

OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100  
PB-8100-AS

# ***MEYER***

## **MODEL 81/9100 GRAIN KIT INSTALLATION/OPERATORS MANUAL**



**Manufactured by  
*Meyer Mfg Corp.***

*County Hwy. A West  
574 West Center Avenue  
P.O. Box 405*

*Dorchester, Wisconsin 54425-0405  
Phone 715-654-5132 FAX 715-654-5513  
1-800-325-9103*

*[www.meyermfg.com](http://www.meyermfg.com)  
E-mail [sales@meyermfg.com](mailto:sales@meyermfg.com)*

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

**GENERAL INFORMATION**

This supplement installation instruction is to be used in addition to the standard manual that was shipped with your machine. You must consult the operators manual shipped with your 81/9100 Series Forage Box and review safe operating and service procedures for your safety.

**SAFETY**

**DANGER** indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

**WARNING** indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury and includes hazards that are exposed when guards are removed.

**CAUTION** indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It is also used to alert against unsafe practices.

In addition, there are hazards associated with the installation of this unit.

**FOR YOUR SAFETY**

- Use lifting equipment with sufficient capacity to handle this unit.
- Park the forage box on a stable, level ground and securely chock all wheels.
- Keep work area clean and free of oily or slippery materials to prevent slipping or falling while working on this equipment.
- Do not work under any machine on this unit
- Wear head, eye, and foot protection.
- Keep your body away from potential pinch points during installation.
- Beware of heavy weights of components when handling them.
- Be sure that any component is well balanced and secured with adequate strength chains or lifting straps while lifting.

**LUBRICATION**

Grease the yoke on the wheel shaft.  
Oil your door chain.

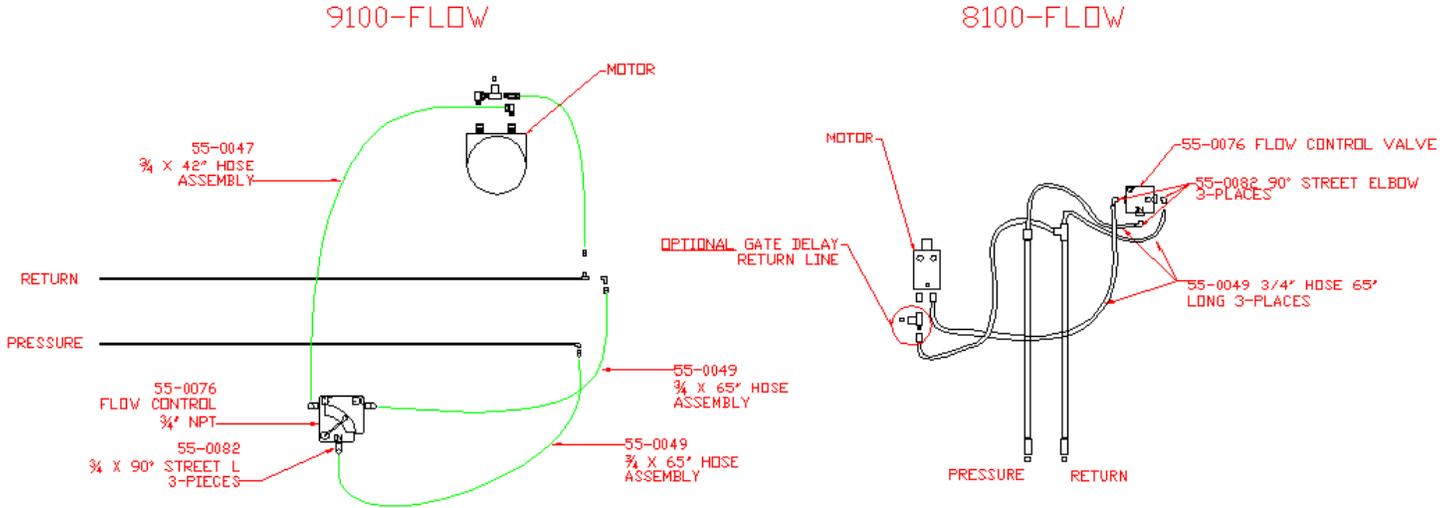
**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100  
HARDWARE PACKAGE**

