

12-20 (V5) - Steiger & New Holland T9 Owner's Manual & Parts Book

For Models:

Case Steiger Wheeled - 500, 550, 600 Case Steiger Quad - 450, 500, 550, 600

New Holland - T9.615, T9.670

Purchase Date

Serial Number

Model Number

Tractor Model

Dealer

PN: 63-17276

Date 1-13-2014

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To The Owner

This manual contains information concerning the operation, adjustment, and maintenance of the 12-20 blade assembly. You have purchased dependable, long lasting equipment, but only by proper care and operation can you expect to receive the performance and long service built into our products. Please have all operators read this manual carefully and keep the manual available for ready reference. If you have any questions or concerns, contact Grouser Products.

Angle / Tilt Function Abbreviation Key

HAHT	Hydraulic Angle - Hydraulic Tilt	6-Way
HANT	Hydraulic Angle - No Tilt	4-Way
NAHT	No Angle - Hydraulic Tilt	4-Way
NANT	No Angle - No Tilt	2-Way

Unpacking Components

Unstrap and remove the lift frame, hoses, top arms, and any boxes of hardware from the undercarriage. If any components are missing, call Grouser.

Caution:

- Always use precaution when working around any equipment.
- · Always wear safety glasses.
- Follow tractor manufacturer's safety guidelines when installing this product.
 - NOTE: For all steps below, see diagram on Page 4 for quad tractors or Page 5 for wheeled tractors for clarification.
 - 1. Read all instructions prior to installation.
 - 2. Remove existing toolboxes, front weights, and tow cable holder if equipped. Tow cable can be reinstalled later if a bracket is purchased from Grouser Products.
 - 3. If the bottom covers (PN: 44-14382-R,L) are not factory installed, attach to U/C with 1/2" x 1-1/4" bolts (PN: 16-20125) and 1/2" flat washers (PN: 57-20744).
 - 4. If the bulkhead bracket (PN: 18-14370 or 18-15576) is not factory installed, attach to the U/C with 2 1/2" x 1-1/4" bolts (PN: 16-20125) and 1/2" flat washers (PN: 57-20744). See pages 7 and 22-27 for bulkhead fittings, steel lines, and hose locations.
 - If bulkhead covers (PN: 44-14375 & 44-14376 or 44-15591) are not factory installed, verify that all hydraulics are installed correctly and then attach the covers to the U/C with 6 - 1/2" x 1-1/4" bolts (PN: 16-20125) and 1/2" flat washers (PN: 57-20744).

Note: If rear 1" bolts are installed on the undercarriage, back out so the undercarriage will fit on the rear plate on the tractor frame.

- 6. Position the undercarriage (U/C) under tractor and center on the frame of the tractor.
- 7. Lift the rear of the U/C up and set the top plates of the U/C on the cross member. Push the U/C back until the vertical push plates are firmly against the cross member. Lift the U/C to within 3/4" of touching the tractor frame.
- 8. Insert 8 20mm x 90mm bolts (PN: 16-1510) with a 3/4" hardened flat washer (PN: 57-20757) on each bolt through the front holes of the tractor frame that line up with the front vertical holes of the U/C.
- 9. After all bolts are through the tractor frame and U/C, attach with a 3/4" heavy washer (PN: 57-3680) and a 20mm nut (PN: 70-20872-10). Verify that the rear of the U/C is firmly against the cross member.
- 10. At the rear of the undercarriage and pivot area of the tractor, hook the rear hose routing bracket to the tractor frame and bolt to the rear of the undercarriage with 1" x 3" bolts (PN: 16-20562), 1" hardened flat washers (PN: 57-20759), and 1" nuts (PN: 70-20599). The nut will bit between the plates on the brackets. See attached diagram for clarification.
- 11. Center the bracket on the undercarriage and tractor as close as you can. Torque the 1" bolts to 600 ft lbs. There can be a gap between the bracket and undercarriage.
- 12. Tighten the rear vertical bolts up tight against the bottom of the tractor frame. Torque the rear vertical 1" bolts to 500-600 ft lbs.
- 13. Tighten front vertical bolts until frame is tight vertically.

NOTE: If your tractor is a quad tractor, continue with Step #12. If your tractor is a wheeled tractor, go to Step #13. If your tractor has ATI Tracks installed, go to Step #15.

