August 15, 2019 Lit. No. 78840, Rev. 02



# **MOUNT KIT**

Ram 4500/5500

2019-

**Installation Instructions** 

## **A** CAUTION

Read this document before installing the snowplow.

# **A** CAUTION

See your FISHER® outlet/website for specific vehicle application recommendations before installation. The eMatch selection system has specific vehicle and snowplow requirements.

## **SAFETY DEFINITIONS**

#### **A** WARNING

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

## **A** CAUTION

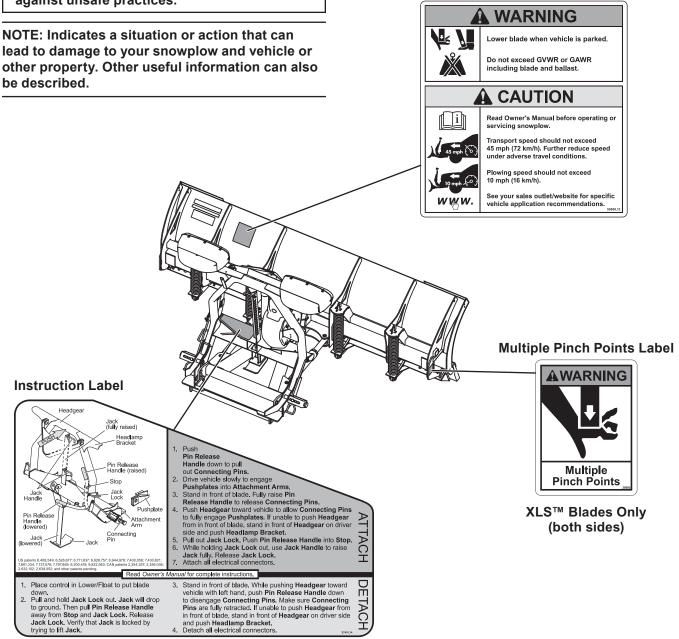
Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

## WARNING/CAUTION AND INSTRUCTION **LABELS**

Become familiar with and inform users about the warning labels on the back of the blade and the instruction label on the headgear.

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



## **SAFETY PRECAUTIONS**

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating, or making adjustments.

#### **A WARNING**

Lower blade when vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this could result in serious personal injury.

#### **A** WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered, or angled. Do not stand between vehicle and blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

#### **A** WARNING

Keep hands and feet clear of the blade and A-frame when mounting or removing the snowplow. Moving or falling assemblies could cause personal injury.

#### **A** WARNING

Do not exceed GVWR or GAWR including the blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

#### **A WARNING**

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

#### **A** WARNING

Remove blade assembly before placing vehicle on hoist.

## **A** CAUTION

Refer to the eMatch selection system for minimum vehicle recommendations and ballast requirements.

#### PERSONAL SAFETY

- Remove the 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 snowplow.
- 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.

## **NOISE**

Airborne noise emission during use is below 70 dB(A) for the snowplow 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**

#### **A** CAUTION

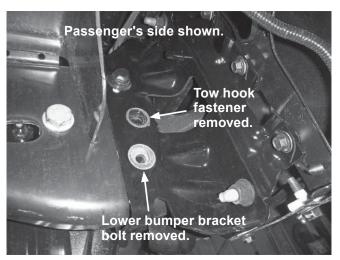
Read instructions before assembling.
Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow, including proper personal protective safety equipment.

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					
Size	Torque (ft-lb)			Torque (ft-lb)	
	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.					

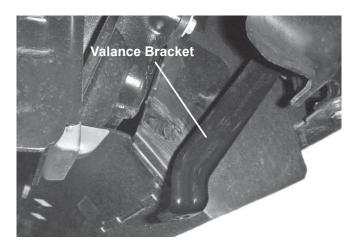
## INSTALLATION INSTRUCTIONS

NOTE: For easier assembly and installation, vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

- Remove the plastic valance from the bumper.
   Save the valance and fasteners for reinstallation.
- 2. Remove the forward tow hook fastener and the lower bumper bracket bolt from each side of the vehicle. Leave the tow hooks in place.



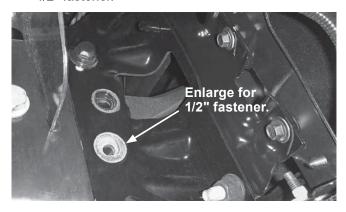
3. Remove the left and right valance brackets. Retain them for reinstallation if the snowplow mount is later removed from the vehicle.



### **A** CAUTION

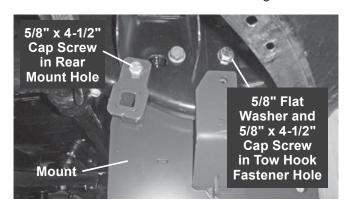
Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.

 Enlarge the lower bumper bracket bolt holes on both sides of the vehicle to accommodate a 1/2" fastener.

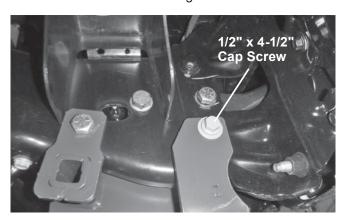


5. Position the passenger-side mount over the vehicle frame. Slip a 5/8" washer onto a 5/8" x 4-1/2" cap screw, then insert the cap screw from the outside through the tow hook bolt hole in the frame and the upper forward hole in the mount. Secure with a 5/8" locknut and hand tighten.

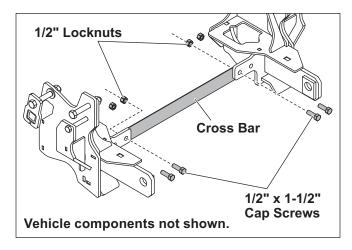
Install a second 5/8" x 4-1/2" cap screw through the rear hole of the mount and the vehicle frame. Secure with a 5/8" locknut and hand tighten.



6. Install a 1/2" x 4-1/2" cap screw through the enlarged lower bumper bracket hole. Secure with a 1/2" locknut and hand tighten.



- Repeat Steps 5 and 6 to install the driver-side mount.
- 8. Install the mount cross bar to the two mounts using four 1/2" x 1-1/2" cap screws (two on each end of the cross bar). Secure the fasteners with 1/2" locknuts and hand tighten.



- 9. Tighten all mount fasteners according to the torque chart.
- 10. Trim the plastic valance as necessary to allow clearance for the mounts, then reinstall the valance using the retained fasteners.

NOTE: After five to ten hours of snowplow usage, retorque all mount assembly fasteners.



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