<u>Part #</u>	<u>Description</u>	<u>8100</u>	<u>9100</u>
25-8066	Main Roller Center Cover-Galvanized	1	1
25-8067-1	Chain Return Seal Mount Strap 1-1/2x42"	2	2
25-8217-1	8100 Flow Control Mount Plate	1	0
46-8500-7	Hydraulic Pressure Decal	1	1
49-0035	RH Chain Return Seal Belting 3-1/2x45-1/2" Belting	1	0
49-0036	LH Chain Return Seal Belting 3-1/2"x43" Belting	1	2
49-0088	Gate Belting Seal 1/8x2-1/2x66"	2	0
52-0005-6-1	35-1/2" Brush Notched (R&L Outer Broom)	2	2
52-0005-6-4	12-1/4" Brush (Right Side Inner 8100)	1	0
52-0005-6-2	9-3/16" Brush (R&L Side Inner 9100)	0	2
52-0005-6-3	7-3/4" Brush (Left Side Inner 8100)	1	0
55-0049	3/4"x65" Hydraulic Hose	3	2
55-0076	Hydraulic Flow Control	1	1
55-0082	3/4x90 Degree Street Elbow	5	3
65-0006-5	14" Nylon Tie Straps	5	5
804-28-1.5Z	1/4" Fender Washer 1-1/2" O.D.	12	12
805-0050-Z	1/2" Flat Washer	6	6
810-2520-Z	1/4" Spin Locknut	12	12
815-2520-Z	1/4-20 Nylon Insert locknut	12	12
815-5013-Z	1/2" Nylon Insert Locknut	8	8
825-3118-.75Z	5/16x3/4" Self Tapping Screw	2	2
828-0050-Z	1/2" SAE Washer	0	6
850-5013-1.25Z	1/2-13x1-1/4" Carriage Bolt Zinc	2	2
851-2520-1Z	1/4"x1" Grade 5 Machine Bolt	0	12
851-2520-.75Z	1/4x3/4" Grade 5 Machine Bolt	12	0
851-2520-3.5Z	1/4x3-1/2" Grade 5 Machine Bolt	12	12
851-5013-3.5Z	1/2x3-1/2" Machine Bolt	6	6
PB-8100-AS	Installation Manual	1	1

**Mounting Brackets**

<u>Part #</u>	<u>Description</u>	<u>8100</u>	<u>9100</u>
25-8178	RH Grain Kit Stop HI/LO Gate Bracket	1	1
25-8179	LH Grain Kit Stop HI/LO Gate Bracket	1	1

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**



DWG. NO. 81-9100-GKR-MANUAL

**Hydraulic Plumbing**

<b>PART #</b>	<b>DESCRIPTION</b>	<b>8100</b>	<b>9100</b>
55-0047	3/4x42" Hydraulic Hose	0	1
55-0049	3/4x65" Hydraulic Hose	3	2
55-0076	Flow Control	1	1
55-0082	3/4" x 90 Degree Street L	3	3
851-2520-3Z	1/4-20x3" Machine Bolt	2	2
814-2520-Z	1/4-20 Center Locknut	2	2
65-0006-5	14" Nylon Tie Straps	AR	AR
25-8217-1	8100 Flow Control Mount Plate	1	0
25-8211-1	9100 Flow Control Bracket	0	1
810-3816-Z	3/8" Spin Lock Nut	0	2
851-3816-1Z	3/8-16x1" Machine Bolt	0	2

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

**Step #1 - 8100 ONLY Rear Gate Belting Installation**

Loosen the far left and right vertical columns of screws on the front side of the backgate. Slide the backgate belting between the cladtuff material and the backgate frame. Close the gate and then pull the belting out to the sides of the implement to create a seal. Repeat on the other side. Re-fasten the cladtuff to the backgate frame to hold the belting in place.

