

BOSS PRODUCTS  
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**1999-02 & 2003-NEWER  
GENERAL MOTORS ½ TON  
SPORT DUTY UNDERCARRIAGE  
MOUNTING INSTRUCTIONS  
(PART NO. LTA09703)**

# **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.

Always follow the vehicle manufacturers' recommendations relating to snowplow installation. 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.

## **1999-02 & 2003-NEWER GENERAL MOTORS ½ TON SPORT DUTY UNDERCARRIAGE MOUNTING INSTRUCTIONS**

The mounting procedure outlined below covers 1999-2002 & 2003-Newer 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 bolt. Note: it may be necessary to remove the front bumper to remove the tow hooks. Position PUSH BEAM SUPPORT PLATE (62A) to the front frame rail of the truck. Use ½"-13x6 bolts (B), ½"-13 self locking nuts (C), M12x40mm hex head bolts (D) and M12 lock washers (E) to bolt PUSH BEAM SUPPORT PLATE (62A) in place. Drill the frame rail for the rear bolt on the PUSH BEAM SUPPORT PLATE (62A). Lower PUSH BEAM SUPPORT PLATE (62A) and insert J-NUT (F). Replace the PUSH BEAM SUPPORT PLATE (62A) and secure using the hardware already mentioned and 3/8"-16x1-1/4 bolts (G), 3/8" lock washers (I), and 3/8" flat washer (H). Fasteners should only be finger tight.
2. Repeat on opposite frame rail for PUSH BEAM SUPPORT PLATE (62B).
3. 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 ½"-13x1-½" bolts (A) and ½"-13 self locking nuts (C) mount ANGLE BRACKET (75) into place under the plastic engine guard and the skid plate. The plastic engine guard will need to be slotted for ANGLE BRACKET (75). Bolts should only be finger tight. The plastic engine guard will be re-attached to the crossmember in step 6. Re-install the bumper if removed in step 1.
4. Bolt PUSH BEAM (62) in place using ½"-13x1-½" hex head bolts (A) and ½"-13 self locking nuts (C). Fasteners should only be finger tight. Use ½"-13x1-½" grade 8 bolts (J) and ½"-13 grade 8 self locking nuts (K) to attach the ANGLE BRACKET (75) to PUSHBEAM (62) with at least 2 bolts on each leg.

NOTE: The proper height adjustment for the PUSH BEAM (62) is approximately 14-½" from the ground to the center of PUSH BEAM (62) hook receiving hole (See Figure 2). It may be necessary to cut two small slots in the bottom of the plastic air dam to provide relief for the pushbeam support plates and the pushbeam.

5. Align the lower holes of the plastic splash shield with the corresponding holes in the cross member and attach using the original hardware.
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.

Installation Notes:

- A. Use headlight adapter kit MSC04601.
- B. Check for hood swing clearance with the plow attached to the truck. If interference exists between the hood and the plow lights/light bar, move the light bar to the forward mounting position. See Boss Snowplow owner's manual for further details.

# 1999-2002 & 2003-NEWER ½ TON GENERAL MOTORS SPORT DUTY UNDERCARRIAGE INSTALLATION PROCEDURE

REF. NO.	DESCRIPTION	PART NO.	QTY.
62	Push Beam Assembly	PBA09704	1
62A	Push Beam Support Plate (RH)	PBA04395	1
62B	Push Beam Support Plate (LH)	PBA04396	1
75	Angle Bracket	LTA04390	1
	FASTENER KIT, CHEVY ½ TON 99	HDW05581	1
Includes:			
A	½" – 13 x 1- ½" Hex Head Bolt	HDW01728	12
B	½" – 13 x 6" Hex Head Bolt	HDW05526	2
C	½" – 13 Hex Head Self Locking Nut	HDW01748	14
D	M12 x 1.75 x 40 MM Hex Head Bolt	HDW05584	2
E	M12 Lock Washer	HDW05585	2
F	3/8-16 J-NUT	HDW05578	2
G	3/8-16 x 1-1/4" Hex Head Bolt	HDW01771	2
H	3/8" Flat Washer	HDW01733	2
I	3/8" Split Lock Washer	HDW01718	2
J	½" – 13 x 1- ½" Hex Head Bolt Grade 8	HDW05553	4
K	½" – 13 Hex Head Self Locking Nut Grade 8	HDW05554	4

