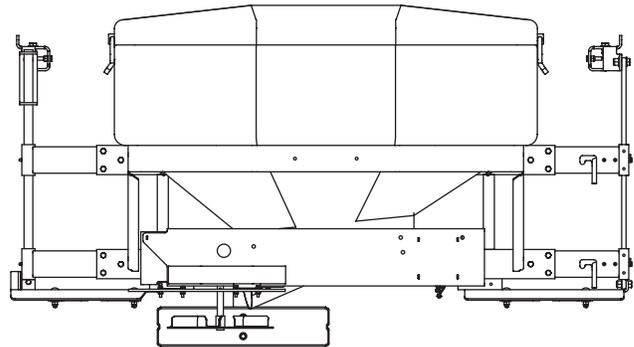
## **⚠ CAUTION**

Read and adhere to manufacturer's ice-control material package labeling including Material Safety Data Sheet requirements.

## MATERIAL WEIGHTS

Material	Density		
	(lb/ft <sup>3</sup> )	(lb/yd <sup>3</sup> )	(kg/m <sup>3</sup> )
Salt	80	2160	1282
Sand	100	2700	1602

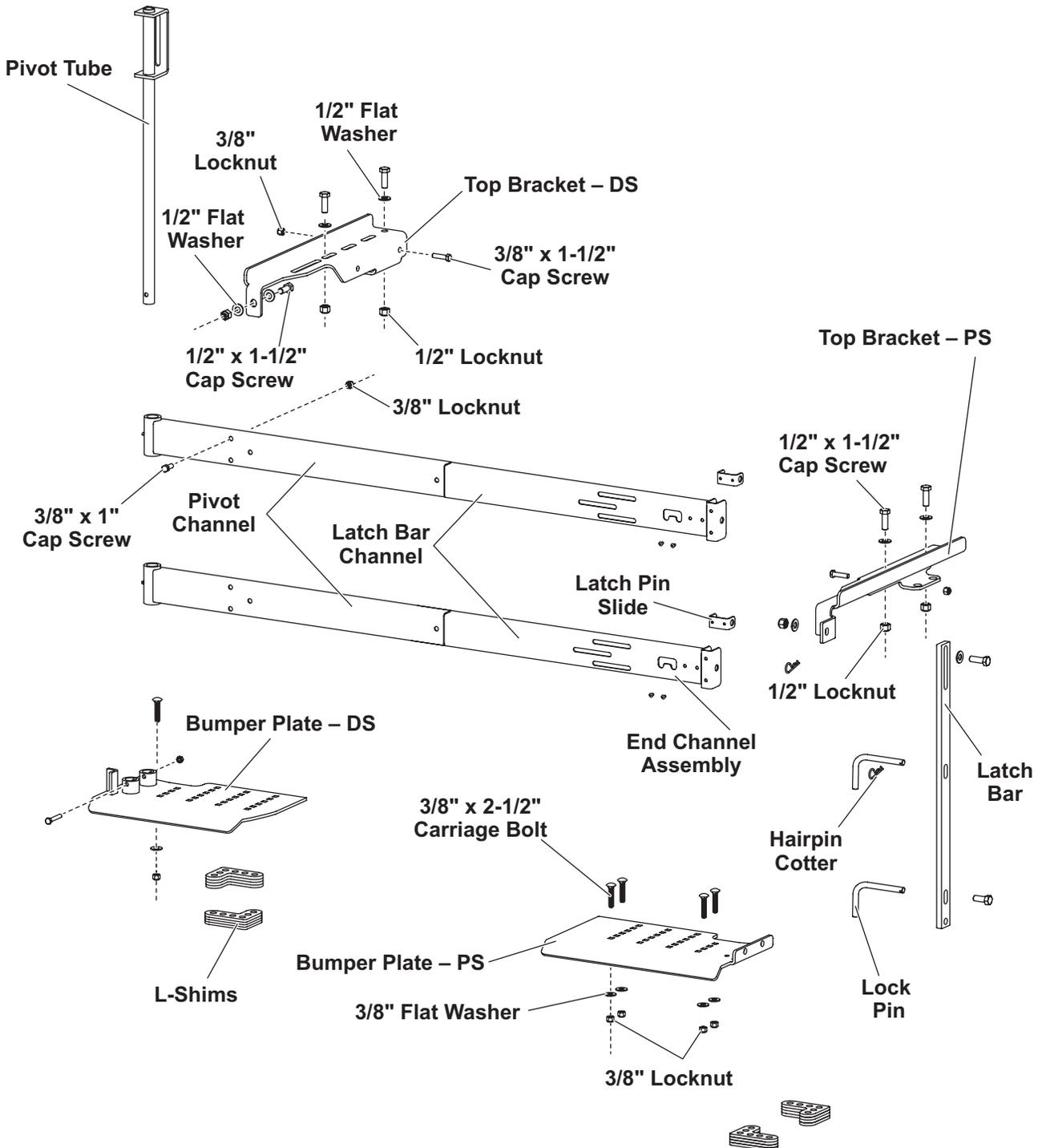
Material densities are approximate and are based on dry loose material. It is the responsibility of the operator to know the weight of the material to be spread and the vehicle carrying capacity.



