

1533-1 TRUCK MOUNT

Installation Instructions for Personal Plow

Chevrolet Trailblazer	2002 – 20 <u> </u>
GMC Envoy	2002 – 20 <u> </u>

▲ CAUTION

Read this document before installing the snowplow.

▲ CAUTION

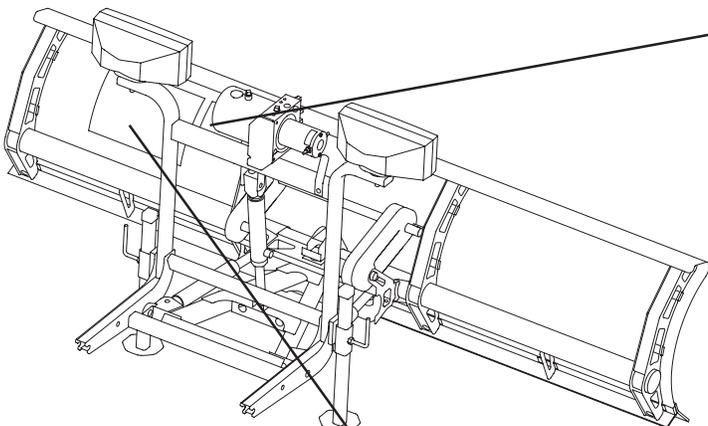
See your sales outlet for application recommendations. The Kit Selection Guide/ Selection List has specific vehicle and snowplow requirements.

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.

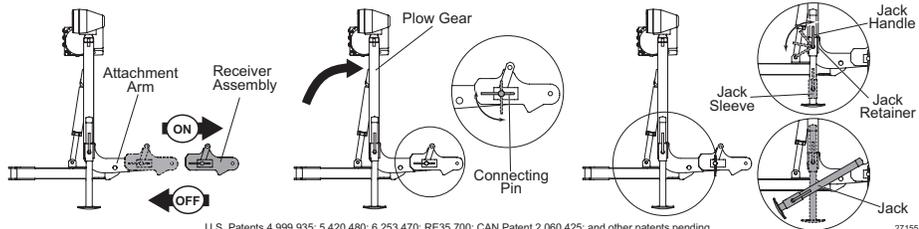
⚠ CAUTION
 READ *OWNER'S MANUAL* BEFORE OPERATING OR SERVICING SNOWPLOW.
 TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.
 PLOWING SPEED SHOULD NOT EXCEED 10 MPH.
 SEE YOUR SALES OUTLET FOR APPLICATION RECOMMENDATIONS.

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.

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**.

DETACH INSTRUCTIONS

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 wearing 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 plastic grille by gently pulling on grill until push clips release.
2. Remove two plastic push button retainers from lower corners of front bumper cover. Remove four plastic push rivets from below and behind the license plate bracket. Remove the two bolts from the top of the bumper cover and remove the plastic bumper cover.
3. Remove the bumper by removing the two larger bumper bolts.
4. Next remove the tow hooks, and the plastic air box from the bumper.
5. Reinstall the bumper using the 1/2-13 x 7 cap screw and 1/2" hardened washer. Do not install the nuts on these fasteners.

6. Install the mount to the bottom of the vehicle using the previously installed bumper bolts, and 1/2-13 lock nuts. (See Photo 1.)

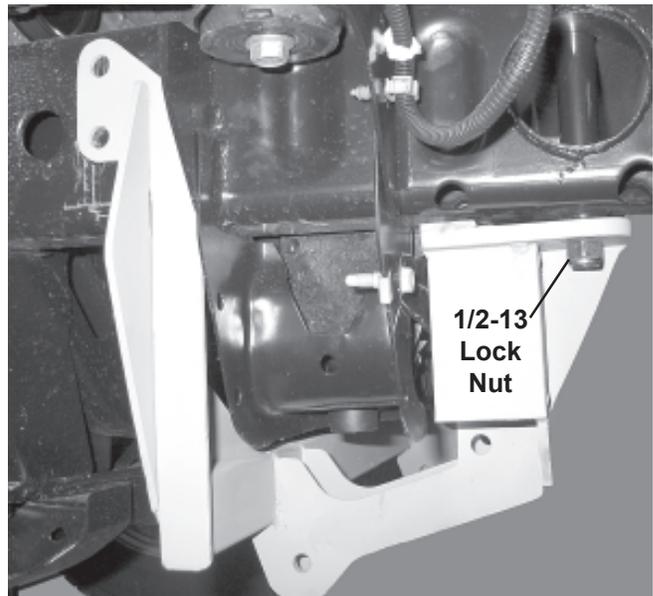


Photo 1

7. Loosely install the inner mount bolts using the supplied 3/8-16 x 1 1/4" cap screw with 3/8" hardened washer and 3/8-16 lock nut. (See Photo 2)

