



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

**SYSTEM**

## **MOUNT KIT**

**International TerraStar 4x4**

**2013 - \_\_**

**Installation Instructions**

**⚠ CAUTION**

Read this document before installing the snowplow.

**⚠ CAUTION**

See your FISHER<sup>®</sup> outlet/Web site for specific vehicle application recommendations before installation. The Kit Selection Guide 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.

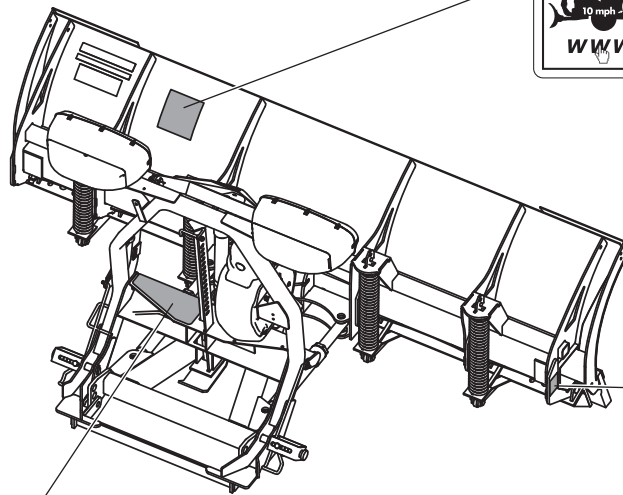
**WARNING/CAUTION AND INSTRUCTION LABELS**

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>   |   |
|      | Lower blade when vehicle is parked.   |
|      | 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/Web site for specific vehicle application recommendations. 59903 |   |

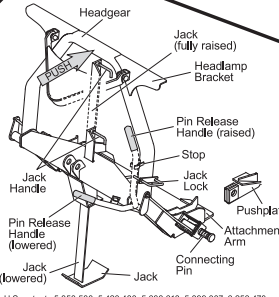


Multiple Pinch Points Label

|   |  |
|---|--|
| <b>⚠ WARNING</b>  |  |
|  |  |
| <b>Multiple Pinch Points</b>  |  |

**XLSTM™ Blades Only  
(both sides)**

Instruction Label

|   |  |
|---|--|
|    | <ol style="list-style-type: none"> <li>1. Push <b>Pin Release Handle</b> down to pull out <b>Connecting Pins</b>.</li> <li>2. Drive vehicle slowly to engage <b>Pushplates</b> into <b>Attachment Arms</b>.</li> <li>3. Stand in front of blade. Fully raise <b>Pin Release Handle</b> to release <b>Connecting Pins</b>.</li> <li>4. Push <b>Headgear</b> toward vehicle to allow <b>Connecting Pins</b> to fully engage <b>Pushplates</b>. If unable to push <b>Headgear</b> from in front of blade, stand in front of <b>Headgear</b> on driver side and push <b>Headlamp Bracket</b>.</li> <li>5. Pull out <b>Jack Lock</b>. Push <b>Pin Release Handle</b> into <b>Stop</b>.</li> <li>6. While holding <b>Jack Lock</b> out, use <b>Jack Handle</b> to raise <b>Jack</b> fully. Release <b>Jack Lock</b>.</li> <li>7. Attach all electrical connectors.</li> </ol> <p style="text-align: center;"><small>Read Owner's Manual for complete instructions.</small></p> |
| <p><small>U.S. patents 5,353,530; 5,420,480; 5,638,618; 5,899,007; 6,253,470; 6,498,549; 6,944,978; 7,400,058; 7,430,821; 7,681,334; 7,737,576; 7,797,859; CAN patents 2,060,425; 2,184,922; 2,229,783; 2,356,036; and other patents pending.</small></p> <ol style="list-style-type: none"> <li>1. Place control in Lower/Float to put blade down.</li> <li>2. Pull and hold <b>Jack Lock</b> out. <b>Jack</b> will drop to ground. Then pull <b>Pin Release Handle</b> away from <b>Stop</b> and <b>Jack Lock</b>. Release <b>Jack Lock</b>. Verify <b>Jack</b> is locked by trying to lift <b>Jack</b>.</li> <li>3. Stand in front of blade. While pushing <b>Headgear</b> toward vehicle with left hand, push <b>Pin Release Handle</b> down to disengage <b>Connecting Pins</b>. Make sure <b>Connecting Pins</b> are fully retracted. If unable to push <b>Headgear</b> from in front of blade, stand in front of <b>Headgear</b> on driver side and push <b>Headlamp Bracket</b>.</li> <li>4. Detach all electrical connectors.</li> </ol> | <p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>ATTACH</b></p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>DETACH</b></p>  |

