

BOSS PRODUCTS
A Division of Northern Star Industries, Inc.
P.O. Box 787 Iron Mountain MI 49801-0787
www.bosspow.com

**1991 - 2002 CHEV / GMC 3500 HD
RT II™ UNDERCARRIAGE
MOUNTING INSTRUCTIONS
(PART NO. LTA03598)**

WARNING

Many newer trucks are now equipped with air bags. DO NOT under any circumstances disable, remove or relocate any sensors or other components related to the operation of the air bags.

For recommended vehicle models refer to the Boss Snowplow Application Chart and Selection Guide.

To comply with Federal Regulations and to assure a safe vehicle, the Front Gross Axle Weight Rating (FGAWR), Rear Gross Axle Weight Rating (RGAWR), and the Gross Vehicle Weight Rating (GAWR) must not be exceeded at any time.

Due to the variety of equipment that can be installed on this vehicle, it is necessary to verify that the Front Gross Axle Weight Rating (FGAWR), Rear Gross Axle Weight Rating (RGAWR), and the Gross Vehicle Weight Rating (GAWR) are not exceeded at any time. This may require weighing the vehicle and adding ballast as necessary. It may also limit payload capacity of the vehicle. It is the operator's responsibility to verify that these ratings are not exceeded.

1991 - 2002 CHEV / GMC 3500HD UNDERCARRIAGE MOUNTING INSTRUCTIONS (WITH RAPID-TACH II™)

The mounting procedure outlined below covers CHEVROLET AND GMC 3500HD trucks built from 1991 through 2002. You will need to refer to the illustrations and familiarize yourself with each of the undercarriage components and their relative position to each other. Then proceed as follows:

1. Position the PUSH BEAM SUPPORT PLATE (LH) (Ref 62D, Figure 1) to the front outside of the truck frame as shown in figure 1. Place the PUSH BEAM SUPPORT PLATE INSIDE MOUNT (LH) (Ref 62C, Figure 1) on the other side of the frame rail and bolt through the frame using two ½" x 13 – 6" HEX HEAD BOLTS, ½" HARDENED WASHERS, and ½" x 13 HEX HEAD SELF LOCKING NUTS. Insert two ½" x 13 – 2" HEX HEAD BOLTS with ½" HARDENED WASHERS through the bottom of the PUSH BEAM SUPPORT PLATE (LH) and secure using ½" x 13 HEX HEAD SELF LOCKING NUTS, with two ½" HARDENED WASHERS.
2. Using the same procedure as above, install the PUSH BEAM SUPPORT PLATE (RH) and PUSH BEAM SUPPORT PLATE INSIDE MOUNT (Ref 62, Figure 1) between the PUSH BEAM SUPPORT PLATES and secure using ½" x 13 – 2" HEX HEAD BOLTS, and ½" x 13 HEX HEAD SELF LOCKING NUTS. Install only the front two bolts on each SUPPORT PLATE.
3. Position the PUSH BEAM ASSEMBLY (Ref 62, Figure 1) between the PUSH BEAM SUPPORT PLATES and secure using ½" x 13 – 2" HEX HEAD BOLTS, and ½" x 13 HEX HEAD SELF LOCKING NUTS. Install only the front two bolts on each SUPPORT PLATE.

NOTE: The proper height adjustment for the PUSH BEAM is approximately 13 ½" for the 8'2", 9'2", and all Straight Blade Snowplows measured from the ground to the center of the push beam rod. If the PUSH BEAM cannot be set to 13 ½", install it at the highest setting possible and follow the V-BLADE LEVELING PROCEDURE on the following page.

4. Position the ANGLE BRACKET (LH) (Ref 75L, Figure 1) to the truck frame. With the frame mount end of the ANGLE BRACKET held tightly against the bottom of the frame mark the bolt holes to attach the ANGLE BRACKET. Secure the ANGLE BRACKET to the PUSH BEAM SUPPORT PLATE and PUSH BEAM ASSEMBLY using two ½" x 13 – 2" HEX HEAD BOLTS, and ½" x 13 HEX

HEAD SELF LOCKING NUTS. Secure the ANGLE BRACKET to the frame using one ½" U-BOLT, one ½" x 13 – 5 ½" HEX HEAD BOLT and three ½" x 13 HEX HEAD SELF LOCKING NUTS.