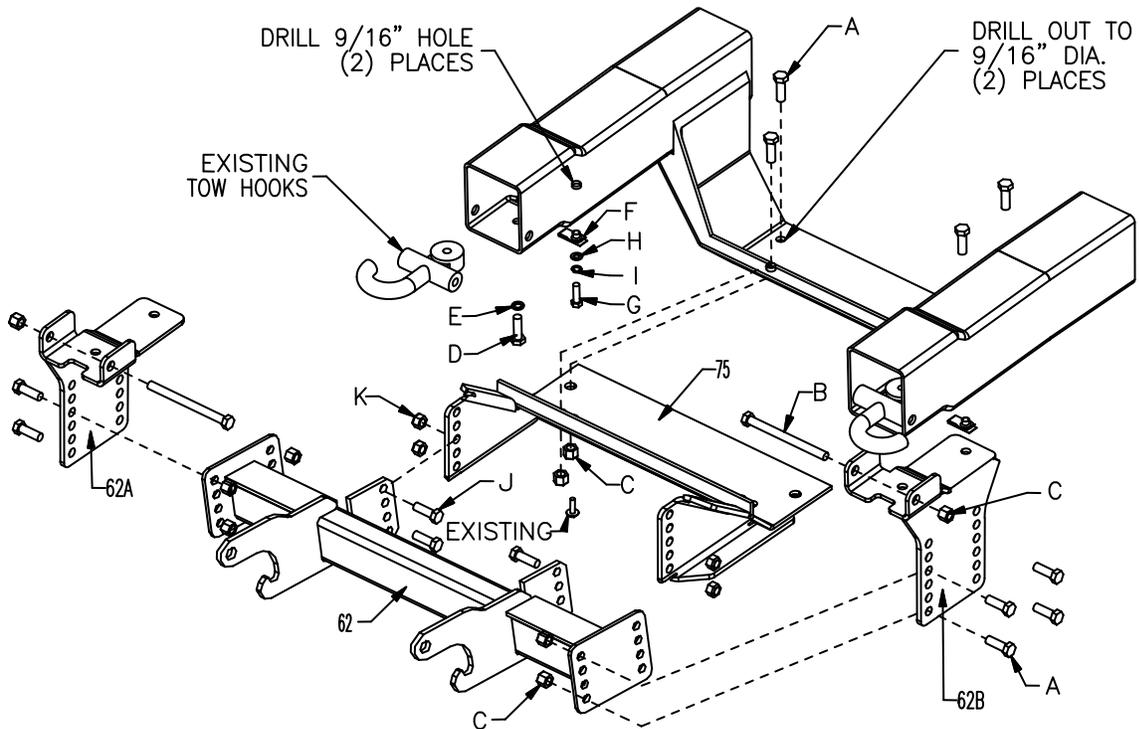


Figure 1

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## RECOMMENDED PUSHBEAM HEIGHT

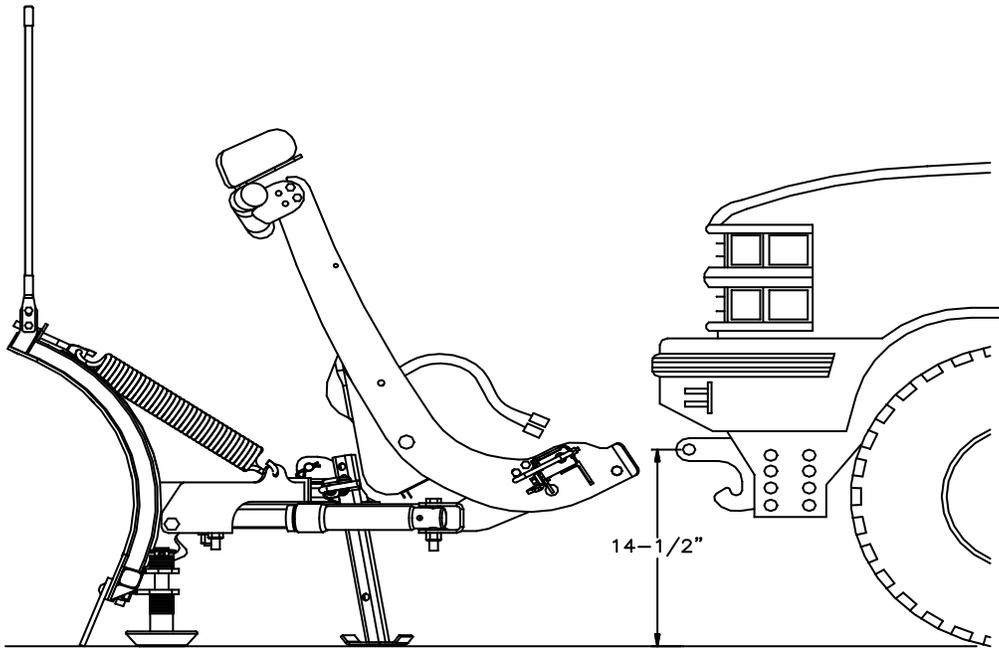


Figure 2

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## GUIDE TO RECOMMENDED ASSEMBLY TORQUE



DIAMETER / PITCH	GRADE 5	GRADE 8	GRADE 8.8	GRADE 10.9
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 X 1.25			36	
M10 X 1.5				49
M12 X 1.75				71
M14 X 2.0				80

ALL TORQUE VALUES ARE IN FOOT-POUNDS (FT.-LB.)

Figure 3

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\* 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. RE-TIGHTEN ALL FASTENERS AFTER 2 HOURS OF PLOWING.