



## PARTS & INSTALLATION INSTRUCTIONS MEYER SNOW PLOW MOUNTING FOR 1984 AND LATER JEEP CHEROKEE, WAGONEER AND COMMANCHE (NOT TO BE INSTALLED ON SHORT BED COMMANCHE)

### IMPORTANT NOTICE

**End user must be given this instruction sheet prior to delivery of this Snow Plow.**

The equipment you have just purchased should only be used on vehicles equipped with the Manufacturer's Snow Plow Preparation Packages. Snow Plowing without the original Snow Plow Preparation Package may damage your vehicle and the added weight to the equipment may impair the operation and control of the vehicle. Snow Plowing with a vehicle that the manufacturer does not recommend for that purpose may void your new vehicle warranty. If your vehicle is not originally equipped with the Snow Plow Package, additional parts may be necessary before snow plowing. Owners of these vehicles should consult their dealers before purchase or installation of such parts. CAUTION: the installation, on any vehicle, of these parts is not a full substitute for the original equipment Snow Plow Preparation Package.

**Warning: Lift Arm extends beyond bumper of vehicle. To minimize damage from a front-end collision, Lift Arm should be removed from vehicle when Snow Plow is removed.**

### PARTS LIST

| ITEM | PART NO. | QTY | DESCRIPTION                           |
|------|----------|-----|---------------------------------------|
|      | 18062    | 1   | <b>MOUNTING CARTON</b>                |
| 1    | 11410    | 1   | • Clevis Frame                        |
| 2    | 11413    | 1   | • L.H. Side Plate                     |
| 3    | 11414    | 1   | • R.H. Side Plate                     |
| 4    | 10514    | 1   | • Lift Arm                            |
| 5    | 12978    | 2   | • Trip Spring                         |
| 6    | 12984    | 1   | • Pivot Bar                           |
| 7    | 13594    | 1   | • A-Frame                             |
| 8    | 11462    | 2   | • Receiver Tube Cap                   |
|      | 22064    | 1   | • 6'4" pc. Convoluted Tube 3/8" I.D.  |
|      | 08636    | 1   | • <b>HARDWARE BAG</b>                 |
| 9    | 11006    | 2   | •• Hinge Pin                          |
| 10   | 11406    | 2   | •• Clip - Air Dam                     |
| 11   | 14595    | 1   | •• Special Bolt 3/4"                  |
| 12   | 20141    | 6   | •• Bolt H 5/8-11 x 2" Gr. 5           |
| 13   | 20144    | 1   | •• Bolt H 5/8-11 x 2-3/4" Gr. 5       |
| 14   | 20146    | 2   | •• Bolt H 5/8-11 x 3-1/4" Gr. 5       |
| 15   | 20254    | 1   | •• Bolt C 5/8-11 x 3-1/2" Gr. 5       |
| 16   | 20309    | 10  | •• Locknut Esna 5/8-11                |
| 17   | 20310    | 1   | •• Locknut Esna 3/4-10                |
| 18   | 20312    | 4   | •• Nut Eslock 1/4-20                  |
| 19   | 20328    | 1   | •• Lockwasher 7/16                    |
| 20   | 20355    | 1   | •• Flatwasher 1/2                     |
| 21   | 20357    | 1   | •• Flatwasher 5/8                     |
| 22   | 21938    | 1   | •• Bolt H 7/16-14 x 4" Gr. 8          |
| 23   | 22065    | 6   | •• Bolt H M10x 1.5P x 40MM            |
| 24   | 22077    | 1   | •• M14 x 2.0 Sleeve Nut Hex           |
| 25   | 22078    | 1   | •• Screw Button Head Torx M14 x 2"    |
| 26   | 22086    | 4   | •• Screw 1/4-20 Hex Head x 1" (Black) |
| 27   | 21984    | 2   | •• Hairpin Cotter                     |
| 28   | 11275    | 1   | <b>LIFT FRAME(Tubular)</b>            |