**Step #2 - Belting Installation-Right and Left**

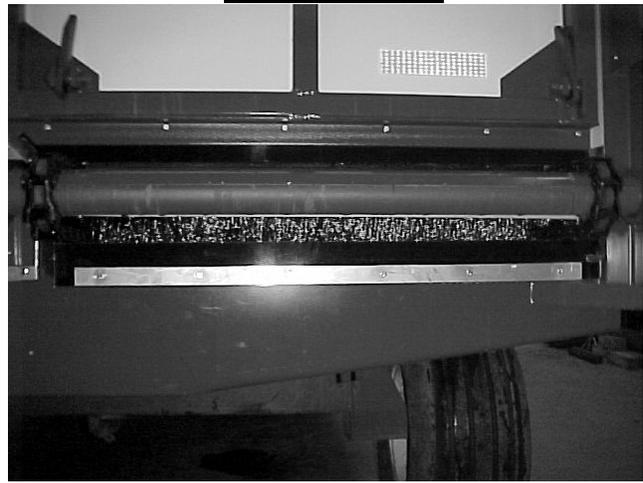
Place belting and steel strap onto the back side of the frame. Position the belting so the top side of the belting touches the bottom side of the apron chain. Clamp or hold the strap onto the bottom side of the belting. Use a 9/32" drill bit, drill and bolt into place using 1/4x3/4" machine bolts and 1/4" spin locknuts. (See Below)

**NOTE:** Watch for the light cord which is located behind the frame plate before drilling.

**Left Side View**

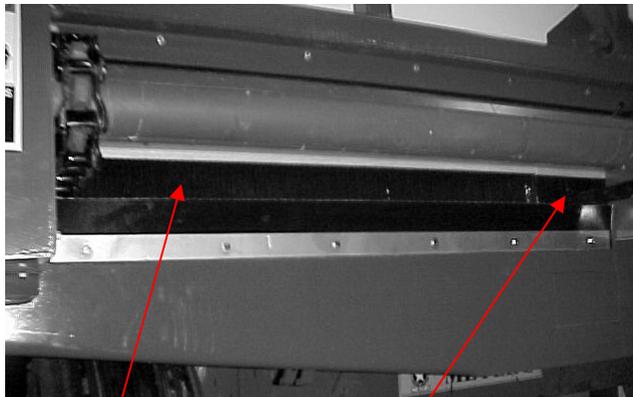


**Right Side View**

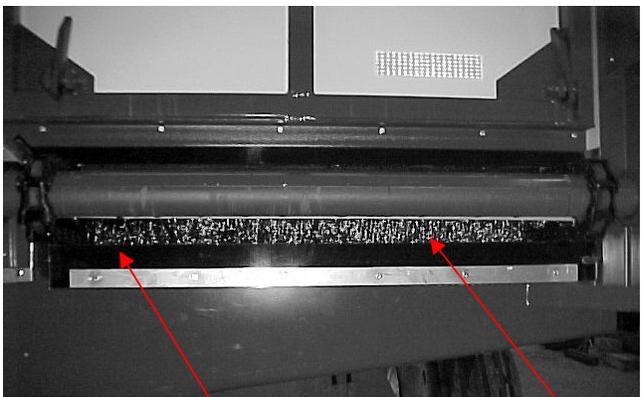


**Step #3 - Installing Brushes**

Brushes will get mounted to the underside of the poly floor ahead of the 2x2" rear cross floor support tube. Position the brushes in front of the 2x2" tube and use lengths of brush per side (reference Hardware Package). Drill four 9/32" holes (35-1/2" brushes) or two 9/32" holes (7-3/4", 12-3/4", or 9-3/16" brushes) in each brush and bolt in place using 1/4x3-1/2" machine bolts with 1/4" fender washers on wooden brush and 1/4" nylon insert locknuts.