# PIVOT MOUNT INSTALLATION

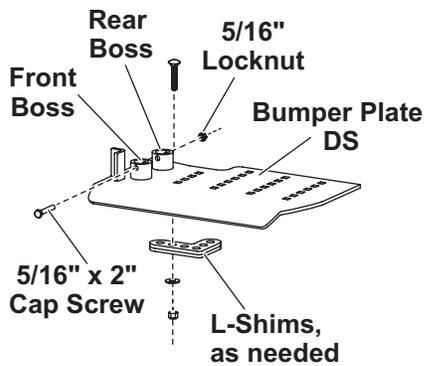
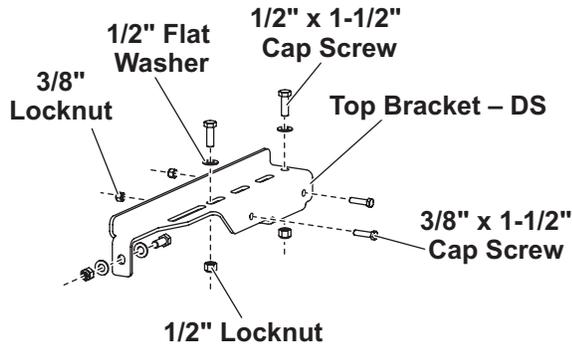
## Pivot Mount Installation

**NOTE:** Remove any existing trailer hitch and other after-market equipment that may interfere with the installation of this product according to these instructions.

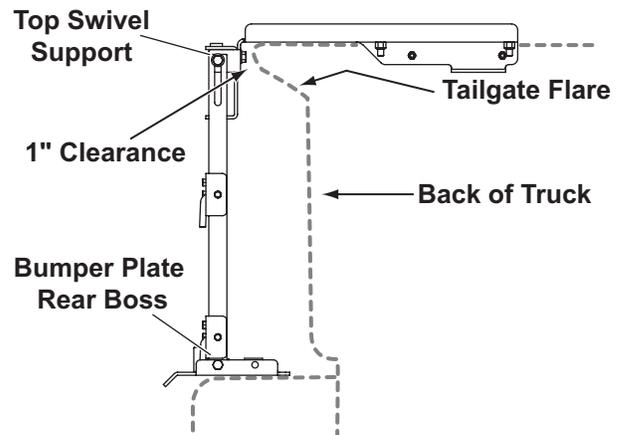
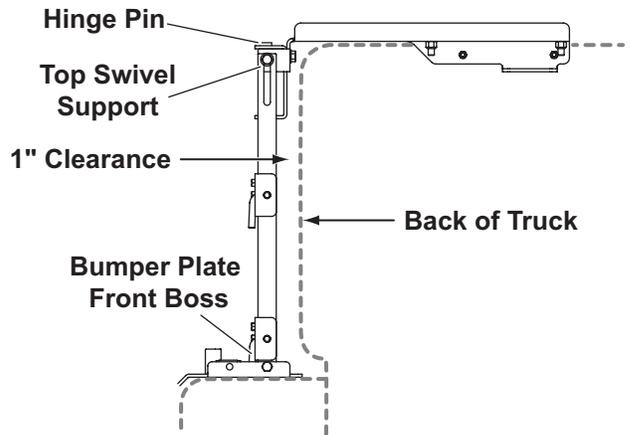


# PIVOT MOUNT INSTALLATION

1. Shut vehicle OFF and remove key from ignition.
2. Remove all mount assembly parts and hardware from the shipping carton.
3. Set the bumper plates on the bumper in the approximate positions where they will be installed.
4. Set the top brackets on the truck bed rail and loosely fasten pivot tube and latch bar to top brackets and bumper plates, leaving at least 1" clearance between frame and rearmost tailgate. The mount bumper plates have two configurations to allow room for tailgate flares at the top. Make sure the pivot tube and latch bar are completely vertical.



Use L-shims to compensate for bumpers that are stepped or not completely flat.



**NOTE:** The pins must be vertical and the bracket bosses must be aligned with each other. Any misalignment will create difficulty in removal of the pins. Use shims as required to align parts.

