



Fisher Engineering

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Minute² Mount[®]

SYSTEM

MOUNT KIT

Ford F-250	1992 - 96
Ford F-250 HD	1997
F-350, F-Super Duty	1992 - 97

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your FISHER[®] outlet 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.

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 Kit Selection Guide 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

- 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 a 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.

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.

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

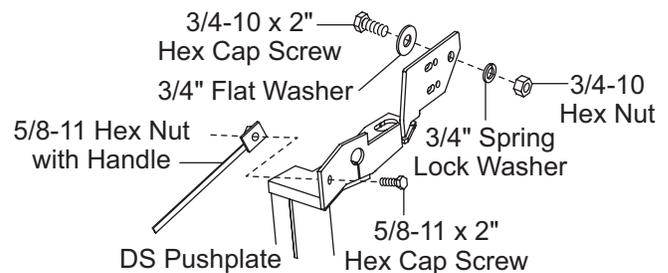
NOTE: For easier assembly and installation, vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

NOTE: To insure proper fit of attachments and alignment of connecting pin arms, do not fully tighten any fasteners until told to do so.

1. Remove front bumper and discard fasteners.
2. Remove and discard the fasteners holding the shock tower on each side of the vehicle frame.
3. On the driver side, jack up rear hanger of the leaf spring so that spring is fully unloaded. Install rear of the driver-side pushplate between spring and frame. Place a 5/8" nut with handle on slot on inside of frame. Bend handle so plate washer will fit flat against

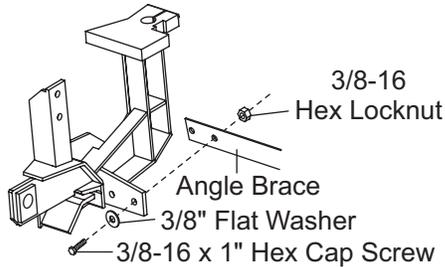
inside of frame. Secure with a 5/8 x 2" hex cap screw. **Do not tighten any fasteners at this time.**

On rear of pushplate, place one 3/4 x 2" hex cap screw and flat washer out through slotted hole in frame and pushplate. Secure with a 3/4" spring lock washer and hex nut.

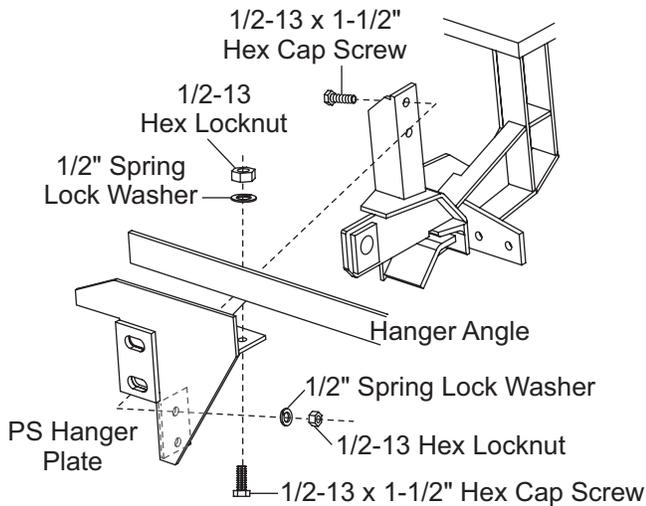


4. Repeat with passenger-side pushplate.

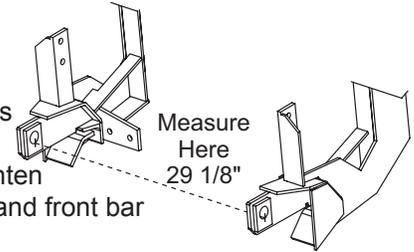
- Place the angle brace on the rear of the pushplate tabs with the heel down. Fasten with four 3/8" x 1" cap screws and flat washers from front, and secure with four 3/8" locknuts.



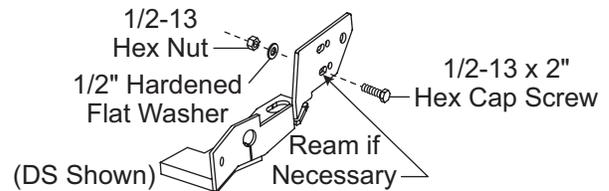
- Place the slotted holes on the driver-side front hanger plate behind the slotted holes on the front bumper bracket. Make sure leg on hanger plate is on top of the frame. Repeat for passenger-side, then place hanger angle on top of, and behind, hanger plates. Place four 1/2" x 1-1/2" hex cap screws up through the bottom of hanger plates and through hanger angle. Secure with four 1/2" spring lock washers and hex nuts. Install four 1/2" x 1-1/2" cap screws through front bar of pushplates and through tabs of hanger plates. Secure with four 1/2" spring lock washers and hex nuts.



- Check the center-to-center dimension between the connecting pin arms. This measurement should be 29-1/8". Once checked and properly set, tighten fasteners in rear lower angle. Then tighten top front angle and front bar fasteners.



- Attach the rear of the pushplate through the shock tower and frame using the original bolting pattern of the shock tower. It may be necessary to ream the pushplate and frame with a 1/2" drill bit for the shock towers. Install either two or four 1/2" x 2" hex cap screws through the shock tower and frame. Secure with 1/2" hardened flat washers and hex locknuts. Tighten and repeat on other side.



- Before reinstalling bumper, check the slotted holes in the plates. If not in place, use a drift pin through the slots and shim the plates up with one or two 5/8" flat washers. Reinstall bumper with four 1/2" x 2" cap screws, 1/2" flat washer and 5/8" flat washer. Secure with four 5/8" flat washers, 1/2" flat washers and 1/2" locknuts. Adjust bumper properly and tighten fasteners.

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

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