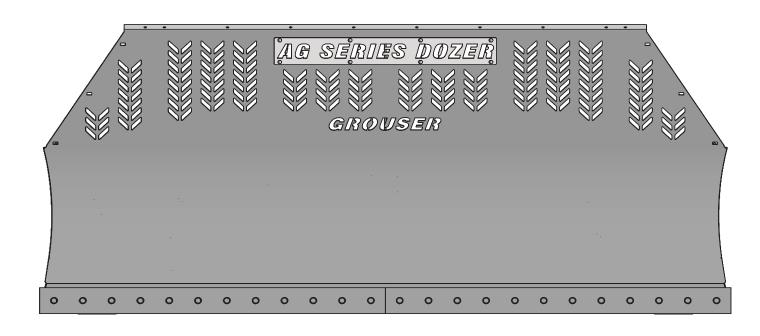


AG240 Dozer with FH-440 Front Hitch

Owner's Manual & Parts Book



Grouser Products

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	Fulction Date
	Serial Number
	Model Number
	Tractor Model
	Dealer

PN: 63-18822 Serial #:10204583-4588, 10204622, 10204657-...

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Thank you for your recent purchase of a Grouser dozer blade. Welcome to the family of satisfied Grouser blade owners. Grouser Products is committed to offering quality products to help professionals in their daily jobs. We are also committed to providing you the highest level of customer satisfaction possible. Again, thank you for your patronage. We look forward to serving you.

This manual contains information concerning the operation, adjustment, safety and maintenance of the AG240 Dozer and FH-440 Front Hitch. You have purchased a dependable, long lasting piece of equipment. You can expect to receive long lasting performance and long service built into our products with proper care and operation. Please have all operators read and understand this manual carefully. Keep the manual available for reference. If, for any reason, you have questions or comments, we would be happy to hear from you. Call our toll-free number, 800-747-6182, or send us an e-mail at info@grouser.com. You can expect us to respond to your e-mail in a timely manner.

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before operating this equipment. In addition, please follow all safety and operational instructions of your tractor manufacturer.

The Dozer:

- 1. The AG240 Dozer and FH-440 Front Hitch should be operated only by those who are responsible and instructed to do so.
- 2. Read the owner's manual carefully before using this equipment. Lack of operating knowledge can lead to accidents.
- 3. Keep the dozer maintained in reliable and satisfactory condition to ensure your safety.
- 4. Make sure the area is clear of people before moving any equipment.
- 5. Do not modify or permit anyone else to modify or alter the equipment and its components without first consulting Grouser Products.
- 6. Lower the blade to the ground when not in use.

Servicing the Dozer:

- 1. Read and follow all safety instructions provided by the tractor manufacturer.
- 2. Always use proper personal safety gear when performing maintenance on equipment.
- 3. Before servicing, relieve hydraulic pressure, stop engine and fully engage parking brake.
- 4. Escaping hydraulic fluid under pressure can penetrate skin causing serious injury. If fluid is injected into skin, obtain medical attention immediately.
 - DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
 - Stop the engine and relieve pressure before connecting or disconnecting lines.
 - Tighten all connections before starting the engine or pressurizing lines.

Storing the Dozer:

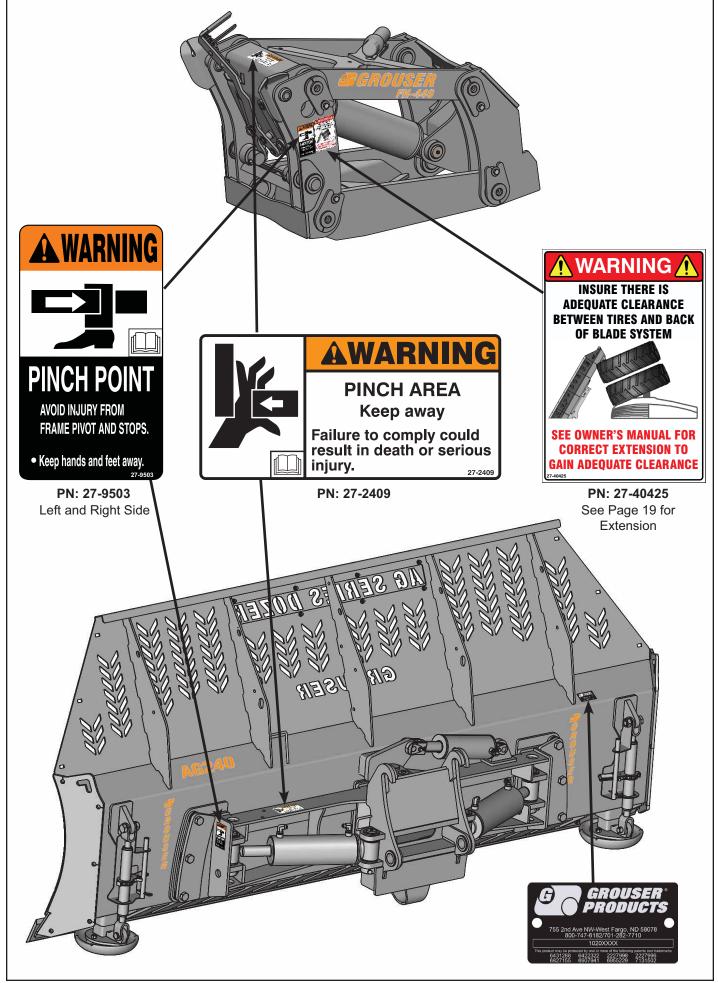
- 1. Thoroughly clean the inside and outside of the dozer before storage. Use paint where necessary to prevent rust.
- 2. Check the dozer for worn or damaged parts. Install new parts as required.
- 3. Lubricate all pins and joints.

Tighten all bolts to the values listed below unless otherwise noted. Refer to the parts lists for proper length and grade of the bolts.

	Torque - Dry (ft-lbs)			
	SAE G	rade 5	SAE G	rade 8
Size	UNC	UNF	UNC	UNF
5/16	17	19	24	27
3/8	30	35	45	50
7/16	50	55	70	80
1/2	75	85	110	120
9/16	110	120	150	170
5/8	150	170	210	240
3/4	260	300	380	420
7/8	430	470	600	670
1	640	720	910	1020

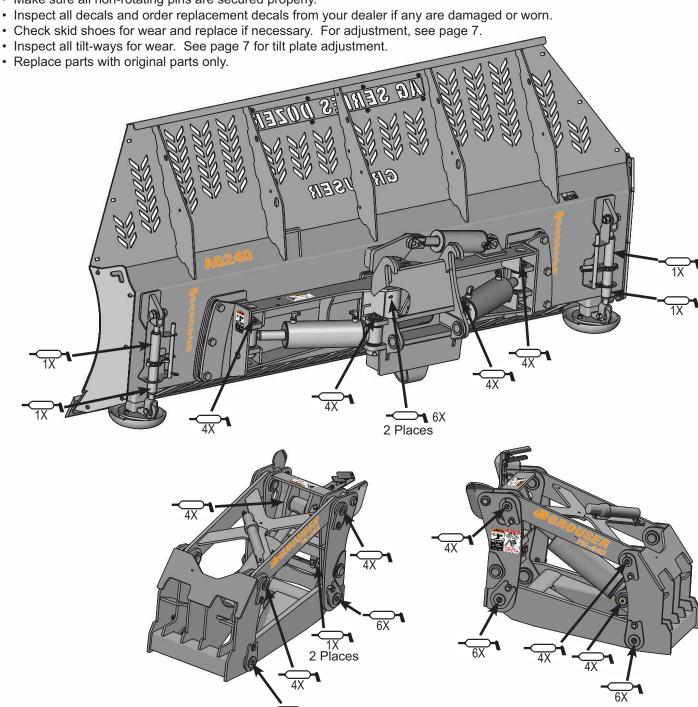
	Torque - Dry (ft-lbs)
Size	Grade 10.9
M18 x 2.50	284
M20 x 2.50	401
M22 x 2.50	547
M24 x 3.00	694

		Angle/Tilt Function Abbreviation Key	
	HAHT	Hydraulic Angle - Hydraulic Tilt	6-Way
HANT Hyd		Hydraulic Angle - No Tilt	4-Way
	NANT	No Angle - No Tilt	2-Way



Due to the harsh environment this equipment operates in, the following tasks should be performed every 10 hours or less.

- Inspect all equipment before operation for existing or potential damage.
- · Lubricate all joints with high quality grease. See below for grease locations.
- Inspect all bolts, and tighten any loose bolts to torque specifications on page 3.
- · Check replaceable cutting edge for wear ensuring there is enough material to prevent permanent damage to the blade.
- · Check hydraulic cylinders and hoses for damage or leaks. For replacement parts, see hydraulic pages for your specific system.
- If equipped with hydraulic multi-coupler, see page 23-24 for hydraulic multi-coupler maintenance.
- · Make sure all non-rotating pins are secured properly.



