



MOUNT KIT

Ford F-650 2WD

2016 - 20__

Ford F-650 4X4

2016 - 20__

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your FISHER® outlet/website for specific vehicle application recommendations before installation. The eMatch tool has specific vehicle and snowplow requirements.

77103-1

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.

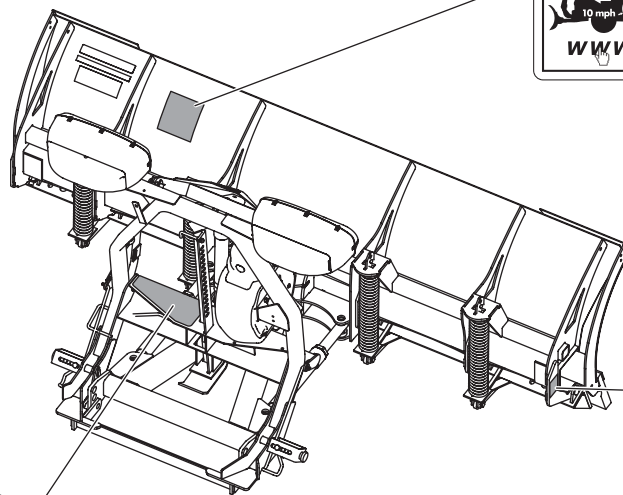
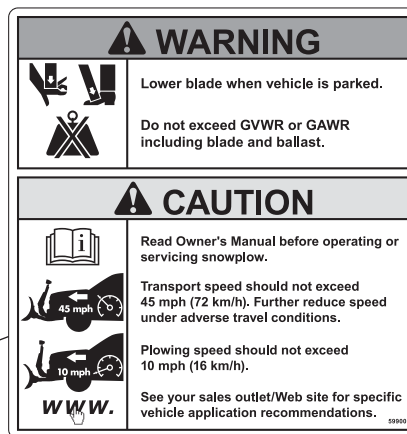
NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION 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



Multiple Pinch Points Label



XLSTM™ Blades Only (both sides)

Instruction Label

1. Push **Pin Release Handle** down to pull out **Connecting Pins**.

2. Drive vehicle slowly to engage **Pushplates** into **Attachment Arms**.

3. Stand in front of blade. Fully raise **Pin Release Handle** to release **Connecting Pins**.

4. Push **Headgear** toward vehicle to allow **Connecting Pins** to fully engage **Pushplates**. If unable to push **Headgear** from in front of blade, stand in front of **Headgear** on driver side and push **Headlamp Bracket**.

5. Pull out **Jack Lock**. Push **Pin Release Handle** into **Stop**.

6. While holding **Jack Lock** out, use **Jack Handle** to raise **Jack** fully. Release **Jack Lock**.

7. Attach all electrical connectors.

ATTACH

DETACH

1. Place control in Lower/Float to put blade down.

2. Pull and hold **Jack Lock** out. **Jack** will drop to ground. Then pull **Pin Release Handle** away from **Stop** and **Jack Lock**. Release **Jack Lock**. Verify that **Jack** is locked by trying to lift **Jack**.

3. Stand in front of blade. While pushing **Headgear** toward vehicle with left hand, push **Pin Release Handle** down to disengage **Connecting Pins**. Make sure **Connecting Pins** are fully retracted. If unable to push **Headgear** from in front of blade, stand in front of **Headgear** on driver side and push **Headlamp Bracket**.

4. Detach all electrical connectors.

Read Owner's Manual for complete instructions.

U.S. patents 6,408,549; 6,526,677; 6,711,837; 6,928,757; 6,944,978; 7,400,056; 7,431,821; 7,681,334; 7,737,576; 7,787,856; CAN patents 2,229,763; 2,354,257; 2,356,036; 2,632,102; 2,639,052; and other patents pending.

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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 eMatch 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.

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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 |

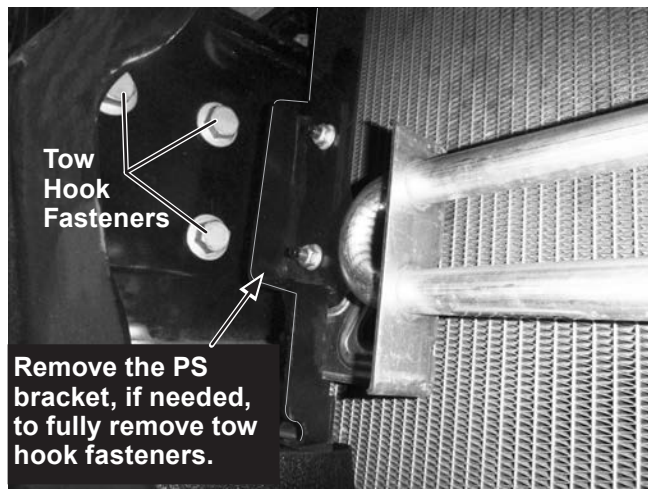
These torque values apply to fasteners except those noted in the instructions.