- 14. For a quad tractor, attach the upper support arms (PN: 11-15140-R,L) to the U/C with 2 1" x 3-1/2" bolts (PN: 16-20564), 4 1" heavy duty flat washer (PN: 57-20819), and 2 1" nuts (PN: 70-20599) on each side of the U/C. Continue with Step #16.
- **15.** For a wheeled tractor, attach the upper support arms (PN: 11-14548-R,L) to the U/C with 2 1" x 3-1/2" bolts (PN: 16-20564), 4 1" heavy duty flat washer (PN: 57-20819), and 2 1" nuts (PN: 70-20599) on each side of the U/C. Continue with Step #16.
- 16. Attach the upper support arms to the tractor with a 1-1/4" x 3-1/2" bolt (PN: 16-20896) and 1-1/4" flat washer (PN: 57-11671) on each side. Continue with the next Note.
- **17.** For a tractor with ATI tracks, attach the upper support arms (PN: 11-15615-R,L) to the U/C with 2 1" x 3-1/2" bolts (PN: 16-20564), 4 1" heavy duty flat washer (PN: 57-20819), and 2 1" nuts (PN: 70-20599) on each side of the U/C.
- 18. Attach the upper support arms to the tractor with a 1-1/4" flat washer (PN: 57-11671) and 1-1/4" nut (PN: 70-20981) on each side.

NOTE: If your tractor is a quad tractor, continue with Step #19. If your tractor is a wheeled tractor or has ATI Tracks, go to Step #22.

- **19.** Remove the 2 24mm bolts and spacers from front axle on the left and right side of the tractor. Discard the spacers.
- 20. Attach the quad yoke brackets (PN: 18-14550-R,L) to each side of the U/C with 6 1" x 2-1/2" bolts (PN: 16-20560) and a 1" x .375" thick washer (PN: 57-3682) on each bolt.
- 21. Dip the previously removed 24mm bolts in W30 oil and install the yoke brackets with the 24mm bolt and a heavy flat washer (PN: 57-20819) on each bolt. Continue with Step #24.
- 22. Attach the wheeled side plates (PN: 44-14383) to each side of the U/C with 4 1" x 2" bolts (PN: 16-20558) and a 1" x .375" thick washer (PN: 57-3682) on each bolt.
- 23. Use 2 1" x 3" bolt (PN: 16-20562) with a 1" x .375" thick washer (PN: 57-3682) on each bolt to attach the plates to the tractor frame. After the bolts are through the frame, attach with another 1" x .375" thich washer and a 1" nut (PN: 70-20599) on each bolt.
- 24. Once all bolts have been installed, torque the rear 3/4" bolts to 257 ft lbs., torque the front 20mm bolts to 432 ft lbs., the 1-1/4" bolts to 1,105 ft lbs., the 1" bolts to 903 ft lbs., and the 24mm bolts (for quad tractor) to 555 ft lbs.
- 25. Bolt the side bolt cover (PN: 44-15575) to both sides of the undercarriage with 1/2" x 1-1/4" bolts (PN: 16-20125) and a 1/2" flat washer (PN: 57-20744) on each bolt.
- 26. After first 8 hours of use, re-torque all bolts.
- 27. Check all fasteners regularly to ensure proper operation of equipment.

