

BOSS PRODUCTS
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**2007 & NEWER
GENERAL MOTORS ½ TON
SPORT DUTY UNDERCARRIAGE
MOUNTING INSTRUCTIONS
(PART NO. LTA09002)**

DRIVEN TO BE THE BEST

MSC09015_2

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.

2007 & NEWER GENERAL MOTORS ½ TON SPORT DUTY UNDERCARRIAGE MOUNTING INSTRUCTIONS

The mounting procedure outlined below covers 2007 & 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 plastic air dam from bumper. Remove front bumper on SUV's or trucks with a molded bumper if notching is required. Remove existing tow hook bolts. Position PUSH BEAM SUPPORT PLATES (62A & 62B) to the front frame rails of the truck.
2. Use ½"-13 x 5" GR5 Hex Head Bolts (E), ½"-13 x 1-1/2" GR5 Hex Head Bolts (A), ½"-13 GRC Oval Top Lock Nuts (G), and existing rear tow hook bolts to fasten PUSH BEAM SUPPORT PLATES (62A & 62B) in place (see Fig. 2). Drill frame rail for the top bolt position on PUSH BEAM SUPPORT PLATES if applicable (Required on SUV's). Use ½"-13 x 5" GR5 Hex Head Bolts (E) in drilled top hole. Fasteners should only be finger tight.
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 to 9/16" as shown in Figure 2.
4. Using ½"-13 x 1-½" GR5 Hex Head Bolts (A), ½" Split Lock Washers (B), ½"-13 Hex Head Full Nuts (D), and Bolt Bar (99), mount ANGLE BRACKET (75) into place under plastic engine guard and skid plate. The plastic engine guard will need to be slotted for ANGLE BRACKET (75). Bolts should only be finger tight.
5. Notch bumper on SUV's or trucks with a molded bumper using template in Figure 1. NOTE: THIS IS ONLY A GUIDE. SOME VEHICLES MAY NOT REQUIRE NOTCHING.
6. Re-install bumper on vehicle if necessary.

7. Bolt PUSH BEAM (62) to PUSH BEAM SUPPORT PLATES (62A & 62B) using $\frac{1}{2}$ "-13 x 1- $\frac{1}{2}$ " GR5 Hex Head Bolts (A) and $\frac{1}{2}$ "-13 Nylon Lock Nuts (C). Fasteners should only be finger tight.
8. Use $\frac{1}{2}$ "-13 x 1- $\frac{1}{2}$ " GR8 Hex Head bolts (F) and $\frac{1}{2}$ "-13 Nylon Lock Nuts (C) to attach ANGLE BRACKET (75) to PUSH BEAM (62) with at least 2 bolts on each leg. NOTE: The proper height adjustment for the PUSH BEAM is 14- $\frac{1}{2}$ " from the ground to the center of PUSH BEAM (62) pin-receiving hole (See Figure 3).
9. With all undercarriage parts in place, securely fasten all mounting hardware. It is important that all fasteners be properly torqued (See Figure 4) to assure a safe operating plow.
10. Align the lower holes of the plastic splash shield with the corresponding holes in the cross member and attach using the provided hardware (if applicable).

Installation Notes:

- A. Use headlight adapter MSC09003 for all Chevy and GMC $\frac{1}{2}$ Ton trucks and Chevy SUV's with 4 headlamp system. Use headlight adapter MSC09993 for GMC SUV's with 2 headlamp system.
- B. Power for the turn signals is taken directly from the battery using the relays built into the headlight adapters. No extra relay kit is needed.

BUMPER TEMPLATE (For Reference Only)

This is only a guide for SUV's or trucks with a molded bumper some vehicles may not require notching.



Figure 1

G10454

2007 & NEWER ½ TON GENERAL MOTORS SPORT DUTY UNDERCARRIAGE INSTALLATION PROCEDURE

REF. NO.	DESCRIPTION	PART NO.	QTY.
62	Push Beam Assembly	PBA09020	1
62A	Push Beam Support Plate, Passenger Side	PBA09012	1
62B	Push Beam Support Plate, Drivers Side	PBA09008	1
75	Angle Bracket	LTA09004	1
99	Bolt Bar	LTA04914	1
	FASTENER KIT, CHEVY ½ TON, 07&UP	HDW09024	1
Includes:			
A	½" – 13 x 1- ½" GR5 Hex Head Bolt	HDW01728	12
B	½" Split Lock Washer	HDW01732	3
C	½" – 13 Nylon Lock Nut	HDW01748	14
D	½" – 13 Hex Head Full Nut	HDW02410	2
E	½" – 13 x 5" GR5 Hex Head Bolt	HDW05499	4
F	½" – 13 x 1- ½" GR8 Hex Head Bolt	HDW05553	4
G	½" – 13 GRC Oval Top Lock Nut	HDW05554	4

