

BOSS PRODUCTS
A Division of Northern Star Industries, Inc.
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1999 - 2002 CHEVROLET/GMC ½ TON RT II[™] UNDERCARRIAGE MOUNTING INSTRUCTIONS (PART NO. LTA02639)

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.

1999 - 2002 CHEVROLET/GMC 1/2 TON RTII UNDERCARRIAGE MOUNTING INSTRUCTIONS

The mounting procedure outlined below covers CHEVROLET/GMC (1999 - 2002) ½ ton 4 X 4 trucks. 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:

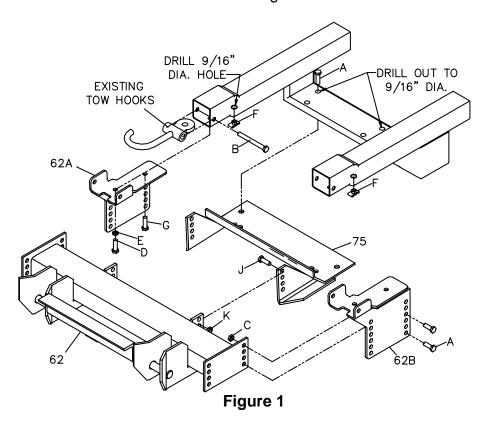
- 1. Remove the existing tow hook bolts. Note: it may be necessary to remove the front bumper to remove the tow hooks. Position the PUSH BEAM SUPPORT PLATES (Ref. 62A and B, Fig. 1) to the front frame rails of the truck. Use the $\frac{1}{2}$ " 13 x 6 bolts, the $\frac{1}{2}$ " 13 hex head self locking nuts, the M12 x 40mm hex head bolts and the M12 lockwashers to bolt the PUSH BEAM SUPPORT PLATES in place (see Fig. 1). Drill the frame rail for the rear bolt position on the PUSH BEAM SUPPORT PLATES. Lower the PUSH BEAM SUPPORT PLATES and insert the J-NUTS. Replace the PUSH BEAM SUPPORT PLATES and secure using the hardware already mentioned and the $\frac{3}{8}$ -16 x 1-1/4 bolts and $\frac{3}{8}$ flatwashers. Fasteners should only be finger tight.
- 2. Remove the existing plastic engine guard from the bottom front of the vehicle. Remove the four existing bolts holding the skid plate in place on the vehicle. Drill out the rear two existing positions in the vehicle crossmember as shown in Fig, 1, the bottom of the plastic engine guard and the front of the skid plate to 9/16". Using the $\frac{1}{2}$ " 13 x 1- $\frac{1}{2}$ " bolts and $\frac{1}{2}$ " 13 hex head self locking nuts mount the ANGLE BRACKET (Ref. 75, Fig. 1) into place under the plastic engine guard and the skid plate. The plastic engine guard will need to be slotted for the ANGLE BRACKET. Bolts should only be finger tight. The plastic engine guard will be reattached to the crossmember in step 5. Re-install the bumper if removed in step 1.
- 3. Bolt the PUSH BEAM (Ref. 62, Fig. 1) in place using the $\frac{1}{2}$ " 13 x 1- $\frac{1}{2}$ " hex head bolts and self locking nuts provided. Fasteners should only be finger tight. Use the $\frac{1}{2}$ " 13 x 1- $\frac{1}{2}$ "

grade 8 bolts and the $\frac{1}{2}$ " - 13 grade 8 hex head self locking nuts to attach the ANGLE BRACKET to the PUSH BEAM with at least 2 bolts on each leg. The grade 8 hardware is coated with yellow zinc to distinguish them from other fasteners. NOTE: The proper height adjustment for the PUSH BEAM is approximately 12-1/2" for the 7'-6" V or 13-1/2" for the 8'-2" V and the 9'-2" V from the ground to the center of the PUSH BEAM MOUNTING ROD (see Fig. 2). Should the PUSH BEAM ASSEMBLY be mounted too high, the nose of the plow will tend to dig in while plowing. If the PUSH BEAM ASSEMBLY is mounted too low the wings of the plow will not lay flat against the ground. This will be most apparent when plowing in the scoop position.

