



# 64500

## MOUNT KIT

Model No. 3239

Ford F-150 4X4

2004 - 08

### Installation Instructions

**⚠ CAUTION**

Read this document before installing the snowplow.

**⚠ CAUTION**

See your WESTERN® outlet/Web site for specific vehicle application recommendations before installation. The Selection List has specific vehicle and snowplow requirements.



# SAFETY

## 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.

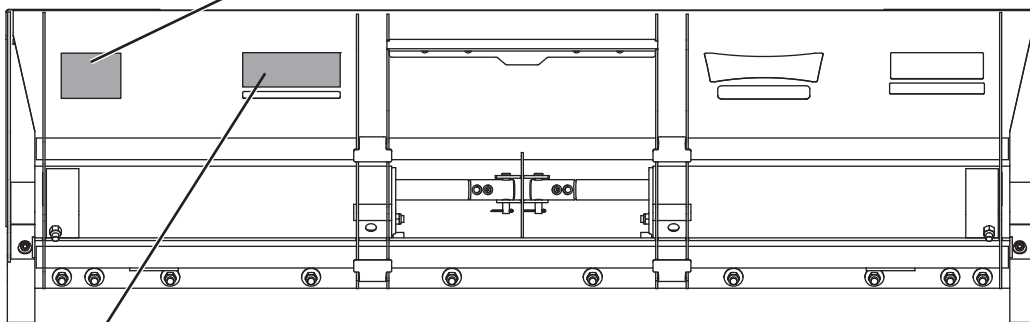
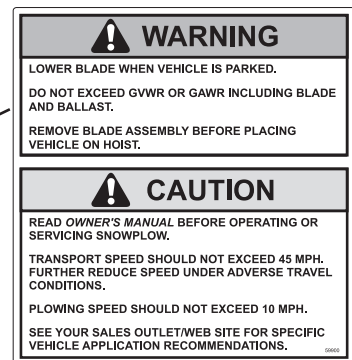
**NOTE:** Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

## WARNING/CAUTION & INSTRUCTION LABELS

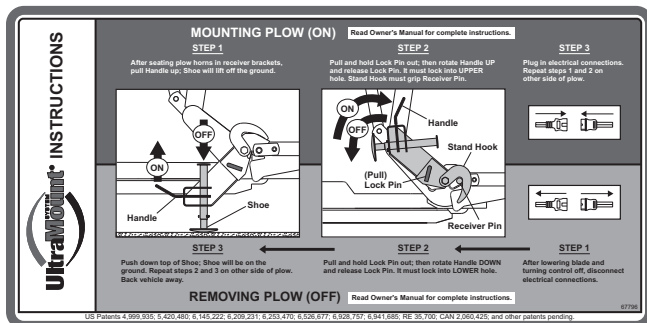
Become familiar with and inform users about the warning/caution labels on the back of the blade and the instruction label on the headgear.

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

Warning/Caution Label



Instruction Label



Multiple Pinch Points Label



**WIDE-OUT™ Blades Only (both sides)**

# SAFETY

## 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 ON/OFF switch to OFF whenever the snowplow is not in use. The control indicator light will turn off.**

### **⚠ WARNING**

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

### **⚠ CAUTION**

**Refer to the Selection List 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 tanks 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 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.**