	Grease Locations
Hydraulic Angle & Hydraulic Tilt	10
Hydraulic Angle & No Tilt	10
No Angle & No Tilt	4
Lift System	12

NOTE: Only the HAHT system is shown. HAHT and HANT have similar grease locations. NANT only has grease locations on the ratchet jacks.

To Connect:

Note: If necessary, use a spotter to help center the blade on the lift system.

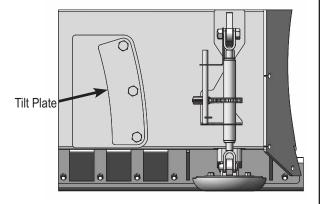
- 1. Lift the locking latch and push the quick attach lock handle on the left side of the lift system to open the quick attach system. Refer to Page #16 for further clarification on the quick attach system.
- 2. Drive the tractor forward slowly until the top edge of the male quick attach is under the top angle frame hook.
- 3. Raise the lift system until the male quick attach engages the angle frame hooks. Continue to raise the lift system until the blade is off the ground and the angle frame is against the front of the male quick attach.
- 4. Shut off the tractor engine and set the parking brake.
- 5. Pull the quick attach lock handle to engage the quick attach pins and lift the locking latch to lock the handle in place.
- 6. Clean and connect hydraulic couplers on the top arm. Refer to Page #17 for proper locations of all functions.

To Disconnect:

- 1. Lower the blade until the cutting edge is off the ground a few inches.
- 2. Shut off the tractor engine and set the parking brake.
- 3. Unhook all of the hydraulic couplers on the top arm.
- 4. Lift the locking latch and push the quick attach lock handle to disengage the quick attach pins.
- 5. Start tractor, disengage the parking brake, and lower the blade until cutting edge is on the ground.
- 6. Continue to slowly lower the lift system to disengage the blade.
- 7. Slowly back away from the blade. When lift system is clear from the blade, raise the lift system.
- 8. Shut off the tractor engine and set the parking brake.
- 9. Pull the quick attach lock handle and lift the locking latch to lock the handle in place.

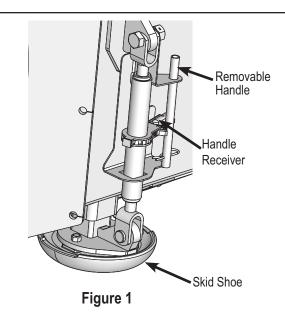
Note: Do not remove all of the bolts at the same time.

- 1. The preferred blade position for adjusting the tilt plates is laying face down on blocks.
- 2. Remove the top and bottom bolts from each tilt plate.
- 3. Add or remove washers as needed to adjust tilt-way clearance to 1/16" 1/8".
- Reinstall top and bottom bolts.
- 5. Follow Steps #2-4 for the center bolts.
- 6. Once the tilt-way clearance is set, torque bolts to 640 ft-lbs.



Skid Shoe Adjustment:

- 1. Remove the handle from the ratchet keeper by pulling the hitch clip pin and insert it into the handle receiver on the ratchet jack.
- 2. Loosen the locking nut on the ratchet jack.
- 3. Hold the body of the ratchet jack and rotate the ratchet jack handle to raise or lower the skid shoes.
- 4. If the skid shoe is not moving in the proper direction, flip the forward/reverse lever on the handle (see Figure 2). Rotate the ratchet jack handle again to move the skid shoe in the desired direction.
- 5. After the skid shoe is adjusted, rotate the ratchet jack handle until it rests against the ratchet keeper. Return the removable handle to the ratchet keeper ensuring that the ratchet jack handle is captured by the removable handle and the ratchet keeper. Secure the handle to the ratchet keeper with the hitch clip pin.
- 6. Tighten the locking nut against the ratchet jack body to keep it from moving.
- 7. When skid shoes are worn up to the bolt heads, replace skid shoes.



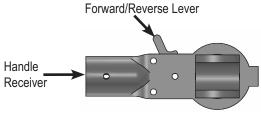
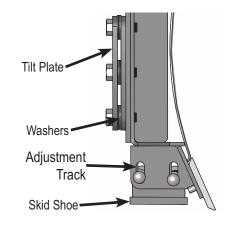


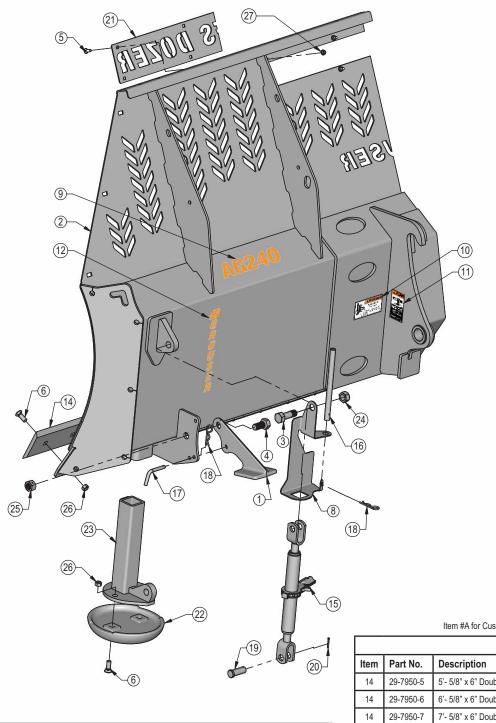
Figure 2

Skid Shoe Adjustment:

- 1. Raise and secure blade to access skid shoe bolts and nuts.
- 2. Loosen nuts and set skid shoe depth by sliding the shoe up and down.
- 3. Once the depth is set, torque bolts to 150 ft-lbs.
- 4. When skid shoes are worn down to 1/4" of wear material remaining, replace skid shoes.



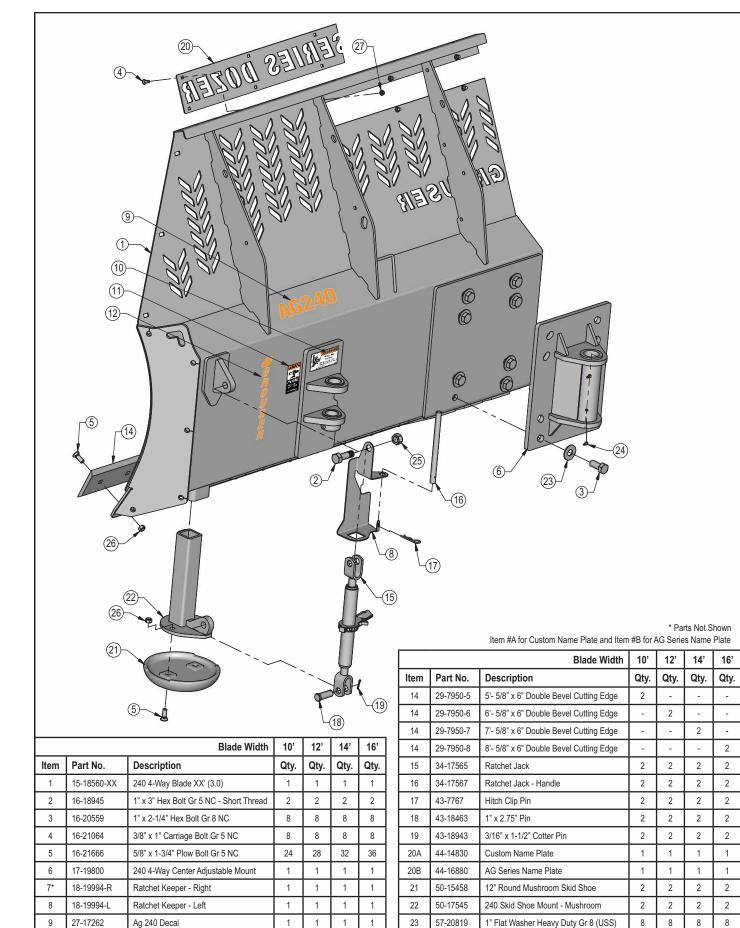
10' Blade - Skid Shoe Adjustment



		* Parts Not Shown
Item #A for Custom Name Plate and Item #	B for AG	Series Name Plate

