



A Division of Northern Star Industries, Inc.  
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ISO 9001:2008 REGISTERED  
bossplow.com

**2000-2015 FORD F-650 / F-750 &  
2002 & NEWER INTERNATIONAL  
DURASTAR (4300/4400)  
RT3 10' PLOW UNDERCARRIAGE  
MOUNTING INSTRUCTIONS  
(PART NO. LTA06400)**

# **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.

## **2000-2015 FORD F-650 / F-750 & 2002 & NEWER INTERNATIONAL DURASTAR (4300/4400) RT3 10' PLOW UNDERCARRIAGE MOUNTING INSTRUCTIONS**

The mounting procedure outlined below covers 2000-2015 FORD F-650 / F-750 & 2002 & Newer INTERNATIONAL DURASTAR (4300/4400) 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. Determine the model year and engine type of your truck then proceed as follows:

Determine the style of frame on the vehicle you are installing this Undercarriage, this will determine the Pushbeam Support Plates you will use to complete the installation:

- A. Straight Driver Side & Passenger Side Frame Rails – PBA06405 & PBA06415
- B. Straight Driver Side & Mega Bracket Passenger Side Frame Rail – PBA06405 & PBA06410
- C. Mega Bracket Driver Side & Passenger Side Frame Rails – PBA06417 & PBA06410

After determining your vehicle frame type and selecting the correct Pushbeam Support Plates follow the instructions below that match your vehicle frame type:

### **A. Straight Driver Side & Passenger Side Frame Rails**

1. Remove tow hook from driver side truck frame rail (if equipped).
2. Align Driver Side Pushbeam Support Plate (62A) with tow hook holes on driver side truck frame rail.
3. Place tow hook on Driver Side Pushbeam Support Plate (62A) and reattach both tow hook and Driver Side Pushbeam Support Plate (62A) to truck frame using existing tow hook fasteners. If tow hook was not equipped attach Driver Side Pushbeam Support Plate (62A) using three 1/2"-13 X 1-1/2" Hex Head Bolts (A) and three 1/2"-13 Nylon Lock Nuts (C). Fasteners should be finger tight.
4. Remove tow hook from passenger side truck frame rail (if equipped).
5. Align Passenger Side Pushbeam Support Plate (62B) with tow hook holes on passenger side truck frame rail.

6. Place Tow Hook on Passenger Side Pushbeam Support Plate (62B) and reattach both tow hook and Passenger Side Pushbeam Support Plate (62B) to truck frame using existing tow hook fasteners. If tow hook was not equipped attach Passenger Side Pushbeam Support Plate (62B) using three 1/2"-13 X 1-1/2" Hex Head Bolts (A) and three 1/2"-13 Nylon Lock Nuts (C). Fasteners should be finger tight.
  7. Install Pushbeam (62) between Pushbeam Support Plates (62A & 62B) using eight 1/2"-13 X 2" Hex Head Bolts (A) and eight 1/2"-13 Nylon Lock Nuts (C). Place fasteners in front holes only. Fasteners should be finger tight.
- Note:** Pushbeam (62) should be mounted at a height of 16-1/2" from the ground to the center of the hook hole.
8. Align Driver Side Angle Bracket (75A) with Pushbeam (62) end plate holes and fasten with four 1/2"-13 X 2" Hex Head Bolts (A) and four 1/2"-13 Nylon Lock Nuts (C). Fasteners should be finger tight.
  9. Hold Driver Side Angle Bracket (75A) up to truck frame rail and mark hole locations of Driver Side Angle Bracket (75A) on truck frame rail.
  10. Drill 11/16" holes at the marked locations.
  11. Fasten Driver Side Angle Bracket (75A) to truck frame rail using two 5/8"-11 X 2" Hex Head Bolts (B), 5/8" Flat Washers (E), and 5/8"-11 Top Lock Nuts (D). Fasteners should be finger tight.
  12. Repeat steps for Passenger Side Angle Bracket (75B).
  13. Tighten all fasteners. Reference the Assembly Torque Chart, located within this manual, for the proper torque value for each fastener.