## 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 Kit Selection Guide 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.

## 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.**

**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**

**⚠ CAUTION**

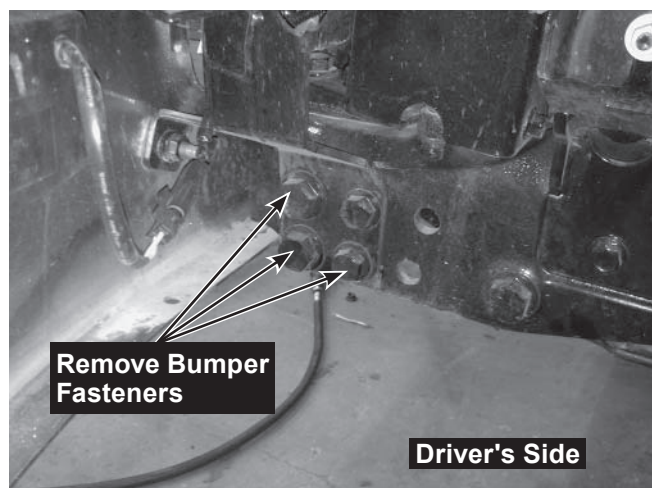
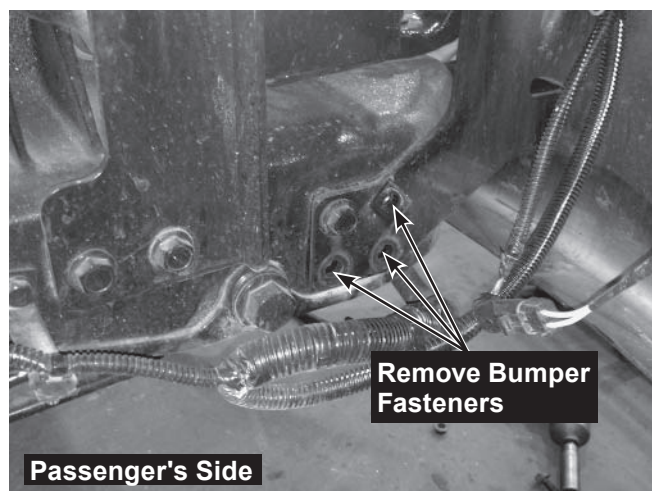
**Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.**

| <b>Recommended Fastener Torque Chart (ft-lb)</b>                              |  |  |  |
|---|--|--|--|
| <b>Size</b>   | <b>Torque</b>  |  |  |
|   |  <b>SAE Grade 2</b> |  <b>SAE Grade 5</b> |  <b>SAE Grade 8</b> |
| 1/4-20  | 6  | 9  | 13   |
| 5/16-18   | 11   | 18   | 28   |
| 3/8-16  | 19   | 31   | 46   |
| 3/8-24  | 24   | 46   | 68   |
| 7/16-14   | 30   | 50   | 75   |
| 1/2-13  | 45   | 75   | 115  |
| 9/16-12   | 66   | 110  | 165  |
| 5/8-11  | 93   | 150  | 225  |
| 3/4-10  | 150  | 250  | 370  |
| 7/8-9   | 150  | 378  | 591  |
| 1-8   | 220  | 583  | 893  |
| <b>Metric Grade 8.8 (ft-lb)</b>   |  |  |  |
| <b>Size</b>   | <b>Torque</b>  | <b>Size</b>  | <b>Torque</b>  |
| M 6   | 7  | M 12   | 60   |
| M 8   | 17   | M 14   | 95   |
| M 10  | 35   | M 16   | 155  |
| These torque values apply to fasteners except those noted in the instruction. |  |  |  |