5. Install the ANGLE BRACKET (RH) (Ref 75R, Figure 1) using the same procedure as above, but with a ½" x 13 – 4 ½" HEX HEAD BOLT.

6. With all undercarriage parts in place, securely fasten all mounting hardware. It is important that all fasteners be properly torqued (see Figure 3) to assure a safe operating plow. Re-tighten all fasteners after 2 hours of plowing.

1991 - 2002 CHEV / GMC 3500HD UNDERCARRIAGE (WITH RAPID-TACH II™) INSTALLATION PROCEDURE

| REF. NO. | DESCRIPTION | PART NO. | QTY. |
|-----------|---|----------|------|
| 62 | Push Beam Assembly | PBA03503 | 1 |
| 62A | Push Beam Support Plate (RH) | LTA03599 | 1 |
| 62B | Push Beam Support Plate Inside Mount (RH) | LTA03602 | 1 |
| 62D | Push Beam Support Plate (LH) | LTA03605 | 1 |
| 62C | Push Beam Support Plate Inside Mount (LH) | LTA03607 | 1 |
| 75R | Angle Bracket (RH) | LTA03609 | 1 |
| 75L | Angle Bracket (LH) | LTA03613 | 1 |
| | FASTENER KIT, HD3500,91-02 | HDW05522 | 1 |
| Includes: | | | |
| A | 1/2" - 13 x 4- 1/2" Hex Head Bolt | HDW01778 | 1 |
| B | 1/2" - 13 x 5- 1/2" Hex Head Bolt | HDW05525 | 1 |
| C | 1/2" - 13 x 6" Hex Head Bolt | HDW05526 | 4 |
| D | 1/2" - 13 x 2" Hex Head Bolt | HDW01755 | 12 |
| E | 1/2" Hardened Washer | HDW05501 | 10 |
| F | 1/2" - 13 Hex Head Self Locking Nut | HDW01748 | 22 |
| G | 1/2" U-Bolt | HDW05504 | 4 |

