

1213-1 TRUCK MOUNT

Installation Instructions for Personal Plow

Ford Explorer 4-Door

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your sales outlet for application recommendations. The Kit Selection Guide/ Selection List has specific vehicle and snowplow requirements.

SAFETY DEFINITIONS

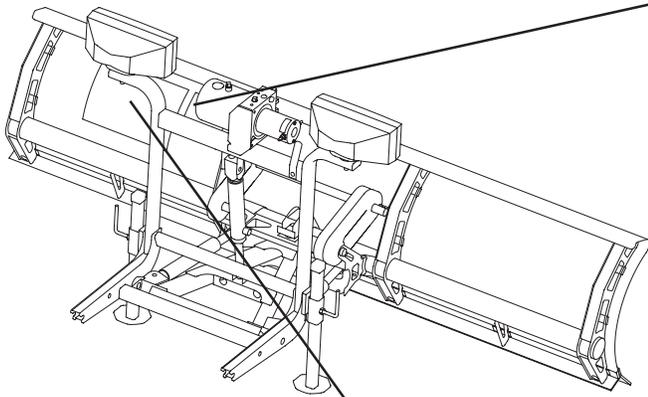
⚠ WARNING

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

⚠ CAUTION

Indicates a 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/CAUTION AND INSTRUCTION LABELS

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

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

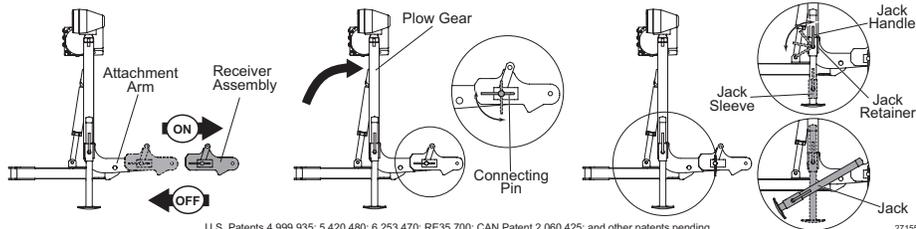
READ *OWNER'S MANUAL* BEFORE OPERATING OR SERVICING SNOWPLOW.
 TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.
 PLOWING SPEED SHOULD NOT EXCEED 10 MPH.
 SEE YOUR SALES OUTLET FOR APPLICATION RECOMMENDATIONS.

Instruction Label

This snowplow is for personal/homeowner use only.

ATTACH INSTRUCTIONS

1. Make certain both **connecting pins** are fully retracted.
2. Drive vehicle slowly to completely insert **attachment arms** into **receiver assembly slots**.
3. Twist both **connecting pins** to release spring tension, then push **plow gear** toward vehicle so **connecting pins** fully engage holes in **attachment arms**.
4. Loosen one **jack handle** and slide **jack sleeve** down below **jack retainer**. Remove **jack** and retighten **jack handle**. Repeat for other **jack** and store them.
5. Connect all electrical cables from vehicle to snowplow.



U.S. Patents 4,999,935; 5,420,480; 6,253,470; RE35,700; CAN Patent 2,060,425; and other patents pending.

DETACH INSTRUCTIONS

5. Back vehicle away from snowplow.
6. See Owner's Manual for proper snowplow storage.
3. While pushing **plow gear** toward vehicle to release **connecting pin** tension, pull **connecting pin** out on one side and twist pin handle to keep pin retracted. Repeat procedure for other **connecting pin**.
4. Disconnect all electrical cables.
1. Put blade on ground using **LOWER/FLOAT** on snowplow control. Leave control **ON** and in **FLOAT**.
2. Attach jacks. Loosen **jack handle**, put **jack** on ground, and raise **jack sleeve** until fully engaging **jack retainer**. Tighten **jack handle**. Repeat for other **jack**.

Read *Owner's Manual* for Complete Instructions

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/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 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 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 proper personal protective safety equipment.