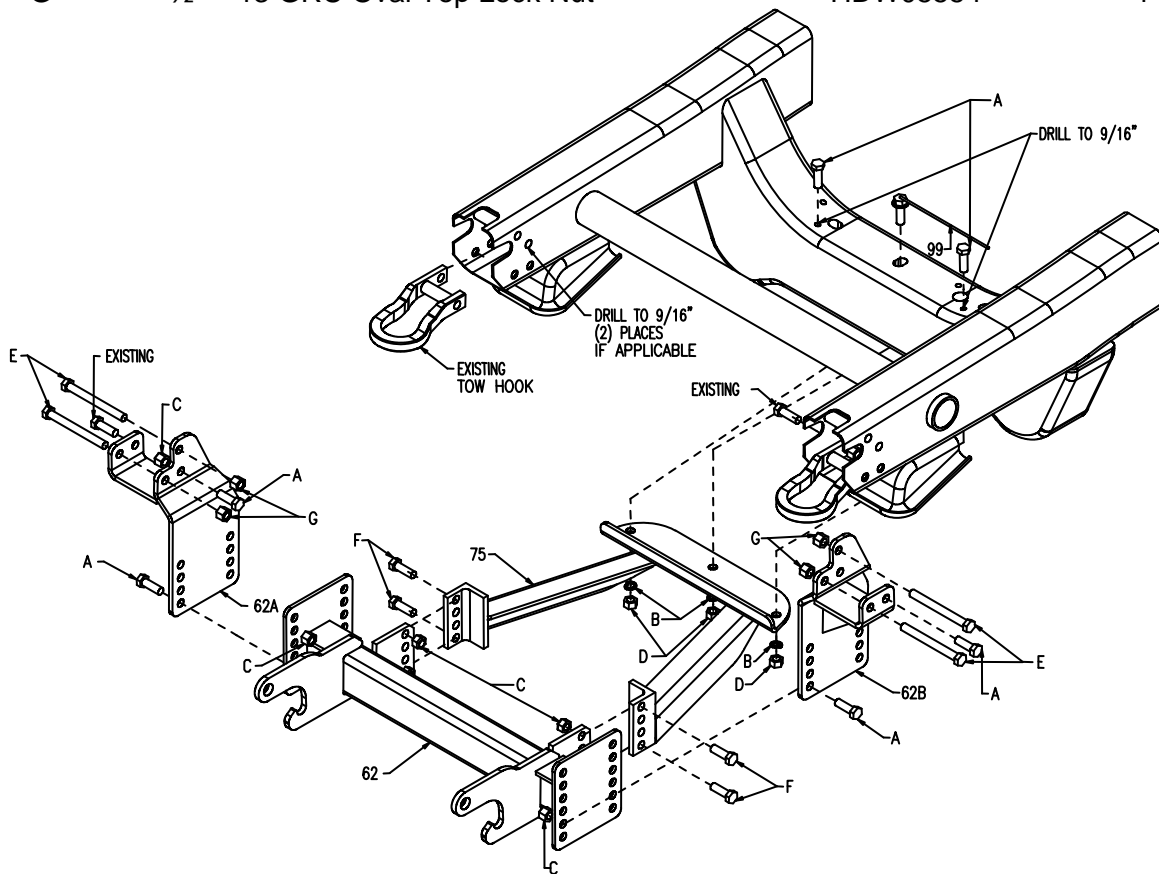


Figure 2

G10453

RECOMMENDED PUSHBEAM HEIGHT

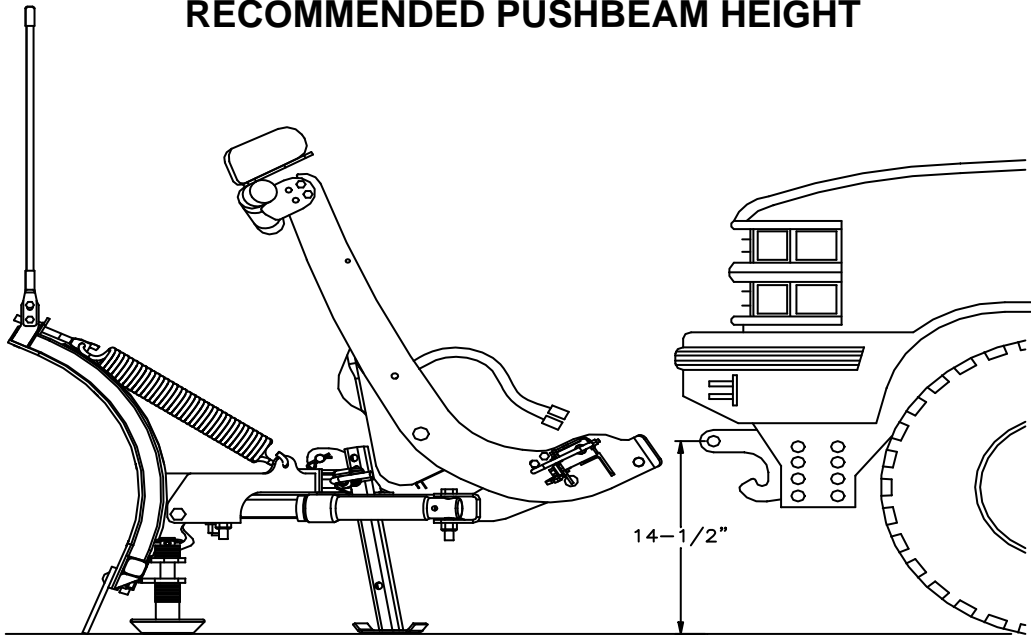
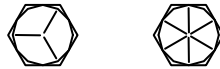


Figure 3

G10299

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 4

G10410

* 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 FLOW.