

OPERATOR'S AND PARTS MANUAL

SPECIALTY LOADER ATTACHMENTS

| **AB16**

| **AB17**

| **AE11**

| **AF11**

| **AF12**

| **AG10**

| **AH11**

| **AS10**

| **AS11**



MANUAL #5MP76312

FRONTIER[™]

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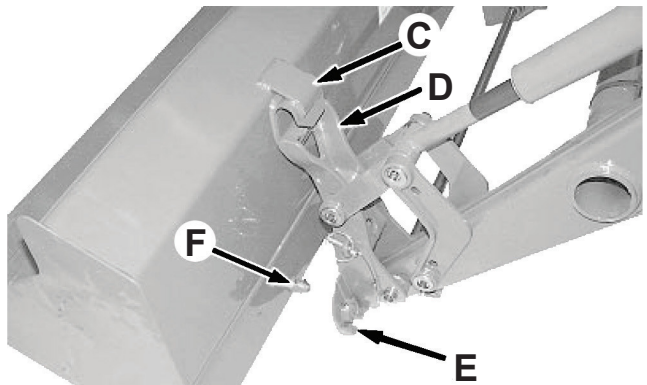
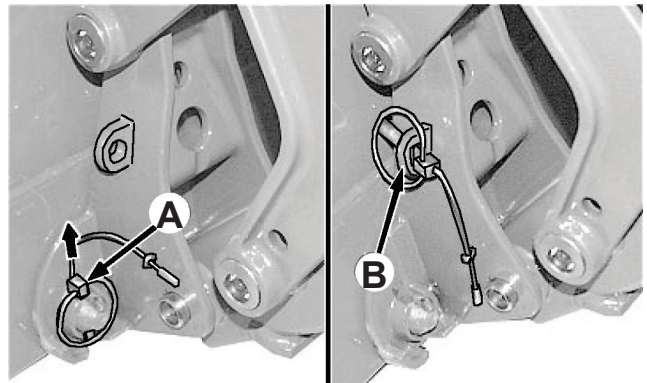
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INSTALLATION

ATTACHING AND DETACHING EQUIPMENT (100/200/300/400/500 SERIES LOADERS)

NOTE: Procedure is the same for all attachments. Bucket attachment shown.

1. Start tractor engine.
2. Release parking brake and/or place transmission in NEUTRAL.
3. Roll attachment back slightly and raise boom approximately 18" (460 mm) above ground level.
4. Engage tractor parking brake and/or place transmission in PARK. Shut off tractor engine and remove key.
5. Disconnect hydraulic couplers to attachment (if so equipped).
6. Remove the quick-lock pin (A) from each side of attachment.
7. Store pins in their storage position (B).
8. Start tractor engine.
9. Extend bucket cylinders until pin (F) releases from the holder strap (E) on each side of the attachment.
10. Lower loader boom. Place transmission in REVERSE and move away from the attachment. Holder (D) will release from hook (C) on each side of the attachment.
11. Set the parking brake and/or place transmission in PARK.
12. Shut off tractor engine and remove the key.
13. Attach equipment in reverse order of detaching.



NOTE: On attachments with two pins (F), the 100, 200, 300 and 400 series loaders will utilize the upper pin and the 500 series loader will utilize the lower pin.

LOADER MOUNTED FRONT BLADE OPERATION

AF11 & AF12 SERIES LOADER MOUNTED FRONT BLADE

5. Repeat step #4 for the other end of the wear edge.
6. Store the wear edge in a dry location and in such a fashion as to prevent it from inadvertently falling and causing injury. Keep the bolts and nuts in a safe location for re-installing when required.
7. Insert the bolts provided with the rubber edge through the clamp plate, the rubber edge and the base of the moldboard on the blade. Loosely secure the bolts with the lock nuts provided. Tighten bolts to 75 ft. lbs.

OPTIONAL RUBBER FLAP ASSEMBLY INSTALLATION

The optional top rubber flap assembly is designed to reduce snow spillage.

1. Park the tractor on a hard level surface with the blade properly attached.
2. Place the rubber edge across the top of the blade and secure in place with the clamp plate(s) required and the 5/16" bolts and lock nuts provided. Torque to 12 ft. lbs. Begin by tightening the nuts in the center and then move towards the outside.