* Parts	(1) Not Sh	SCA	ALLA TALLA LE 1 : 17 (Construction of the second of the	
Item #C	3 for Ag C for Tov	Pro 12-20 w Cable Support	Assy Only	
Item No.		Part No.	Description	_
1	1	11-15140-L 11-15140-R	Upper Undercarriage Support Arm Left - Quad Upper Undercarriage Support Arm Right - Quad	
3	1 8	11-15140-R 16-1510	20mm x 2.5mm x 90mm Metric Hex Bolt Gr 10.9 ZC	
4	20	16-20125	1/2" x 1-1/4" Hex Bolt Gr 5 NC	
5	2	16-20558	1" x 2" Hex Bolt Gr 8 NC	/ 11/2
6		16-20560	1" x 2-1/2" Hex Bolt Gr 8 NC	
7	2	16-20562	1" x 3" Hex Bolt Gr 8 NC	OF it is a large the
9		16-20564 16-20896	1" x 3-1/2" Hex Bolt Gr 8 NC 1-1/4" x 3-1/2" Hex Bolt Gr 5 NC Zinc	
10A	1	18-14370	Bracket, Bulkhead - AG Wide Frame	The second secon
10B*		18-15576	Bracket, Bulkhead - 12-20 Slider	
11	1	18-14550-L	Steiger Quad Yoke Bracket - Left	
12	1	18-14550-R	Steiger Quad Yoke Bracket - Right	
13 14C	1	18-17280 43-16764	770 CNH Rear UC Hose Routing Bracket Lynch Pin	
140		43-16764 44-14375	Plate, Top Bulkhead Cover - AG Wide Frame	
16A	1	44-14376	Plate, Bottom Bulkhead Cover - AG Wide Frame	1 Am
16B*	1	44-15591	Plate, Bottom Bulkhead Cover - 12-20 Slider	
17		44-14382-L	Plate, Bottom Cover Left - AG Wide Frame	
18 19	1	44-14382-R 44-15575	Plate, Bottom Cover Right - AG Wide Frame Plate, 770 Undercarriage Side Bolt Cover	Eta M
20C		44-15585	770 Steiger / NH Tow Cable Holding Plate	
21	1	54-14360	770 Steiger / T9 Large Frame Quad and Wheeled UC	-25
22		57-11671	1-1/4" Flat Washer	
23 24		57-20744 57-20757	1/2" Flat Washer 3/4" Hardened Flat Washer - 1-1/2" OD	
24		57-20757 57-20759	1" SAE Hardened Flat Washer - 2" OD	
	2	0.00		
26		57-20819	1" Flat Washer Heavy Duty Gr 8 (USS)	
27	12 8	57-20819 57-3680	2.00 OD X .75 ID x .375" Washer CZ Plated	TITLE:
27 28	12 8 6	57-3680 57-3682	2.00 OD X .75 ID x .375" Washer CZ Plated 2.50 OD X 1.00" ID x .375" Washer CZ Plated	
27	12 8 6 6	57-3680 57-3682 70-20599	2.00 OD X .75 ID x .375" Washer CZ Plated	770 Steiger Quad UC Assy.

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Item #/ Item #I Item # Item #I	s Not Shown A for Wheeled Tracto B for NH Quad C for Ag Pro 770 D for Ag Pro 12-20 E for Tow Cable Supp	s	
No. 1A 2A 1B* 2B* 3 4 5 6 7 8A 9C 9D* 10 11E 12 13D* 14 15 16 17 18E 19 20A 20B 21 22 23 24 25	Qty. Part No. 1 11-14548 1 11-14548 1 11-14548 1 11-14548 1 11-14548 1 11-15615 8 16-1510 20 16-20125 6 16-2058 4 16-20564 2 16-20896 1 18-14370 1 18-15576 1 18-15576 1 18-14370 1 18-15576 1 18-14370 1 18-15576 1 44-14382 2 44-14382 1 44-14382 2 44-15555 1 44-15585 1 54-14360 4 57-11671 2 57-20759 8 57-20759 8 57-20819 8 57-3680	R Upper Undercarriage Support Arm Right, Wheeled L Upper Undercarriage Support Arm Left, NH Quad R Upper Undercarriage Support Arm Right, NH Quad 20mm x 2.5mm 90mm Metric Hex Bolt Gr 10.9 ZC 1/2" x 1-1/4" Hex Bolt Gr 5 NC 1" x 2" Hex Bolt Gr 8 NC 1" x 3" Hex Bolt Gr 8 NC 1" x 3-1/2" Hex Bolt Gr 8 NC 1-1/4" x 3-1/2" Hex Bolt Gr 5 NC Zinc Bracket, Bulkhead - 770 Wide Frame Bracket, Bulkhead - 12-20 Slider 770 CNH Rear UC Hose Routing Bracket Lynch Pin Plate, Bottom Bulkhead Cover - AG Wide Frame Plate, Bottom Bulkhead Cover - 12-20 Slider L Plate, Bottom Bulkhead Cover - AG Wide Frame Plate, Bottom Bulkhead Cover - AG Wide Frame	
26 27 28 29	8 57-3682 8 70-20599 8 70-20872- 2 70-20981	2.50 OD X 1.00" ID x .375" Washer CZ Plated 1" Hex Nut Gr 8 NC	^{TITLE:} 770 Steiger / T9 Wheeled UC Assy.

Assembling Lift Components

Now that the undercarriage is installed, some assembly of components is necessary. Follow the steps listed below. Refer to Page 7 for the correct hardware and orientation of parts.