# PIVOT MOUNT INSTALLATION

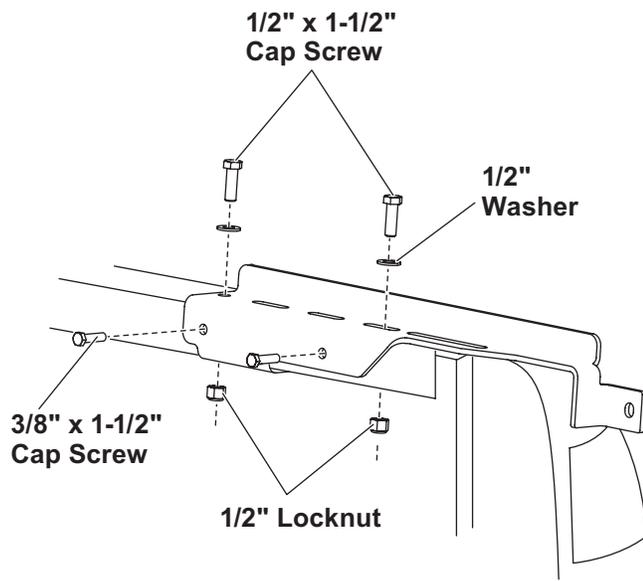
- Clamp top brackets into place. Use the large slots in the top of the brackets as guides to locate and mark two holes on each side. Check under the bed rails for any obstructions before choosing the hole locations. Remove the vehicle tail lamps, if necessary, to locate the rearmost holes.

## ⚠ CAUTION

Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.

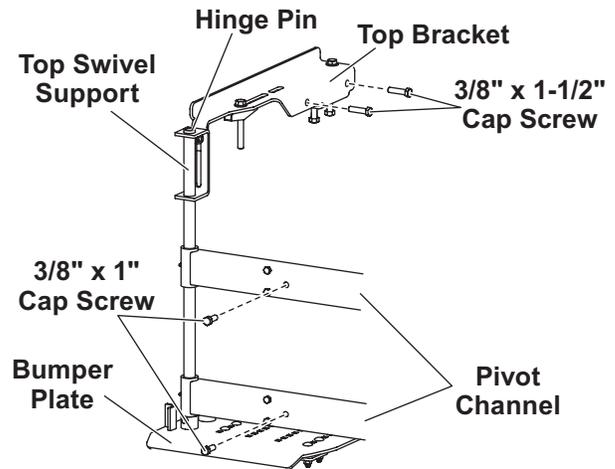
- Center punch and drill  $17/32$ " diameter holes through the bed rail in the marked positions (2 per side). Install and tighten the  $1/2$ " x  $1-1/2$ " cap screws, two flat washers and two locknuts.

If it is not possible to install the rearmost cap screw from above, remove the vehicle tail lamp and install the  $1/2$ " locknut, inserting it from below.



**NOTE: Pay special attention when drilling or clamping dissimilar metals to aluminum bodies. Galvanic corrosion can occur if not handled properly. Contact vehicle manufacturer for recommended attachment practices.**

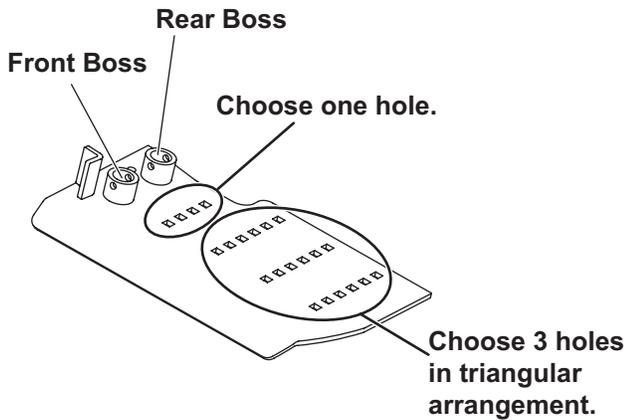
- Use the  $3/8$ " pre-punched holes in the top bracket as a template to center punch and drill two  $13/32$ " diameter holes in the inside flanges of each side of the truck bed. Check behind the bed rail for any obstruction before choosing holes.
- Install and tighten two  $3/8$ " x  $1-1/2$ " cap screws, two flat washers and two locknuts through the bracket and inside flanges on each side of the truck bed.



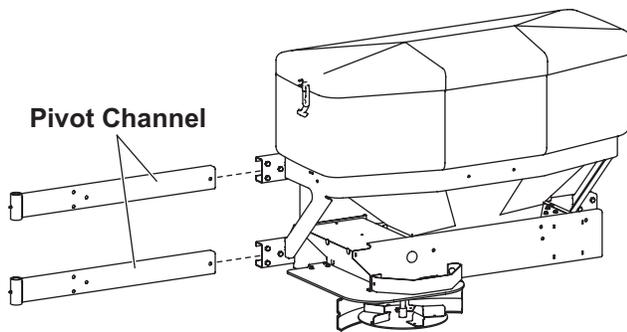
- Readjust the bumper plates if necessary to ensure vertical alignment with the top brackets and clearance to the vehicle. Verify that the pivot tube does not bind when inserted in the top bracket and the bumper plate.
- With the pivot tube and latch bar in the vertical position, mark four holes on each bumper plate to be drilled, making sure that there are no obstructions or electrical harnesses underneath the bumper. (If using the L-shims to level the bumper plates, mark holes that align with the L-shims to keep the bumper plates level.)
- Drill the marked holes in the bumper with a  $13/32$ " drill. Install the eight carriage bolts into the bumper plates. Loosely tighten all fasteners to the bumper.