Operate the attachment only when properly seated at the operator's station. Reduce speed when driving over rough terrain, on a slope, or turning, to avoid overturning the vehicle.

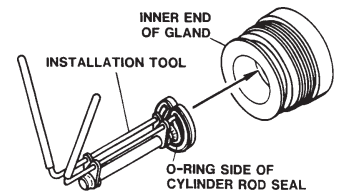
Avoid side slope travel whenever possible.

Before exiting the prime mover, lower the blade to the ground, turn off the prime mover's engine, remove the key and apply the brakes.

Do not detach loader from tractor with this attachment installed. Equip loader with materials bucket when detaching.

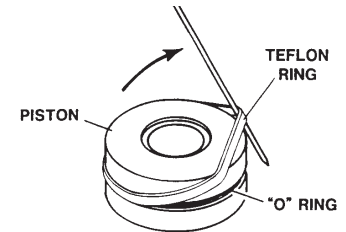
MAINTENANCE

Now insert the seal into the gland from the inner end. Position the seal in its groove, and release and remove the tool. Press the seal into its seat the rest of the way by hand.



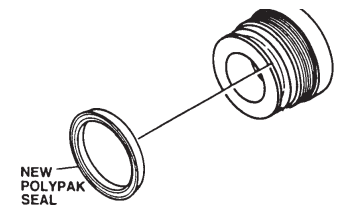
- Install the new piston ring, rod wiper, O-rings and backup washers, if applicable, on the piston.

Be careful not to damage the seals. Caution must be used when installing the piston ring. The ring must be stretched carefully over the piston with a smooth, round, pointed tool.



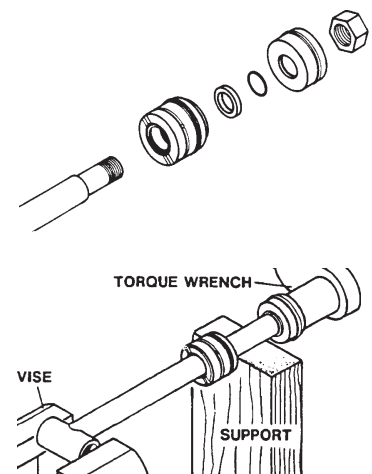
- After installing the rod seal inside the gland, as shown in step #1, install the external seal.

NOTE: Threaded glands may have been equipped with a separate O-ring and backup washer system or a polypak (all in one) type seal. Current seal kits contain a polypak (all in one) type seal to replace the discarded seal types on ALL THREADED GLANDS.



- Slide the gland onto the cylinder rod, being careful not to damage the rod wiper. Then install the spacer, or flat washer (if so equipped), small o-ring, piston, and hex nut onto the end of the cylinder rod.
- Secure the cylinder rod (mounting end) in a vise with a support at its center. Torque the nut to the amount shown for the thread diameter of the cylinder rod (see chart).

Thread Diameter	POUNDS - FEET
7/8"	150-200
*1"	230-325
1-1/8"	350-480
1-1/4"	490-670
1-3/8"	670-900
* 1" Thread Diameter WITH 1.25" Rod Diameter Min. 230 ft. lbs. Max. 250 ft. lbs.	



IMPORTANT: Do not contact the active surface of the cylinder rod with the vise. Damage to the rod could result.

- Apply a lubricant (such as Lubriplate #105) to the piston and teflon ring. Insert the cylinder rod assembly into the cylinder tube.

IMPORTANT: Ensure that the piston ring fits squarely into the cylinder tube and piston groove, otherwise the ring may be damaged and a leak will occur.

- Use a spanner wrench to rotate the gland clockwise into the cylinder. Continue to rotate the gland with the spanner wrench until it is tight.

WARNING!



Cylinders serviced in the field are to be tested for leakage prior to the attachment being placed in work. Failure to test rebuilt cylinders could result in damage to the cylinder and/or the attachment, cause severe personal injury or even death.