- 1. Remove all pins on each side of the undercarriage.
- 2. Position the lift frame between the two plates on both sides of the undercarriage.
- 3. Align the lift frame to the bottom holes of the undercarriage and attach with the proper pins and hardware.
- 4. Lift the end of the cylinders up and attach to the undercarriage with the proper pins and hardware.
- 5. Attach the top arms to the top of the undercarriage with the proper pins and hardware.
- 6. Remove the male quick attaches that are in the female quicks on the blade, angle frame, or tilt frame.
- 7. Attach the male quick attaches to the lift frame and top arms with the proper pins and hardware.
- 8. If the quick couplers and coupler mount are not already attached to the left top arm, attach the coupler mount to the left top arm with 4 3/8" flange nuts. See Page 22 for proper orientation.
- 9. Take the lift hoses that are already attached to the furthest forward fittings on the left and right side of the undercarriage and attach them to the lift cylinders.

Note: For Step #10-15, refer to Page 22-27 for further information on hose routing and hose positions. The amount and location of the female couplers is determined by functions the blade is set up for.

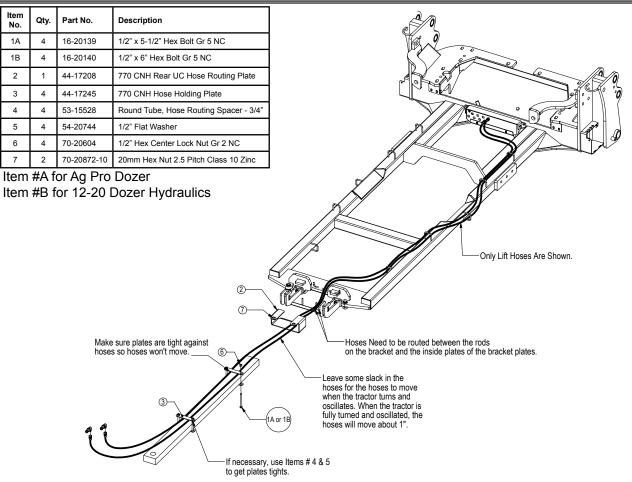
- 10. Run the remaining hoses thru the hose loop on the top arm and attach a 90° fitting to all the hoses.
- 11. Install a female quick coupler onto each 90° fitting from the previous step.
- 12. Install each coupler into the designated hole on the coupler mount and hold them in place with the coupler retainer plate, 3/8" x 3/4" bolts and 3/8" flange nuts.
- 13. Take the long hoses and attach each one to their designated fitting at the center of the undercarriage.
- 14. Route the hoses thru the hose loops on the undercarriage.
- 15. Continue to route the hoses thru the tractor. Keep away from all moving parts. Refer to Page 8 for hose routing.
- 16. If applicable, attach the wire harness to the coupler mount on the top arm with 1/4" bolts and 1/4" nuts. Run the other end of the wire harness up into the cab of the tractor.
- 17. Locate the keyed power supply. Connect the red wire to positive and the black to ground. Attach the 2-lever plug to the wire harness or install provided switch (PN: 69-14679) into an open switch hole in the right overhead console or another convenient place in the tractor. Connect the wire harness to the switch. If you have the 2 lever angle system, attach the 2-lever plug (PN: 69-14683) to the wire harness.
- 18. Pull the pin puller handle on the left side of the quick attach system towards the outside of the blade to open the quick attach system. Refer to Page #14-15 for further clarification on the quick attach system.
- 19. Drive the tractor forward slowly until the top edge of the male quick attach is under the top lip of the female quick attach already on the blade assembly.
- 20. Lift the male quick attaches up till the blade is off the ground and the female quick attaches are against the front of the male quick attaches.
- 21. Shut off machine and set the parking brake.
- 22. Move the pin puller handle on the left side of the blade assembly towards the center of the blade to lock the blade in place and use the latch to the lock the handle in place. If applicable, turn up the blade stands on the blade.
- 23. Plug the male couplers into the female couplers on the top arm. Refer to Page #26-27 for proper coupler locations for all functions. If applicable, plug the male blade break away end of the wire harness into the female blade break away end of the wire harness on the top arm.
- 24. Refer to Page #31 for clarification on the wire harness ends.

Initial System Startup

Start the tractor and run the blade thru all the functions. If any function does not work properly, bleeding of the system may be required. If problem still persists, call Grouser Products.

