

1369 & 1379 MOUNT KITS

1369

Ford Bronco, F-150 4X4

1992 - 96

1379

Ford F-250/350 4X4

1992 - 97

Ford F-250 2WD (over 8,500 GVWR)

1992 - 97

Ford F-350 2WD (over 10,000 GVWR)

1992 - 97

Ford Super Duty

1992 - 97

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your sales outlet/Web site for specific vehicle application recommendations before installation. The online selection tool 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.

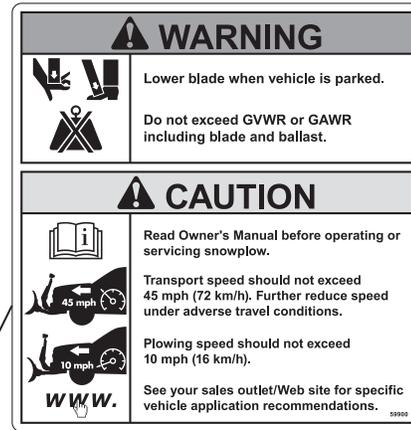
NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION & INSTRUCTION LABELS

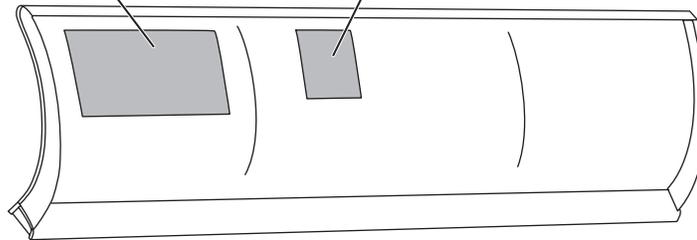
Become familiar with and inform users about the warning and instruction labels on the back of the blade.

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

Warning/Caution Label



Instruction Label



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 the 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 online selection tool 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/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					
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.

MOUNT BRACKETS

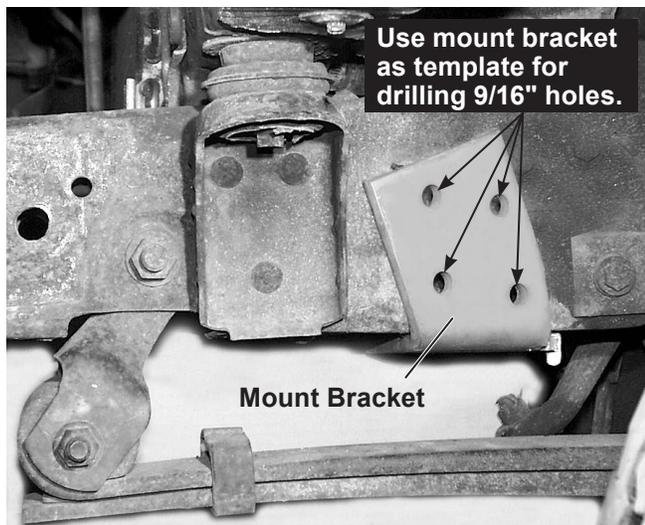
1. Remove the bumper, with brackets attached, from the vehicle. Remove threaded attaching fasteners and retainers from bumper brackets.

NOTE: If the vehicle is equipped with a sway bar, the bar and brackets must be removed prior to attaching the mount brackets. Retain all parts for reassembly if the mount is ever removed from the vehicle.

2. Position the mount brackets tight against the outside and bottom of the vehicle frame, and against the long protruding rivet. (On vehicles without frame rivets, position the mounts to the front edge of the 1/2" holes in the bottom of the vehicle frame rails.) Clamp the mounts in place.

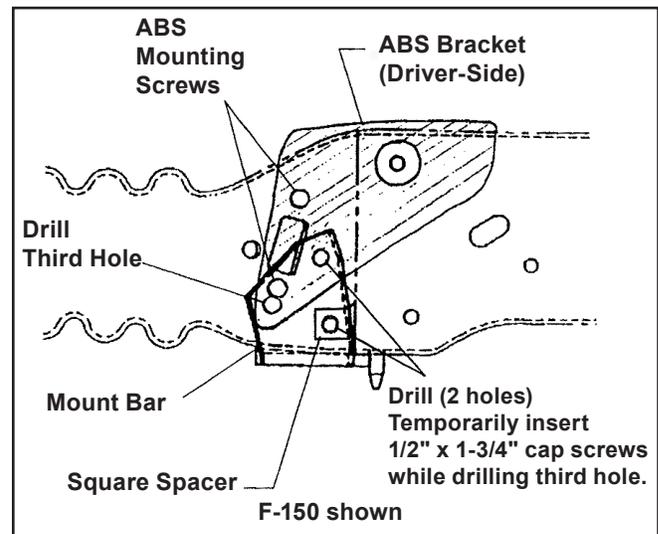
Vehicles with ABS bracket: Follow Steps 3–8 to install the driver's side mount bar.