# SAFETY

## 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.

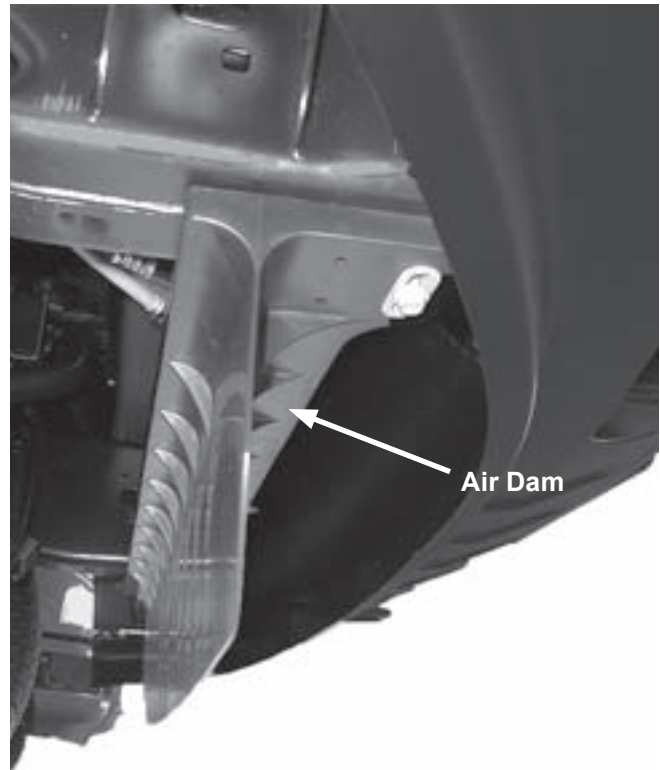
Recommended Fastener Torque Chart (ft-lb)			
Size	 SAE Grade 2	 SAE Grade 5	 SAE Grade 8
1/4-20	6	9	13
5/16-18	11	18	28
3/8-16	19	31	46
3/8-24	24	46	68
7/16-14	30	50	75
1/2-13	45	75	115
9/16-12	66	110	165
5/8-11	93	150	225
3/4-10	150	250	370
7/8-9	150	378	591
1-8	220	583	893
Metric Grade 8.8 (ft-lb)			
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.

Not all fasteners provided will be used for this installation.

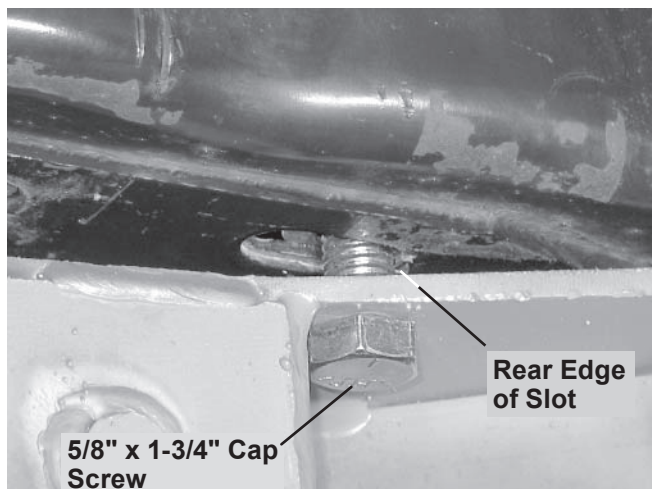
1. Detach the rubber splash shield at the bottom edge of the bumper by removing the three plastic fasteners. From the top surface of the bumper, remove the five metric cap screws which fasten the plastic trim, hood-release handle and grille bumper. Also remove the hood-release cable support. Remove the tow hooks from the vehicle frame and save the parts for reinstallation if mount is removed from the vehicle.
2. Remove the air dam (pictured), if equipped. Retain for owner.



3. If necessary, remove the skid plate and save the parts for reinstallation if mount is removed from the vehicle.
4. Disconnect the fog lamp harness connections if so equipped.

## MOUNT INSTALLATION

- Remove four nuts (two on each side of vehicle) from the back surface of the bumper brackets. Slide the bumper forward to remove.
- Place the driver-side mount against the vehicle frame rail and attach by inserting a  $5/8" \times 1-3/4"$  cap screw through the  $11/16"$  diameter hole in the top surface of the mount and against the rear edge of the slot in the bottom wall of the frame rail.

