Boss products
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1992 THRU 1997 FORD F250 & F350 (GASOLINE AND DIESEL) RT3 UNDERCARRIAGE MOUNTING INSTRUCTIONS (PART NO. LTA03643)

PUSHING THE EDGE

MSC04013-7

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.

1992 THRU 1997 FORD F250 & F350 (GASOLINE AND DIESEL) RT3 UNDERCARRIAGE MOUNTING INSTRUCTIONS

The mounting procedure outlined below covers FORD (1992 THRU 1997) F250, F350, and Super Duty trucks with gasoline and diesel engines. 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 Front Bumper. Remove the Bumper mounting bolts. Insert the BOLT BAR (Ref. 100, Fig. 1) inside the frame rail. Using the 3/8" – 16 SELF LOCKING NUTS and HARDENED WASHERS provided, install the FRAME GUSSET (ref. 98R and 98L, Fig. 1). Fasteners should only be finger tight.

NOTE: Some vehicles have a suspension package that includes a sway bar. This will have to be removed and given to the customer for this application.

2. Position the PUSH BEAM SUPPORT PLATES (Ref. 62A and 62B, Fig. 1) behind the FRAME GUSSET, and secure with ½" – 13 x 3" FULL THREAD BOLT, ½" HARDENED WASHERS and ½" – 13 NUT. Insert the bolt from the rear, with the nut in front. Tighten fasteners finger tight.

3. Position the FRAME MOUNTS (Ref. 75R and 75L, Fig. 1) on the PUSH BEAM SUPPORT PLATE, and fasten with the 5/8" – 11 x 2" HEX HEAD BOLTS and the 5/8" – 11 SELF-LOCKING NUTS provided. Tighten fasteners finger tight.

4. Raise the FRAME MOUNTS up tight against the frame. Mark and drill the top hole of the FRAME MOUNTS. Fasten the FRAME MOUNTS to the Frame using 5/8”-11 NUTS, 5/8” SPLIT LOCK WASHER, and BOLT BARS (Ref. 99, Fig. 1) provided.

5. Attach the CROSS MEMBER WELDMENT (Ref. 62C, Fig. 1) to the PUSH BEAM SUPPORT PLATES (Ref. 62A and 62B, Fig. 1) using ½” – 13 x 1- ½” HEX HEAD BOLTS and ½” – 13 SELF LOCKING NUTS provided.

6. Attach the PUSHBEAM (Ref. 62, Fig. 1) to the PUSH BEAM SUPPORT PLATES (Ref. 62B and 62C, Fig. 1) using ½” – 13 x 1- ½” HEX HEAD BOLTS and ½” – 13 SELF-LOCKING NUTS provided.

NOTE: The proper height for the PUSH BEAM is approximately 15-½” from the ground to the center of the PUSH BEAM pin-receiving hole (see Fig. 2).

7. Adjust the spacing of the bumper mounting bolts (Ref. G, Fig. 1) to match the spacing on the bumper, then torque the bolts as specified in Figure 3. Install the Bumper and secure with ½” – 13 SELF-LOCKING NUTS and ½” HARDENED WASHERS provided. Tighten the ½” – 13 SELF-LOCKING NUTS as specified in Figure 4.

8. With the FRAME MOUNTS pushed tightly against the frame, torque the 5/8”-11 NUTS as specified in Figure 3. Next torque the 5/8” – 11 x 2” HEX HEAD BOLTS connecting the PUSH BEAM SUPPORT PLATE to the FRAME MOUNT. Finally, torque the ½” – 13 x 1- ½” HEX HEAD BOLTS attaching the PUSH BEAM to the PUSH BEAM SUPPORT PLATES.

9. Verify that there is adequate clearance between the LEFT PUSH BEAM SUPPORT PLATE (Ref. 62B, Fig. 1) and the pitman arm of the steering linkage.

10. 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. Re-tighten all fasteners after 2 hours of plowing.

1992 & NEWER FORD F250 & F350 (GASOLINE & DIESEL)
RT3 UNDERCARRIAGE
INSTALLATION PROCEDURE

REF. NO.	DESCRIPTION	PART NO.	QTY.
62	Push Beam Assembly	PBA03644	1
62A	Push Beam Support Plate (RH)	LTA04466	1
62B	Push Beam Support Plate (LH)	LTA04465	1
62C	Cross Member Weldment	PBA03564	1
98R	Frame Gusset (RH)	LTA03317	1
98L	Frame Gusset (LH)	LTA03316	1
75R	Frame Mount (RH)	LTA03568	1
75L	Frame Mount (LH)	LTA03569	1
99	Bolt Bar-Frame Mount	LTA04369	4
100	Bolt Bar-Frame Gusset	LTA03334	2
	UNDCG HDW BG, 92-96 FORD	HDW01791	1
Includes:			
A	½" – 13 x 1- ½" Hex Head Bolt	HDW01728	12
B	½" – 13 Self Locking Nut	HDW01748	16
C	5/8" – 11 x 2" Hex Head Bolt	HDW01731	4
D	5/8" – 11 Self Locking Nut	HDW01709	10
E	5/8" – 11 x 1- ½" Hex Head Bolt	HDW01727	2
F	5/8" Flat Washer	HDW01726	2
G	½" – 13 x 3" Hex Head Bolt, Full Threaded	HDW05508	4
H	½" Hardened Washer	HDW05507	16
J	½" – 13 Nut	LTA02410	8
K	3/8" – 16 Self Locking Nut	HDW01720	4
L	3/8" Flat Washer	HDW01733	4
M	5/8" Split Lock Washer	HDW03891	4
N	5/8"-11 Nut	HDW05596	4