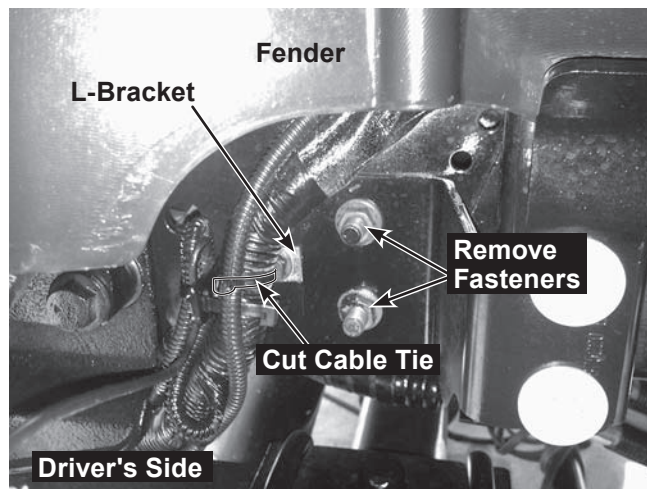
## INSTALLATION INSTRUCTIONS

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

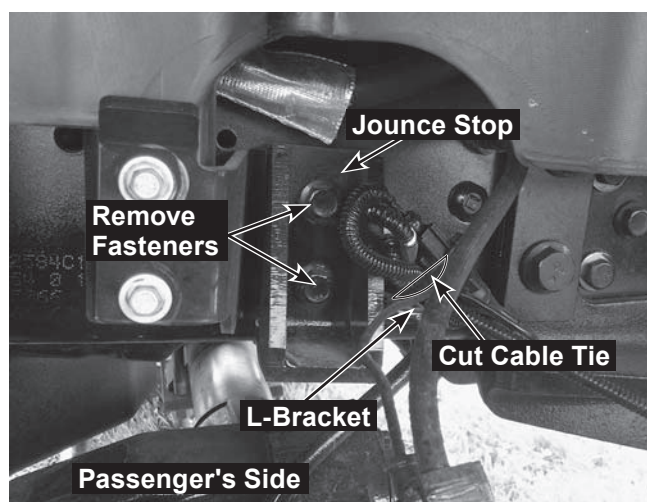
1. Check to ensure that the vehicle's front bumper is level and in a desirable position. Adjust if necessary. Remove three of the bumper bracket fasteners on each side of the truck. Do not loosen the fourth bumper bracket cap screw as it maintains the preset bumper position during this step.



2. For both sides, cut the cable ties to free the harness and remove the L-brackets as shown below. Retain all bracket parts for reinstallation. Use caution not to damage the brake cable and hose running from the L-shaped bracket to the wheel assembly.



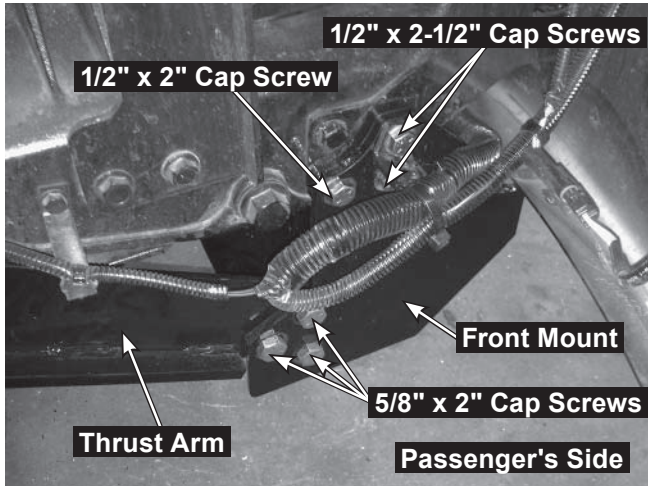
3. On the driver's side, remove the two fasteners shown above. Remove the plastic fender shown.



