



**Fisher Engineering**

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# *Minute<sup>2</sup>* **Mount<sup>®</sup>** **SYSTEM**

## MOUNT KIT

GM K1500	1988–00
GM K1500 Suburban	1992–00
GM K2500 w/7200 GVW	1988–95
GM K2500 Suburban w/7200 GVW	1992–95
GM Blazer	1992–94
GM Yukon	1992–99
GM Tahoe	1995–99

## Installation Instructions

### **⚠ CAUTION**

Read this document before installing the snowplow.

### **⚠ CAUTION**

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

**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 or 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 snowplow and vehicle or other property. Other useful information can also be described.

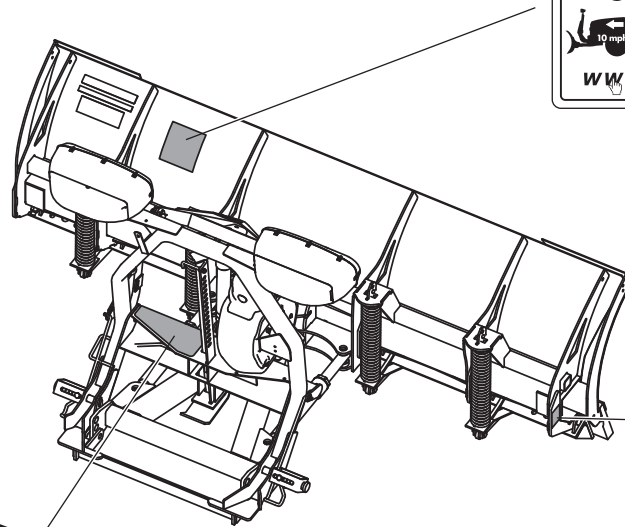
**WARNING/CAUTION AND INSTRUCTION LABELS**

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.

**Warning/Caution Label**

<b>⚠ WARNING</b>	
	Blade could drop unexpectedly, crushing or trapping limbs. Lower blade when vehicle is parked. Overloading could negatively affect vehicle handling. To avoid serious injury or death, do not exceed GVWR or GAWR including blade and ballast.
<b>⚠ CAUTION</b>	
	Read Owner's Manual before operating or servicing snowplow. Transport speed should not exceed 45 mph (72 km/h). Further reduce speed under adverse travel conditions. Plowing speed should not exceed 10 mph (16 km/h). See your sales outlet/website for specific vehicle application recommendations.
WWW.	



**Multiple Pinch Points Label**

**⚠ WARNING**

**Multiple Pinch Points**

**XLSTM Blades Only (both sides)**

**Instruction Label**

1. Push **Pin Release Handle** down to pull out **Connecting Pins**.
2. Drive vehicle slowly to engage **Pushplates** into **Attachment Arms**.
3. Stand in front of blade. Fully raise **Pin Release Handle** to release **Connecting Pins**.
4. Push **Headgear** toward vehicle to allow **Connecting Pins** to fully engage **Pushplates**. If unable to push **Headgear** from in front of blade, stand in front of **Headgear** on driver side and push **Headlamp Bracket**.
5. Pull out **Jack Lock**. Push **Pin Release Handle** into **Stop**.
6. While holding **Jack Lock** out, use **Jack Handle** to raise **Jack** fully. Release **Jack Lock**.
7. Attach all electrical connectors.

**ATTACH**  
**DETACH**

US patents 6,944,976; 7,400,058; 7,430,821; 7,681,334; 7,737,576; 7,797,859; 8,200,418; 8,822,583; 10,763,056; CAN patents 2,354,257; 2,356,036; 2,632,102; 2,639,052; 2,843,990; and other patents pending.

Read Owner's Manual for complete instructions.

1. Place control in Lower/Float to put blade down.
2. Pull and hold **Jack Lock** out. **Jack** will drop to ground. Then pull **Pin Release Handle** away from **Stop** and **Jack Lock**. Release **Jack Lock**. Verify that **Jack** is locked by trying to lift **Jack**.
3. Stand in front of blade. While pushing **Headgear** toward vehicle with left hand, push **Pin Release Handle** down to disengage **Connecting Pins**. Make sure **Connecting Pins** are fully retracted. If unable to push **Headgear** from in front of blade, stand in front of **Headgear** on driver side and push **Headlamp Bracket**.
4. Detach all electrical connectors.

