

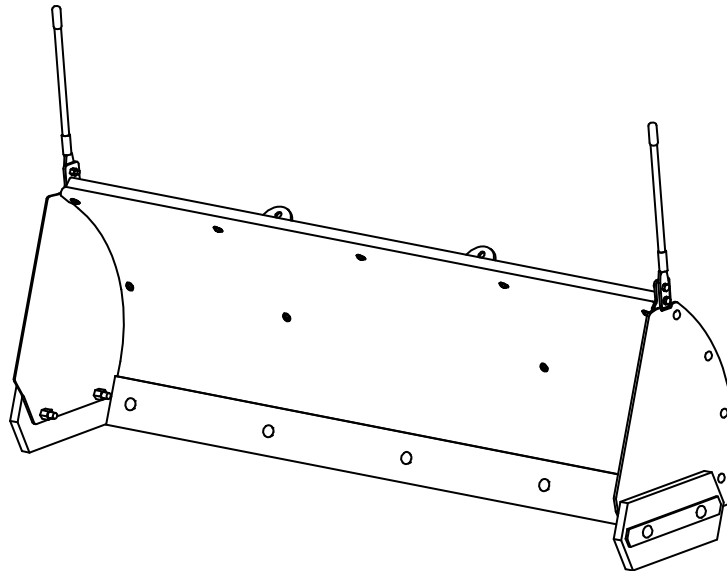


A Division of Northern Star Industries, Inc.  
P.O. Box 787 Iron Mountain, MI 49801-0787  
ISO 9001:2008 REGISTERED  
bossplow.com

## **BOX WING OPTION KIT INSTALLATION INSTRUCTIONS**

**Kit Number:  
MSC13870**

**Covering Plow Sizes:  
4'0" ATV/UTV Straight-Blade  
5'0" ATV/UTV Straight-Blade**



***PUSHING THE EDGE***

MSC13880

## **WARNING**

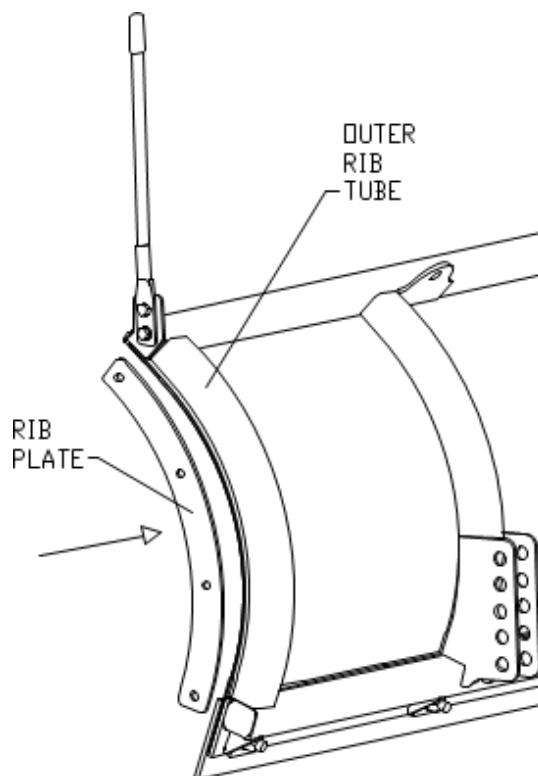
Serious injury or death can result if you do not follow these instructions and procedures which are outlined further within your owner's manual.

Due to the variety of equipment that can be installed on this vehicle, it is necessary to verify that the Gross Vehicle Weight Rating (GVWR) is 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.

## **BOX WING OPTION KIT INSTALLATION PROCEDURE**

The procedure outlined below covers the Box Wing Option Kit installation on 4'0" & 5'0" ATV/UTV straight-blade models only. You will need to refer to the illustrations and familiarize yourself with each of the Box Wing Option Kit components and their relative position to each other (Refer to Figure 3), then proceed as follows:

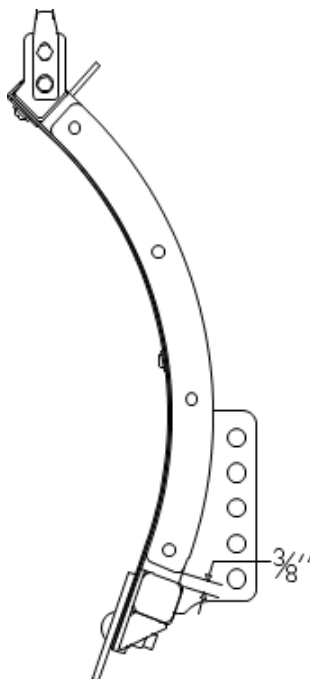
1. Locate and position Rib Plates (#3) on outside of each outer rib tube on both sides of blade as shown in Figure 1.