## **B. Straight Driver Side & Mega Bracket Passenger Side Frame Rail**

1. Remove Truck Bumper.
2. Remove tow hook from driver side truck frame rail (if equipped).
3. Align Driver Side Pushbeam Support Plate (62A) with tow hook holes on driver side truck frame rail.
4. Place tow hook on Driver Side Pushbeam Support Plate (62A) and reattach both tow hook and Driver Side Pushbeam Support Plate (62A) to truck frame using existing tow hook fasteners. If tow hook was not equipped attach Driver Side Pushbeam Support Plate (62A) using three 1/2"-13 X 1-1/2" Hex Head Bolts (A) and three 1/2"-13 Nylon Lock Nuts (C). Fasteners should be finger tight.
5. Align Passenger Side Pushbeam Support Plate (62D) with vertical holes located on truck mega bracket and attach using two 5/8"-11 X 2" Hex Head Bolts (B), 5/8" Flat Washers (E), and 5/8"-11 Top Lock Nuts (D). Fasteners should be finger tight.
6. Mark location of third hole in Passenger Side Pushbeam Support Plate (62D) on truck mega bracket. Drill a 11/16" hole at the marked location.
7. Install a 5/8"-11 X 2" Hex Head Bolt (B), 5/8" Flat Washer (E), and 5/8"-11 Top Lock Nut (D). Fastener should be finger tight.
8. Install Pushbeam (62) between Pushbeam Support Plates (62A & 62D) using eight 1/2"-13 X 2" Hex Head Bolts (A) and eight 1/2"-13 Top Lock Nuts (C). Place fasteners in front holes only. Fasteners should be finger tight.

**Note:** Pushbeam (62) should be mounted at a height of 16-1/2" from the ground to the center of the hook hole.

9. Align Driver Side Angle Bracket (75A) with Pushbeam (62) end plate holes and fasten with four 1/2"-13 X 2" Hex Head Bolts (A) and four 1/2"-13 Top Lock Nuts (C). Fasteners should be finger tight.
10. Hold Driver Side Angle Bracket (75A) up to truck frame rail and mark hole locations of Driver Side Angle Bracket (75A) on truck frame rail.
11. Drill 11/16" holes at the marked locations.
12. Fasten Driver Side Angle Bracket (75A) to truck frame rail using two 5/8"-11 X 2" Hex Head Bolts (B), 5/8" Flat Washers (E), and 5/8"-11 Top Lock Nuts (D). Fasteners should be finger tight.
13. Repeat steps for Passenger Side Angle Bracket (75B).
14. Tighten all fasteners. Reference the Assembly Torque Chart, located within this manual, for the proper torque value for each fastener.
15. Replace truck bumper. It may be necessary to trim a portion of the lower edge of the bumper if it interferes with Passenger Side Pushbeam Support Plate (62D).

### **C. Mega Bracket Driver Side & Passenger Side Frame Rails**

1. Remove Truck Bumper.
2. Align Drive Side Pushbeam Support Plate (62C) with vertical holes located on Truck Mega Bracket and attach using two 5/8"-11 X 2" Hex Head Bolts (B), 5/8" Flat Washers (E), and 5/8"-11 Top Lock Nuts (D). Fasteners should be finger tight.
3. Mark location of third hole in Driver Side Pushbeam Support Plate (62C) on Truck Mega Bracket. Drill a 11/16" hole at the marked location.
4. Install a 5/8"-11 X 2" Hex Head Bolt (B), 5/8" Flat Washer (E), and 5/8"-11 Top Lock Nut (D). Fastener should be finger tight.
5. Align Passenger Side Pushbeam Support Plate (62D) with vertical holes located on Truck Mega Bracket and attach using two 5/8"-11 X 2" Hex Head Bolts (B), 5/8" Flat Washers (E), and 5/8"-11 Top Lock Nuts (D). Fasteners should be finger tight.
6. Mark location of third hole in Passenger Side Pushbeam Support Plate (62D) on Truck Mega Bracket. Drill a 11/16" hole at the marked location.
7. Install a 5/8"-11 X 2" Hex Head Bolt (B), 5/8" Flat Washer (E), and 5/8"-11 Top Lock Nut (D). Fasteners should be finger tight.
8. Install Pushbeam (62) between Pushbeam Support Plates (62C & 62D) using eight 1/2"-13 X 2" Hex Head Bolts (A) and eight 1/2"-13 Top Lock Nuts (C). Place fasteners in front holes only. Fasteners should be finger tight.