OPTIONAL PULLBACK ASSEMBLY AE11E SERIES FREE STALL SCRAPERS

5FP10736 OPTIONAL 60" PULL BACK ASSEMBLY

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1352670	60" Pull Back Frame
2	1	5FP1352672	60" Rubber Edge
3	1	5FP1352673	60" Clamp Plate
4	6	5MP1090	1/2" UNC X 1-1/2" Hex Bolt
5	24	5MP1516	1/2" Flat Washer
6	12	5MP1505	1/2" Lock Washer
7	12	5MP1228	1/2" UNC Hex Nut
8	6	5MP1094	1/2" UNC X 2-1/2" Hex Bolt

5FP10737 OPTIONAL 72" PULL BACK ASSEMBLY

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1352589	72" Pull Back Frame
2	1	5FP1352595	72" Rubber Edge
3	1	5FP1352610	72" Clamp Plate
4	6	5MP1090	1/2" UNC X 1-1/2" Hex Bolt
5	28	5MP1516	1/2" Flat Washer
6	14	5MP1505	1/2" Lock Washer
7	14	5MP1228	1/2" UNC Hex Nut
8	8	5MP1094	1/2" UNC X 2-1/2" Hex Bolt

5FP10738 OPTIONAL 84" PULL BACK ASSEMBLY

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1352679	84" Pull Back Frame
2	1	5FP1352681	84" Rubber Edge
3	1	5FP1352682	84" Clamp Plate
4	6	5MP1090	1/2" UNC X 1-1/2" Hex Bolt
5	28	5MP1516	1/2" Flat Washer
6	14	5MP1505	1/2" Lock Washer
7	14	5MP1228	1/2" UNC Hex Nut
8	8	5MP1094	1/2" UNC X 2-1/2" Hex Bolt

5FP10739 OPTIONAL 96" PULL BACK ASSEMBLY

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1352688	96" Pull Back Frame
2	1	5FP1352690	96" Rubber Edge
3	1	5FP1352691	96" Clamp Plate
4	6	5MP1090	1/2" UNC X 1-1/2" Hex Bolt
5	32	5MP1516	1/2" Flat Washer
6	16	5MP1505	1/2" Lock Washer
7	16	5MP1228	1/2" UNC Hex Nut
8	10	5MP1094	1/2" UNC X 2-1/2" Hex Bolt

AF12D & AF12G 96" LOADER MOUNTED FRONT BLADE 600, 700 & GLOBAL CARRIER SERIES LOADERS

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	2	5MP17139	Male Coupler 8FBo 1/2" Body
2	2	5FPLAF4343	3/8" Hose X 78" 6FJX-8MBo
3	2	5MP30379	6MJ-6MJ-6MJ Bulkhead Tee (Includes Nut)
4	2	5FPLAF4332	3/8" Hose X 16" 6FJX-6FJX
5	2	5MP3457	6MJ-6MBo Straight Connector
6	2	5MP3434	6MBo-6MJ 90° Elbow
7	4	5MP1049	3/8" UNC X 2-1/2" Hex Bolt
	4	5MP1837	3/8" UNC Torque Lock Nut
8	4	5FPLAF1487	Cylinder Pin
9	2	5FP035733	Cylinder Assembly
10	2	5FPLAF4349	3/8" Hose X 26" 6FJX-6FJX
11	1	5FPLAF150907	Mounting Frame (600 & 700 Series Loader)
	1	5FPLAF150909	Mounting Frame (Global Carrier Series Loader)
12	4	5MP2560	M12 Hex Nut (600 & 700 Series Loader ONLY)
13	1	5FP1352136	Right Latch Pin (600 & 700 Series Loader ONLY)
14	2	5FP0710145	Trip Pin (600 & 700 Series Loader ONLY)
15	2	5MP10195	Roll Pin (600 & 700 Series Loader ONLY)
16	1	5FP1352135	Left Latch Pin (600 & 700 Series Loader ONLY)
17	2	5FP0710144	Compression Spring (600 & 700 Series Loader ONLY)
18	1	5FPLAF1483	Bushing
19	2	5FPRHW5971	Machine Bushing
20	2	5MP1124	5/8" UNC X 4" Hex Bolt
	2	5MP1839	5/8" UNC Torque Lock Nut
21	1	5FPLAF1488	Pivot Pin
22	1	5MP6616	Grease Fitting
23	4	5FPRHW8065	Spade Bolt
	8	5MP1517	5/8" Flat Washer
	8	5MP1230	5/8" UNC Hex Nut
24	4	5FPLAF6405	Trip Spring
25	1	5FPLAF1510	Pivot Mounting
26	3	5MP1194	1" UNC X 4-1/2" Hex Bolt
	3	5MP1541	1" UNC Nylock Nut
27	1	5FPLAF1513	96" Blade
28	1	5FP1351824	96" Wear Edge
29	8	5MP1118	5/8" UNC X 2-1/2" Hex Bolt
	8	5MP1506	5/8" Lock Washer
	8	5MP1230	5/8" UNC Hex Nut
30	2	5FPRHW8064	Klik Pin
31	40	5FP0710126	1-5/8" SAE Flat Washer
32	2	5FPLAF1485	Skid Shoe
33	2	5FP5010019	Amber Reflecting Tape 2" x 9"
34	2	5FP5010018	Red Reflecting Tape 2" x 9"
35	2	5FP1003751A	Warning Decal, Crushing and Pinching Hazard
36	-	----	Serial Number Identification Tag Location
37	1	5MP41347	Caution Decal, Read Manual
38	1	5MP40151	Warning Decal, High Pressure Fluid
39	2	5FP500721	Warning Decal, Crush Hazard
40	1	5MP25453	Manual Storage Tube
41	2	5MP1003	1/4" UNC X 1" Hex Bolt
42	2	5MP1629	1/4" UNC Nylock Hex Nut