		Blade Width	10'	12'	14'	16'
Item	Part No.	Description	Qty.	Qty.	Qty.	Qty.
1	11-11316	Blade Stand Arm	2	2	2	2
2	15-17850-XX	240 2-Way Blade XX'	1	1	1	1
3	16-18945	1" x 3" Hex Bolt Gr 5 NC - Short Thread	2	2	2	2
4	16-20558	1" x 2" Hex Bolt Gr 8 NC	2	2	2	2
5	16-21064	3/8" x 1" Carriage Bolt Gr 5 NC	8	8	8	8
6	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC	24	28	32	36
7*	18-19994-R	Ratchet Keeper - Right	1	1	1	1
8	18-19994-L	Ratchet Keeper - Left	1	1	1	1
9	27-17262	Ag 240 Decal	1	1	1	1
10	27-2409	Pinch Decal (Hand)	2	2	2	2
11	27-9503	Pinch Decal (Foot)	2	2	2	2
12	27-9505	Grouser Vertical Decal	2	2	2	2
13*	NA	Grouser Serial Tag	1	1	1	1

	item #7101 Ouston Parine Frate and item #5 1017/0 Oches Parine Frate					
		Blade Width	10'	12'	14'	16'
Item	Part No.	Description	Qty.	Qty.	Qty.	Qty.
14	29-7950-5	5'- 5/8" x 6" Double Bevel Cutting Edge	2	-	-	-
14	29-7950-6	6'- 5/8" x 6" Double Bevel Cutting Edge	-	2	-	-
14	29-7950-7	7'- 5/8" x 6" Double Bevel Cutting Edge	-	-	2	-
14	29-7950-8	8'- 5/8" x 6" Double Bevel Cutting Edge	-	-	-	2
15	34-17565	Ratchet Jack	2	2	2	2
16	34-17567	Ratchet Jack - Handle	2	2	2	2
17	43-9582	Bent Claw Pin with Clip Pin	2	2	2	2
18	43-7767	Hitch Clip Pin	4	4	4	4
19	43-18463	1" x 2.75" Pin	2	2	2	2
20	43-18943	3/16" x 1-1/2" Cotter Pin	2	2	2	2
21A	44-14830	Custom Name Plate	1	1	1	1
21B	44-16880	AG Series Name Plate	1	1	1	1
22	50-15458	12" Round Mushroom Skid Shoe	2	2	2	2
23	50-17545	240 Skid Shoe Mount - Mushroom	2	2	2	2
24	70-20999	1" Hex Top Lock Nut Gr 8 NC - YZ	2	2	2	2
25	70-20609	1" Hex Center Lock Nut	2	2	2	2
26	70-20646	5/8" Hex Top Lock Nut Gr 5 NC	24	28	32	36
27	70-20622	3/8" Flange Nut	8	8	8	8



58-9371

70-20999

70-20646

70-20622

Grease Zerk 1/8" NPT 45°

3/8" Flange Nut

1" Hex Top Lock Nut Gr 8 NC - YZ

5/8" Hex Top Lock Nut Gr 5 NC

13* NA

27-2409

27-9503

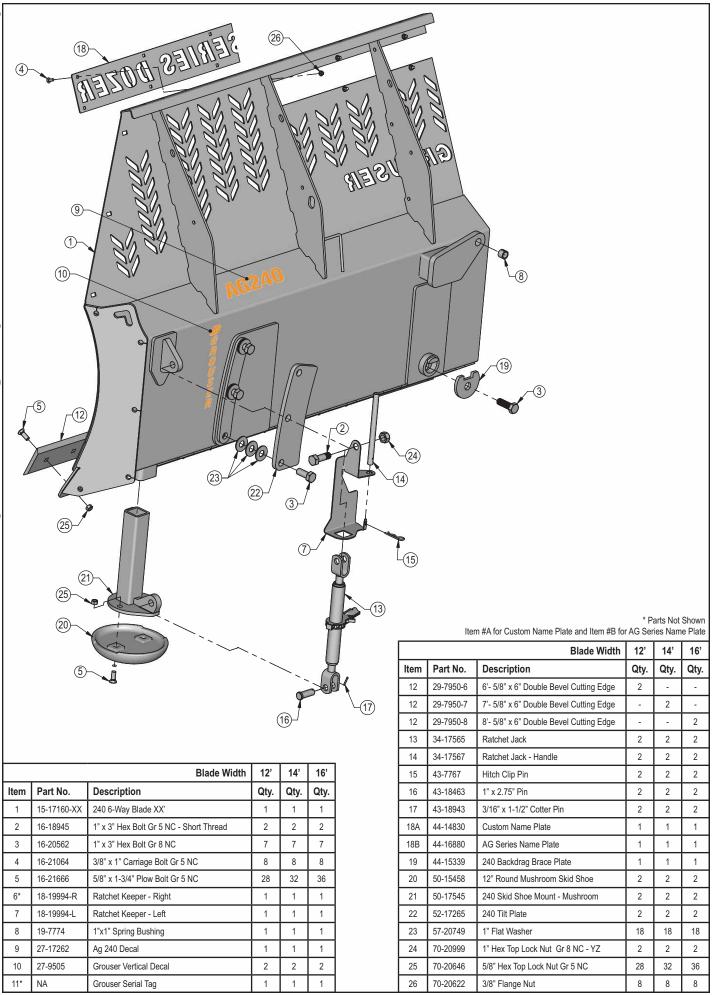
27-9505

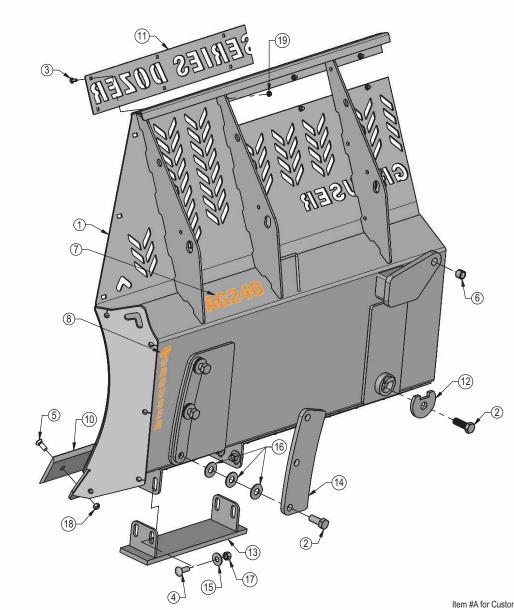
Pinch Decal (Hand)

Pinch Decal (Foot)

Grouser Serial Tag

Grouser Vertical Decal





* Parts Not Shown

	Item #A for Custom Name Plate and Item #B for AG Series Name Plate				
lt	em	Qty.	Part No.	Description	
	1	1	15-19050-10	240 6-Way Blade 10'	
	2	7	16-20562	1" x 3" Hex Bolt Gr 8 NC	
Г	3	8	16-21064	3/8" x 1" Carriage Bolt Gr 5 NC	
Г	4	8	16-21218	3/4" x 2" Carriage Bolt Gr 5 NC	
	5	20	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC	
	6	1	19-7774	1"x1" Spring Bushing	
	7	1	27-17262	Ag 240 Decal	
	8	2	27-9505	Grouser Vertical Decal	
	9*	1	NA	Grouser Serial Tag	
	10	2	29-7950-5	5'- 5/8" x 6" Double Bevel Cutting Edge	
1	11A	1	44-14830	Custom Name Plate	
1	I1B	1	44-16880	AG Series Name Plate	
	12	1	44-15339	240 Backdrag Brace Plate	
	13	2	50-8740	Skid Shoe	
	14	2	52-17265	240 Tilt Plate	
	15	8	57-20747	3/4" Flat Washer	
	16	18	57-20749	1" Flat Washer	
	17	8	70-20607	3/4" Hex Center Lock Nut Gr 2 NC	
	18	20	70-20646	5/8" Hex Top Lock Nut Gr 5 NC	
	19	8	70-20622	3/8" Flange Nut	
				11	

