



# FORD MOUNT INSTALLATION INSTRUCTIONS

**Bronco (4X4 only)  
F-150 (4X4 only), F-250/350  
Super Duty  
1980–1991  
Model No. 1349**

**⚠ CAUTION**

Read this document before installing the snowplow.

**⚠ CAUTION**

See your WESTERN® outlet for application recommendations. 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 situation that, if not avoided, could result in damage to product or property.

**NOTE:** Identifies tips, helpful hints and maintenance information the owner/operator should know.

## Warning and Caution Label

### ⚠ WARNING

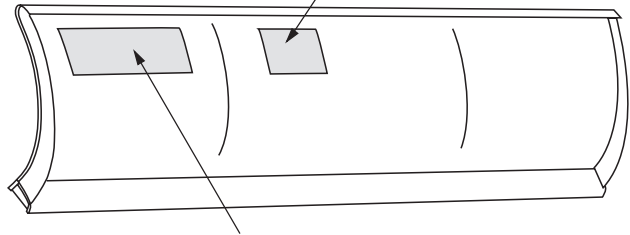
LOWER BLADE WHEN VEHICLE IS PARKED.  
 REMOVE BLADE ASSEMBLY BEFORE PLACING VEHICLE ON HOIST.  
 DO NOT EXCEED GVWR OR GAWR INCLUDING BLADE AND BALLAST.

### ⚠ CAUTION

READ **OWNER'S MANUAL** BEFORE OPERATING OR SERVICING SNOWPLOW.  
 TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.  
 PLOWING SPEED SHOULD NOT EXCEED 10 MPH.  
 SEE YOUR SALES OUTLET FOR APPLICATION RECOMMENDATIONS.

## WARNING/CAUTION AND INSTRUCTION LABELS

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



## Instruction Label

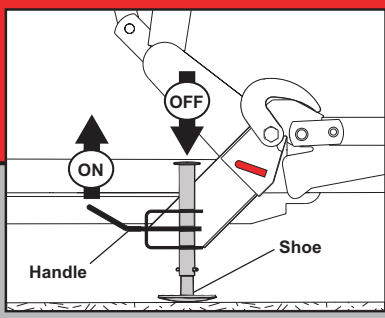
UltraMount<sup>®</sup> SYSTEM INSTRUCTIONS

### MOUNTING PLOW (ON)

Read Owner's Manual for complete instructions.

**STEP 1**

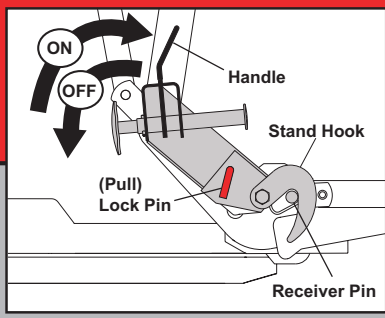
After seating plow horns in receiver brackets, pull Handle up; Shoe will lift off the ground.



Labels: Handle, Shoe

**STEP 2**

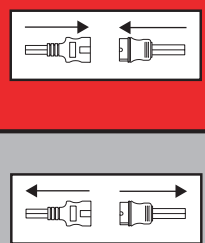
Pull and hold Lock Pin out; then rotate Handle UP and release Lock Pin. It must lock into UPPER hole. Stand Hook must grip Receiver Pin.



Labels: Handle, Stand Hook, (Pull) Lock Pin, Receiver Pin

**STEP 3**

Plug in electrical connections. Repeat steps 1 and 2 on other side of plow.



**STEP 3**

Push down top of Shoe; Shoe will be on the ground. Repeat steps 2 and 3 on other side of plow. Back vehicle away.

**STEP 2**

Pull and hold Lock Pin out; then rotate Handle DOWN and release Lock Pin. It must lock into LOWER hole.

**STEP 1**

After lowering blade and turning control off, disconnect electrical connections.

### REMOVING PLOW (OFF)

Read Owner's Manual for complete instructions.

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Patents: US 4,999,935; 5,420,480; RE 35,700; 6,145,222; 6,209,231; 6,253,470; 6,526,677; CAN 2,060,425; patents pending.

# 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 can result in serious personal injury.

### **⚠ WARNING**

Remove blade assembly before placing vehicle on hoist.

### **⚠ 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 blade and ballast. The rating label is found on driver-side vehicle door cornerpost.