**Note:** Pushbeam (62) should be mounted at a height of 16-1/2" from the ground to the center of the hook hole.

9. Align Driver Side Angle Bracket (75A) with Pushbeam (62) end plate holes and fasten with four 1/2"-13

X 2" Hex Head Bolts (A) and four 1/2"-13 Top Lock Nuts (C).

10. Hold Driver Side Angle Bracket (75A) up to truck frame rail and mark hole locations of Driver Side Angle Bracket (75A) on truck frame rail.
11. Drill 11/16" holes at the marked locations.
12. Fasten Driver Side Angle Bracket (75A) to truck frame rail using two 5/8"-11 X 2" Hex Head Bolts (B), 5/8" Flat Washers (E), and 5/8"-11 Top Lock Nuts (D). Fasteners should be finger tight.
13. Repeat steps for Passenger Side Angle Bracket (75B).
14. Tighten all fasteners. Reference the Assembly Torque Chart, located within this manual, for the proper torque value for each fastener.
15. Replace truck bumper. It may be necessary to trim a portion of the lower edge of the bumper if it interferes with Pushbeam Support Plates (62C & 62D).

**Note:** Re-torque all fasteners after 2 hours of snowplowing.

**Note:** All original equipment removed from the truck must be remounted if the snowplow undercarriage is removed from the truck.

#### **Headlight Adapter:**

2000-2015 Ford F-650 & F-750 Trucks require Headlight Adapter **MSC06409**.

2002 & Newer International Durastar (4300/4400) Trucks require Headlight Adapter **MSC06428**.

## 2008 & NEWER FORD F650 & INTERNATIONAL DURASTAR RT3 10' PLOW UNDERCARRIAGE MOUNTING INSTRUCTIONS

REF. NO.	DESCRIPTION	PART NO.	QTY.
62	Pushbeam Assembly	PBA06430	1
62A	Pushbeam Support Plate (LH) Straight Frame Rail	PBA06405	1
62B	Pushbeam Support Plate (RH) Straight Frame Rail	PBA06415	1
62C	Pushbeam Support Plate (LH) Mega Bracket Frame Rail	PBA06417	1
62D	Pushbeam Support Plate (RH) Mega Bracket Frame Rail	PBA06410	1
75A	Angle Bracket (LH)	LTA06420	1
75B	Angle Bracket (RH)	LTA06425	1

FASTENER KIT, FORD F650/F750 00-15 & INTL DURASTAR, 00&UP      HDW06434      1

Includes:

A	1/2"-13 X 2" Hex Head Bolt	HDW01755	22
B	5/8"-11 X 2" Hex Head Bolt	HDW01731	10
C	1/2"-13 Nylon Lock Nut	HDW01748	22
D	5/8"-11 Top Lock Nut	HDW01709	10
E	5/8" Flat Washer	HDW01726	10

