

42021

MOUNT KIT PERSONAL PLOW

Jeep Grand Cherokee

2005 - ____

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your sales outlet for specific vehicle application recommendations before installation. 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 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.

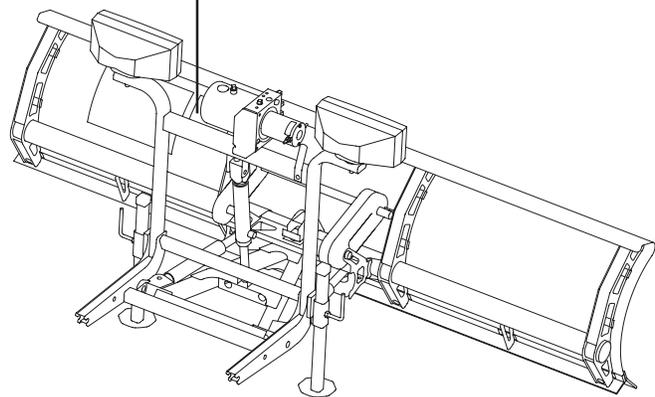
WARNING/CAUTION LABEL

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

NOTE: If labels are missing or cannot be read, see your sales outlet.

Warning and Caution Label

<p>⚠ WARNING</p> <p>LOWER BLADE WHEN VEHICLE IS PARKED.</p> <p>REMOVE BLADE ASSEMBLY BEFORE PLACING VEHICLE ON HOIST.</p> <p>DO NOT EXCEED GVWR OR GAWR INCLUDING BLADE AND BALLAST.</p>
<p>⚠ CAUTION</p> <p>READ <i>OWNER'S MANUAL</i> BEFORE OPERATING OR SERVICING SNOWPLOW.</p> <p>TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.</p> <p>PLOWING SPEED SHOULD NOT EXCEED 10 MPH.</p> <p>SEE YOUR SALES OUTLET FOR APPLICATION RECOMMENDATIONS.</p>



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

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.

⚠ WARNING

Remove blade assembly before placing vehicle on hoist.

⚠ 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

- 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.			

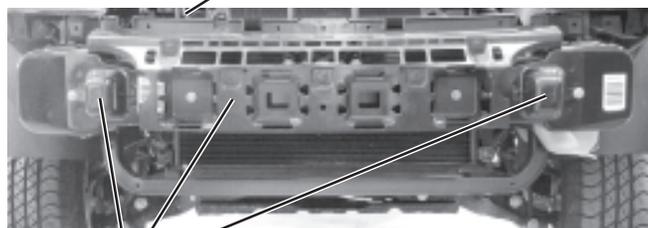
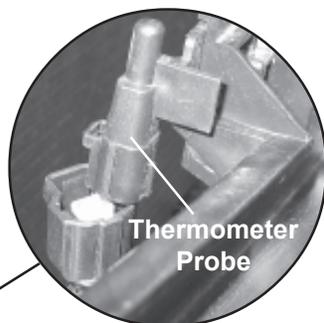
INSTALLATION INSTRUCTIONS

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

Vehicle Preparation

1. Remove the grille, then the plastic buttons beneath the grille. Retain fasteners for reinstallation.
2. Drill out the two lower pop rivets located between the wheel well and the fender flare on each side of the vehicle. Discard drilled rivets.
3. Remove the screws located above the drilled rivets (one per side) and the three fasteners in the underside of the air dam, then remove the front bumper covering and air dam assembly. Retain all fasteners for reinstallation.