OPTIONAL FLAP ASSEMBLIES

LOADER MOUNTED FRONT BLADE

5FPLAF6492 OPTIONAL 84" FLAP ASSEMBLY - AF11D & AF11G 84" BLADES

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FPLAF6477	84" Rubber Flap
2	2	5FP1351708	Clamp Plate - 4 Hole
3	8	5MP1022	5/16" UNC X 1" Hex Bolt
	8	5MP1934	5/16" UNC Torque Lock Nut

5FPLAF6493 OPTIONAL 96" FLAP ASSEMBLY - AF11D, AF11G. AF12D & AF12G 96" BLADES

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FPLAF6478	96" Rubber Flap
2	1	5FP1351708	Clamp Plate - 4 Hole
	1	5FP1351709	Clamp Plate - 5 Hole
3	9	5MP1022	5/16" UNC X 1" Hex Bolt
	9	5MP1934	5/16" UNC Torque Lock Nut

5FPLAF6494 OPTIONAL 108" FLAP ASSEMBLY - AF12D & AF12G 108" BLADES

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FPLAF6479	108" Rubber Flap
2	2	5FP1351709	Clamp Plate - 5 Hole
3	10	5MP1022	5/16" UNC X 1" Hex Bolt
	10	5MP1934	5/16" UNC Torque Lock Nut

5FPLAF6495 OPTIONAL 120" FLAP ASSEMBLY - AF12D & AF12G 120" BLADES

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FPLAF6480	120" Rubber Flap
2	1	5FP1351707	Clamp Plate - 3 Hole
	2	5FP1351708	Clamp Plate - 4 Hole
3	11	5MP1022	5/16" UNC X 1" Hex Bolt
	11	5MP1934	5/16" UNC Torque Lock Nut

OPTIONAL PULL BACK AND RUBBER EDGE ASSEMBLIES AS11E SERIES SNOW PUSH

5FP10733 OPTIONAL RUBBER EDGE ASSEMBLY- AS11E 96" Equipped with 5FP10730 Pull Back Assembly

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1351941	60" Clamp Plate
2	1	5FP1352476	30" Clamp Plate
3	1	5FP1352467	Rubber Edge
4	15	5MP1094	1/2" UNC X 2-1/2" Hex Bolt
	30	5MP1516	1/2" Flat Washer
	15	5MP1841	1/2" UNC Torque Lock Nut