| ITEM | PART NO. | QTY | DESCRIPTION                     |
|------|----------|-----|---------------------------------|
|      |          |     | Reference Form 1-694            |
|      | 08511    | 1   | • <b>SNOW PLOW HARDWARE BAG</b> |
| 29   | 11006    | 2   | •• Hinge Pins                   |
| 30   | 22083    | 2   | •• Linch Pin                    |
| 31   | 12150    | 2   | •• Eyebolts                     |
| 32   | 20318    | 4   | •• Eslock Nuts 5/8 - 11         |
| 33   | 13598    | 2   | •• Pivot Bolts                  |
| 34   | 13591    | 1   | •• King Bolt                    |
| 35   | 20150    | 2   | •• Bolt H 5/8 - 11 x 4 1/2"     |
| 36   | 20309    | 5   | •• Locknuts, 5/8 - 11           |
|      | 09916    | 1   | • <b>SNOW PLOW MARKER KIT</b>   |
| 37   |          | 2   | •• Snow Plow Marker Assy.       |
| 38   |          | 2   | •• Clamp                        |
| 39   |          | 2   | •• Bolts H 1/4 " - 20 x 1       |
| 40   |          | 2   | •• Locknut, 1/4 - 20            |
| 41   |          | 2   | •• Lockwasher. 1/4"             |

**Parts indented are included in the carton, bag or assembly under which they are indented.**

Meyer Products Inc. and Diamond Equipment reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.



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# GENERAL INFORMATION

**CAUTION:** Always disconnect battery before beginning installation.

**DO NOT BURN** holes or **WELD** vehicle frame. This may cause frame failure.

After first use, retighten all mounting bolt connections to specified torque. All mounting bolt connections to be checked periodically for tightness.

Locknuts are furnished **DO NOT** tighten bolts and nuts until installation is complete (unless otherwise specified), then be sure to tighten all attaching parts per specified torque chart.

**NOTE:** It is important that the Meyer harness, all wires from the Meyer light switch, and all other electrical wires be routed around hot or moving engine parts, and any sharp metal. Protection must be provided to guard against wire damage at these points. All excess or loose wires must be neatly secured using wire ties.

## TORQUE CHART FOOT LBS.

| Bolt Nut Size | Gr. 2   | Gr. 5     | Gr. 8     |
|---------------|---------|-----------|-----------|
| 1/4 - 20      | 4 - 5   |           |           |
| 5/16 - 18     | 9 - 11  |           |           |
| 3/8 - 16      | 17 - 20 |           |           |
| 7/16 - 14     |         | 26 - 29   |           |
| 1/2 - 13      |         | 42 - 46   | 60 - 66   |
| 5/8 - 11      |         | 127 - 141 | 179 - 198 |
| 3/4 - 10      |         | 227 - 251 |           |

Check contents against the parts list to determine all are correct and included, and also to familiarize yourself with them.

**SAFETY PRECAUTIONS** should be used when **Hydraulic Unit is in OPERATION** and plow is in a **RAISED** position. **Lower plow to ground when vehicle is PARKED.**

**OVERHAUL** and **SERVICE INFORMATION** are covered on separate instructions.

Follow these instructions explicitly. Warranty does not apply to a Meyer product which has been negligently or improperly assembled or installed.