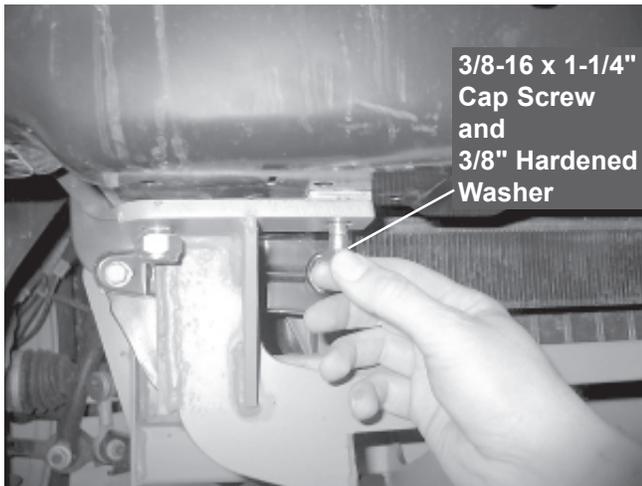


Photo 2

8. Make sure mount is tight to the bottom of the vehicle frame, and tighten the previously installed inner mount bolts, followed by the bumper bolts. (See Photo 3.)

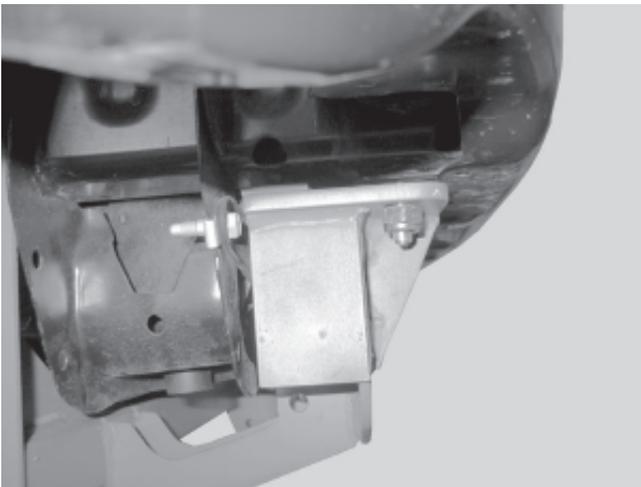


Photo 3

9. Hold rear of mount tight to the bottom of frame using a floor jack. (See Photo 4.)

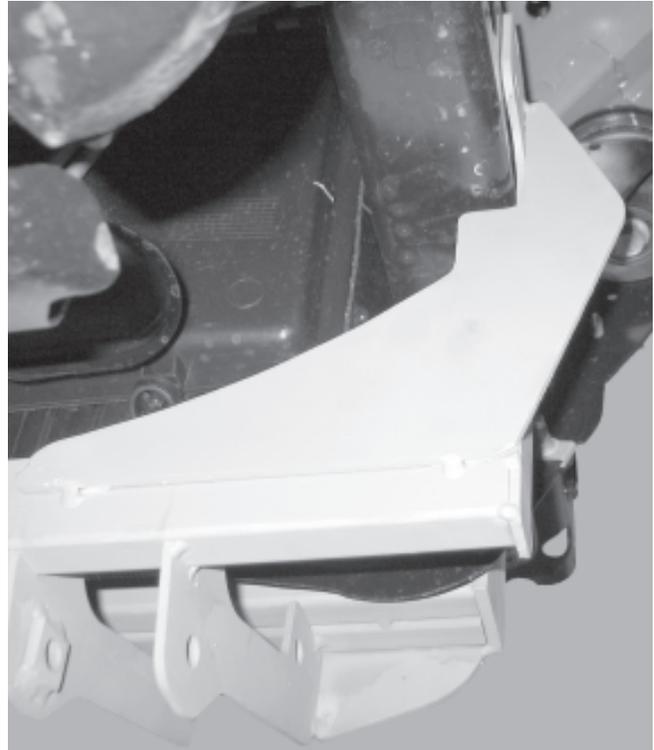


Photo 4

10. Using the holes in the rear of the mount as a template, drill four 9/16" holes in vehicle frame. (See Photo 5.)

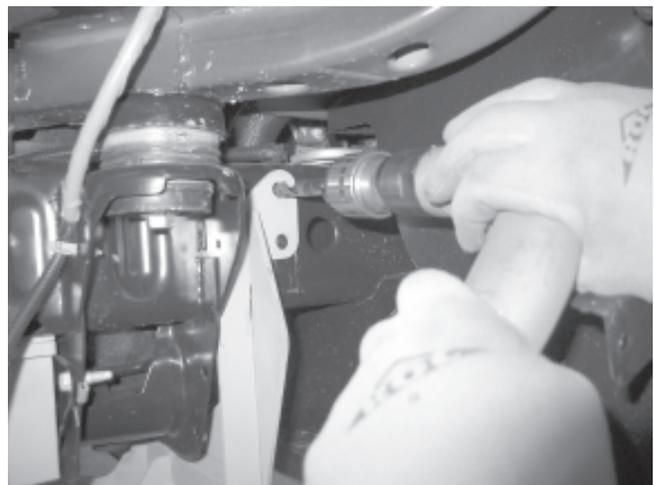


Photo 5