NOTE: When overhier vertex	If a bolt is preserved washers (PN: 57 Nyloc nut (PN: 57 Nyloc nut (PN: 70)	7-20743), a 7/16" 70-20613) and a old hoses in the hose loop						
NDTE: When ordering registion Order Orde	washers (PN: 57 Nyloc nut (PN: 7 velcro strap to h	7-20743), a 7/16" 70-20613) and a old hoses in the hose loop						
2 1 11-14740-R Top Arm - Right 3 2 1 10-20002 1/4" x 3/4" Kool Gr 5 NC 4 4 16-20227 3/4" x 1-1/2" Hot Bolt Gr 5 NC 5 6 16-20227 3/4" x 1-1/2" Hot Bolt Gr 5 NC 6 2 16-20227 3/4" x 1-1/2" Hot Bolt Gr 5 NC 7 8 19-13515 3/4" N - 1/2" Hot Bolt Gr 5 NC 7 8 19-13515 3/4" N - 1/2" Hot Bolt Gr 5 NC 7 8 19-13515 3/4" N - 1/2" Hot Bolt Gr 5 NC 7 8 19-13515 3/4" N - 1/2" Hot Bolt Gr 5 NC 7 8 19-13515 3/4" ID - Non Rotating Pin Spacer Bushing 9 2 2-634738 4/20 Long Cylinder - Bushed Tube Erds (6/47267) 10 2 31-1499-10-8 Straight JIC x O-Ring (6400-8-8) 11 2 31-4400-10-8 Straight JIC x O-Ring (6400-8-8) 12 2 31-6400-10-8 Straight JIC x O-Ring (6400-8-8) 13 1 32-18950 770 Round Tube wiGuard Lift Frame 14 <td></td> <td></td> <td></td> <td></td> <td>-9 Item</td> <td></td> <td><u>(</u>)</td> <td> </td>					-9 Item		<u>(</u>)	
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Hose Routing



- 1. Attach the rear hose routing plate (PN: 44-17208) to the tractor frame behind the pivot point and before the drawbar. There will be 2 bolts sticking down. Attach with a 20mm nut (PN: 70-20872-10) on each side. Make sure the lip of the plate is facing towards the front of the tractor. See picture below for clarification.
- 2. Check all fasteners regularly to ensure proper operation of equipment.

For the following steps, refer to the hose routing diagram for further clarification.

- 3. Attach the end of the hoses that don't have cordura to the front of the undercarriage where all the steel lines come to the center of the undercarriage. The cordura should start close to the end of the undercarriage.
- 4. Route all the hoses from the front of the undercarriage, thru the hose loops on the undercarriage and thru the large loop at the rear of the undercarriage. Send hoses thru the bracket at the pivot point but stay on the outside of the rods that are by the center large nut on the tractor. The hoses should be between the rods on the bracket and the inside plates of the bracket.
- 5. Route the hoses thru the hose routing plate that was installed in Step #1.
- 6. Use Zip Ties to group some hoses on the left and right side of the hose routing plate. Strap the zip Ties over the top part of the routing plate that is bolted to the tractor frame to keep the hoses towards the outside of each side of the routing plate.
- 7. Continue to route the hoses down the top of the drawbar to the back of the tractor where you can plug them into the tractor SCV Ports.
- 8. Strap the hoses to the drawbar with a set of hose holding plates (PN: 44-17245) in 2 locations. Place 1 set as close to the front of drawbar as possible and the other behind the axle before the hoses would be routed upwards to be plugged in.
- 9. Make sure to keep some slack in the hose between the pivot point of the tractor and the first set of hose holding plates. The hoses will move when the tractor moves and oscillates.
- 10. For each set of plates, use 2 1/2" x 5-1/2" bolts (PN: 16-20139) and 2 1/2" nuts (PN: 70-20604). If you have a 12-20 dozer, use 1/2" x 6" bolts (PN:16-20140) instead. Put the bolts in from the bottom with the nuts on the top.
- 11. Tighten the 1/2" nuts so the hoses are tight and don't move. If you have the nuts as far as they go and you can't get the plates tight against the hoses, use the provided 3/4" spacers (PN:34-15528) and a 1/2" washer (PN: 57-20744) between the plates and the nuts to get everything tight against the top of the drawbar.
- 12. Make sure you still have some slack in the hoses by the pivot area so the hoses don't get pulled too tight when the tractor moves but don't make them too lose that they will get caught on any debris. Turn the tractor and oscillate the tractor to verify there is enough slack.
- 13. After first 8 hours of use, re-torque all bolts.
- 14. Check all fasteners regularly to ensure proper operation of equipment.
- 8

Electric Hydraulic Angle System Operating Instructions

If your Grouser blade was purchased with the Electric Hydraulic Angle Option, you will have the ability to angle the blade 30 degrees left or right. To achieve these angles, the two cylinders are designed to operate independently of each other through an electric diverter valve. To angle the blade to the left, actuate the tractor hydraulic control lever in the cab with the diverter valve un-powered. Then fully retract. To angle the blade to the right, apply power to the diverter valve and then actuate the tractor hydraulic control lever. Always retract cylinders fully prior to switching functions. If a cylinder fails to retract fully, clear any possible obstruction.