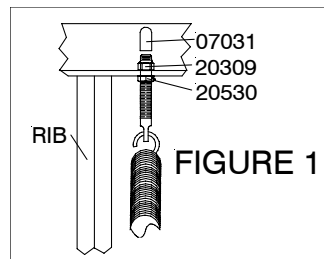


FIGURE 1

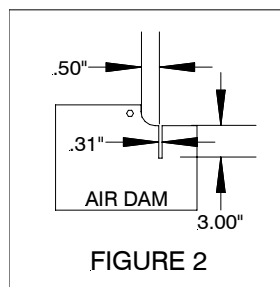


FIGURE 2

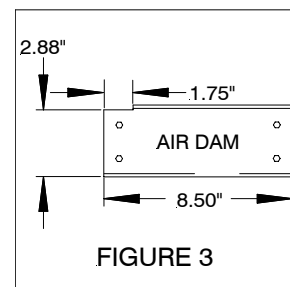
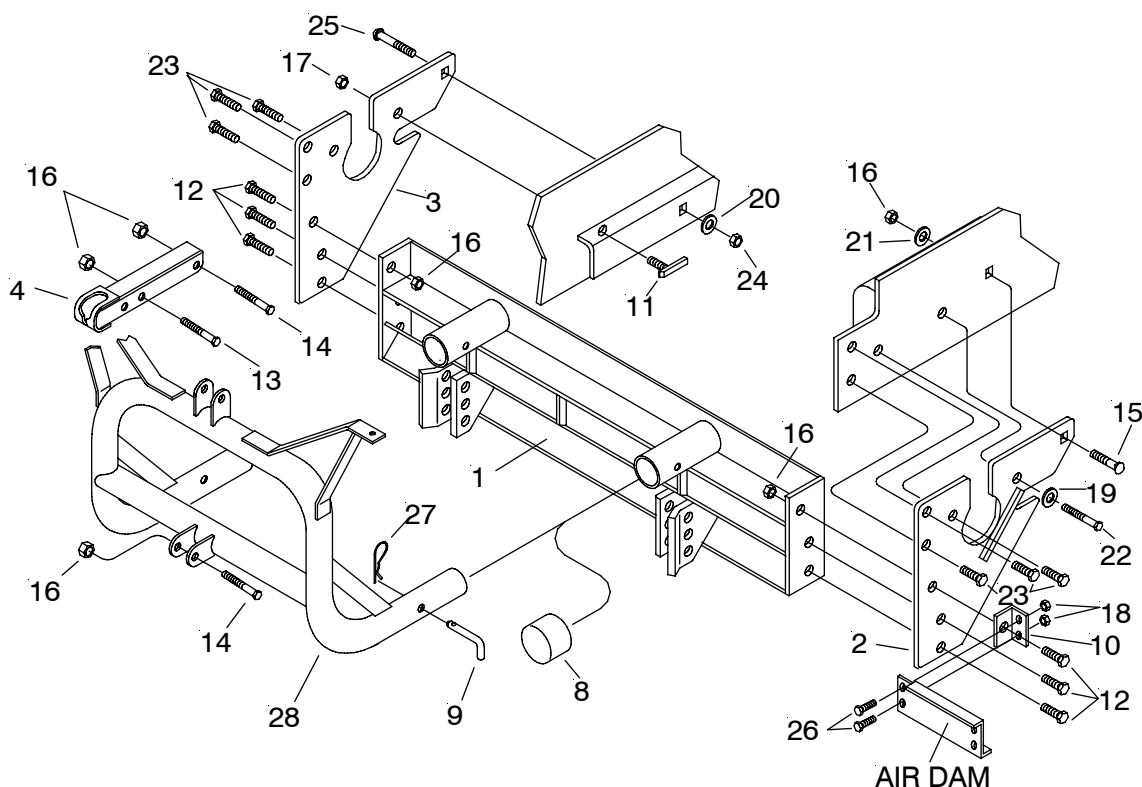


FIGURE 3



Meyer Products assumes no responsibility for installations not made in accordance with these instructions.