## 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.

### **⚠ 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.**

### **⚠ WARNING**

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

### **⚠ 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.**

### **⚠ WARNING**

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

### **⚠ 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.**

### **⚠ WARNING**

**Remove blade assembly before placing vehicle on hoist.**

### **⚠ CAUTION**

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

## 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 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.

### **⚠ 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.**

## FIRE AND EXPLOSION

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.**

**TORQUE CHART**

**⚠ 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)		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.

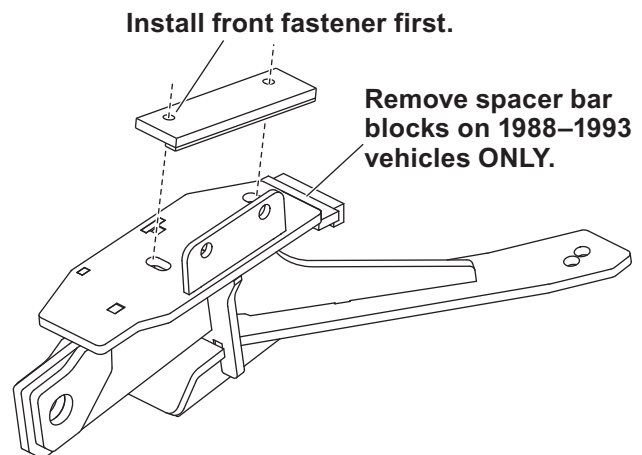
**INSTALLATION INSTRUCTIONS**

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

1. Remove and discard the air dam and tow hooks.

**On 1988–1993 vehicles only:** Before installing the pushplates, remove the spacer block on rear of top plate with slotted holes, and remove any burrs.

2. On the driver's side, place the bolting bar inside the frame. Check the bottom of the frame. If any weld is overlapping the frame, grind it flat with the frame. Place the pushplate under the frame and install two 1/2" x 1-1/2" cap screws with 1/2" flat washers up through the pushplate, frame, and into the threaded holes on the bolting bar. Tighten.

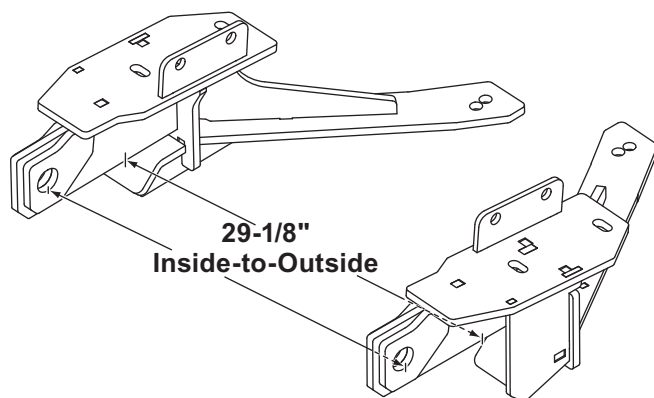


**⚠ CAUTION**

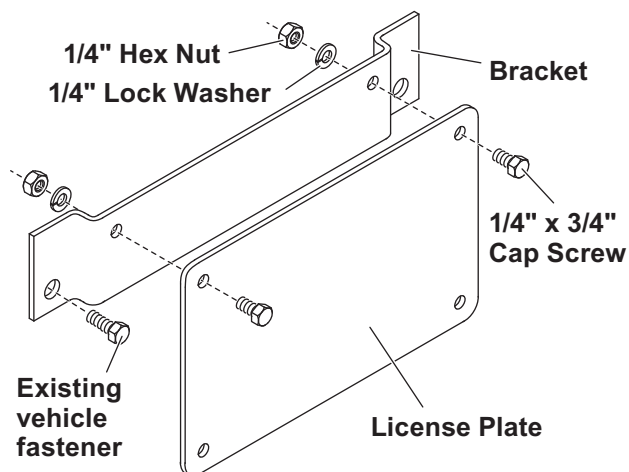
Use caution not to pinch, cut, or drill through any wires or hoses running along the frame rail.

3. Using the two holes on the tab on the inside of the frame as guides, drill two 17/32" holes through the frame. Install two 1/2" x 1-1/2" cap screws and 1/2" flat washers from inside the frame, out through the frame and the holes in the tabs. Fasten with two 1/2" locknuts.
4. Repeat Steps 2 and 3 on the passenger's side of the vehicle.

5. Tighten all fasteners according to the torque chart.
6. Check the inside-to-outside dimension between the connecting pin arms. This measurement should be 29-1/8". If the measurement is not 29-1/8" and plates are not parallel, loosen all fasteners and remove the 1/2" x 1-1/2" cap screws that hold the tab on the frame for each pushplate. Slide 5/8" flat washers between the tab (one for each hole) and the frame, as needed, and reinsert the cap screws. Tighten all fasteners in the same order as installed.
7. Check the inside-to-outside dimension between the connecting pin arms again. Repeat Step 6 as needed to obtain the 29-1/8" dimension while keeping the connecting pin arms parallel.
8. Install a 1/2" x 1-1/2" cap screw with 1/2" flat washer down through the hole in the cross member on the vehicle and rear hole in the rear leg of the pushplate. Ream or drill the frame hole if necessary. Fasten with a 1/2" lock washer and nut. Tighten all fasteners according to the torque chart.
9. Remove the original equipment license plate bracket. Retain the fasteners.
10. Using the saved fasteners, attach the bracket to the top license plate bracket holes in the bumper. Attach the license plate to the bracket using two 1/4" x 3/4" cap screws, 1/4" lock washers, and 1/4" nuts. Tighten all fasteners according to the torque chart.



7. Check the inside-to-outside dimension between the connecting pin arms again. Repeat Step 6 as needed to obtain the 29-1/8" dimension while keeping the connecting pin arms parallel.



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

Fisher Engineering 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. Fisher Engineering or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. Fisher Engineering offers a limited warranty for all snowplows and accessories. See separately printed page for this important information. The following are registered (®) trademarks of Douglas Dynamics, LLC: FISHER®, Minute Mount® 2.

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