

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

BALLAST RETAINER INSTALLATION INSTRUCTIONS

DRIVEN TO BE THE BEST

MSC09846-0

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.

BALLAST RETAINER INSTALLATION INSTRUCTIONS

The mounting procedure outlined below provides instructions for installing the BOSS Snowplow Ballast Retainer. You must refer to the BOSS Snowplow applications guide for the recommended ballast weight for your vehicle. When loading ballast remember that the Ballast Retainer Assembly weighs 40lbs. This weight must be subtracted from the amount of weight recommended for your vehicle.

1. Lower the tailgate on the truck. Place Left Ballast Retainer Assembly (1) and Right Ballast Retainer Assembly (2) in the bed of the truck.
2. Slide Left Ballast Retainer Assembly (1) and Right Ballast Retainer Assembly (2) together and extend to the width of the truck bed.
3. Position Ballast Retainer Assembly so that each welded Mount Pin is centered on the stake pocket channel on the side of the truck bed.
4. Place Mount Plate (A) on Mount Pin and position so that the Mount pin is resting in the small end of the slot of Mount Plate (A). See Figure 1.
5. Mark the location of each bolt hole on the truck bed stake pocket channel.
6. Repeat steps 4-5 for opposite side.
7. Remove Ballast Retainer Assembly.
8. Drill 7/16" holes at the marks made in step 5.
9. Insert Nut Plate (3) through the bottom of the truck body panel and align with the holes of Mount Plate (A).
10. Secure Mount Plate (A) with 3/8"-16 X 1-1/2" Hex Head Bolts (D).
11. Remove handle from Nut Plate (3).

12. Place Ballast Retainer Assembly between Mount Plates (A).
13. Extend Ballast Retainer Assembly and place Mount Pins in Mount Plates (A).
14. Insert Hand Screw (C) and tighten.
15. Insert End Caps (B) into open ends of Ballast Retainer Assembly tubes.

Note: Sand bags or salt bags should be used for ballast. Never use loose items such as brick, block, steel, or rock.