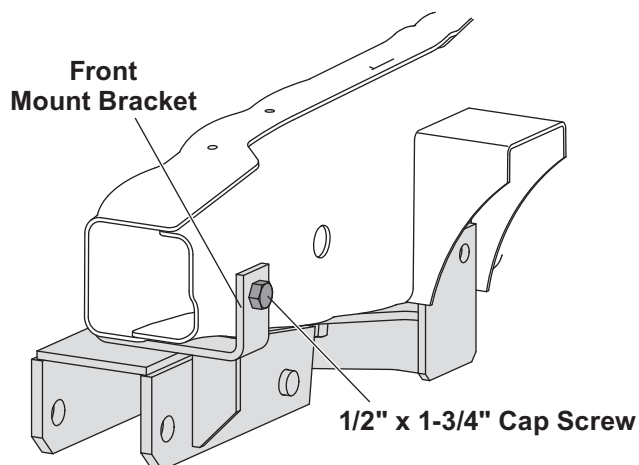


Secure with a hardened washer and locknut from within the frame rail. Do not tighten. Verify the mount is tight against the frame rail by using a C-clamp to hold the front of the mount to the front of the frame rail.

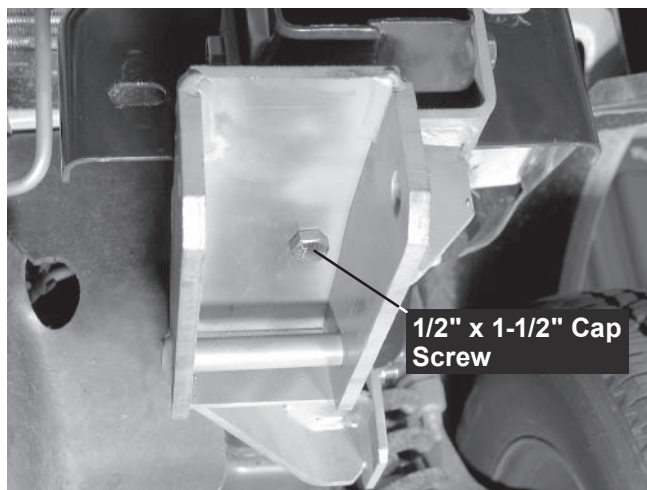
### **⚠ CAUTION**

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

- Using the front mount bracket as a template, drill a  $1/2"$  hole through the outer and inner side walls of the frame rail. Insert a  $1/2" \times 1-3/4"$  cap screw through hole in each side of mount, frame rail side wall and spacer. Secure with a hardened washer and locknut from within the frame rail. Tighten the  $5/8"$  fasteners installed in Step 1.



- Using the  $9/16"$  diameter hole in the top surface of the mount as a template, drill a  $1/2"$  hole through the bottom wall of the frame rail and insert a  $1/2" \times 1-1/2"$  cap screw. Secure with hardened washer and locknut from within the frame rail.