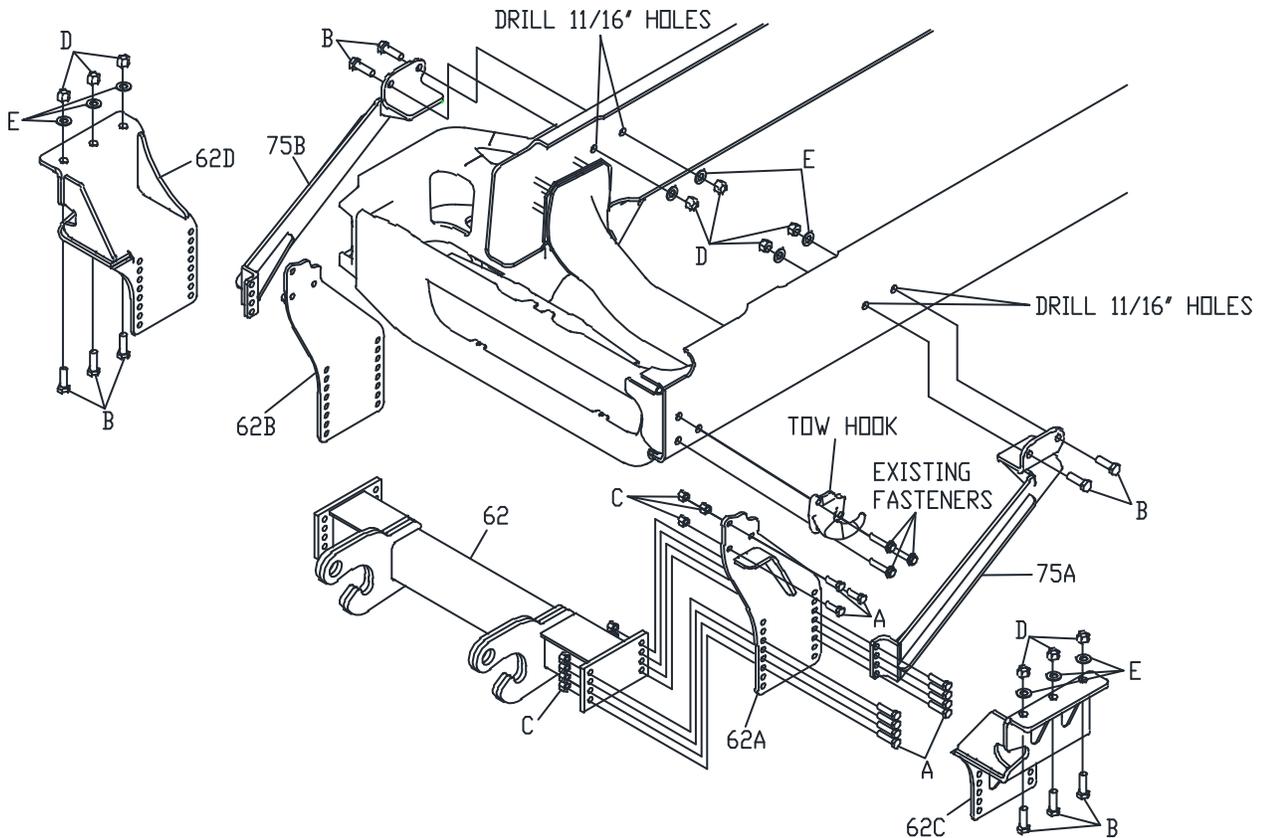


Figure 4.

G10829

## RECOMMENDED PUSHBEAM HEIGHT

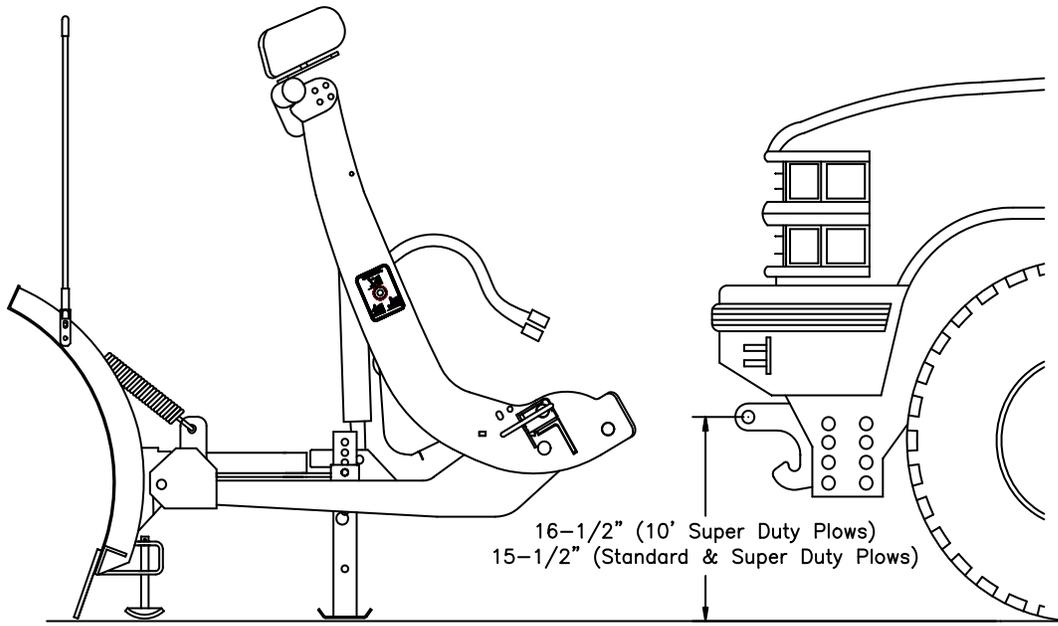


Figure 5.

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 6.

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-TORQUE ALL FASTENERS AFTER 2 HOURS OF SNOWPLOWING.