- Using large access hole in the vehicle frame behind the mount install the supplied bolts with handles, 1/2" hardened washers and 1/2" lock nuts through the previously drilled holes. (See Photo 6.)

Trim off any excess handle length that may interfere with moving parts of the vehicle.

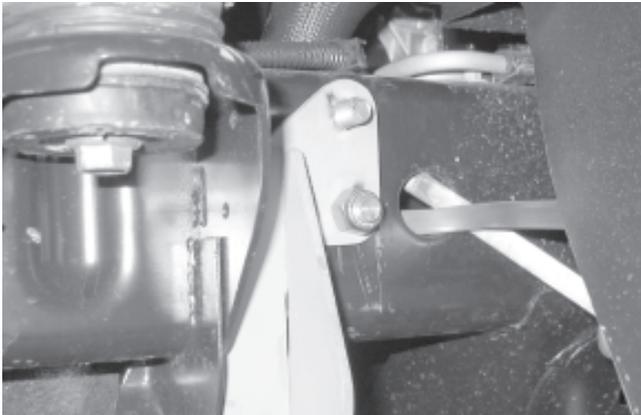


Photo 6

- Tighten all fasteners.
- Trim plastic radiator air box as shown, and reinstall on vehicle. (See Photos 7 and 8.)

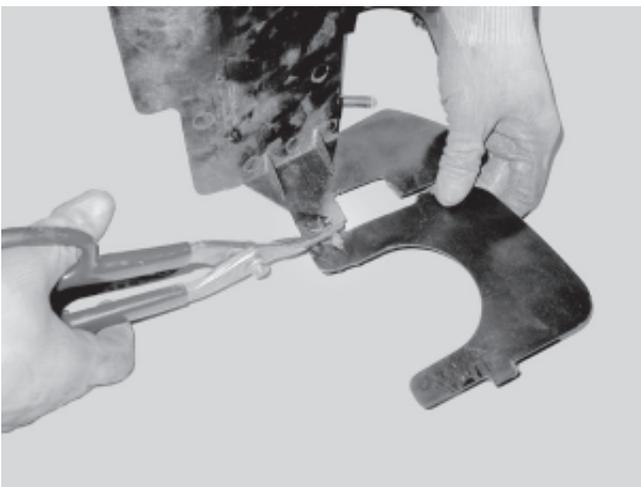


Photo 7

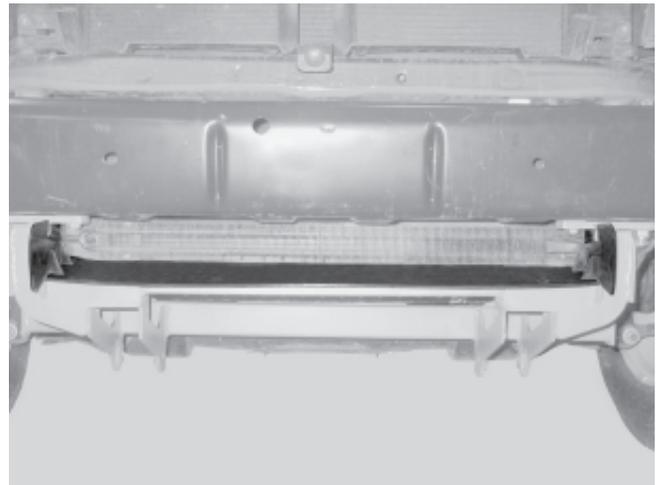


Photo 8

- Reinstall bumper cover and grille.
- Remove or trim air dam as required.

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. See separately printed page for this important information.