**35-1/2" Brush    8100 – 7-3/4", 9100 – 9-3/16"  
Brush (View of the left hand side)**

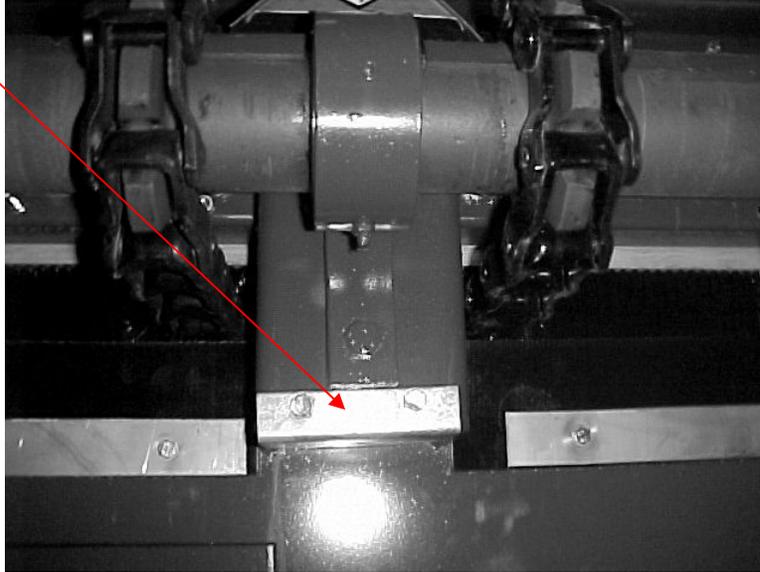


**8100 – 12-1/4", 9100 – 9-3/16" Brush    35-1/2"  
Brush (View of the right hand side)**

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

**Step #4 - Center Main Roller Bearing Cover**

This cover gets mounted under the center main roller bearing capping of the support tube to prevent leakage. Drill two 1/4" holes and bolt in place with two 5/16 self tapping screws. **(See below)**

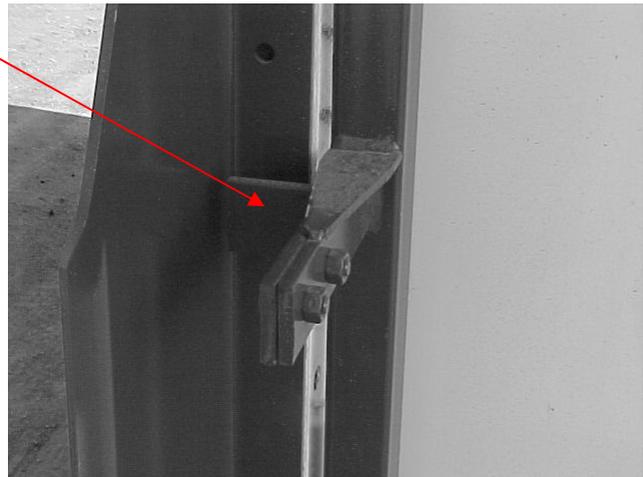


**Step #5 - Gate Stops**

Unbolt the gate stop pieces from the back gate and rotate them 1/2 turn. Bolt back in place as shown below. The grain kit hanger gussets that will be mounted in the following pages are designed to be left on the forage box after the grain kit is removed. As long as the hanger gussets are left on, the stop brackets do not need to be put back into the original position. **(See Below)**



