

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

**2006 & NEWER DODGE 1/2 TON
RT3 UNDERCARRIAGE
MOUNTING INSTRUCTIONS
(PART NO. LTA09823)**

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.

2006 & NEWER DODGE ½ TON RT3 UNDERCARRIAGE MOUNTING INSTRUCTIONS

The mounting procedure outlined below covers the 2006 & Newer Dodge ½ ton 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. There are four nuts holding the bumper to the frame horn on each side. Remove the two inside nuts on each frame horn (see FIG 1). Attach Push Beam Support Plates (62A & 62B) in place temporarily. Align the vertical slots on the Push Beam Support Plates (62A & 62B) with the slots on the frame horn. (THIS MUST BE DONE SO THE BUMPER CAN BE ADJUSTED). With the slots aligned mark the vertical holes on the frame rail remove and drill two 9/16" holes per side.
2. Remove the bumper. Take the valance off and save to return to the customer.
3. Thread four ½"-13 x 1-1/2" GR5 Hex Head Bolts (A) into four ½" Bolt Pullers (99). Insert through the end of the frame into the vertical holes in the frame rails, leaving Bolt Pullers (99) attached.
4. Place the bumper back on the truck.
5. Remove Bolt Pullers (99) carefully (SAVE FOR LATER) install Push Beam Support Plates (62A & 62B) with ½" Split Lock Washers (F) and ½"-13 Full Nuts (D), leaving them finger tight.
6. Attach Angle Brackets (75A & 75B) to Skid Plate Attachment (75) with ½"-13 x 1-1/2" GR 5 Hex Head Bolts (A) and ½"-13 Nylon Lock Nuts (C). They must go to the inside of the tabs on Skid Plate Attachment (75).

7. Assemble ½" Bolt Pullers (99) with three ½" -13 x 1-1/2" GR 5 Hex Head Bolts (A) and three ½" Flat Washers (E). Insert them through the end of the cross member and into the outside holes and the hole that is off center in the cross member.
 8. Place the assembled Skid Plate Attachment (75) with Angle Brackets (75A & 75B) on the bottom of the cross member. Remove Bolt Pullers (99) and attach with ½" Split Lock Washers (F) and ½"-13 Full Nuts (D) leave finger tight.
 9. Bolt Push Beam Assembly (62) onto Push Beam Support Plates (62A & 62B) using ½"-13 x 1-1/2" GR 5 Hex Head Bolts (A) and ½"-13 Nylon Lock Nuts (C). Leave finger tight.
- NOTE: The proper Push Beam Assembly height is 15-1/2" from the ground to the center of the pin receiving holes on the Push Beam hooks. (See Figure 2)
10. Bolt Angle Brackets (75A & 75B) to the tabs on the back of Push Beam Assembly (62) using ½"-13 x 1-1/2" GR 8 Hex Head Bolts (B) (check the marks on the top to be sure they are GR 8 bolts) and ½"-13 Nylon Lock Nuts (C).
 11. With all the 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 Note:

- A. Head Light Adapter MSC08839 is used for this application.
- B. Relay Kit MSC09991 is also required to draw power directly from the battery for the turn signals.
- C. Check for hood swing clearance with the plow attached to the truck. The grill is attached to the hood on Dodge trucks which may cause interference between the grill and the plow lights/light bar. If interference exists move the light bar to the forward light position. See Boss Snowplow owner's manual for further details.

2006 & NEWER DODGE ½ TON RT 3 UNDERCARRIAGE INSTALLATION PROCEDURE

REF. NO.	DESCRIPTION	PART NO.	QTY.
62	Push Beam Assembly	PBA09816	1
62B	Push Beam Support Plate Driver side	PBA09817	1
62A	Push Beam Support Plate Passenger Side	PBA09818	1
75	Skid Plate Attachment	LTA09819	1
75A	Angle Bracket Passenger Side	LTA09820	1
75B	Angle Bracket Driver Side	LTA09821	1
99	½" Bolt Puller	MSC09670	4
	FASTENER KIT, DODGE ½ TON 06&UP	HDW09826	1
Includes:			
A	½" – 13 1-1/2" Hex Head Bolt GR 5	HDW01728	19
B	½" – 13 1-1/2" Hex Head Bolt GR 8	HDW05553	4
C	½" – 13 Hex Head Nylon Lock Nut	HDW01748	16
D	½" – 13 Hex Head Full Nut	HDW02410	7
E	½" Flat Washer	HDW05501	3
F	½" Split Lock Washer	HDW01732	7