### **⚠ CAUTION**

Refer to the current selection list for minimum vehicle recommendations and ballast requirements.

### **⚠ CAUTION**

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.

## PERSONAL SAFETY

- 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.

# SAFETY

## VENTILATION




### ⚠ WARNING

Vehicle exhaust contains deadly carbon monoxide (CO) gas. Breathing this gas, even in low concentrations, could 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 wearing proper personal protective safety equipment.

| <b>Recommended Fastener Torque Chart (Ft.-Lb.)</b>                            |   |   |   |
|---|---|---|---|
| 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   |
| <b>Metric Grade 8.8 (Ft.-Lb.)</b>   |   |   |   |
| 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. |   |   |   |

# MOUNT INSTALLATION

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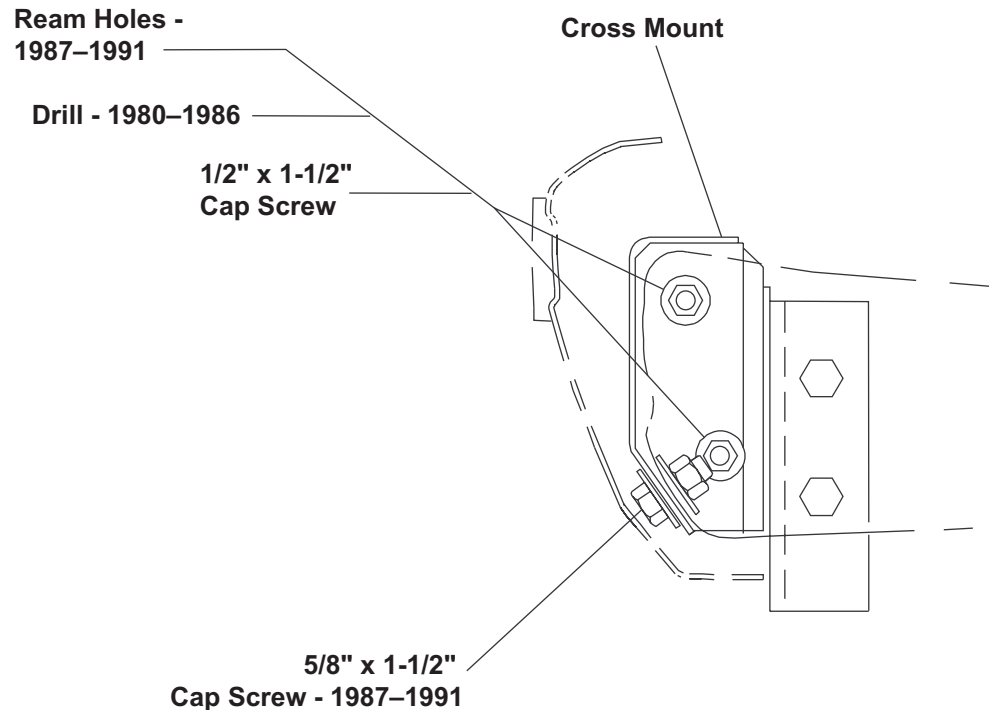
## CROSS MOUNT

### 1987 through 1991 Models

1. Remove the bumper from the vehicle, leaving the brackets attached to the bumper.
2. Place the cross mount onto the vehicle frame horns. On each side of the vehicle, insert a 5/8" x 1-1/2" cap screw with flat washer through the front bottom slot in the mount frame and into the front flange of the vehicle frame. Install a 5/8" flat washer and locknut against the vehicle frame.

### 1980 through 1986 Models

1. Remove the bumper from the vehicle.
2. Place the cross mount onto the vehicle frame horns. With the cross mount tight against the top and end of the vehicle frame horns, clamp the cross mount in place. Using the cross mount as a template, drill two 9/16" holes into each side of vehicle frame. Fasten the cross mount to each side of the frame with two 1/2" x 1-1/2" cap screws, flat washers, and locknuts. Insert the cap screws from the center of the vehicle toward outside, and put the flat washer against vehicle frame.