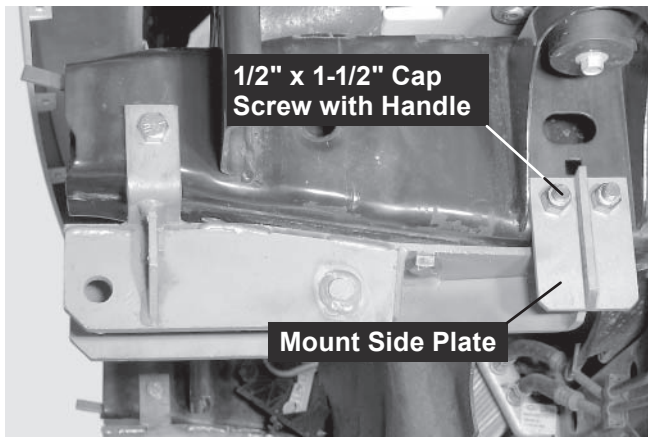


# MOUNT INSTALLATION

## ⚠ CAUTION

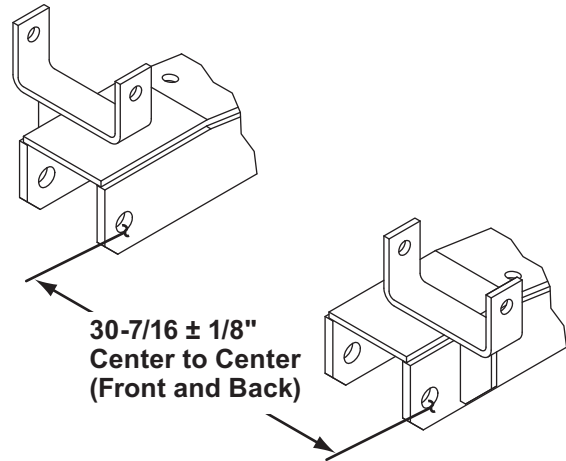
Use caution not to pinch, cut or drill through any wires or hoses running along the frame rail.

- Using the 9/16" diameter holes in the mount side plate as a template, drill 1/2" holes through the side wall of the frame rail. Insert a 1/2" x 1-1/2" cap screw with handle and hardened washer from within the frame rail through each hole and secure with locknut.



- Repeat for the passenger's side.

- Check U-bracket alignment per illustration below. Loosen fasteners and realign as necessary.



- Tighten all fasteners according to the torque chart.

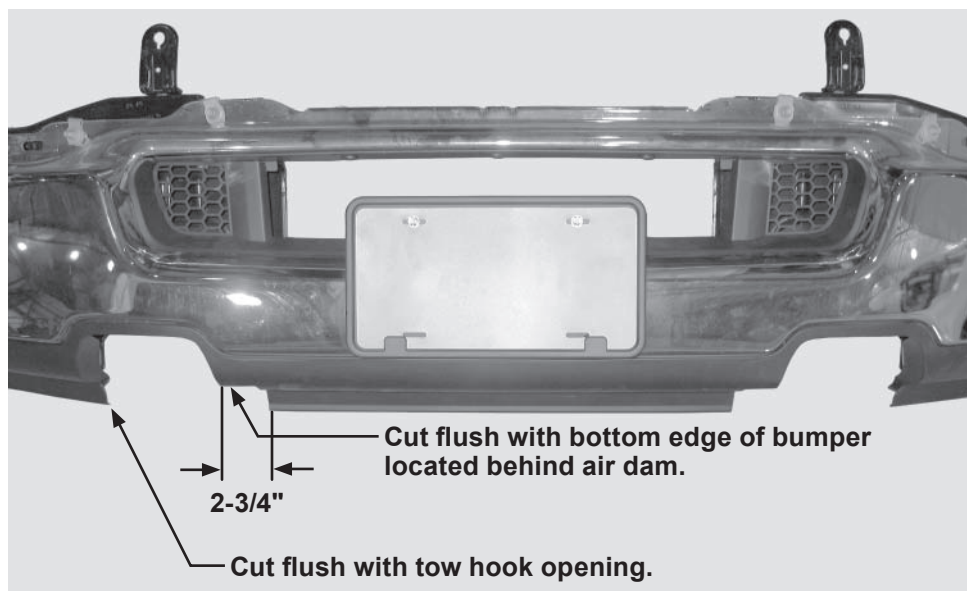
- The air deflector will require notching for clearance of mount receivers, or it may be removed from vehicle. If deflector is removed from vehicle, save deflector and fasteners for reinstallation in the event the snowplow mount is removed from vehicle.

Use a box cutter or saw to cut the bumper fascia as shown. Use sand paper to smooth rough edges.

- Reinstall bumper to original position using existing fasteners.
- Reconnect fog lamp harness connectors if so equipped.

- Reattach rubber splash shield at bottom edge of bumper and, at top surface of bumper, reinstall four metric hex cap screws, plastic trim, hood-release handle and grille bumper. Reinstall the hood-release cable support.

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





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