2-Lever Angle System Operating Instructions

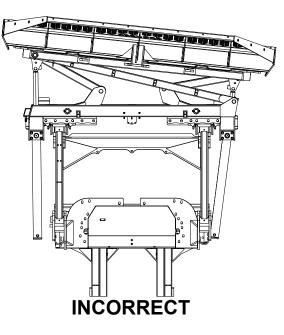
If your Grouser blade was purchased with the 2-Lever Hydraulic Angle Option, you will have the ability to angle the blade 30 degrees left or right. To achieve these angles, the two cylinders are designed to operate independently of each other with the use of 2 tractor hydraulic control levers and a 2-lever angle valve. To angle the blade to the left or right, actuate the tractor hydraulic control lever corresponding to the left or right cylinder. Only one cylinder can be extended at a time.

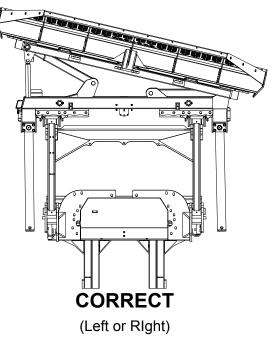
CAUTION: Do not bypass the hydraulic valve and plumb each cylinder to separate valves on the tractor.

To ensure proper use and life of equipment, it is recommended to have both cylinders closed for straight ahead dozing and only one cylinder partially or fully extended for angled dozing as shown in the diagrams below. If the angle system is not used correctly, damage may occur.

Please contact Grouser Products with any questions by:

Phone - 701-282-7710 or 800-747-6182; Fax - 701-282-8131





Angle Position Sensor Adjustment

The angle position sensor is set from the factory. If the system does not function correctly, verify the gap between the sensor and the plate and the position of the sensor. If any adjustments are necessary, follow the instructions below.

With cylinder retracted, verify that the proximity sensor is in the center of the plate that is on the cylinder end. To adjust the spacing between the plate and the sensor, loosen one of the nuts and turn the other nut till the spacing between the plate and the sensor is between 3/16" and 3/8". Once the correct spacing is achieved, tighten the locking nut.

Skid Shoe Adjustment:

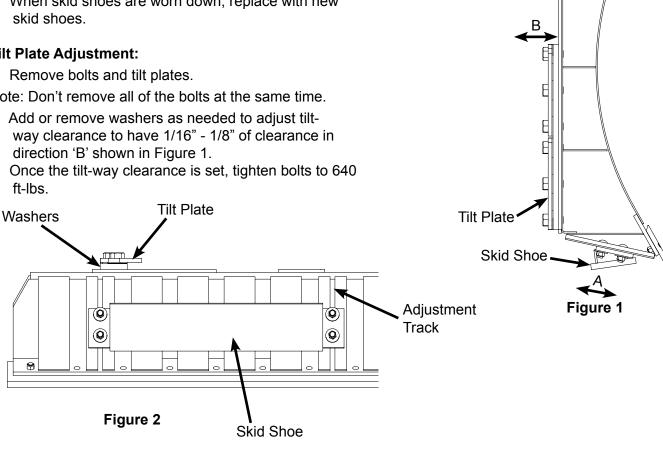
- 1. Raise and secure blade to access skid shoe bolts and nuts.
- 2. Loosen nuts and set skid shoe depth by sliding the shoe back and forth in direction 'A' shown in Figure 1.
- 3. Once the depth is set, tighten bolts to 150 ft-lbs.
- 4. When skid shoes are worn down, replace with new skid shoes.

Tilt Plate Adjustment:

1. Remove bolts and tilt plates.

Note: Don't remove all of the bolts at the same time.

- 2. Add or remove washers as needed to adjust tiltway clearance to have 1/16" - 1/8" of clearance in direction 'B' shown in Figure 1.
- 3. Once the tilt-way clearance is set, tighten bolts to 640 ft-lbs.



Torque Specifications

All bolts should be tightened to the specifications that are stated. If specifications are not stated, follow torque charts below.