			Configuration	НАНТ	HANT
	Item	Part No.	Description	Qty.	Qty.
	1	16-20040	5/16" x 2-1/2" Hex Bolt Gr 5 NC	3	2
ı	2	16-20125	1/2" X 1-1/4" Hex Bolt Gr 5 NC	1	-
I	3	16-20134	1/2" x 3-1/2" Hex Bolt Gr 5 NC	4	4
I	4	16-20558	1" x 2" Hex Bolt Gr 8 NC	1	1
	5	16-35C612	3/8" x 3/4" Flanged Bolt	2	-
I	6	18-19311-02-P-062	Hose Clamp	1	-
I	7	18-19312-02	Twin Cover Plate	2	-
I	8	19-13577	NR Pin Spacer Clevis End	2	-
l	9	19-40419	2.25 x 2.00 x 1.38 Spring Bushing	8	8
	10	19-7774	1"x1" Spring Bushing	1	-
I	11	25-34342	Tappet Quick Coupler - Male	4	2
l	12	25-3453	Pioneer Dust Cap Tilt (Green)	2	-
I	13	25-3455	Pioneer Dust Cap Angle (Red)	2	2
	14	26-34711	4 x 8 Cylinder W/ Cast Clevis Ends	1	-
	15	26-34748	5 x 12 Cylinder W/ Tube Ends (2.0")	2	2
	15A	26-34759	5 x 10 Cylinder W/ Tube Ends (2.0")	2	2
	16	27-2409	Pinch Decal (Hand)	1	-
וי	17	27-9503	Pinch Decal (Foot)	2	-
	18	31-11699-8-8	JIC Union (2403-8-8)	2	2
I	19	31-34040	Straight JIC x O-Ring (6400-8-8)	2	2
	20	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-8)	2	-
I	21	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)	8	6
I	22	31-34070	Run Tee JIC x O-Ring (6804-8-8-8)	2	2
	23	31-34100	Swivel Nut Elbow 90° JIC (6500-8-8)	2	2
	24	32-18400	Tilt Frame (2.0")	1	-
	25	32-18410	Angle Frame (2.0")	1	1
	26	34-12932	Cylinder Saddle	2	2
	27	34-12933	Hose Clamp	2	2
ľ	28	34-13807	Spring, Hose Support	1	-
	29	34-18888-GR	-12 Green - Spiral Band	2	-
	30	34-18888-RD	-12 Red - Spiral Band	2	2
	31	35-17260	240 Formed Steel Line	2	2
	32	35-31010	25" x 3/8" -8 JIC/-8 JIC Hose w/ Cordura	2	2
	33	35-31013	28" x 3/8" -8 JIC/-8 JIC Hose w/ Cordura	2	2
	34	35-31022	39" x 3/8" -8 JIC/-8 JIC Hose w/ Cordura	2	2
	35	35-31030	63" x 3/8" -8 JIC/-8 JIC Hose w/ Cordura	1	-
	36	35-31032	69" x 3/8" -8 JIC/-8 JIC Hose w/ Cordura	1	
	37	43-13580	1" Clevis Bolt in Pin	2	-
Į	38	43-16925	Angle Pin	1	1
1	39	43-18405	Cylinder Pin (2")	4	4
	40	56-7772	Relief Valve	1	1
	41	57-16928	3.50" OD x 1.06" ID Washer	1	1
	42	57-20791	5/16" Fender Washer	1	-
ĺ	43 57-20794 1/2" Fender Washer		1/2" Fender Washer	1	
	44	58-9369	Grease Zerk 1/8" NPT Straight	4	4
	45	58-9371	Grease Zerk 1/8" NPT 45°	2	2
	46	70-20581	5/16" Hex Nut NC	1	-
	47	70-20604	1/2" Hex Center Lock Nut NC	4	4
- 16					

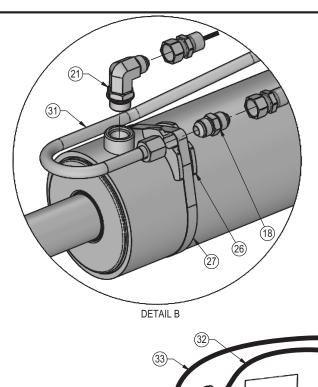
Item A: For Challenger 1000 & Fendt 1000 Tractors.

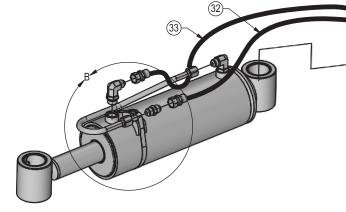
See Page 17 for the tractor side hydraulics.

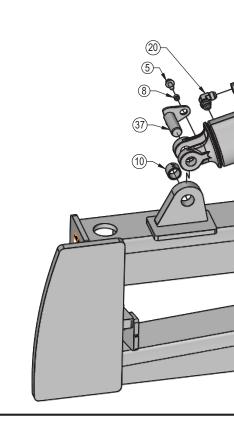
See Page 25 for hydraulic schematic.

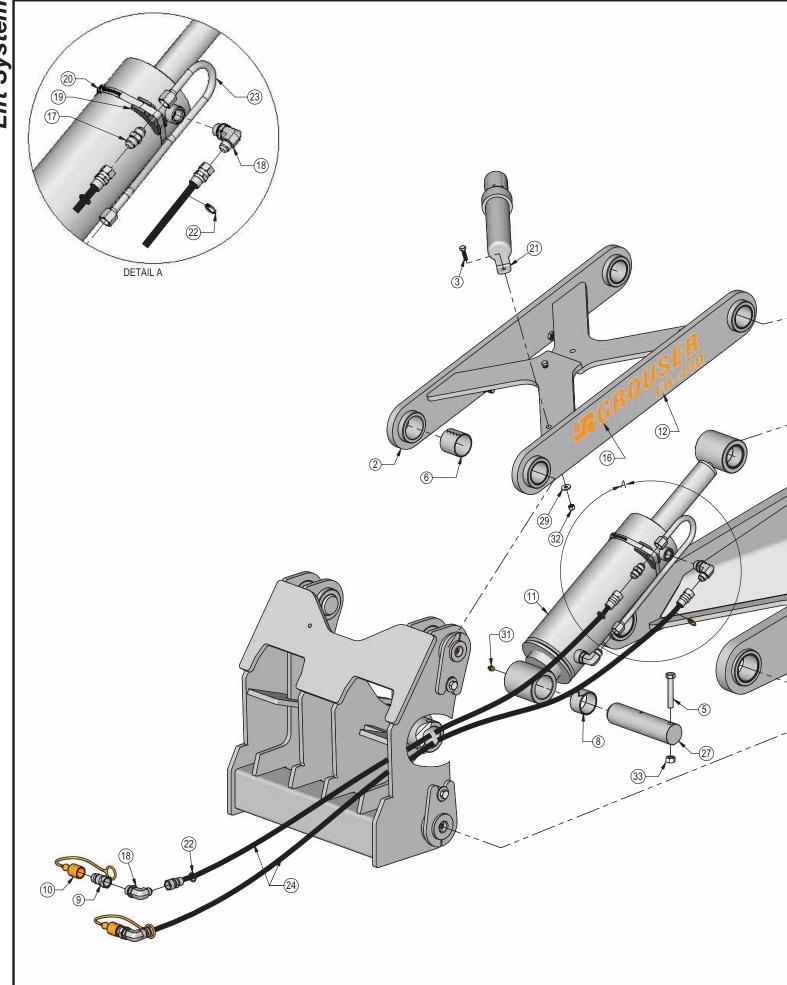
NOTE: When ordering cylinder seal kits, the part number on the cylinder is needed. The number is stamped on the base end of the cylinder opposite of the hydraulic ports.

number to dumped on the bace one of the dyminer opposite of the hydraulic ports.					
No. On Cylinder	Part No.	Description			
26-34748	49-12272	Seal Kit 5 x 12 Nitrided Rod			
26-34711	49-12271	Seal Kit 4 x 8 Nitrided Rod. Clevis Ends			

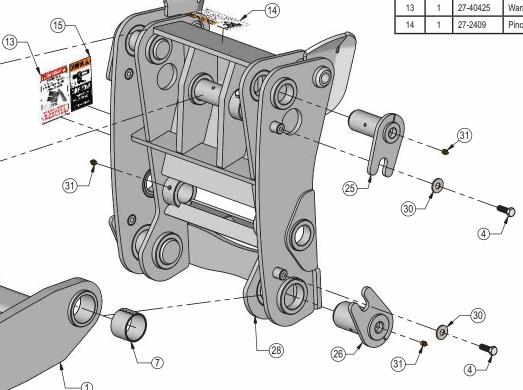










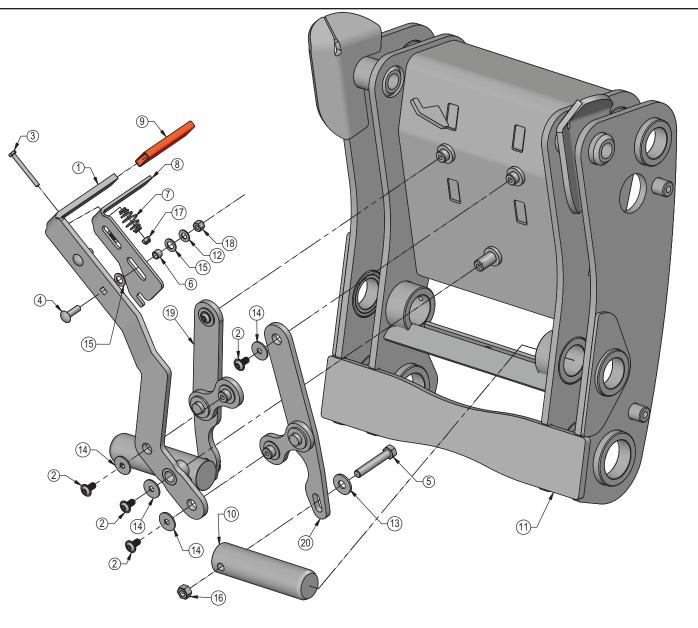


Item	Qty.	Part No.	Description
15	1	27-9503	Pinch Decal (Foot)
16	2	27-9504	Grouser Horizontal Decal
17	1	31-11699-8-8	JIC Union (2403-8-8)
18	4	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)
19	1	34-12932	Cylinder Saddle (ZR518)
20	1	34-12933	Hose Clamp
21	1	34-14961	Manual Canister
22	4	34-18888-OR	-12 Spiral Band - Orange
23	1	35-17260	240 Formed Steel Line
24	2	35-17721-280-1	280" x 1/2" -8JIC/-8JIC Hose W/ 36" Cordura
25	4	43-16385	240 Upper Pin
26	4	43-16390	240 Lower Pin
27	2	43-18405	240 Cylinder Pin (2.0")
28	1	45-18300	240 Quick Attach (2.0")
29	2	57-20741	5/16" Flat Washer
30	8	57-20794	1/2" Fender Washer
31	12	58-9369	Grease Zerk 1/8" NPT Straight
32	2	70-20611	5/16" Nyloc Nut
33	2	70-20604	1/2" Hex Center Lock Nut NC

NOTE: When ordering cylinder seal kits, the part number on the cylinder is needed. The number is stamped on the base end of the cylinder opposite of the hydraulic ports.