# INSTALLATION INSTRUCTIONS

**NOTE: Installation of this mounting may or may not require cutting of the front air dam to allow mounting clearance. Also, vehicle skid plate will not be used.**

- A. Remove bumper . Leave clip nuts in place. Retain bolts. They will not be reused.
- B. Remove air dam . Retain all hardware.
- C. Tow hooks cannot be used with the snow plow mounting. Remove tow hooks which are secured with "torx" head bolts. Retain tow hooks and all hardware, they will not be reused .
- D. Remove lower front steering gear box bolt . Retain bolt . It will not be reused .
- E. Position L.H . (driver's side) side plate (2) slotted hole over air dam brace and fender support brackets. Attach side plate to vehicle frame using 5/8-11 x 3-1/2" carriage bolt (15), flat washer (21), and locknut (16). Also attach side plate at steering gear box using 7/16-14x4" bolt (22) and lockwasher (19).
- F. Position R .H . (passenger side) side plate (3) slotted hole over air dam brace and fender support brackets. Temporarily attach side plate to front of vehicle frame using three M-10 x 15P x 40MM bolts (23).
- G. Using side plate (3) as a template, scribe hole "A" onto vehicle frame.
- H. Remove side plate (3) and drill a 1 "diameter hole thru vehicle frame at scribe mark.
- I . Reattach side plate (3) using special bolt (11), locknut (17), button head torx bolt (25), flatwasher (20) and hexhead sleeve nut (24) .

**Note: Bolt (25) and hexhead sleeve nut (24) are required on '86 and later vehicles to provide clearance for the alternator with certain engine options. On pre '86 vehicles, use a 5/8-11 x 3- 1/2" bolt (15), 5/8 flatwasher (21) and 5/8-11 ESNA locknut (16) and install at this location. (In order to facilitate tightening of the carriage bolts on the side plates, it may be necessary to temporarily loosen the steering gear box at this point .)**

- J. Adjust bumper bracket width to accommodate side plates (2 & 3).
- K. Reattach bumper, side plates to front of vehicle frame using M10 x 1 .5P x 40MM bolts (23) .

- L. Install clevis frame (1) and air dam clip brackets (10) to side plates (2 & 3) using 5/8-11 x 2" bolts (12) and locknuts (16) . Note: Air dam clip (10) is not necessary on the 1984 thru 1991 model years.
- M. Clevis frame (1) should be pushed back as far as possible under the vehicle to remove slack in bolt holes. Tighten all nuts to proper torque as shown in torque chart, starting with the rear carriage bolt and working forward in the tightening process. If steering gear mounting bolts were loosened, retorque to 65 foot pounds.
- N. 1984 thru 1991 Vehicles: Notch air dam as shown in Fig. 2 and reattach to vehicle; replace previously removed fasteners.
- O. 1992 Vehicles: Rework air dam as shown in Fig . 3. Attach air dam to fender using original vehicle hardware. Attach air dam to clip bracket (10) using 1/4-20 x 1 " screw (26) and locknut (18) .
- P. Install lift frame (28) into the tubes on clevis frame (1) using hinge pin (9) and hair pin cotter (27) .

**Note: Before installing lift frame tubing to clevis frame, liberally coat ends of lift frame with chassis grease/anti-seize lubricant.**

- Q. Install lights making certain there is clearance behind the lights for opening the vehicle hood . Lights must be aimed to comply with Federal Regulations .
- R. Install plow light wiring per separate instructions .
- S. Attach lift arm (4) to lift frame (28) using 5/8-11 x 3-1/4" bolt (14) and locknut (16) . Mount Electro-Touch unit to lift frame with 5/8-11 x 3-1/4" bolt (14), and locknut (16), and to lift arm (4) using 5/8-11 x 2-3/4" bolt (13) and locknut (16) .
- T. Install Electro-Touch wiring system per separate instructions.

**Note: When the lift frame module (28) is removed from the vehicle, the insides of clevis frame (1) receiver tubes and outside ends of the lift frame should be coated with chassis grease/anti-seize lubricant and the protective receiver tube caps (8) installed over the clevis frame receiver tubes.**

- U. Install Moldboard Assembly per separate instructions.

**Reference Form 1-694 or 1-670 for Moldboard Assembly.**