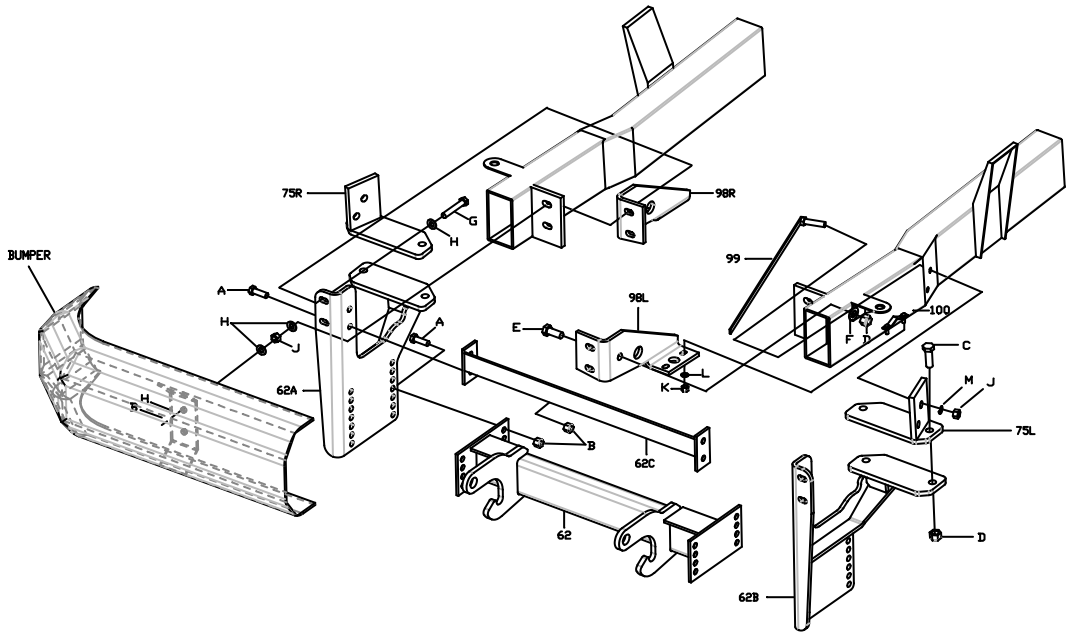

Figure 1 G10424

RECOMMENDED PUSHBEAM HEIGHT

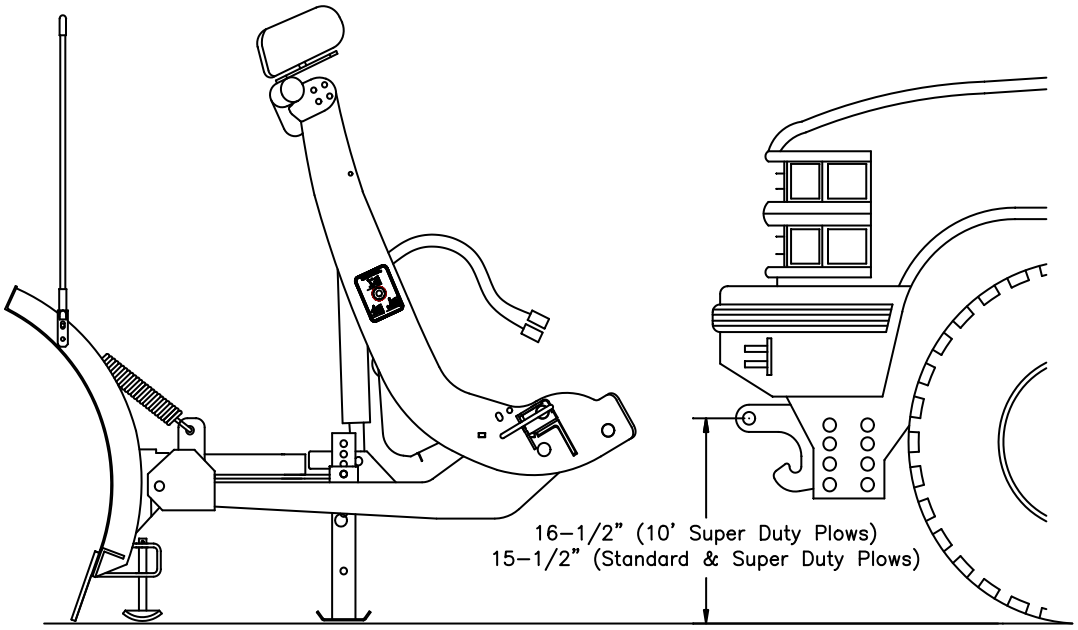

Figure 2 G10155

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.