**Figure 1** Rib Tube Drill Procedure

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2. Position each Rib Plate so that its radius is concentric with that of blade rib tube and bottom edge of Rib Plate is 3/8" up from bottom edge of blade rib tube as shown in Figure 2.



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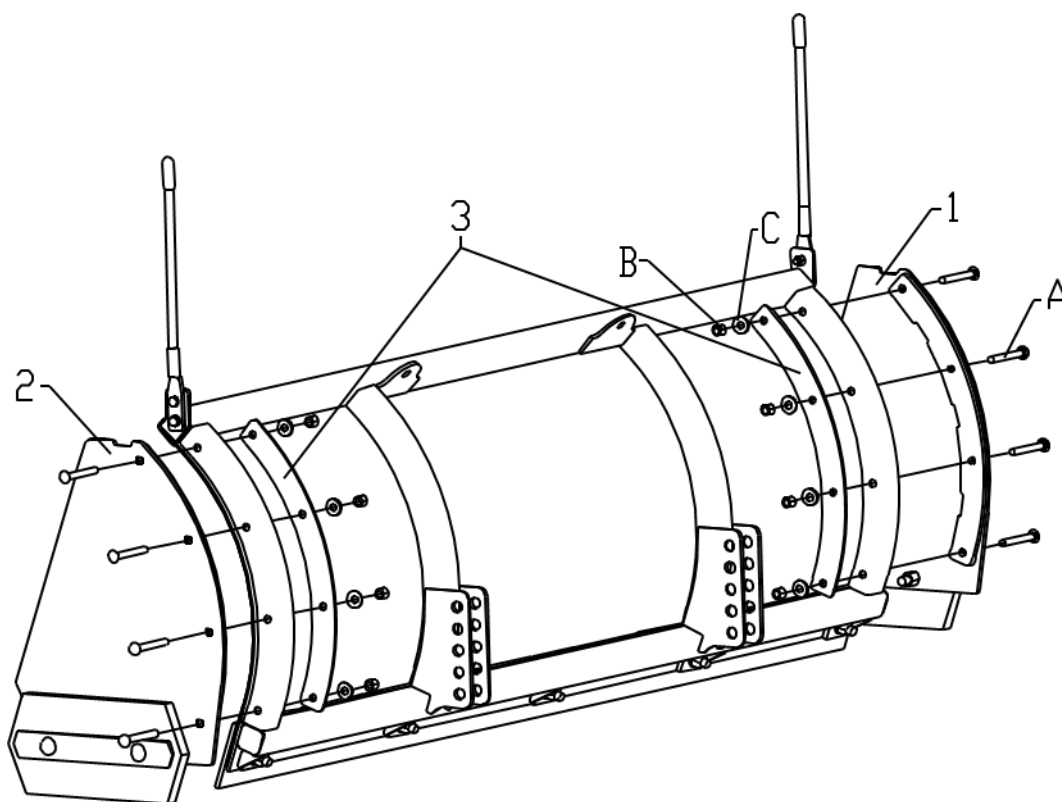
**Figure 2** Rib Plate Template Position

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3. Clamp Rib Plates securely in place and transfer mark four hole position centerlines on to blade rib tubes. Center punch and drill through blade rib tubes using a pilot drill followed by a 7/16" diameter drill.
4. Un-clamp and remove the Rib Plates from the blade rib tubes. Assemble Box Wing Assemblies (#1 & #2) and Rib Plates (#3) to the blade using supplied hardware as shown and described in Figure 3.

## BOX WING OPTION KIT COMPONENTS

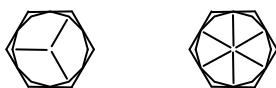
REF. NO.	DESCRIPTION	PART NO.	QTY.
1	Box Wing Assembly, RH	BAR13872	1
2	Box Wing Assembly, LH	BAL13873	1
3	Rib Plate	BAX13871	2
	Hardware Kit, Box Wing Option Kit	HDW13881	1
Includes:			
A	3/8"-16 x 3" Carriage Bolt	HDW13882	8
B	3/8"-16 Nylon Lock Nut	HDW01720	8
C	3/8" Flat Washer	HDW01733	8



**Figure 3** Box Wing Option Kit Assembly

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## 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.)

\* 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.

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**Figure 4** Recommended Assembly Torque

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