# PIVOT MOUNT INSTALLATION

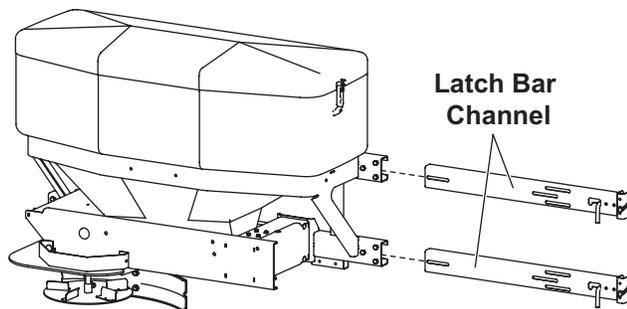
12. If L-shims are used, at least one fastener should pass through each set of shims.



13. Slide pivot channels into driver-side tailgate spreader as shown, using the supplied 3/8" hardware. Loosely fasten them in place.



14. Slide latch bar channels into passenger-side tailgate spreader as shown, using the supplied 3/8" hardware. Loosely fasten them in place.



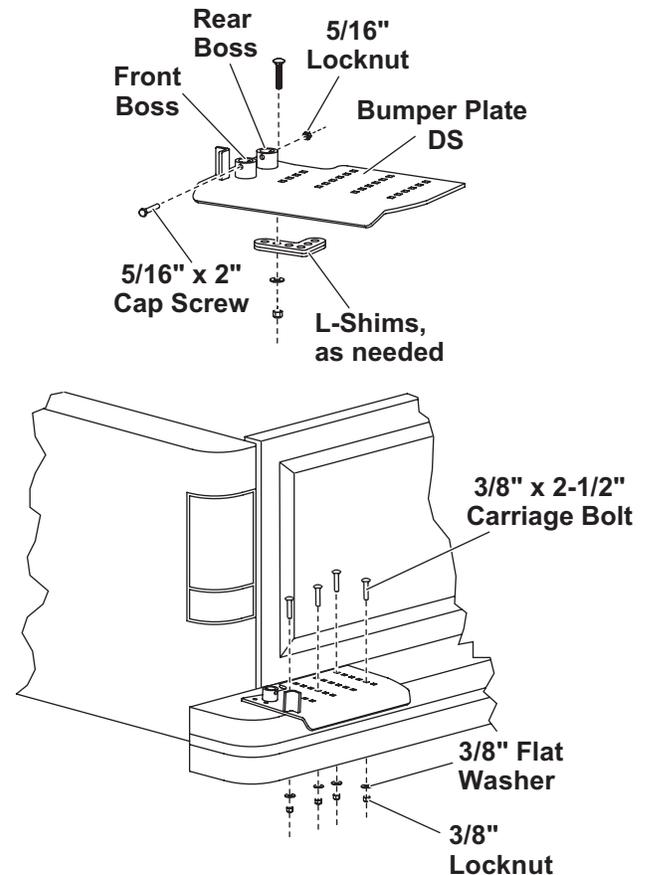
**NOTE: Passenger-side channels have slots to adjust the width to align to the pivot mount. The passenger-side channels will use the supplied washers to ensure a tight channel to spreader frame connection.**

15. Remove the pivot tube from the mount setup on the truck. Slide into the driver-side pivot channels.

**⚠ CAUTION**

**During removal or mounting, securely grip spreader to avoid dropping.**

16. Lift the spreader assembly and place the pivot tube into the boss that was configured for setup. Install and tighten the 5/16" x 2" cap screw and locknut. Place the 1/2" x 1-1/2" cap screw, two washers and locknut into the driver-side top bracket and pivot tube slot. Tighten in place.



17. Pivot the spreader assembly toward the latch bar. Slide and adjust the passenger-side channels to align with the latch bar. Lift and slide the latch pins into place.

18. Recheck all alignments of the pivot tube and latch bar.

**NOTE: Tighten all fasteners according to the torque chart.**

---

The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. This equipment manufacturer or the vehicle manufacturer may require or recommend optional equipment for spreaders. Do not exceed vehicle ratings with a spreader. The company offers a limited warranty for all spreaders and accessories. See separately printed page for this important information.

**Printed in U.S.A.**