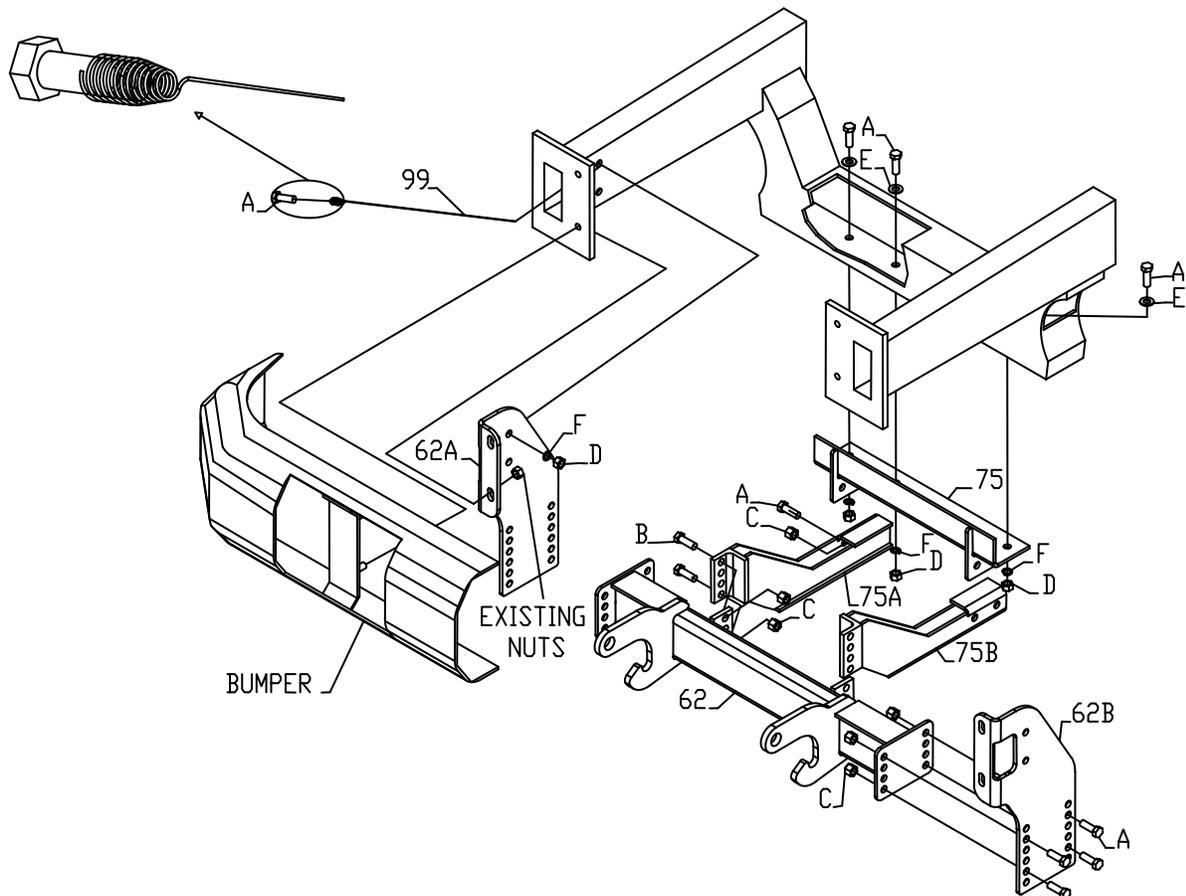


Figure 1

G10433

RECOMMENDED PUSHBEAM HEIGHT

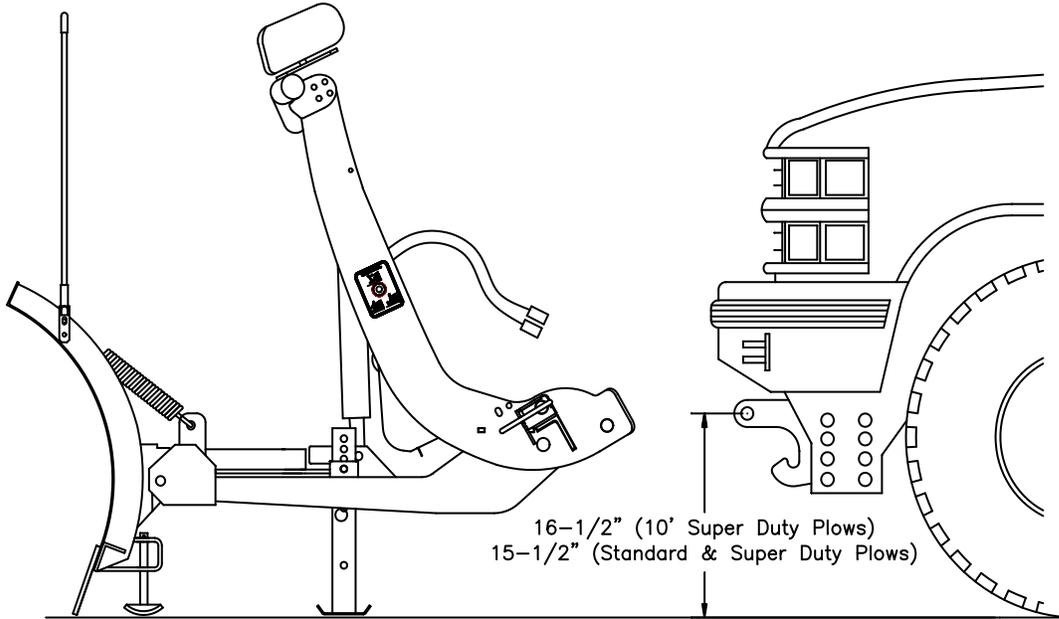


Figure 2

G10155

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

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 PLOW. RE-TIGHTEN ALL FASTENERS AFTER 2 HOURS OF PLOWING.