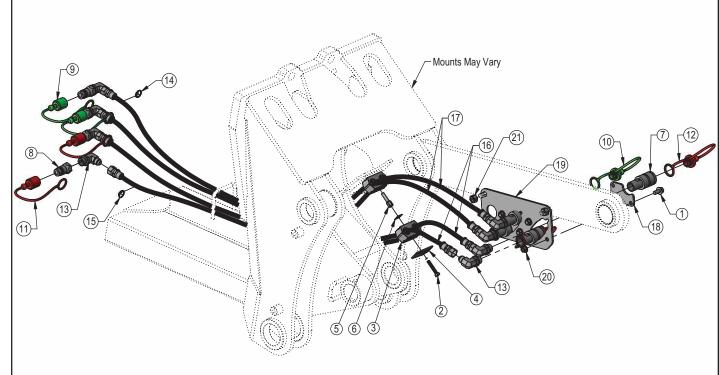
 No. On Cylinder
 Part No.
 Description

 26-34748
 49-12272
 Seal Kit 5 x 12 - Nitrided Rod



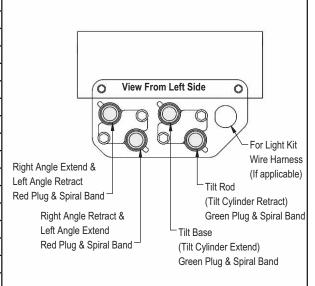
ltem	Qty.	Part No.	Description
1	1	11-16918	Pin Pulling Handle Weld
2	5	16-17266	3/8" x 3/4" Flange Button Socket Bolt
3	1	16-20011	1/4" x 2-3/4" Hex Bolt Gr 5 NC
4	2	16-21065	3/8" x 1-1/4" Carriage Bolt
5	2	16-20132	1/2" X 3" Hex Bolt Gr 5 NC
6	2	19-40440	.378" ID x .503" OD Spacer
7	1	34-17799	Pin Pulling Latch Spring
8	1	39-16931	Pin Puller Latch
9	1	39-3072	Handle Cover
10	2	43-16923	Pin Pulling Pin
11	1	45-18300	Quick Attach (2.0")
12	2	57-20742	3/8" Flat Washer
13	2	57-20744	1/2" Flat Washer
14	5	57-20792	3/8 Fender Washer (1.25" OD)
15	4	57-40408	.51" ID x .875" OD Nylon Washer
16	2	70-20604	1/2" Hex Center Lock Nut NC
17	1	70-20610	1/4" Nyloc Hex Nut Gr 5 NC
18	2	70-20612	3/8" Nyloc Hex Nut Gr 5 NC
19	1	75-16915-R	Link Weld - Right
20	1	75-16915-L	Link Weld - Left

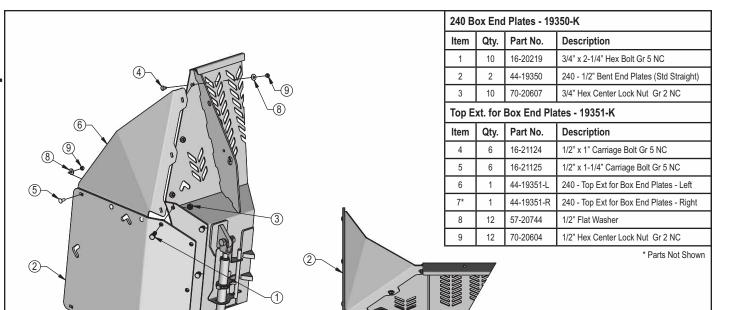
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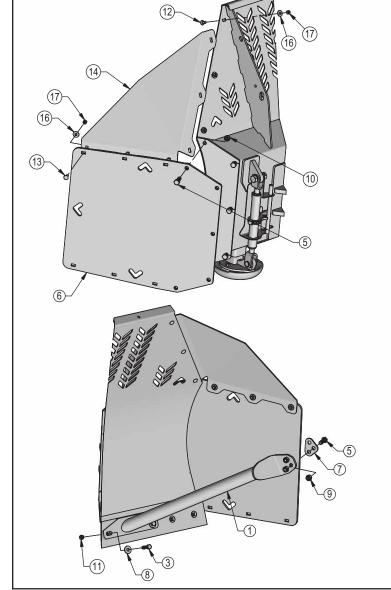


Some parts hidden for clarity See Page 25 for hydraulic schematic.

		Configuration	HAHT	HANT
Item	Part No.	Description	Qty.	Qty.
1	16-35C612	3/8" x 3/4" Flanged Bolt	4	2
2	16-20037	5/16" x 1-3/4 " Hex Bolt Gr 5 NC	1	1
3	18-19311-03-P-087	Hose Clamp (TS-CLH-03-P-087)	2	1
4	18-19312-03	Twin Cover Plate (TS-TCP-03-Z)	1	1
5	18-19313-03	Twin Stacking Bolt (TS-STB-03-Y-56H)	1	-
6	18-19314-02	Twin Safety Plate (TS-SAF-02-Y)	1	-
7	25-34321	Tappet Quick Coupler - Female	4	2
8	25-34342	Tappet Quick Coupler - Male	4	2
9	25-3453	Pioneer Dust Cap Tilt (Green)	2	-
10	25-3454	Pioneer Dust Plug Tilt (Green)	2	-
11	25-3455	Pioneer Dust Cap Angle (Red)	2	2
12	25-3456	Pioneer Dust Plug Angle (Red)	2	2
13	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)	8	-
14	34-18888-GR	-12 Green - Spiral Band	4	-
15	34-18888-RD	-12 Red - Spiral Band	4	4
16	35-17722-280-1	280" (23.3') x 3/8" -8JIC/-8JIC Hose w/21" Cordura & Collar	2	2
17	35-17722-280-2	280" (23.3') x 3/8" -8JIC/-8JIC Hose w/18.5" Cordura & Collar	2	-
18	44-14734	Female Coupler Retainer	2	1
19	44-16236	Female Coupler Mount	1	1
20	70-20622	3/8" Flange Hex Nut	4	2
21	70-20604	1/2" Hex Center Lock Nut	2	2



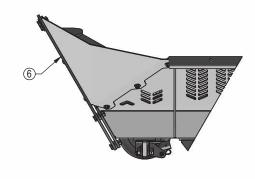


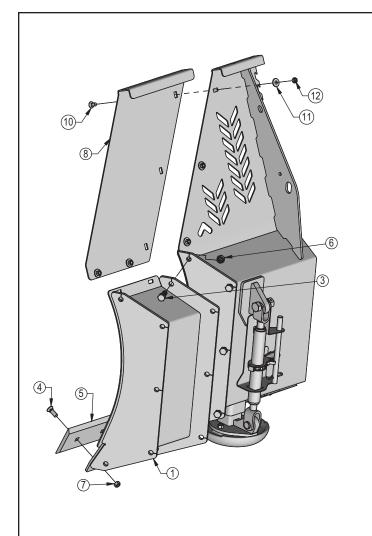


240 U-End Plates (U-End) - 19349-K						
Item	Qty.	Part No.	Description			
1	1	11-18640-L	240 - U-End Plate Brace - Left			
2*	1	11-18640-R	240 - U-End Plate Brace - Right			
3	4	16-20190	5/8" x 2 1/2" Hex Bolt Gr 5 NC			
4	10	16-20219	3/4" x 2-1/4" Hex Bolt Gr 5 NC			
5	6	16-20508	3/4" x 2" Hex Bolt Gr 8 NC			
6	2	44-19349	240 - 1/2" Box End Plates (U-End)			
7	2	44-18645	Lift Hook Washer			
8	4	57-20816	5/8" Flat Washer Grade 8 (USS)			
9	6	70-20597	3/4" Hex Nut Gr 8 NC			
10	10	70-20607	3/4" Hex Center Lock Nut Gr 2 NC			
11	4	70-20646	5/8" Hex Top Lock Nut Gr 5 NC			
Top Ext	Top Ext. for U-End Plates - 19348-K					
Item	Qty.	Part No.	Description			
12	6	16-21124	1/2" x 1" Carriage Bolt Gr 5 NC			