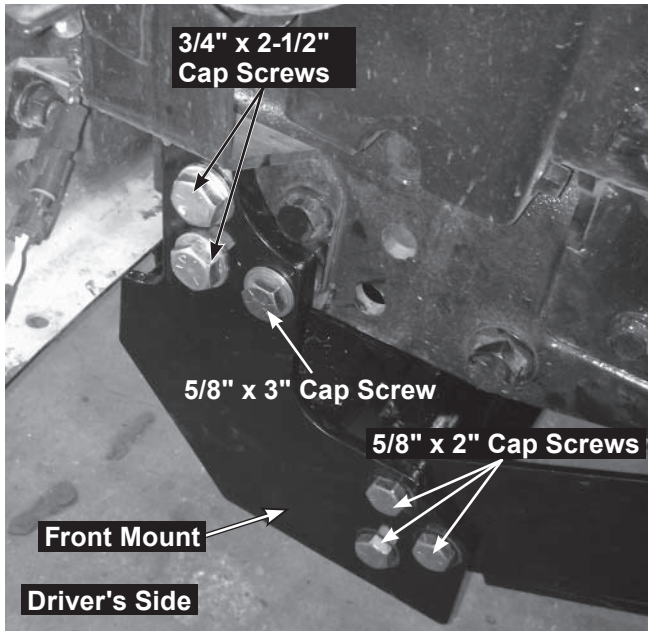
4. On the passenger's side, remove the jounce stop fasteners and the jounce stop.



- Position the front mount as shown. On the passenger's side, Loosely attach the front mount using 1/2" x 2" and 1/2" x 2-1/2" cap screws and locknuts. Use caution not to damage the lighting harness running under the passenger-side frame end. It may be necessary to cut its plastic tie and reposition the lighting harness temporarily during this step. If so, use one of the provided cable ties to reattach it.

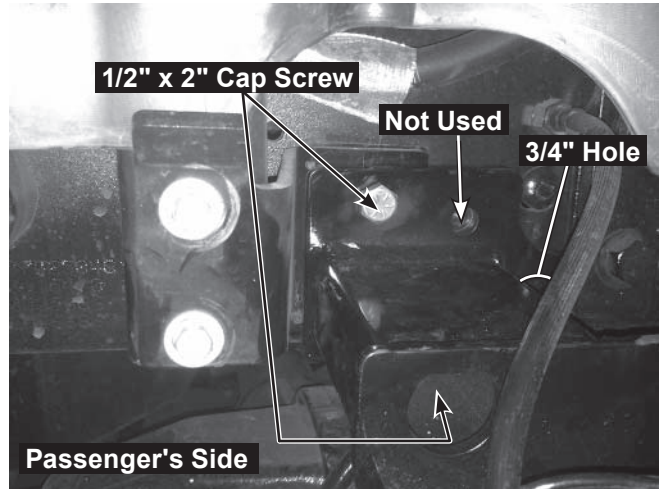


- On the driver's side, loosely attach the front mount using 3/4" x 2-1/2" cap screws and locknuts and one 5/8" x 3" cap screw and locknut.



- On both sides, loosely attach the corresponding thrust arm using three 5/8" x 2" cap screws and locknuts.