**Stop shown for grain kit hanger gusset**



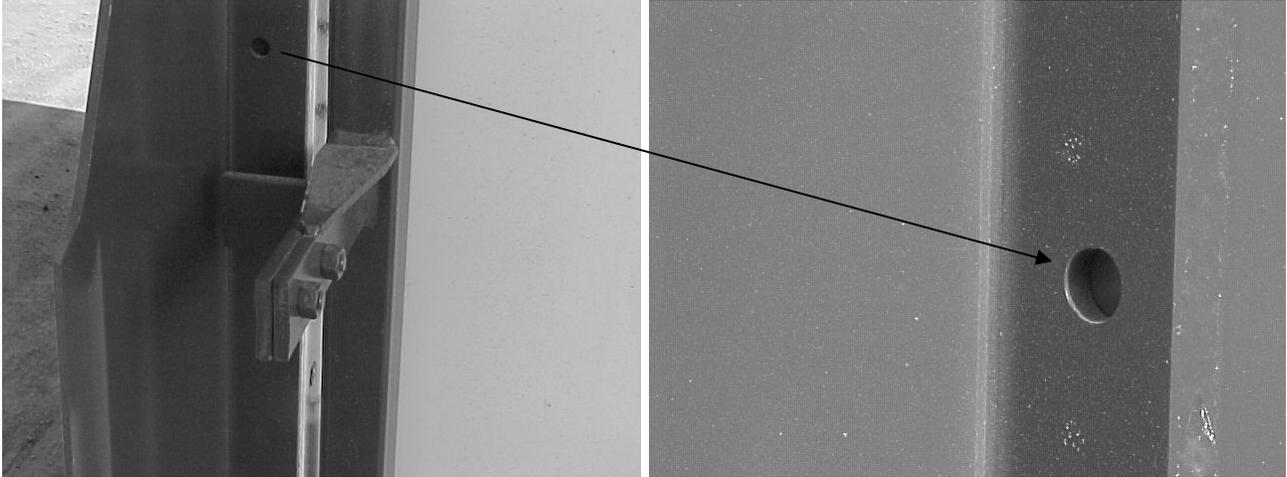
**Stop shown without grain kit hanger gusset**

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

**Step #6 - Mounting the hanger gussets**

The long bearing plates welded to the left and right frame are prepunched to position the holes that need to be drilled into the rear upright tubes. Drill the two 17/32" holes through the square tube on both right and left sides.

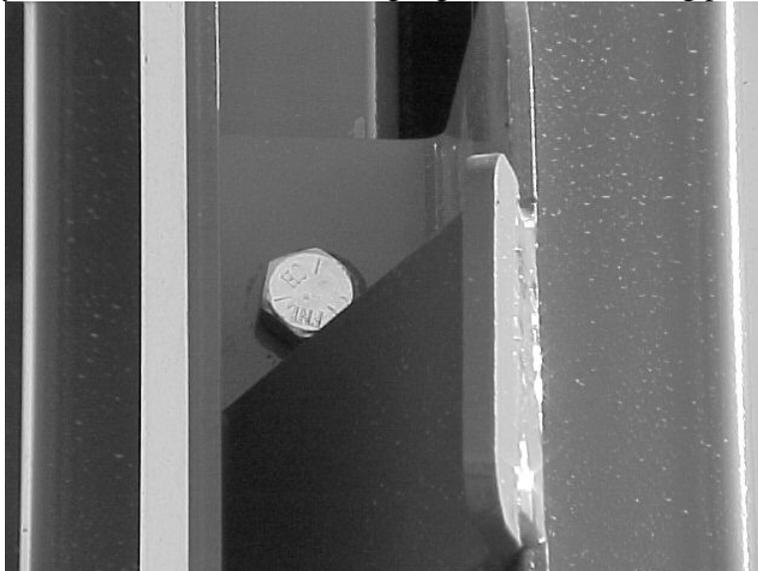
**Note: Move the light cord on the front side of the rear upright tube before drilling.**



Drill the pre-punched holes - 2 on each side

**Step #7 - Installing the hanger gussets**

With the gate partially supported in the open position, install the left and right hanger gussets. Bolt the two bottom bolts on each side using 1/2x3-1/2" machine bolts and 1/2" nylon locknuts. Install 1/2" flat washers onto the front side of the upright tube. After the lower bolts are tightened drill the top hole on each side with a 17/32" drill and bolt tight using the same bolts and washers and nuts as on the lower holes. (**See Below**) Install the 1/2" carriage bolt and nylon lock nut to fasten the hanger gusset to the bearing plate on each side.