Vehicles without ABS bracket: Skip to Step 9.



3. Remove the two cap screws mounting the ABS bracket.

4. Pry the ABS bracket away from the vehicle frame and remove lower cage nut by pushing the nut up into the slot.
5. Replace the top bolt.
6. Position the mount brackets as described in Step 2.
7. Temporarily insert 1/2" x 1-3/4" cap screws into rear holes to hold the mount brackets in position while drilling the front (third) hole.
8. Place the square spacer between the mount bracket lower rear hole and vehicle frame to adjust for the ABS mounting bracket.



⚠ CAUTION

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

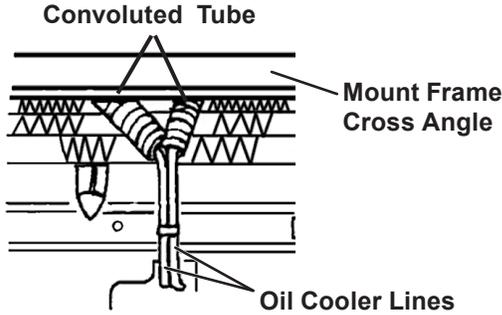
9. Use the mounts as templates to drill four 9/16" holes in each side of the vehicle frame. Install two nut bars to the inside of each vehicle frame rail, aligning them with the drilled holes.

Ford F-150 and Bronco installations: Straighten the nut bar wires and use a vise grip to hold the end for insertion into the frame.

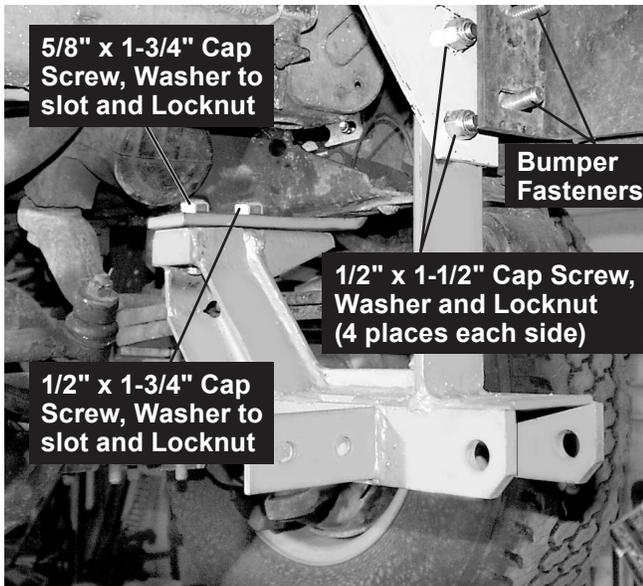
10. Fasten each mount to the nut bars with four 1/2" x 1-1/2" cap screws and lock washers. Use a drift pin to align one hole while installing the cap screw to the other. Tighten the cap screws to according to the torque chart.

MOUNT FRAME

1. On vehicles with the transmission cooler located in front of the radiator on the passenger side, install a convoluted tube over each cooler line above the Y formed by the cooler lines.



2. Prior to placing the mount frame on the vehicle frame, install four 1/2" x 1-1/2" cap screws, flat washers and locknuts from the inside out through the bumper brackets on the vehicle frame. Do not tighten the nuts. These fasteners will be used later to reattach the bumper.