5FP10734 OPTIONAL RUBBER EDGE ASSEMBLY- AS11E 108" Equipped with 5FP10731 Pull Back Assembly

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1352545	54" Clamp Plate
2	1	5FP1352544	42" Clamp Plate
3	1	5FP1352540	Rubber Edge
4	17	5MP1094	1/2" UNC X 2-1/2" Hex Bolt
	34	5MP1516	1/2" Flat Washer
	17	5MP1841	1/2" UNC Torque Lock Nut

5FP10735 OPTIONAL RUBBER EDGE ASSEMBLY- AS11E-120" Equipped with 5FP10732 Pull Back Assembly

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5FP1351941	60" Clamp Plate
2	1	5FP1352545	54" Clamp Plate
3	1	5FP1352468	Rubber Edge
4	19	5MP1094	1/2" UNC X 2-1/2" Hex Bolt
	38	5MP1516	1/2" Flat Washer
	19	5MP1841	1/2" UNC Torque Lock Nut

5FP10730 OPTIONAL PULL BACK ASSEMBLY - AS11E 96"

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
5	1	5FP1352494	8' Pull Back Trip Edge
6	2	5FP1352493	Pull Back Shoe Plate
7	14	5FPRHW1406	1/2" UNC X 1-3/4" Nylock Bolt
	28	5MP1516	1/2" Flat Washer
	14	5MP1505	1/2" Lock Washer
	14	5MP1228	1/2" UNC Hex Nut
8	2	5FP5010019	Amber Reflecting Tape 2" x 9"

5FP10731 OPTIONAL PULL BACK ASSEMBLY - AS11E 108"

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
5	1	5FP1352548	9' Pull Back Trip Edge
6	2	5FP1352493	Pull Back Shoe Plate
7	14	5FPRHW1406	1/2" UNC X 1-3/4" Nylock Bolt
	28	5MP1516	1/2" Flat Washer
	14	5MP1505	1/2" Lock Washer
	14	5MP1228	1/2" UNC Hex Nut
8	2	5FP5010019	Amber Reflecting Tape 2" x 9"

5FP10732 OPTIONAL PULL BACK ASSEMBLY - AS11E - 120"

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
5	1	5FP1352526	10' Pull Back Trip Edge
6	2	5FP1352493	Pull Back Shoe Plate
7	14	5FPRHW1406	1/2" UNC X 1-3/4" Nylock Bolt
	28	5MP1516	1/2" Flat Washer
	14	5MP1505	1/2" Lock Washer
	14	5MP1228	1/2" UNC Hex Nut
8	2	5FP5010019	Amber Reflecting Tape 2" x 9"

AB17K BALE SQUEEZE
CATEGORY II GLOBAL CARRIER SERIES LOADERS

LIST 2 OF 2

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	5MP30291	8MFS-8MFS Straight Bulkhead Connector
2	2	5MP38805	3/8" Hose X 54" 6FFS-8FFS
3	3	5MP30208	6MBo-6MFS Straight Connector
4	1	5MP88536	Valve
5	2	5MP1028	5/16" X 2-1/2" Hex Bolt
	4	5MP1513	5/16" Flat Washer
	2	5MP1502	5/16" Lock Washer
	2	5MP1225	5/16" UNC Hex Nut
6	5	5MP30204	6MBo-6MFS 90° Elbow
7	1	5MP37898	3/8" Hose X 33" 6FFS 90°-6FFS
8	1	5MP38792	3/8" Hose X 16.50" 6FFS 90°-6FFS
9	2	5MP30203	6MFS-6MFS-6MFS Tee
10	1	5MP37841	3/8" Hose X 22" 6FFS-6FFS
11	2	5MP37873	3/8" Hose X 6" 6FFS-6FFS
12	1	5MP37788	3/8" Hose X 56" 6FFS-6FFS
13	2	5MP100051	Cylinder Assembly
14	2	5MP32392	Pivot Pin 5-1/16" Long
15	2	5MP31991	Pivot Pin 3" Long
16	4	5MP1043	3/8" UNC X 1" Hex Bolt
	4	5MP1503	3/8" Lock Washer
	4	5MP1514	3/8" Flat Washer

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