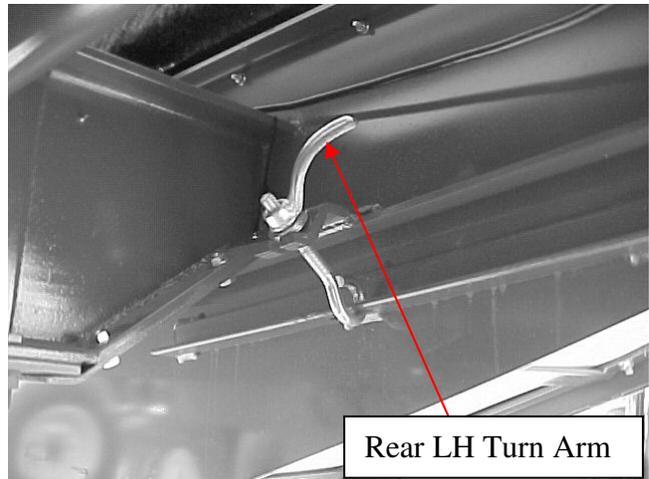
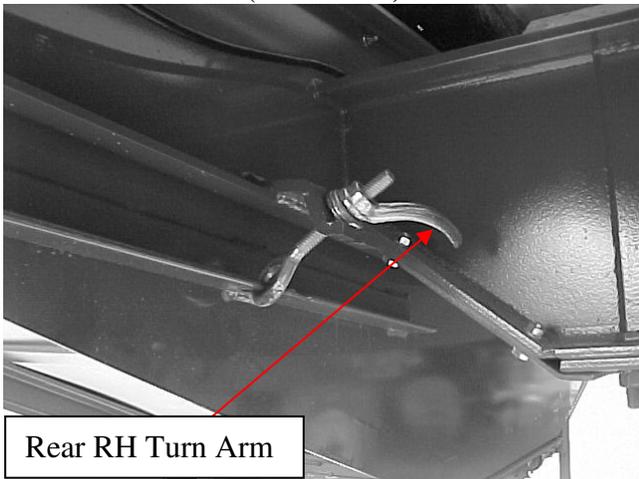
**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

**Step #8 - Installing the grain hopper**

Using a safe lifting device, lift the hopper from the ground and position it at the rear of the forage box. Position the hook so it lifts from the lifting loop at the center of the grain hopper. Lower the grain hopper as the top hooks are over the shafts on the hanger gussets on the right and left sides. Let the hopper down, and verify the hooks have properly seated over the shafts on the gusset, then remove your lifting device. Push down and inward on the back of the hopper until it bottoms out to the rear frame plate of the forage box. (See Below)



After the grain hopper is in place tighten the turn arms under the back side of the implement to pull the hopper tight to rear of the box. (See Below)

