



MOUNT KIT

International TerraStar 4 x 2

2011 - __

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your FISHER® 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.

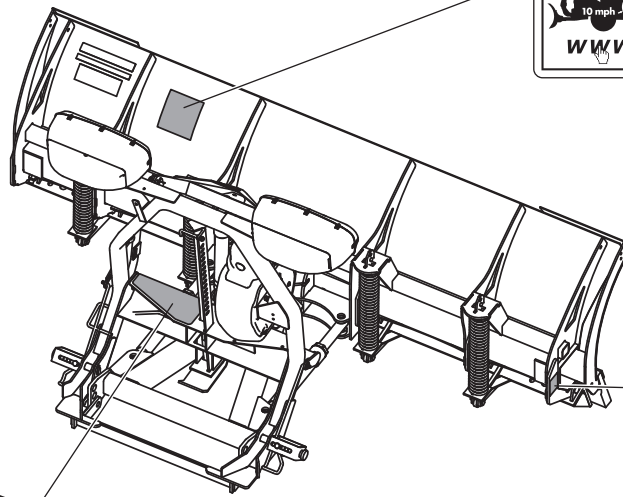
WARNING/CAUTION AND INSTRUCTION LABELS

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

⚠ WARNING	
	Lower blade when vehicle is parked.
	Do not exceed GVWR or GAWR including blade and ballast.
⚠ CAUTION	
	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	

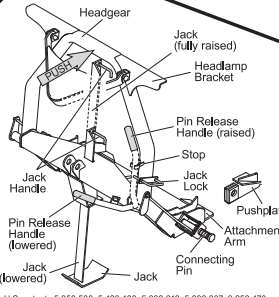


Multiple Pinch Points Label

⚠ WARNING	
	
Multiple Pinch Points	

XLSTM Blades Only (both sides)

Instruction Label

	<ol style="list-style-type: none"> 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. <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"> 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 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. 	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">ATTACH</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">DETACH</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.




VIBRATION

Operating snowplow vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

TORQUE CHART

⚠ CAUTION

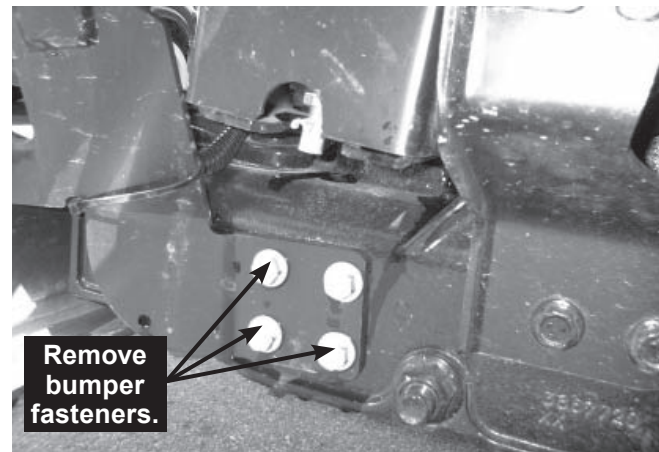
Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.

Recommended Fastener Torque Chart (ft-lb)			
Size	Torque		
	 SAE Grade 2	 SAE Grade 5	 SAE Grade 8
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
Metric Grade 8.8 (ft-lb)			
Size	Torque	Size	Torque
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.			

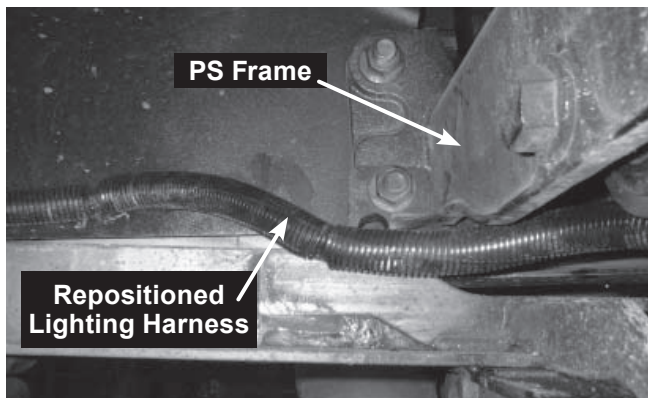
INSTALLATION INSTRUCTIONS

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

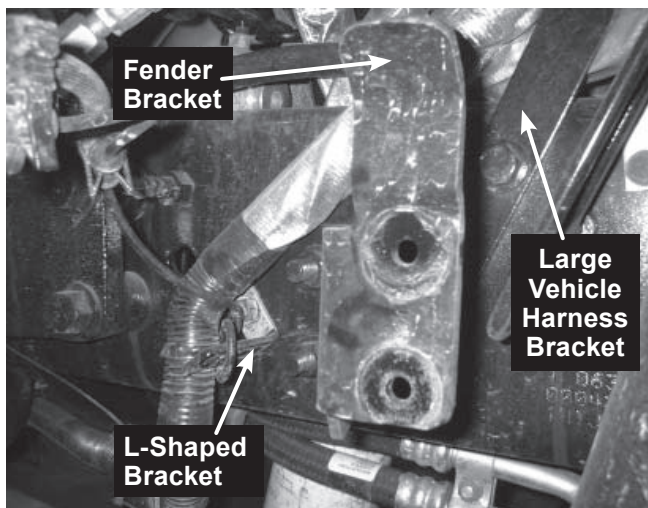
1. Remove the plastic fenders from their brackets on both front wheel wells of the vehicle. Retain all fasteners for reinstallation.
2. Check to ensure that the vehicle's front bumper is level and in a desirable position. Adjust if necessary. Remove three of the bumper bracket fasteners on each side of the truck. Do not loosen the fourth bumper bracket cap screw as it maintains the preset bumper position during this step. Ream the holes in brackets and frame to .53" diameter.