- 4. With all undercarriage parts in place, securely fasten all mounting hardware. It is important that all fasteners be properly torqued (see Fig. 3) to assure a safe operating plow.
- 5. Align the lower holes of the plastic splash shield with the corresponding holes in the cross member and attach using the original hardware.

1999 - 2002 CHEVROLET/GMC ½ TON RTII UNDERCARRIAGE INSTALLATION PROCEDURE

DESCRIPTION	PART NO.	QTY.
Push Beam Assembly	PBA04169	1
Push Beam Support Plate (RH)	PBA04145	1
Push Beam Support Plate (LH)	PBA04146	1
Angle Bracket	LTA04150	1
FASTENER KIT, CHEVY ½ TON 99-02	HDW05581	1
1/2" - 13 x 1- 1/2" Hex Head Bolt	HDW01728	12
½" – 13 x 6" Hex Head Bolt	HDW05526	2
½" – 13 Hex Head Self Locking Nut	HDW01748	14
M12 x 1.75 x 40 MM Hex Head Bolt	HDW05584	2
M12 Lockwasher	HDW05585	2
3/8-16 J-NUT	HDW05578	2
3/8-16 x 1-1/4" Hex Head Bolt	HDW01771	2
3/8" Flatwasher	HDW01733	2
3/8" Split Lockwasher	HDW01718	2
1/2" - 13 x 1- 1/2" Hex Head Bolt Grade 8	HDW05553	4
K ½" – 13 Hex Head Self Locking Nut Grade 8		4
	Push Beam Assembly Push Beam Support Plate (RH) Push Beam Support Plate (LH) Angle Bracket FASTENER KIT, CHEVY ½ TON 99-02 ½" – 13 x 1- ½" Hex Head Bolt ½" – 13 x 6" Hex Head Bolt ½" – 13 Hex Head Self Locking Nut M12 x 1.75 x 40 MM Hex Head Bolt M12 Lockwasher 3/8-16 J-NUT 3/8-16 x 1-1/4" Hex Head Bolt 3/8" Flatwasher 3/8" Split Lockwasher ½" – 13 x 1- ½" Hex Head Bolt Grade 8	Push Beam Assembly Push Beam Support Plate (RH) PBA04145 Push Beam Support Plate (LH) PBA04146 Angle Bracket FASTENER KIT, CHEVY ½ TON 99-02 HDW05581 ½" – 13 x 1- ½" Hex Head Bolt ½" – 13 x 6" Hex Head Bolt ½" – 13 Hex Head Self Locking Nut HDW01728 M12 x 1.75 x 40 MM Hex Head Bolt HDW05584 M12 Lockwasher HDW05585 3/8-16 J-NUT HDW05578 3/8-16 x 1-1/4" Hex Head Bolt HDW01771 HDW01771 HDW01771 3/8" Flatwasher HDW01733 HDW01718



RECOMMENDED PUSHBEAM HEIGHT

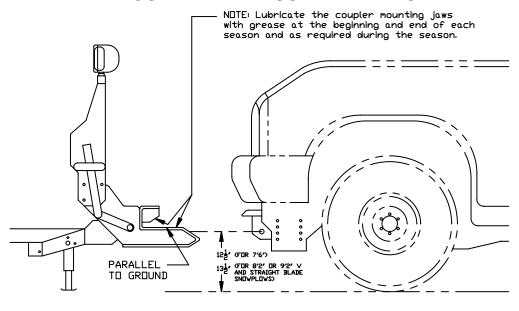


Figure 2

GUIDE TO RECOMMENDED ASSEMBLY TORQUE

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

DIA./PITCH	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
M12 X 1.75	71 (GR 10.9)	
M14 X 2.00	80 (GR 10.9)	
9/16 – 12	82	116
5/8 – 11	113	159
³ ⁄ ₄ - 10	201	283

^{*} 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