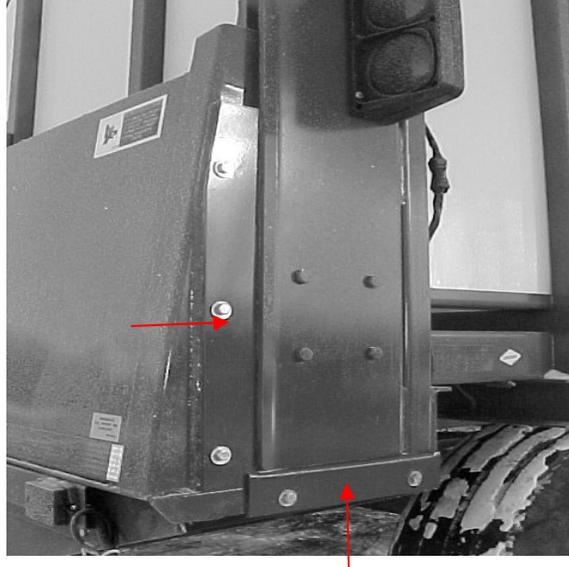


**Tighten the turn arms (Right and Left as viewed from the back of the implement)**

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

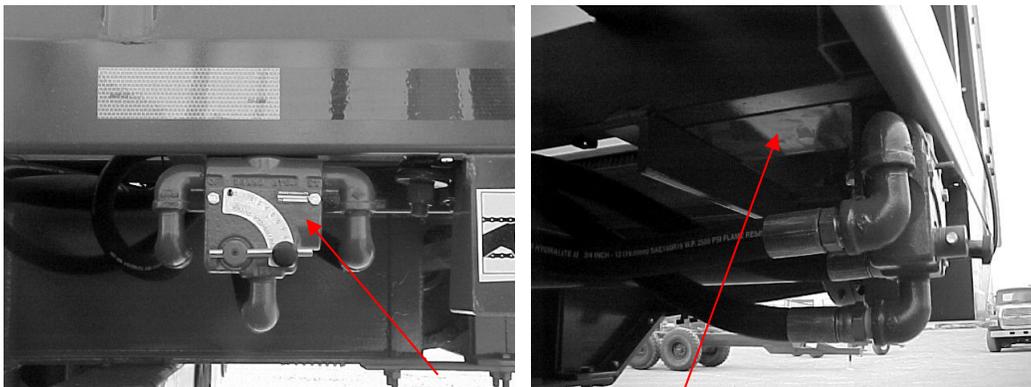
**Step #9 – Adjusting the side and lower seal filler panels**

Once the grain kit is pulled up tight from the prior step loosen and adjust the side and lower filler panels up tight to the left and right main bearing plate on the rear corners of the forage box. Tighten the bolts to hold filler panels in place.



**Step #10 - Installing the flow control**

Center the flow control between the 2<sup>nd</sup> and 3<sup>rd</sup> uprights from the rear on the left side as you are facing the box from the rear. **(8100's Not Shown)** Fit the mounting plate. Mark the two holes in the 4" formed side channel and drill 11/32" holes and bolt the mounting plate in place using 5/16x1" bolts & locknuts, then bolt the flow control on the mounting plate using the 1/4x3" machine bolts and 1/4" center locknuts. **(9100 Shown)** Use the bent mounting plate, and bolt in place as shown below using 3/8x1" machine bolts and 3/8" spin locknuts for the bracket and use the 1/4x3" machine bolts and 1/4" center locknuts to mount the flow control.



**9100 SHOWN**

**Step #11 – Connecting your clearance lights**

Find the electrical cable going to your right hand stop/tail/turn lights, there will be a pigtail which you will need to connect your grain kit plug to. Secure any excess wire or cable.

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

**OPERATOR INSTRUCTIONS**

Set the flow control at the rear of the box to 0 position. Unhook the latch chain on the turn wheel for the unloading door. Open the unloading door on the bottom of the hopper. Engage the hydraulics on the unit. Slowly open the flow control to start apron movement and to open the rear vertical door. Regulate the level of grain in the hopper by using the flow control to slow down, stop, or speed up the apron chain. The grain kit plexi-glass window will give you better visibility of the grain level. The grain level should always be lower than the **return** apron chain to minimize carry back and spillage under the box. As the box gets empty, increase the speed on the flow control to finish unloading. After grain is completely unloaded, the rear vertical gate will go back to the closed position. Turn the flow control back to the 0 position and shut down the hydraulics. Close the grain kit unloading door, and hook the latch chain around the turn wheel.

**OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100**

OPERATORS AND PARTS MANUAL NO.03-03-GK  
FOR  
81/9100