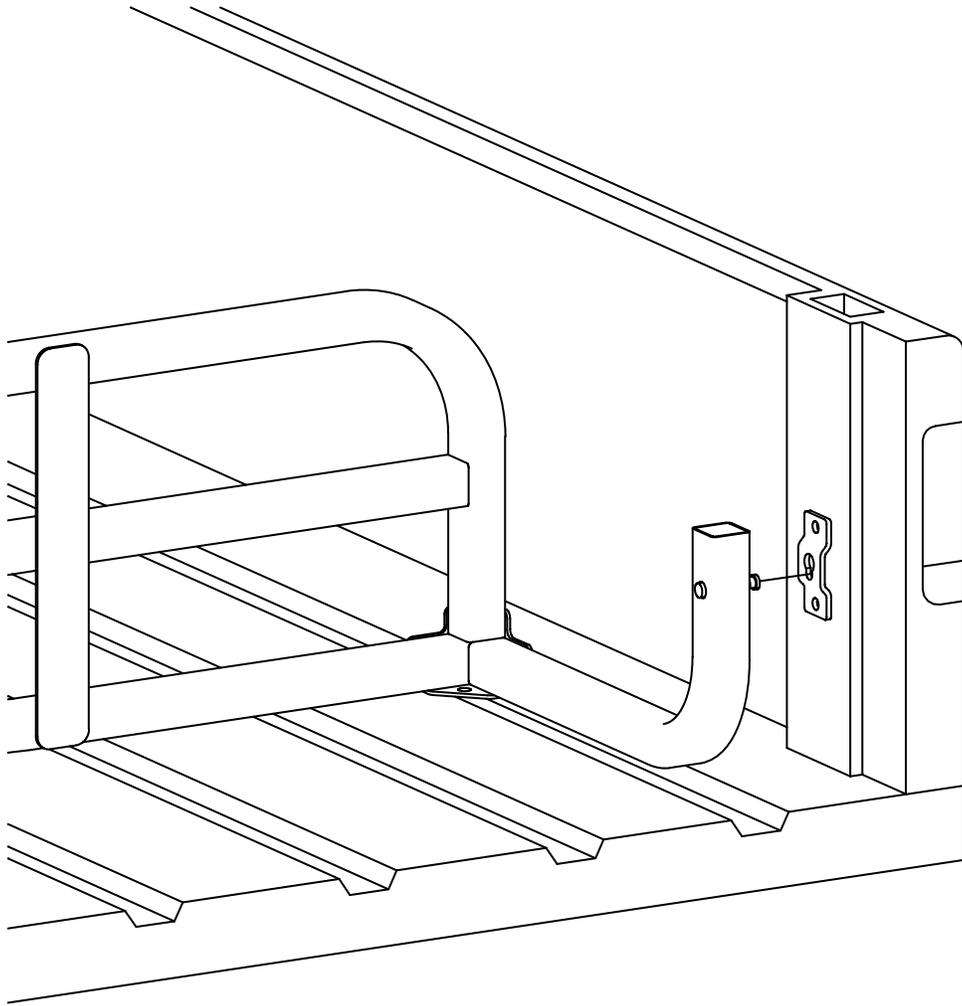


Figure 1

G10448

BALLAST RETAINER INSTALLATION INSTRUCTIONS

REF. NO.	DESCRIPTION	PART NO.	QTY.
1	Ballast Retainer Assembly, Left	MSC09841	1
2	Ballast Retainer Assembly, Right	MSC09842	1
3	Nut Plate	MSC09864	2
	Fastener Kit, Ballast Retainer	HDW09857	1
Includes:			
A	Mount Plate	MSC09840	2
B	End Cap	HDW01899	4
C	Hand Screw	MSC09843	1
D	3/8"-16 X 1-1/2" Hex Head Bolt, Grade 5	HDW01719	4

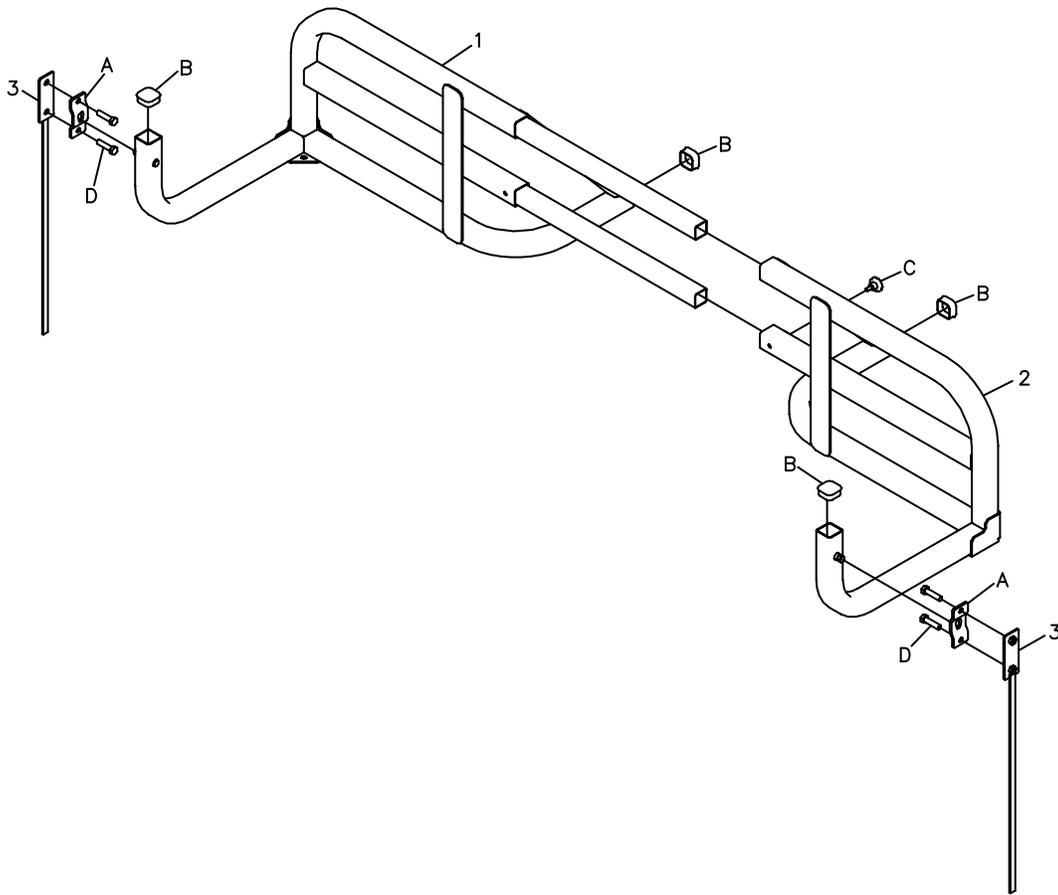
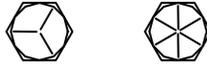


Figure 2

G10449

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.