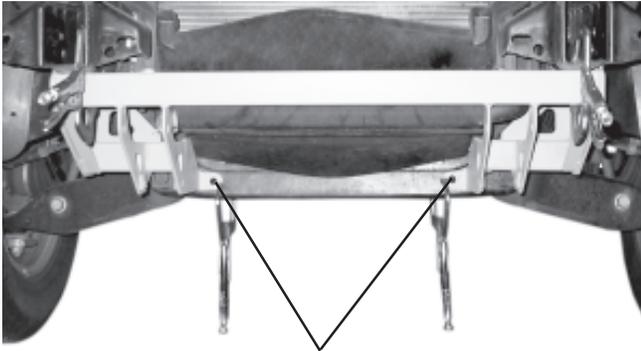
Recommended Fastener Torque Chart (Ft.-Lb.)			
Size	 SAE Grade 2	 SAE Grade 5	 SAE Grade 8
1/4-20	6	9	13
5/16-18	11	18	28
3/8-16	19	31	46
3/8-24	24	46	68
7/16-14	30	50	75
1/2-13	45	75	115
9/16-12	66	110	165
5/8-11	93	150	225
3/4-10	150	250	370
7/8-9	150	378	591
1-8	220	583	893
Metric Grade 8.8 (Ft.-Lb.)			
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

1. Remove both the bumper and the bumper support. Retain the fasteners. If applicable, remove tow hooks. The tow hooks cannot be used with the mounts installed. Retain tow hooks and fasteners for reinstallation if snowplow is removed.
2. Align the sides of the mount between the edges of the body brackets as shown. Push the mount tight to the bottom of the frame in the front and rear and tight to frame front cross member at the rear of the mount using clamps or a floor jack.

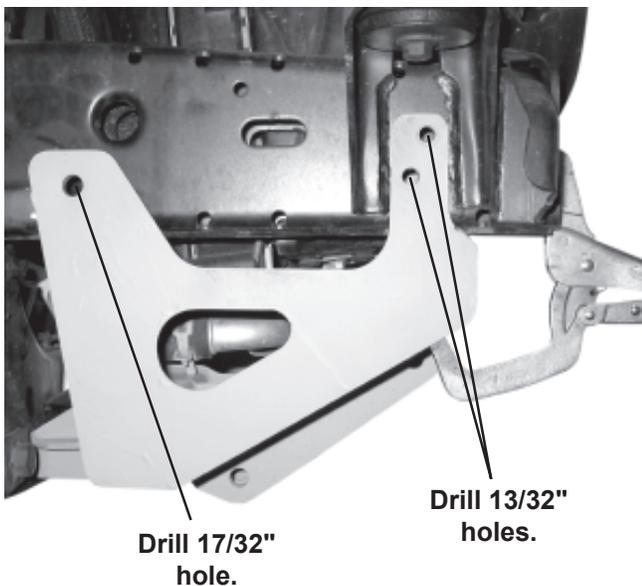


- Using the holes in the mount as guides, drill two 17/32" holes into the frame front cross member.



Drill 17/32" holes.

- Insert the two 1/2" bolts with the shorter handles into the frame front cross member, and pass them out through the holes in the cross member and mount. Place 1/2" locknuts on the bolts, and fully tighten according to the torque chart.
- Using the holes on both sides of the mount as guides, drill four 13/32" holes in the front of the truck frame and two 17/32" holes in the rear.



**Drill 17/32"
hole.**

**Drill 13/32"
holes.**

- Take two 3/8" cap screws, and place a 3/8" washer on each one. On the passenger side, starting from the inside of the truck frame, insert the two cap screws through the frame and the two forward holes in the side of the mount. Place a 3/8" locknut on each cap screw, and hand tighten.
- Place a 1/2" washer onto a 1/2" bolt with the longer handle, and insert the bolt into the truck frame. Pass the bolt out through the hole in the frame and the rearward hole in the side of the mount. Place a 1/2" locknut on the bolt, and hand tighten.
- Repeat Steps 6 and 7 on the driver side of the truck.
- Tighten all fasteners according to the torque chart.
- Bend or cut the ends of any bolt handles protruding out from the truck frame to improve appearance and to prevent contact with the bumper. Ensure adequate clearance between all mounting structures and any hoses.
- Reinstall the bumper support and tighten the fasteners prior to installation of the bumper and splash panels.

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. 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.