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# **MOUNT KIT**

Ford F-150

2009 - 14

Installation Instructions

**A** CAUTION

Read this document before installing the snowplow.

#### 

See your FISHER<sup>®</sup> outlet/Web site for specific vehicle application recommendations before installation. The eMatch tool has specific vehicle and snowplow requirements.

#### SAFETY DEFINITIONS

#### **A** WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

#### A 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.

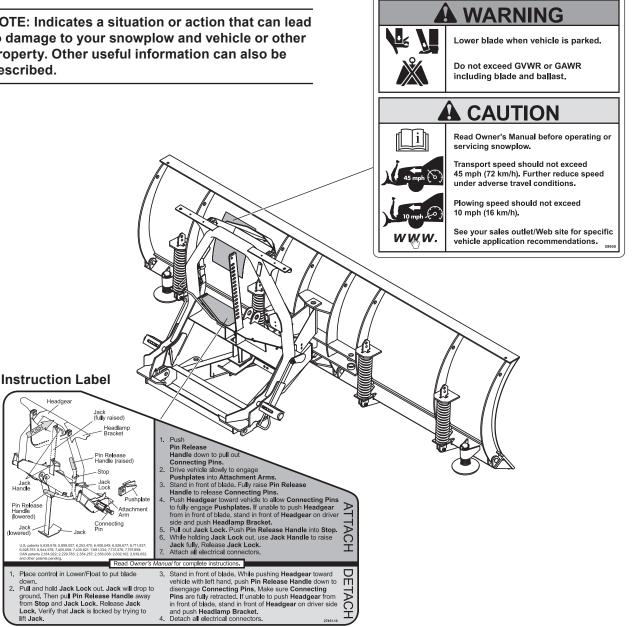
NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

#### 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



# 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.

## A WARNING

Lower the blade when the 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.

#### **A** WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered or angled. Do not stand between vehicle and blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

## **A** 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.

## 

Do not exceed GVWR or GAWR including the blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

#### A 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.

## 

Remove blade assembly before placing vehicle on hoist.

# 

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

#### 

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

#### A 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/s<sup>2</sup> to the hand-arm or 0.5 m/s<sup>2</sup> to the whole body.

# TORQUE CHART

## **A** 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.

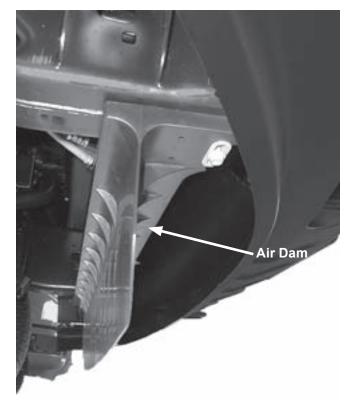
Recommended Fastener Torque Chart					
Inch Fasteners Grade 5 and Grade 8					
Size	Torque (ft-lb)			Torque (ft-lb)	
	Grade 5		Size	Grade 5	Grade 8
1/4-20	8.4	11.9	9/16-12	109	154
1/4-28	9.7	13.7	9/16-18	121	171
5/16-18	17.4	24.6	5/8-11	150	212
5/16-24	19.2	27.3	5/8-18	170	240
3/8-16	30.8	43.6	3/4-10	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)			Torque (ft-lb)	
	Class 8.8	Class 10.9	Size	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.

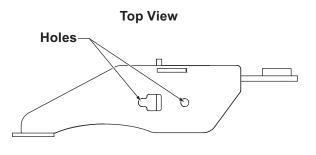
#### **MOUNT INSTALLATION**

- 1. Remove the bumper.
- 2. Remove air dam (pictured), if equipped. Retain for owner.



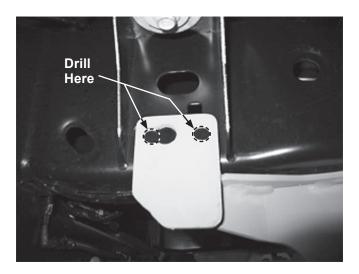
3. Remove the tow hooks. Retain the fasteners. Save tow hooks for reinstallation if mounts are removed in the future.

4. Place passenger-side mount up against the frame. Insert tow hook nut bar (a clip with 2 nuts attached to it) into frame. Insert tow hook fasteners up through the mount hole, through the truck frame and into the nut bar. Hand tighten.

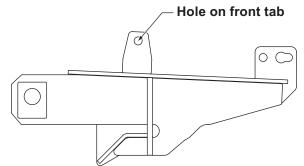


CAUTION Use caution not to pinch, cut or drill through any wires or hoses running along the frame rail.

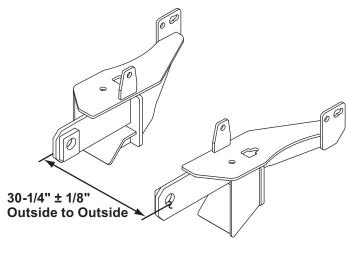
5. Push mount tight up against frame and rearward. Using rearmost portion of rear hole on the outside of the pushplate, drill a 17/32" hole through frame. Using other pushplate hole as a guide, drill a hole through the outside of the frame.

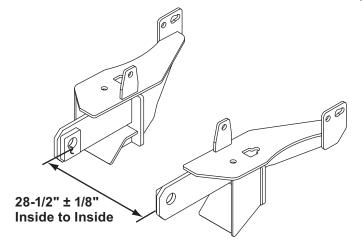


- 6. Attach a washer to the cap screw with handle and insert it through the frame and through the forwardmost rear hole. Attach nut and hand tighten.
- 7. Attach a washer to the cap screw with handle and insert it through the frame and through the rearmost hole in pushplate. Attach a washer and nut to the fastener and hand tighten.
- Using the front tab on the pushplate as a guide, drill a 17/32" hole through the inside of the frame. Attach washer to a 1/2" cap screw. Insert it through the frame and through the front tab on the pushplate. Attach a nut and hand tighten.



- 9. Repeat Steps 4–8 for the driver's side.
- 10. Fully tighten the passenger-side mount according to the torque chart. Measure the distance between the pushplates. The outside to outside dimension must be 30-1/4" ± 1/8" (or inside to inside dimension must be 28-1/2" ± 1/8"). Once the specified dimension is reached, fully tighten the driver-side fasteners according to the torque chart.





11. Reattach the bumper and modify the air dam as necessary. See example of air dam modification shown below.



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

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