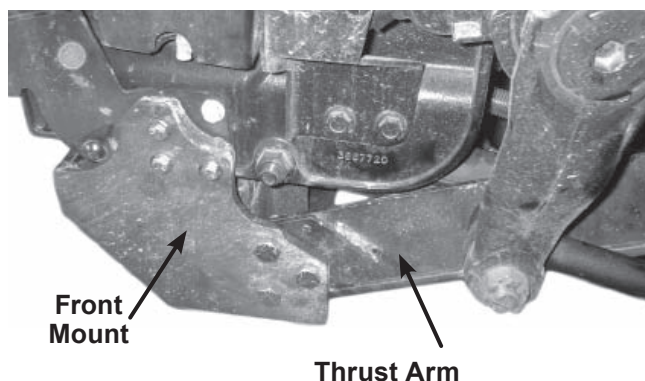
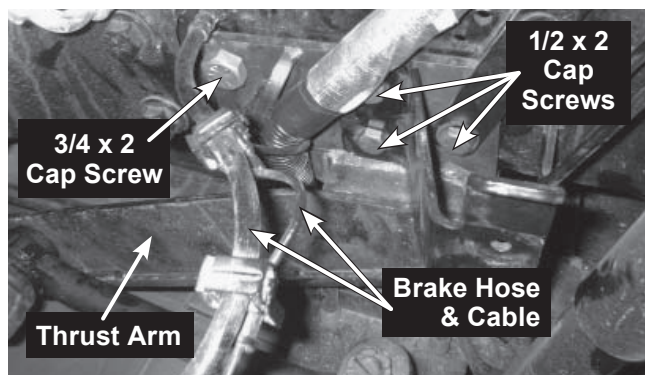
3. Position the front mount so that the three upper holes on each side align with the three reamed-out holes from Step 2. Loosely attach using 1/2" x 2-1/2" cap screws and locknuts. Use caution not to damage the lighting harness running under the passenger-side frame end. It may be necessary to cut its plastic tie and reposition the lighting harness temporarily during this step. If so, use one of the provided cable ties to reattach it.



4. On the driver's side, remove the brackets 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.



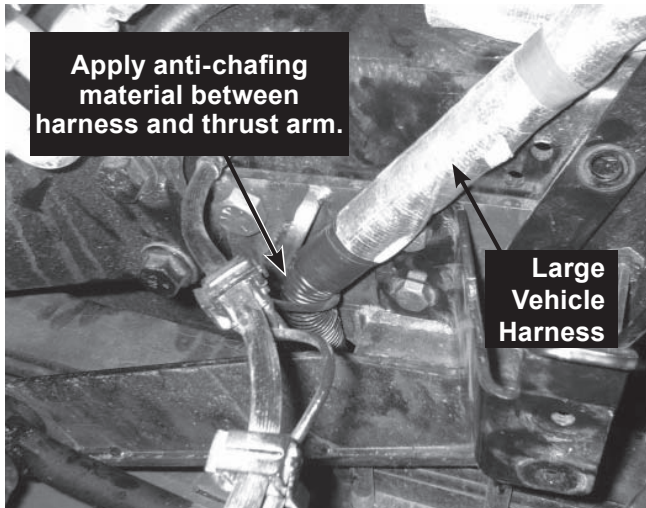
5. Position the driver-side thrust arm as shown and loosely secure with the 3/4" x 2" cap screw and locknut. Attach the other end of the thrust arm to the front mount using the provided 5/8" x 1-3/4" cap screws and locknuts. Note that the thrust arm attaches to the inside surface of the front mount.



Reinstall all brackets removed in Step 4 in their original frame hole locations, but mounted on the surface of the driver-side thrust arm, using the 1/2" x 2" cap screws, flat washers and locknuts provided.

It may be necessary to ream the hole in the small L-shaped bracket to accommodate the 1/2" fastener. Use caution not to damage the brake cable and hose running from the L-shaped bracket to the wheel assembly.

- Route the large vehicle harness as shown and secure to the reinstalled L-shaped bracket using cable ties. Use the provided spacer, 1/2" x 2" cap screw, washers and locknut to reattach the large vehicle harness bracket to the frame. Apply the provided anti-chafing material to the harness where it comes in contact with the thrust arm.



⚠ CAUTION

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

- Repeat Step 4 & 5 for the passenger's side, noting that there may be fewer vehicle brackets on this side. Loosely secure the passenger-side thrust arm with the hardware provided for all hole positions in the thrust arm, as described in Step 5. Use the passenger-side thrust arm as a template to drill any holes not already provided in the vehicle's passenger-side frame rail.
- Tighten all fasteners according to torque chart, starting with the vehicle to frame fasteners, front to back, and finishing with the thrust arm to mount fasteners.
- Reinstall the plastic fenders to their brackets using the original fasteners.

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, L.L.C.: FISHER®, Minute Mount® 2.

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