16-21125 1/2" x 1-1/4" Carriage Bolt Gr 5 NC 14 44-19348-L 240 - Top Ext for U-End Plates - Left 15* 44-19348-R 240 - Top Ext for U-End Plates - Right 16 12 57-20744 1/2" Flat Washer 17 12 70-20604 1/2" Hex Center Lock Nut Gr 2 NC

* Parts Not Shown





240 - 1' End Extension Kit - 17525-1-A						
Item	Qty.	Part No.	Description			
1	1	15-17525-1-L	1' End Extension - Left			
2*	1	15-17525-1-R	1' End Extension - Right			
3	10	16-20218	3/4" x 2" Hex Bolt Gr 5 NC			
4	4	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC			
5	2	29-7950-1	1'- 5/8" x 6" Double Bevel Cutting Edge			
6	10	70-20607	3/4" Hex Center Lock Nut Gr 2 NC			
7	4	70-20646	5/8" Hex Top Lock Nut Gr 5 NC			
240 - 1' End Extension Top Extension Kit - 19215-K						

П	240 - 1' End Extension Top Extension Kit - 19215-K						
	Item	Qty.	Part No.	Description			
П							

item	Qty.	Part No.	Description
8	1	15-19215-L	240 1' End Extension Top Extension - Left
9*	1	15-19215-R	240 1' End Extension Top Extension - Right
10	10	16-21124	1/2" x 1" Carriage Bolt Gr 5 NC
11	10	57-20744	1/2" Flat Washer
12	10	70-20604	1/2" Hex Center Lock Nut Gr 2 NC

240 - 2' End Extension Kit - 17525-2-A

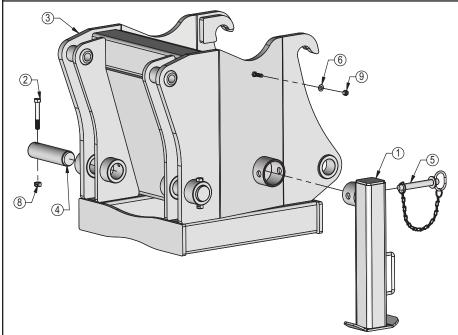
Item	Qty.	Part No.	Description
1*	1	15-17525-2-L	2' End Extension - Left
2*	1	15-17525-2-R	2' End Extension - Right
3	10	16-20218	3/4" x 2" Hex Bolt Gr 5 NC
4	8	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC
5*	2	29-7950-2	2'- 5/8" x 6" Double Bevel Cutting Edge
6	10	70-20607	3/4" Hex Center Lock Nut Gr 2 NC
7	8	70-20646	5/8" Hex Top Lock Nut Gr 5 NC

240 - 2' End Extension Ton Extension Kit - 19216-K

240 - 2' End Extension Top Extension Kit - 19216-K						
Item	Qty.	Part No.	Description			
8*	1	15-19216-L	240 2' End Extension Top Extension - Left			
9*	1	15-19216-R	240 2' End Extension Top Extension - Right			
10	12	16-21124	1/2" x 1" Carriage Bolt Gr 5 NC			
11	12	57-20744	1/2" Flat Washer			
12	12	70-20604	1/2" Hex Center Lock Nut Gr 2 NC			

* Parts Not Shown

NOTE: The FH-440 to 240 Extension is an option for tractors equipped with duals. The extension provides extra clearance between the tires and the blade system. Tire size and row spacing will determine if your system will require the extension.



FH-44	FH-440 to 240 Extension Assy - 40285-A							
Item	Qty.	Part No.	Description					
1	1	11-40610R1	440 To 240 Adapter Stand					
2	2	16-20134	1/2" X 3 1/2" Hex Bolt Gr 5 NC					
3	1	32-40285R2	FH-440 to 240 Extension					
4	2	43-16923R2	240 Pin Pulling Pin					
5	1	43-40453	Hitch Pin with Chain					
6	1	57-20742	3/8" Flat Washer					
7*	1	59-16899-6	Heavy Duty Velcro Strap					
8	2	70-20604	1/2" Hex Center Lock Nut Gr 2 NC					
9	1	70-20612	3/8" Nyloc Nut					

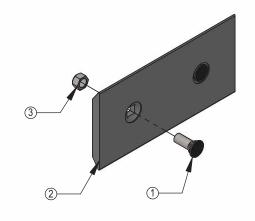
* Parts Not Shown

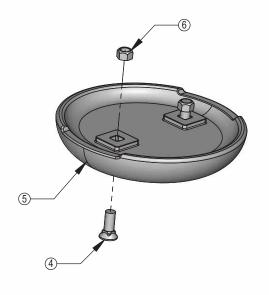
1' - 5/8" x 6" Cutting Edge w/ Hardware Kit - 7950-1K					
Item	Qty.	Part No.	Description		
1	2	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		
2	1	29-7950-1	1'- 5/8" x 6" Double Bevel Cutting Edge		
3	2	70-20646	5/8" Hex Top Lock Nut Gr 5 NC		
2' - 5/	8" x 6" (Cutting Edge	w/ Hardware Kit - 7950-2K		
Item	Qty.	Part No.	Description		
1	4	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		
2	1	29-7950-2	2'- 5/8" x 6" Double Bevel Cutting Edge		
3	2	70-20646	5/8" Hex Top Lock Nut Gr 5 NC		
5' - 5/8	8" x 6"	Cutting Edge	w/ Hardware Kit - 7950-5K		
Item	Qty.	Part No.	Description		
1	10	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		
2	1	29-7950-5	5'- 5/8" x 6" Double Bevel Cutting Edge		
3	10	70-20646	5/8" Hex Top Lock Nut Gr 5 NC		
6' - 5/	8" x 6"	Cutting Edge	w/ Hardware Kit - 7950-6K		
Item	Qty.	Part No.	Description		
1	12	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		
2	1	29-7950-6	6'- 5/8" x 6" Double Bevel Cutting Edge		
3	12	70-20646	5/8" Hex Top Lock Nut Gr 5 NC		
7' - 5/8	8" x 6"	Cutting Edge	w/ Hardware Kit - 7950-7K		
Item	Qty.	Part No.	Description		
1	12	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		
2	1	29-7950-7	7'- 5/8" x 6" Double Bevel Cutting Edge		
3	14	70-20646	5/8" Hex Top Lock Nut Gr 5 NC		
8' - 5/8	8" x 6"	Cutting Edge	w/ Hardware Kit - 7950-8K		
Item	Qty.	Part No.	Description		
1	16	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		
2	1	29-7950-1	1'- 5/8" x 6" Double Bevel Cutting Edge		
3	16	70-20646	5/8" Hex Top Lock Nut Gr 5 NC		
40" 5			1 Oh 1/2 /401 401 Di- J>		
		·	I Shoe Kit (12'-16' Blades) - 15458-K		
Item	Qty.	Part No.	Description		
4	4	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC		

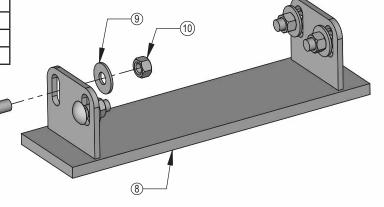
12" R	12" Round Mushroom Skid Shoe Kit (12'-16' Blades) - 15458-K						
Item	Item Qty. Part No.		Description				
4	4	16-21666	5/8" x 1-3/4" Plow Bolt Gr 5 NC				
5	2	50-15458	12" Round Mushroom Skid Shoe				
6	4	70-20646	5/8" Hex Top Lock Nut Gr 5 NC				

