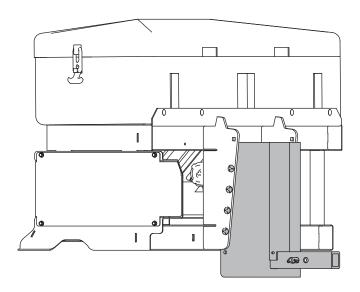


# Receiver Hitch Mount Kit TPR-020-1

# **Installation Instructions**



## **A** CAUTION

Read Owner's Manual before operating or servicing spreader.

## SAFETY DEFINITIONS

#### **A** WARNING

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

### **A** 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.

#### **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.

## **A** 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.

#### **A** 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.

#### **A** 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.

#### **A** CAUTION

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

## **A** 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.

#### **A** CAUTION

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

#### **A** 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.

## FIRE AND EXPLOSION

#### **A** 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**

#### **A 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

#### **A** 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 spreader 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**

#### **A** 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)			Torque (ft-lb)			
	Grade 5	Grade 8	Size	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							
	Torque (ft-lb)			Torque (ft-lb)			
Size	Class 8.8	Class 10.9	Size	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 / MATERIAL WEIGHTS

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

#### LOADING

NOTE: If spreader and ice control material loading is in doubt, weigh vehicle for compliance with vehicle ratings.

#### **A WARNING**

Do not overload vehicle. Use table below to calculate weight of material. Weights of material are an average for dry materials.

#### **A** CAUTION

Never use wet materials or materials with foreign debris with any of these spreaders. These units are designed to handle dry, clean, free-flowing material.



#### **A** CAUTION

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

## **MATERIAL WEIGHTS**

	Density				
Material	(lb/ft³)	(lb/yd³)	(kg/m³)		
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.

## MOUNT INSTALLATION

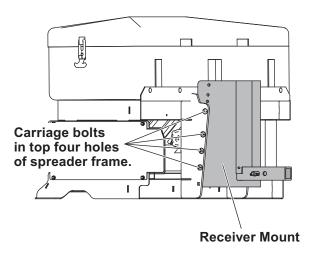
## **Mount Installation**

This receiver hitch mount allows for spreader height adjustment depending on vehicle application.

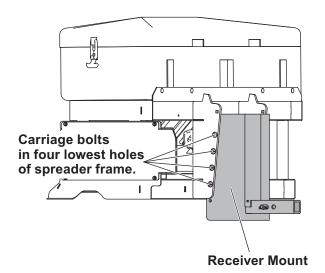
NOTE: Remove any existing trailer hitch and other after-market equipment that may interfere with the installation of this product according to these instructions.

- Park the vehicle on a smooth, level, hard surface such as concrete. Turn the vehicle ignition to the "OFF" position, and remove the key.
- 2. Remove all mount assembly parts and hardware from shipping carton.
- Position the mount to the spreader frame, aligning the mounting holes to achieve the desired spreader height. At minimum of four fasteners per side are required to securely install the mount.
- 4. Insert 3/8" x 1-1/2" carriage bolts in the four selected holes on each side of the mount. Add a 3/8" flat washer and 3/8" locknut on each bolt, but do not fully tighten the fasteners yet.

Mount installed for lowest spreader position.

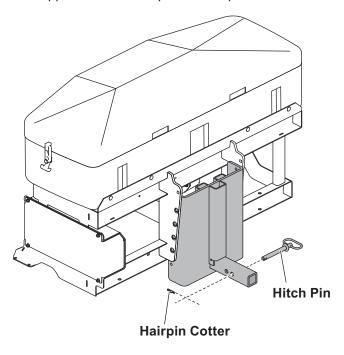


Mount installed for highest spreader position.



## **MOUNT INSTALLATION**

- 5. Working in a crisscross sequence, fully tighten the fasteners according to the torque chart.
- 6. With assistance, lift the spreader and mount assembly onto the vehicle receiver mount. Secure the spreader assembly to the vehicle using the supplied 4-1/2" hitch pin and hairpin cotter.





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