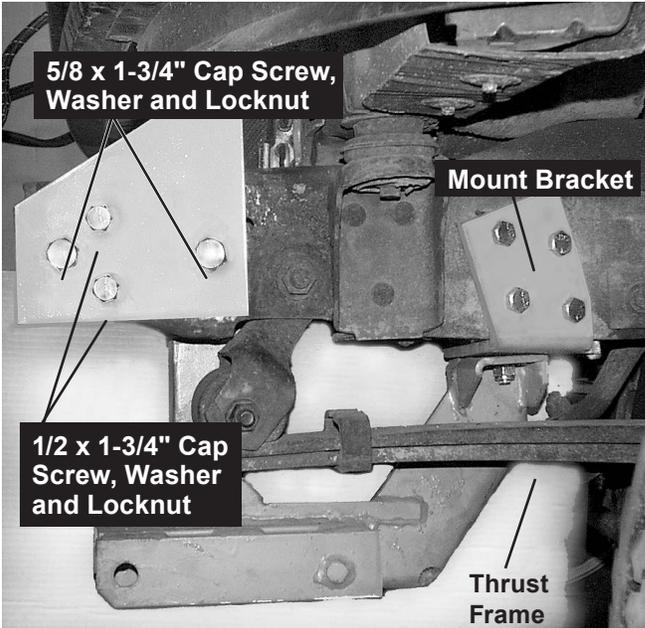
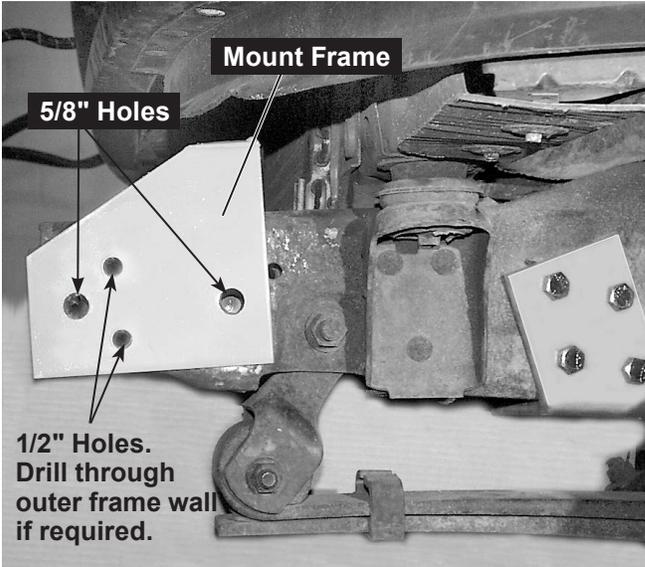


3. Align the large holes and, from the outside of the frame, insert a 5/8" x 1-3/4" cap screw, two flat washers and a locknut on each side of the vehicle. Install a flat washer against the mount frame side plate and against vehicle frame. Depending

on vehicle model and year, the hole location for the 5/8" and 1/2" fasteners may vary. Install one fastener for each frame hole.

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

If the vehicle frame has only one 5/8" diameter hole, drill two 1/2" holes through the vehicle frame using the mount frame as a guide. Install the mount frame with 1/2" fasteners.

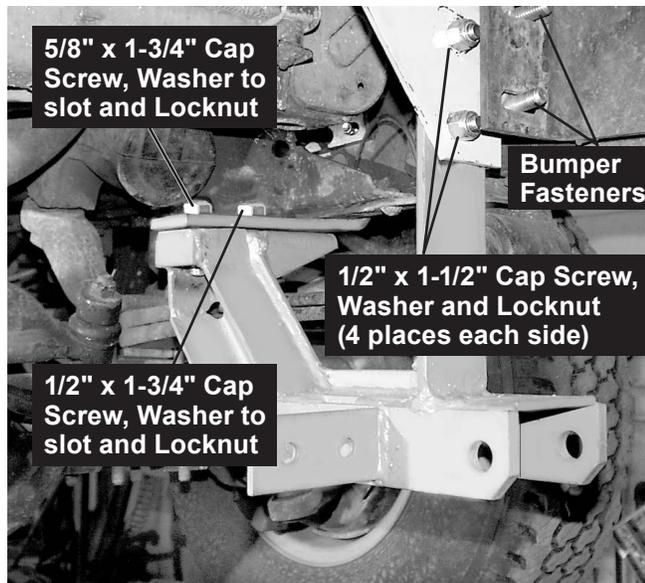


THRUST FRAME

1. Loosely attach thrust frame to each mount bracket with one 1/2" x 1-3/4" cap screw, flat washer and locknut in the inner hole. Install flat washers against slots in mounts.

⚠ CAUTION

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



2. If the vehicle has an evaporator cannister that interferes with the mount, remove the cannister and install the furnished bracket to the original cannister mounting holes using existing fasteners. Secure the cannister to the rear side of the bracket using four furnished 5/16" x 1" cap screws, flat washers and locknuts. Install the flat washers against the slots.
3. Attach the front of the thrust frame to the mount frame using four 1/2" x 1-1/2" cap screws, flat washers to slots and locknuts (four per side).

CROSS BRACE

Loosely attach the cross brace between both mounts using 1/2" x 1-1/2" cap screws and locknuts.



FASTENERS

Starting with the mount frame to vehicle frame fasteners, tighten all fasteners according to the torque chart.

BUMPER

Reinstall the bumper in its original position using the fasteners temporarily installed in Step 2 of the Mount Frame instructions: 1/2" x 1-1/2" cap screws with 1/2" flat washers under the heads and locknuts.

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

The company 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. This equipment manufacturer or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. The company offers a limited warranty for all snowplows and accessories. See separately printed page for this important information.

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