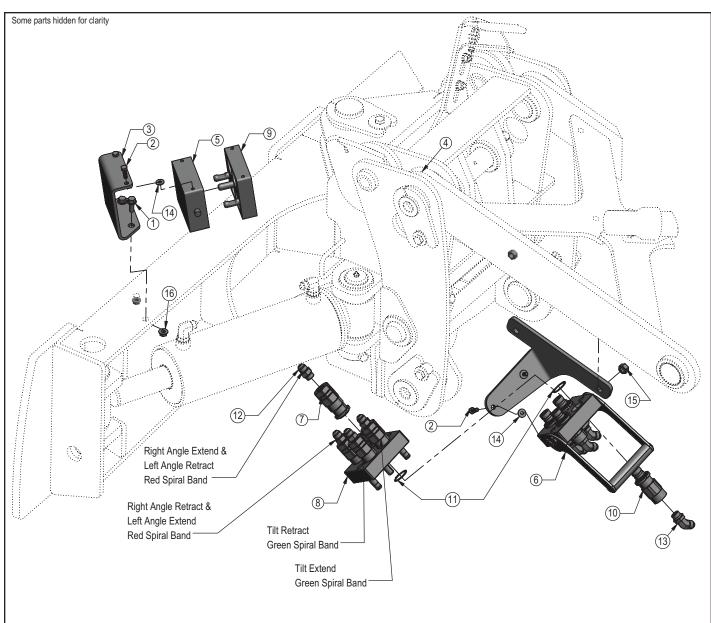
240 Skid Shoe Kit (10' Blades) - 8740-K						
Item	Qty.	Part No.	Description			
7	8	16-21218	3/4" x 2" Carriage Bolt Gr 5 NC			
8	2	50-8740	2X0 Skid Shoe			
9	8	57-20747	3/4" Flat Washer			
10	8	70-20607	3/4" Hex Center Lock Nut Gr 2 NC			

NOTE: Multiple cutting edge kits may be required.



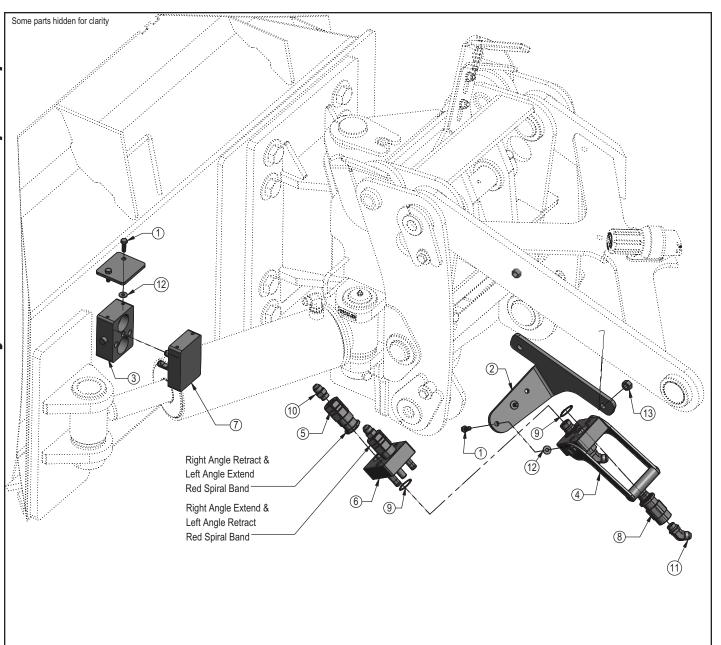






Item No.	Qty.	Part No.	Description
1	2	16-35C616	3/8" x 1" Flanged Bolt
2	4	16-812525	8mm x 1.25mm x 25mm Metric Hex Bolt Gr 10.9
3	1	18-19008	240 Quick Coupler - Parking Station Mount
4	1	18-19011	240 Quick Coupler Mount
5	1	25-18956	Multi-Coupling Plate - 4 Port Parking Station
6	1	25-19864	Multi-Coupling Plate - 4 Port Fixed
7	4	25-19865	Multi-Coupling Plate - Coupler - Female
8	1	25-19866	Multi-Coupling Plate - 4 Port Mobile
9	1	25-19867	Multi-Coupling Plate - 4 Port - Cap
10	4	25-19870	Multi-Coupling Plate - Coupler - Male
11	8	25-40407	Multi-Coupling Plate - Snap Ring
12	4	31-34040	Straight JIC x O-Ring (6400-08-08)
13	4	31-34150	Straight Thread Elbow 45° JIC x O-Ring (6802-8-8)
14	4	57-20740	1/4" Flat Washer
15	2	70-20604	1/2" Hex Center Lock Nut Gr 2 NC
16	2	70-20622	3/8" Flange Hex Nut Gr 5 NC

- Follow the multi-coupler maintenance steps for connecting and disconnecting on pages 23-24.
 After any maintenance, verify that hoses are in their correct position during reinstallation.



Item No.	Qty.	Part No.	Description
1	4	16-812525	8mm x 1.25mm x 25mm Metric Hex Bolt Gr 10.9
2	1	18-19011	240 Quick Coupler Mount
3	1	25-19657	Multi-Coupling Plate - 2 Port Parking Station
4	1	25-19868	Multi-Coupling Plate - 2 Port Fixed
5	2	25-19865	Multi-Coupling Plate - Coupler - Female
6	1	25-19869	Multi-Coupling Plate - 2 Port Mobile
7	1	25-19871	Multi-Coupling Plate - 2 Port - Cap
8	2	25-19870	Multi-Coupling Plate - Coupler - Male
9	4	25-40407	Multi-Coupling Plate - Snap Ring
10	2	31-34040	Straight JIC x O-Ring (6400-08-08)
11	2	31-34150	Straight Thread Elbow 45° JIC x O-Ring (6802-8-8)
12	4	57-20740	1/4" Flat Washer
13	2	70-20604	1/2" Hex Center Lock Nut Gr 2 NC

Follow the multi-coupler maintenance steps for connecting and disconnecting on pages 23-24.
 After any maintenance, verify that hoses are in their correct position during reinstallation.

Before Each Use:

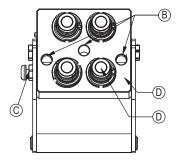
- Disconnect the mobile half from the parking station and the cap from the fixed half.
- 2. Check that there is no contamination (salt, sand, dirt, etc.):
 - A. On the pins.
 - B. Inside the cam.
 - C. In the locking mechanism area.
 - D. On the face of the plates and couplings.
- 3. In case of contamination, remove it with a cloth and/or compressed air.
- Check that there is still a lubricant/anti-corrosion (grease or silicone see Note 1):
 - A. On the pins.
 - B. Inside the cam.
 - C. In the locking mechanism area.
- 5. Connect the mobile and fixed halves together.

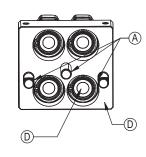
After Each Use:

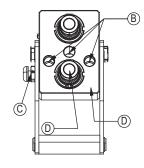
- 1. Disconnect the mobile half from the fixed half.
- 2. Clean all contamination (salt, sand, dirt, etc.) from the following areas:
 - A. On the pins.
 - B. Inside the cam.
 - C. In the locking mechanism area.
 - D. On the face of the plates and couplings.
 - *Use a cloth or compressed air. It is advised to not use water to clean these surfaces
- 3. Apply a lubricant/anti-corrosion (grease or silicone see Note 1):
 - A. On the pins.
 - B. Inside the cam.
 - C. In the locking mechanism area.
- Connect the cap to the fixed half and the mobile half to the parking station.

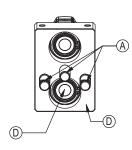
Fixed Half

Mobile Half









Note 1:

When sand and salt are present, or the plates under go a washdown, a heavy duty silicone spray lubricant should be used to replace grease from the factory. The lubricant should help protect from corrosion without collecting dust and contaminants, and will resist washing off when exposed to water.

Recommended Lubricant Brands:

Fluid Film (Aerosol or Non-Aerosol), LPS-2 Heavy Duty Lubricant, or CRC 3-36.



Cleaning The Male Interface Seal:

- Make sure the coupling is securely fastened into the plate or place in a vice.
- . Using a blunt, non-marring tool, depress the valve face until the seal is exposed. Insert a bent metal wire between the valve face and the body of the coupling. <u>Use caution not to damage or scratch the seal when inserting the wire.</u>
- Inspect the seal and interior surfaces for contamination.

