

42113-1

MOUNT KIT PERSONAL PLOW

Jeep Wrangler

2007-__

Installation Instructions

▲ CAUTION

Read this document before installing the snowplow.

▲ CAUTION

See your sales outlet/website for specific vehicle application recommendations before installation. The online selection system 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

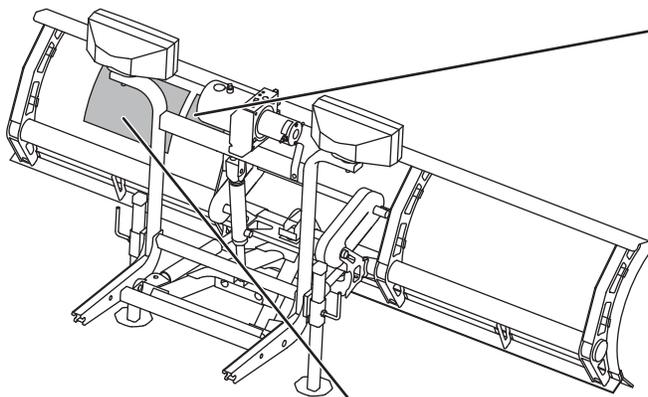
Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

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 & INSTRUCTION LABELS

Become familiar with and inform users about the warning/caution 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

| | |
|------------------|---|
| ⚠ WARNING | |
| | Lower blade when vehicle is parked. |
| | 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 (72 km/h). Further reduce speed under adverse travel conditions. |
| | Plowing speed should not exceed 10 mph (16 km/h). |
| | See your sales outlet/website for specific vehicle application recommendations. |

Instruction Label

This snowplow is for personal/homeowner use only.

| | | | |
|----------------------------|--|---|--|
| ATTACH INSTRUCTIONS | <ol style="list-style-type: none"> 1. Make certain both connecting pins are fully retracted. 2. Drive vehicle slowly to completely insert attachment arms into receiver assembly slots. | <ol style="list-style-type: none"> 3. Twist both connecting pins to release spring tension, then push plow gear toward vehicle so connecting pins fully engage holes in attachment arms. | <ol style="list-style-type: none"> 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. |
| | | | |
| DETACH INSTRUCTIONS | <ol style="list-style-type: none"> 5. Back vehicle away from snowplow. 6. See Owner's Manual for proper snowplow storage. | <ol style="list-style-type: none"> 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. | <ol style="list-style-type: none"> 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. |
| | <p>U.S. patents 6,941,685; 7,400,058; 7,737,576; and other patents pending. 27155.07</p> <p>Read Owner's Manual for complete instructions.</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 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 online selection system for minimum vehicle recommendations and ballast requirements.

PERSONAL SAFETY

- Remove the 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.

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, the vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

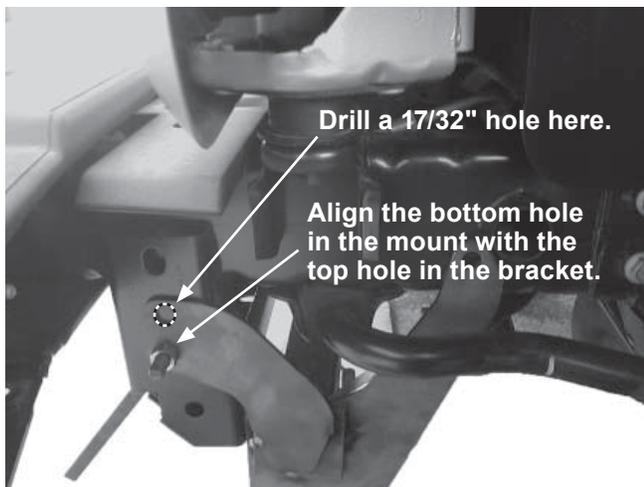
1. Remove the bumper and air dam. Retain fasteners for later reinstallation.
2. **For 2007–2009 Models:** Align the four front holes in the mount with the four holes in the underride protection beam brackets.



⚠ CAUTION

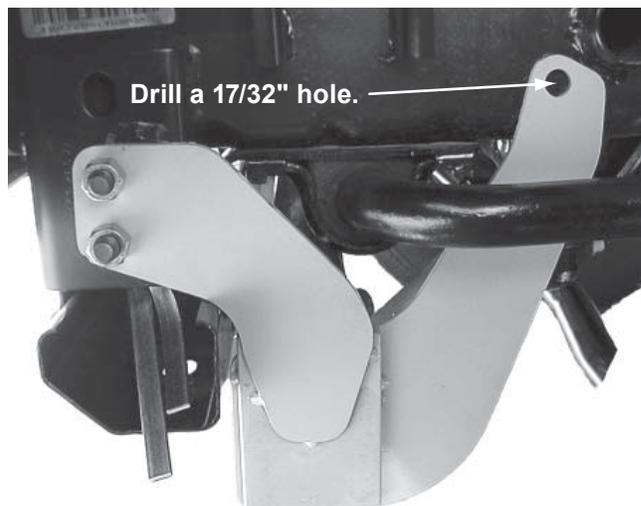
Use caution not to pinch, cut, or drill through any wires or hoses running along the frame rails.

For 2010 and Later Models: Align the bottom hole in the mount with the top hole in underride protection beam brackets as shown below. Use the top hole in the mount as a template to drill a 17/32" hole through the bracket.

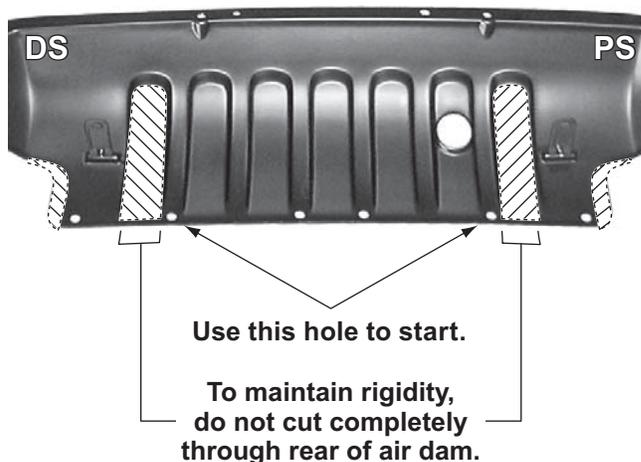


NOTE: Front wheels should be straight ahead for easiest installation.

3. Insert two 1/2" x 1-1/4" cap screws with short (5-1/2") handles and two 1/2" washers into the truck frame and out through the front mount holes on each side. Attach a 1/2" locknut to each cap screw and finger tighten.
4. Push the entire mount tight up against the vehicle frame so that the rear stiffeners contact the frame. Tighten the four front fasteners so that the mount is firmly held against the frame.
5. Using the holes in the rear of the mount as guides, drill a 17/32" hole through the frame rail on each side of the vehicle.



6. Insert a 1/2" x 1-1/2" cap screw with long (18") handle and a 1/2" washer into the front of each frame rail and out through the drilled holes on either side. Attach a 1/2" locknut to each cap screw and finger tighten.
7. Tighten all fasteners according to the torque chart. Bend or cut handles protruding from the frame to improve appearance.
8. Measure the distance between the mount beam rear hole and the ground. If it exceeds 11-1/2", install the accessory Height Adapter Plate Kit (PN 77555) to ensure optimum plowing performance.
9. Modify the air dam as needed (see below for suggested cutting). Reinstall the air dam and bumper using original fasteners.



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