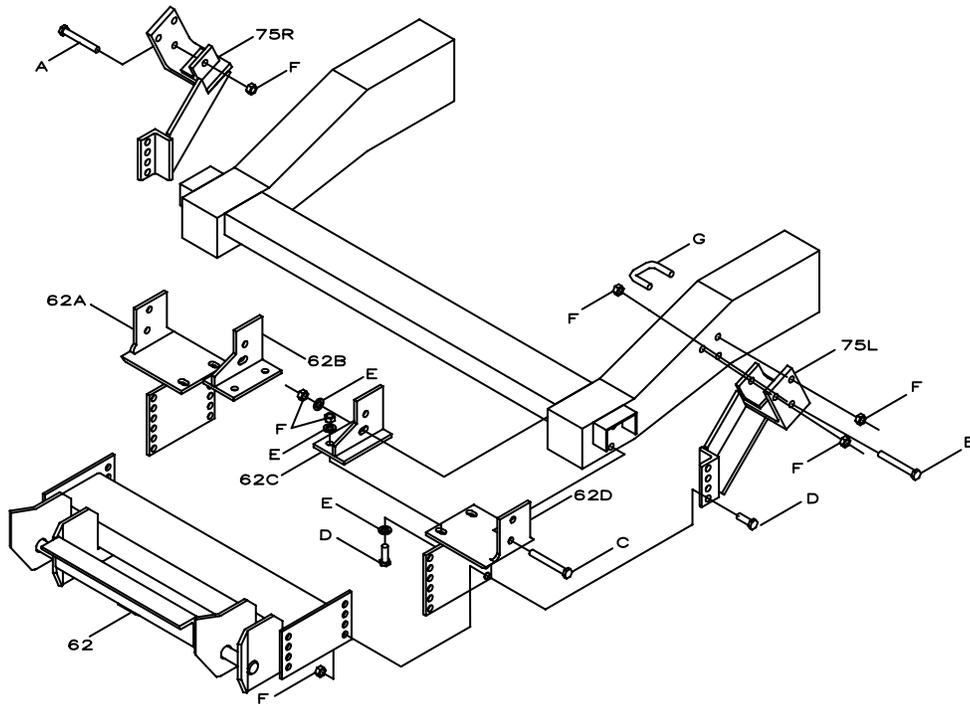


Figure 1

V-BLADE LEVELING PROCEDURE

If the push rod could not be set at $13\frac{1}{2}$ " , a shim will need to be installed between the T-FRAME and CENTER SECTION so that the blades will lay flat when in the scoop position.

With the snowplow attached, extend the wings to the scoop position then drive forward slightly. If the end of the wings do not touch the ground, insert the $\frac{1}{4}$ " shim plate provided between the CENTER SECTION and T-FRAME.

Lower the plow again, drive forward slightly to determine if the blades now lay flat. If they do not, insert another shim to make the blade lay flat. Weld these shims to the T-FRAME.

RECOMMENDED PUSHBEAM HEIGHT

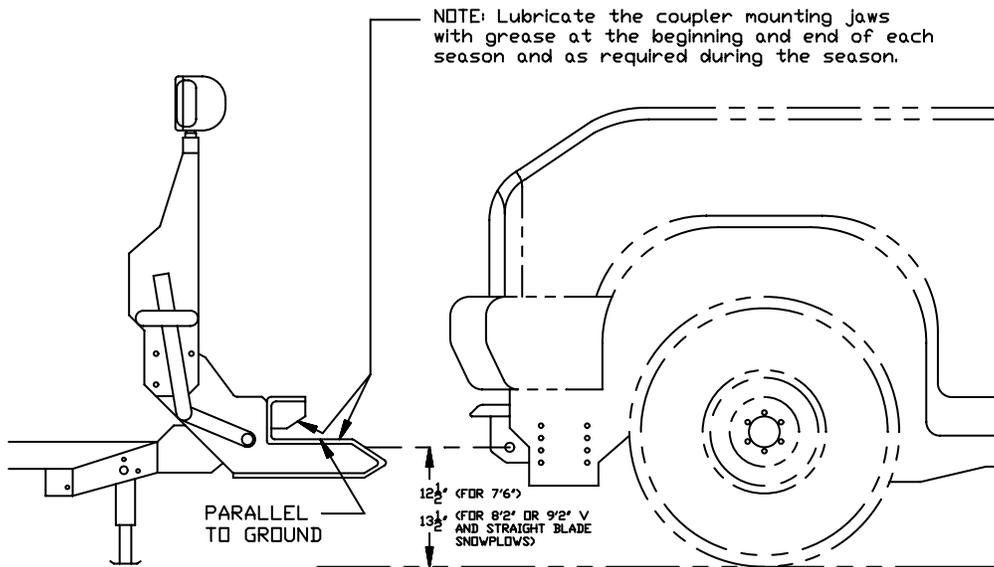


Figure 2

GUIDE TO RECOMMENDED ASSEMBLY TORQUE

All Torque Values Are In Foot-Pounds (Ft.-Lb.)

| DIA./PITCH | CLASS 10.9 | GRADE 5 | GRADE 8 |
|------------|------------|---------|---------|
| 1/4 - 20 | | 6 | 9 |
| 5/16 - 18 | | 14 | 19 |
| 3/8 - 16 | | 23 | 33 |
| 7/16 - 14 | | 38 | 53 |
| 1/2 - 13 | | 56 | 80 |
| 9/16 - 12 | | 82 | 116 |
| 5/8 - 11 | | 113 | 159 |
| 3/4 - 10 | | 201 | 283 |
| M10-1.5 | 49 | | |
| M12-1.75 | 86 | | |

* The torque values listed above are based on dry, coated bolts, variables such as oil, or other lubrications may appreciably alter these values and must be taken into consideration.

NOTE: IT IS IMPORTANT THAT ALL FASTENERS BE PROPERLY TORQUED TO ASSURE A SAFE OPERATING PLOW.

Figure 3