INSTALLATION INSTRUCTIONS

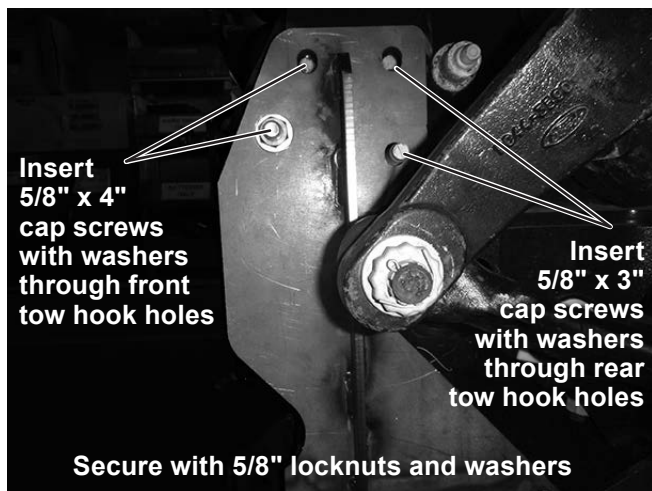
NOTE: For easier assembly and installation, vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

1. Remove bumper.
2. Remove tow hooks. The tow hooks cannot be used with the snowplow mount installed. Retain the tow hooks and fasteners for reinstallation if the snowplow mount is ever removed.

It may be necessary to remove the bracket shown in order to fully remove the tow hook fasteners on the passenger's side.

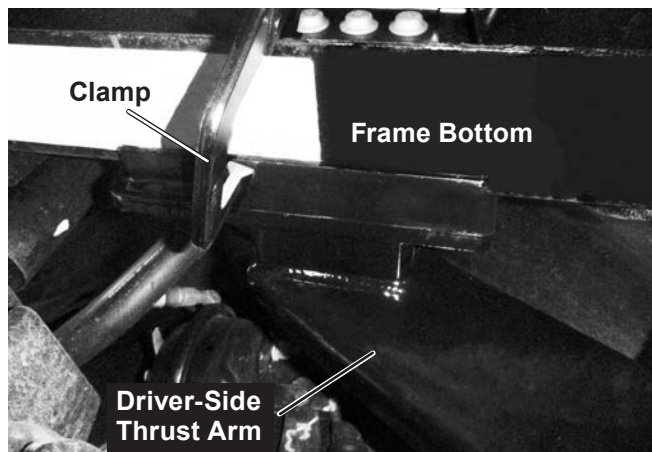


- Position the front mount as shown, aligning the holes in the mount with the tow hook bolt holes. Insert 5/8" x 4" cap screws with washers in place through the front two tow hook holes on each side of the truck. Insert 5/8" x 3" cap screws with washers in place through the two rear tow hook holes on each side of the truck. Secure with 5/8" locknuts and washers on the opposite side.



Driver's Side Shown.
Repeat on Passenger's Side.

- Position the driver-side thrust arm in place on the front mount by aligning the three holes in the thrust arm with the three holes located at the rear of the front mount, and placing the rear of the thrust arm against the truck frame. Secure the thrust arm to the front mount with three 5/8" x 3" cap screws and locknuts, but do not tighten at this time.
- Position the rear of the thrust arm as shown, clamping it to the frame bottom. Check that no wire or hose assemblies would interfere with the thrust arm plate in this position, then clamp the thrust arm plate to the frame.

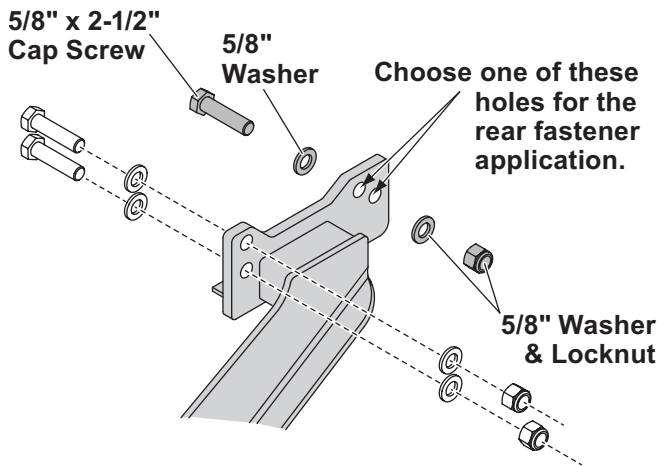


- Repeat Steps 4–5 for the passenger's side. It may be necessary to adjust the driver-side thrust arm position slightly to get the best placement for the passenger's side.

⚠ CAUTION

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

- Using the two holes in the front and one of the two holes in the rear of each thrust arm plate as guides, drill three 21/32" holes in the frame. Insert three 5/8" x 2-1/2" cap screws with washers in place through the drilled holes from the inside of the frame pointing outward. Secure with locknuts and washers against the thrust arm plate.



- Tighten all fasteners at this time according to the torque chart provided.
- Reattach any brackets removed in Step 2. Reattach the bumper.

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



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