# MOUNT INSTALLATION

## MOUNTS AND THRUST ARMS

### ⚠ CAUTION

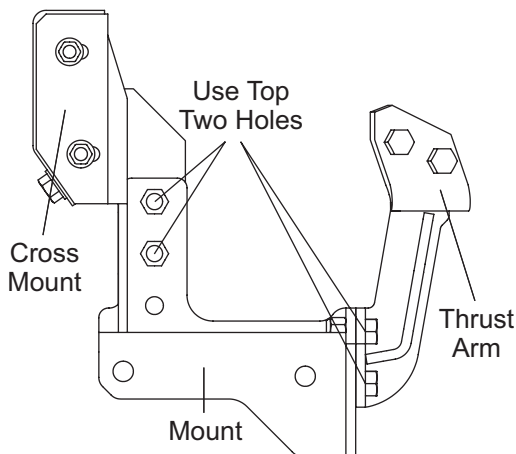
Maintain adequate clearance horizontally and vertically between hoses, steering linkage at maximum right turn, alternator drives, oil cooler lines, and do not collapse evaporate hose.

### F-250/F-350 and SuperDuty

1. Loosely install the thrust arms between the vehicle frame and leaf springs. On some vehicles, it may be necessary to lift the vehicle slightly by the frame to increase the distance between the frame and leaf spring when installing thrust arm as shown below. Once the thrust arms are in place, the vehicle may be lowered back to its normal ride height.



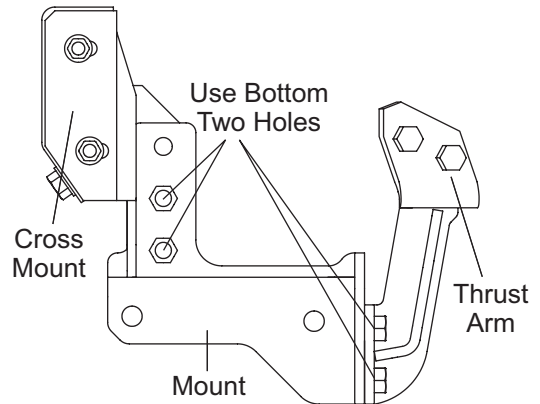
2. Using the top two holes, loosely attach the front of the mount to the cross mount using the supplied 5/8" x 1-1/2" cap screws and 5/8" locknuts. Repeat on other side.



3. Loosely attach the thrust arm to the top two holes in the rear of the mount using the supplied 5/8" x 1-1/2" cap screws and locknuts. Repeat on other side.
4. Tighten the fasteners that were installed during Steps 2 and 3.

### Bronco and F-150

1. Using the bottom two holes, loosely attach the front of the mount to the cross mount with the supplied 5/8" x 1-1/2" cap screws and 5/8" locknuts. Repeat on other side.
2. Loosely attach the thrust arm to the bottom two holes in the rear of the mount using the supplied 5/8" x 1-1/2" cap screws and locknuts. Repeat on other side.



3. Tighten the fasteners that were installed during Steps 1 and 2.

# MOUNT INSTALLATION

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## All Models

1. Position the mount so that the thrust arms are tight against the bottom of the vehicle frame and clamp them to the frame.
2. Using the rear holes in the thrust arms as guides, drill two 5/8" holes through the vehicle frame on each side as shown below.



3. Fasten the thrust arms to the vehicle frame using 5/8" x 1-1/2" cap screws and 5/8" nuts with handles. (If the vehicle has a deep, underslung stabilizer cross member assembly that will interfere, it must be removed for snowplow installation. Retain all parts and replace on vehicle if the snowplow is removed.)

## CROSS BAR

1. Attach cross bar to each mount using two 1/2" x 1-1/2" cap screws and locknuts per side.

**TIGHTEN ALL FASTENERS TO CORRESPONDING TORQUE CHART VALUES.**

## BUMPER

### 1987 through 1991 Vehicles

1. To replace the bumper, loosen the bracket bolts on the bumper and slide them to the outer end of the bumper. Retighten the bumper bolts. Check the bumper bracket holes in the vehicle frame for clearance of two 1/2" cap screws on each side of vehicle. Ream or drill if required. Reattach the bumper to the vehicle frame at its original location and fasten each side with two 1/2" x 1-1/2" cap screws, flat washers, and locknuts. Install the flat washers against both the vehicle frame and bumper bracket. Tighten the bumper fasteners.
2. The air deflector may require notching for clearance of the receivers on light duty vehicles.

### 1980 through 1986 Vehicles

1. Reattach the bumper at its original position using the existing fasteners. Tighten the bumper fasteners.
2. The air deflector may require notching for clearance of the receivers on light duty vehicles.

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

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