4. Disconnect the thermometer probe attached to the plastic bumper reinforcement, if equipped.

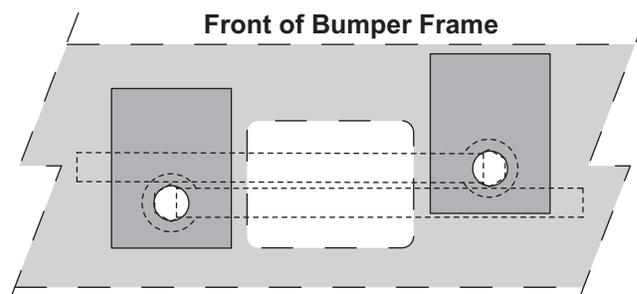


Bumper Reinforcements

5. Remove the one plastic and two metal bumper reinforcements from the bumper frame.
6. Remove the tow hooks and fasteners, if equipped. Tow hooks cannot be used with the mount installed. Save the tow hooks and fasteners for reinstallation if the mount is removed.
7. Remove the skid pan from the bottom of the vehicle cross member. Save all fasteners for reinstallation.

Bumper Brackets

1. Place two supplied tabs into the inner rectangular hole in the driver side of the bumper frame oriented as shown.



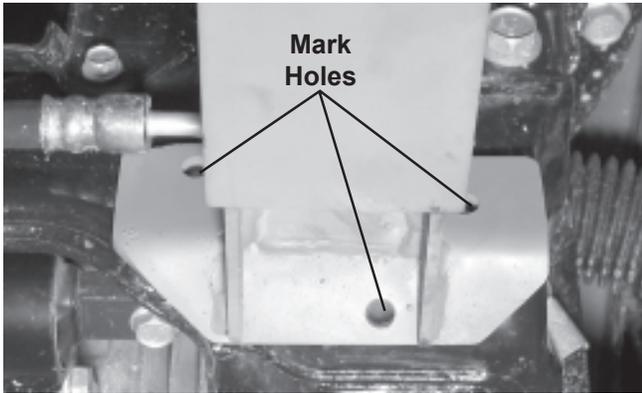
(View from bottom)

Align the holes in the tabs with the holes on either side of the rectangular opening in the bumper frame, and insert a 3/8" bolt with handle through each tab.

2. Place the driver-side bumper bracket against the bumper frame, aligning the slots in the bracket with the bolts. Place a 3/8" washer and locknut onto each bolt, and hand tighten.
3. Place a 3/8" washer onto a 3/8" x 1-1/4" cap screw, and insert the cap screw down through the bumper frame and the outboard end of the bumper bracket. Place a 3/8" washer and locknut onto the cap screw, and hand tighten.
4. Repeat Steps 1–3 on the passenger side of the vehicle.
5. Attach the main mount to the bumper brackets with four 3/8" x 1-1/4" cap screws and locknuts, and hand tighten.

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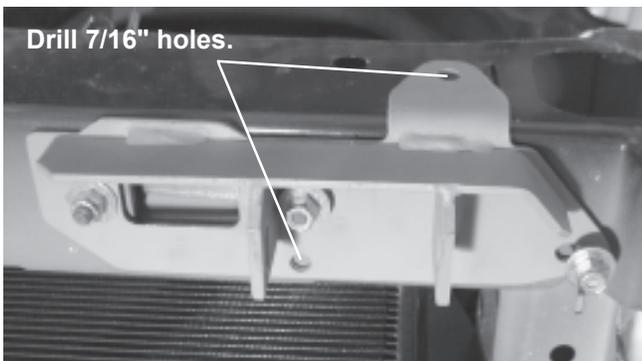
6. Rotate the main mount back until it is tight against the vehicle cross member and is centered. Slide the bumper brackets sideways as required to achieve the best fit, then fully tighten bumper bracket fasteners according to the torque chart.
7. Using the holes in the main mount as guides, mark all six holes in the vehicle frame cross member, then completely remove the main mount from the vehicle.



⚠ CAUTION

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

8. Drill six 7/16" holes into the vehicle cross member where marked.
9. Drill four 7/16" holes through the bumper frame using the two holes in each bumper bracket as guides.