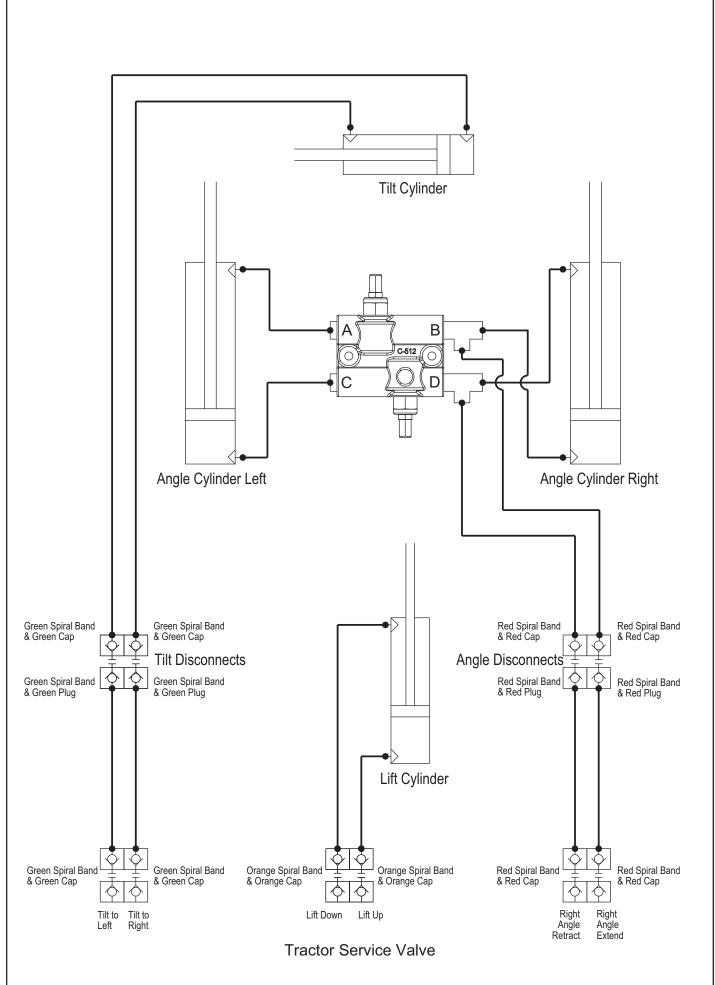
- In case of contamination, carefully wipe surfaces with a soft cloth, or use compressed air to blow the contamination out. Do Not press hard on the seal as contamination can scratch the seal surface.
- Using a non-marring tool, depress the valve face and remove the metal wire. Release the valve to the flush position.

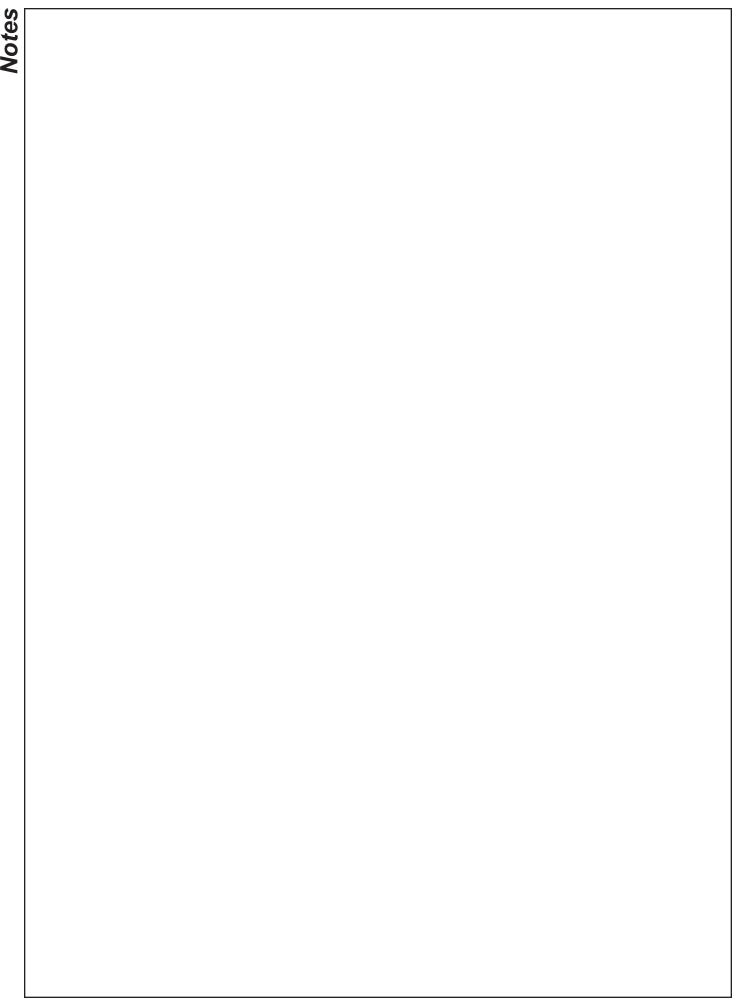


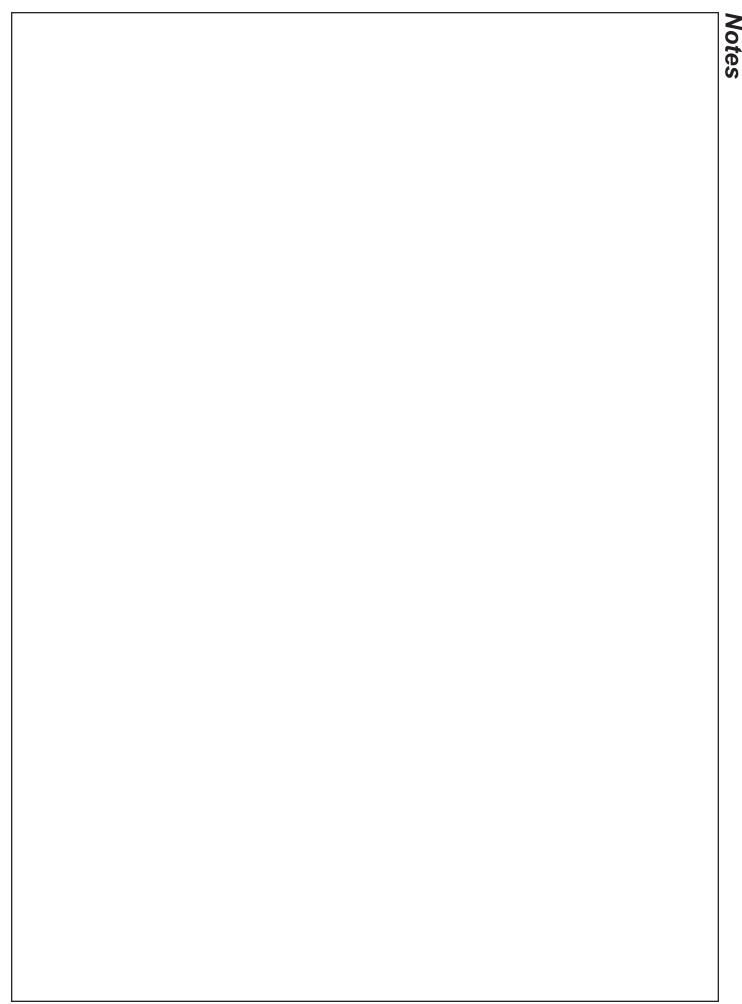
Cleaning The Female Bushing:

- Make sure the coupling is securely fastened into the plate or place in a vice.
- Using a non-marring tool, depress the outer ring to expose the bushing. There is no need to expose the valve seal, so stop pressing before the valve is opened.
- 3. Inspect the interior body and bushing surfaces for contamination.

- In case of contamination, carefully wipe surfaces with a soft cloth, or use compressed air to blow the contamination out.
- 5. Release the outer ring so that it returns to the flush position.







Contact Us

As always, if you have any questions about your AG240 Dozer and FH-440 Front Hitch or other products made by Grouser, feel free to contact us.

Grouser Products

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Improvements

Grouser Products Inc. is continually striving to improve its products. We reserve the right to change prices, specification, or equipment at any time without notice. We also reserve the right to make improvements or changes when it becomes practical and possible to do so without incurring any obligation to make changes or additions to the equipment sold previously.

Warranty

Grouser Products warrants to the original purchaser of each item that the product be free from defects in material and workmanship under normal use and service for a period of two years. If such equipment is found to be defective within two years, it is the obligation of Grouser Products under this warranty to repair or replace (exclusive of the cost of labor and transportation), any equipment or parts, in the judgment of Grouser Products to be defective in material or workmanship.

All equipment or parts claimed to be defective in material or workmanship must be made available for inspection at the place of business of a dealer authorized to handle the equipment covered by this warranty, or, upon request by Grouser Products, shipped to the Grouser Products factory in West Fargo, North Dakota. Grouser Products shall have no obligation to bear the cost of labor or transportation in connection with replacement or repair of any such defective parts in the setup process.

This warranty covers only defects in material and workmanship. It does not cover depreciation or damage caused by normal wear, accident, improper assembly, improper adjustments, improper maintenance including lack of proper lubrication, or improper use. Therefore, Grouser Products liability under this warranty shall not be effective or actionable unless the equipment is assembled, maintained and operated in accordance with the operating instructions accompanying the equipment. Grouser Products shall have no liability if the equipment has been altered or reworked without the written authorization of Grouser Products.

Grouser Products' parts, which are furnished under this warranty and properly installed, shall be warranted to the same extent as the original parts under this warranty if, and only if, such parts are found to be defective within the original warranty period covering the original equipment.