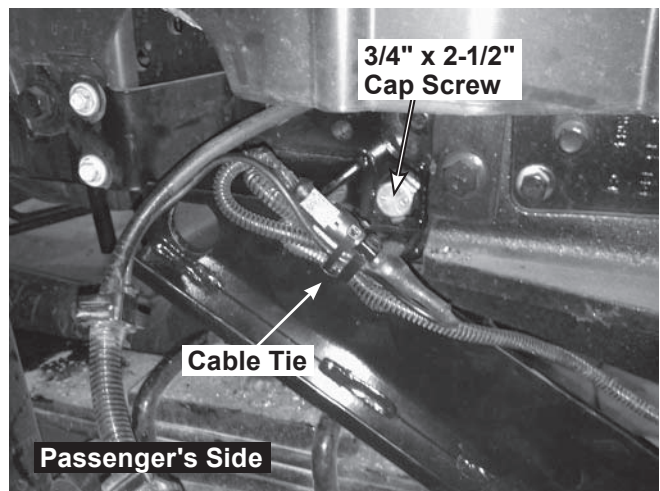
- Position the rear end of the passenger-side thrust arm as shown and attach using 1/2" x 2" cap screws and locknuts.



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

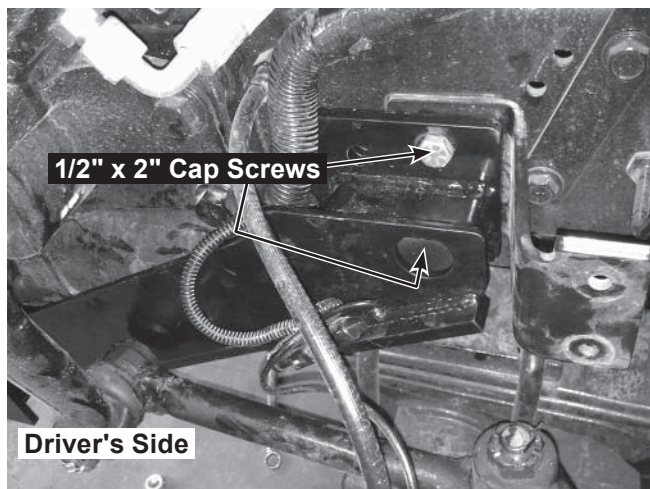
- On the passenger's side, mark a 3/4" hole using the passenger-side thrust arm as a template. Remove the thrust arm and drill hole. Reattach the thrust arm using 3/4" x 2-1/2" and 1/2" x 2" cap screws and locknuts.

The 5/8" hole is not used on this side.



- Cable tie the vehicle harnesses as shown. Apply the provided anti-chafing material to the harness or hoses if they come into contact with the thrust arm.

11. Attach the rear end of the driver-side thrust arm as shown using 1/2" x 2" cap screws and locknuts.

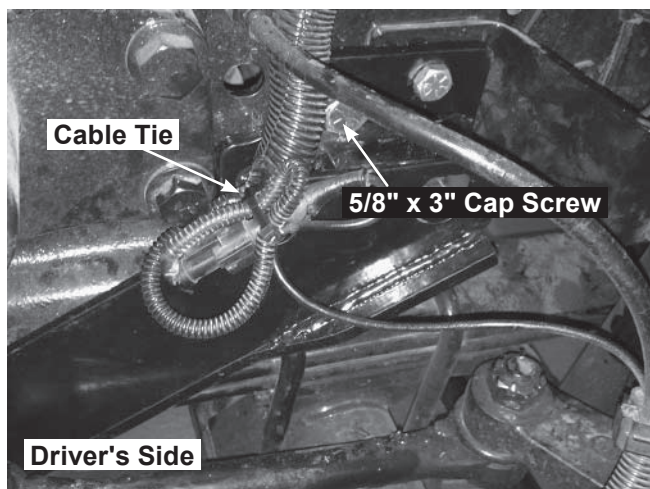


**⚠ CAUTION**

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

12. On the driver's side, using the 11/16" diameter hole as a guide, drill a 5/8" hole. Secure the driver-side thrust arm using a 5/8" x 3" cap screw.

The 3/4" hole is not used on this side.



13. Secure the vehicle harnesses with cable ties as shown. Apply the provided anti-chafing material to the harness or hoses if they come into contact with the thrust arm.

14. Tighten all fasteners according to the torque chart, starting with the vehicle to frame fasteners, front to back, and finishing with the thrust arm to mount fasteners.

15. Reinstall the driver-side fender using the original fasteners.

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

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