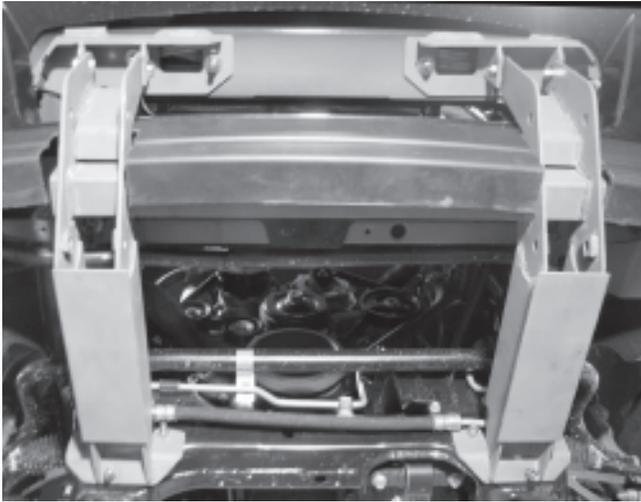


10. Place a washer on a bolt with handle, and insert the bolt into the bumper frame and out through the front hole in the driver-side bumper bracket. Place a locknut onto the bolt and fully tighten according to the torque chart. Repeat on the passenger side.
11. Insert a 3/8" x 1-1/4" cap screw into the bumper frame and out through the rear hole in the driver-side bumper bracket. Place a locknut onto the cap screw and fully tighten according to the torque chart. Repeat on the passenger side.
12. Reattach the plastic and metal bumper reinforcements to the bumper frame, fully tightening fasteners.
13. Reconnect the thermometer probe, if equipped.
14. Reattach the front bumper covering, air dam assembly and grille.
15. Using the tabs on the bumper brackets as guides, mark and cut the air dam as shown, leaving 2" of material at the top on each side.



Main Mount

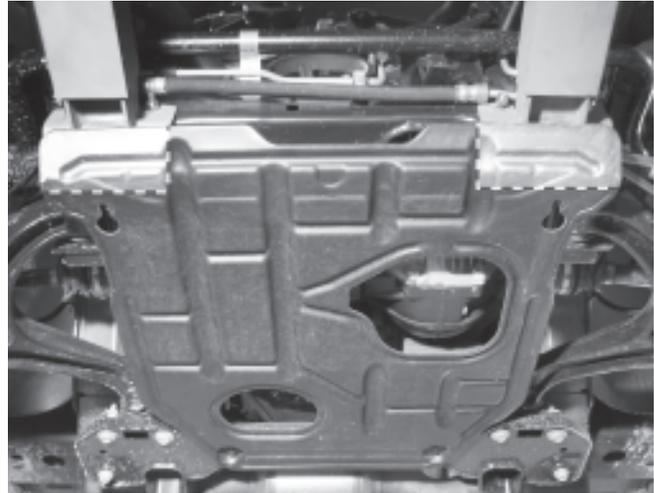
1. Tuck the main mount cross beam behind the air dam, then attach the main mount to the bumper brackets using 3/8" x 1-1/4" cap screws and washers. Attach a 3/8" washer and locknut to each cap screw, and hand tighten.



NOTE: Placing the locknuts on the outside of the brackets will facilitate tightening.

2. Push all hoses attached to the vehicle cross member out of the way, and secure them.
3. Place a washer on each of the remaining bolts with handles, and attach the main mount to the vehicle cross member using bolts with handles and locknuts. Once all six locknuts are in place, fully tighten locknuts according to the torque chart.
4. Bend or cut the ends of the bolt handles protruding out of the vehicle frame.
5. Fully tighten the four fasteners securing the main mount to the bumper brackets according to the torque chart.

6. Attach the rear of the skid pan to the vehicle. Mark the skid pan as necessary to fit around the mount. Remove and cut the skid pan, then reattach it to the vehicle.



7. Fully tighten all vehicle and mount assembly fasteners according to the torque chart.
8. Reattach the wheel well and fender flare using plastic rivets (two on each side). This procedure requires the use of a Marson brand Klik-Loc™ plastic rivet setter number 48000 or equivalent, which is available from many local automotive centers or dealerships.

NOTE: The plastic rivet manufacturer claims that "Under extremely dry conditions these rivets may break 'short' do to moisture loss." Should this occur, soak the rivets in water overnight.

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. This equipment manufacturer or the vehicle manufacturer may require or recommend optional equipment for snow removal. 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.

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