	Torque - Dry (ft–lbs)					
	SAE Grade 5 SAE Grade 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

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

- Inspect all equipment before operation for existing or potential damages.
- Lubricate all joints with high quality grease.
- Inspect and tighten all bolts to torque specifications on page 10.
- Check replaceable cutting edge for wear ensuring there is enough material to prevent permanent damage to the blade.
- Make sure all non-rotating pins are secured properly.
- Check hydraulic cylinders and hoses for damage or leaks. For replacement parts, see hydraulic pages for your specific system.
- Check skid shoes for wear and replace if necessary. For adjustment, see page 10.
- · Inspect all tilt-ways for aggressive wear. See page 10 for tilt plate adjustment.

Safety Precautions

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 to these precautions, please follow all safety and operational instructions of your tractor manufacturer.

The Dozer:

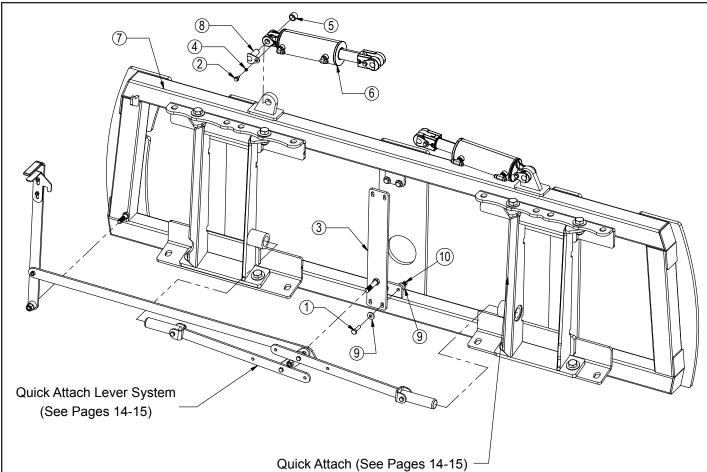
- 1. The 12-20 Dozer should be operated only by those who are responsible and instructed to do so.
- 2. Read the owner's manual carefully before using this equipment. Lack of operating knowledge can lead to accidents.
- 3. Keep the dozer maintained in reliable and satisfactory condition to ensure your 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.

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.
- 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.

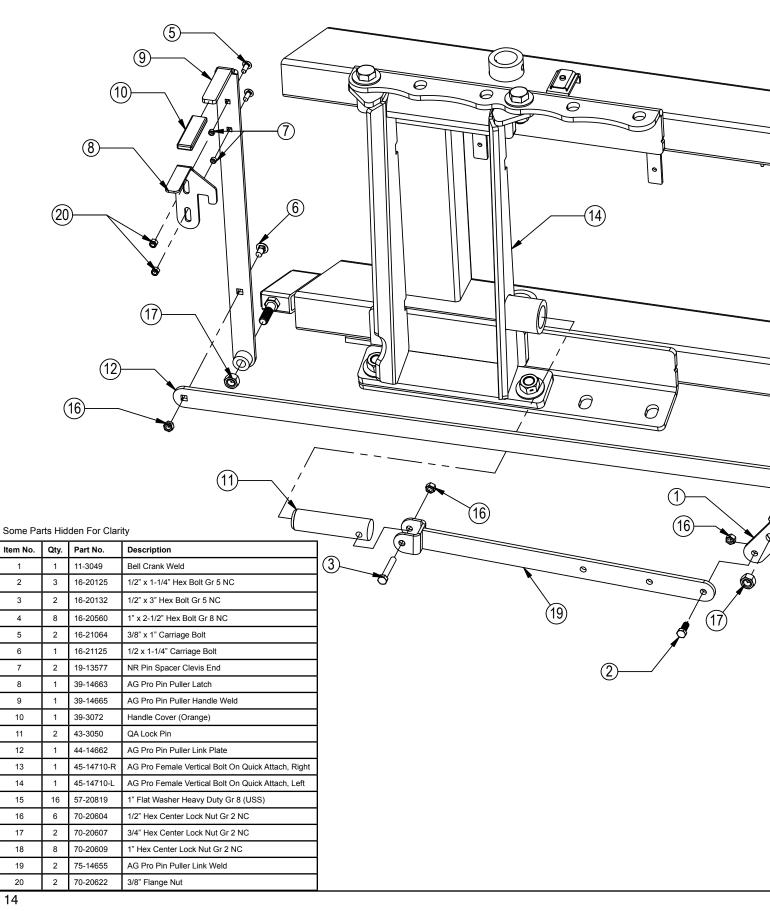
Storing the Dozer:

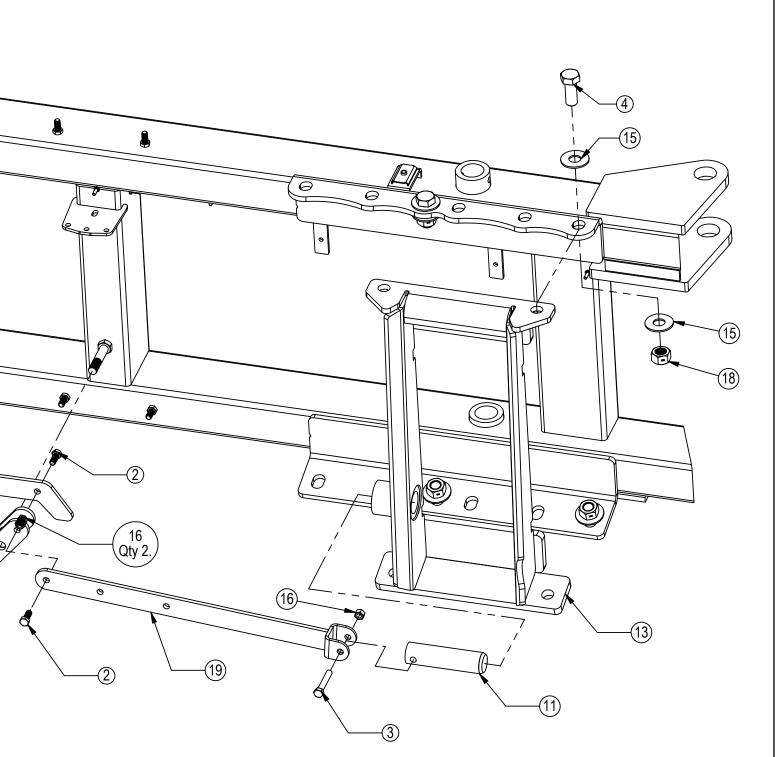
- 1. Thoroughly clean the inside and outside of the dozer before storage. Use paint where necessary to prevent rust.
- 2. Check the dozer for worn or damaged parts. Install new parts as required.
- 3. Lubricate all pins and joints.



ltem No.	Qty.	Part No.	Description
1	4	16-20128	1/2" x 2" Hex Bolt Gr 5 NC
2	4	16-35C612	3/8" x 3/4" Flanged Bolt
3	1	18-14658	NAXT Center Bracket
4	4	19-13577	NR Pin Spacer Clevis End
5	2	19-7774	1" x 1" Spring Bushing
6	2	26-34711	4 x 8 Cylinder w/ Cast Clevis Ends
7	1	32-16980	12-20 NAHT Tilt Frame
8	4	43-13580	1" Clevis Bolt In Pin
9	8	57-20744	1/2" Flat Washer
10	4	70-20604	1/2" Hex Center Lock Nut Gr 2 NC

	Not D	rawn To Sca	ale Av			Item No.	Qty.	Part No.	Description
						1	2	25-34322	Tappet Quick Coupler Male
			Ø			2*	2	25-3453	Pioneer Dust Cap Tilt (Green)
						3*	2	25-3454	Pioneer Dust Plug Tilt (Green)
				5		4	2	26-34711	4 x 8 Cylinder W/ Cast Clevis Ends
			(CHP) 🗗 👗	-		5	2	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-8)
		8				6	2	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)
						7	2	31-34060	Branch Tee JIC x O-Ring (6803-8-8-8)
		Æb.	0 / /			8	2	35-30022	39" x 3/8" -8JIC/-8JIC Hose
(4)	~	/ Ľ				9 10	1	35-30121 35-30125	35" x 1/2" -8JIC/-8JIC Hose 48" x 1/2" -8JIC/-8JIC Hose
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9—						\sum	on th base	e cylinder is end of the	dering cylinder seal kits, the part number s needed. The number is stamped on the cylinder opposite of the hydraulic ports.
						~O/	No. Cylii		Description
							26-34	49-122	71 Seal Kit 4 x 8 (647135) Nitrided Rod, Clevis Ends
				~					
						2	6		
tem No.	Qty.	Part No.	Description	Ŭ (
No. 1	16	16-21218	3/4" x 2" Carriage Bolt Gr 5 I						
No.	-								
No. 1	16	16-21218	3/4" x 2" Carriage Bolt Gr 5 I						
No. 1 2	16 3	16-21218 16-35C612	3/4" x 2" Carriage Bolt Gr 5 I 3/8" x 3/4" Flanged Bolt						
No. 1 2 3	16 3 4	16-21218 16-35C612 18-14670	3/4" x 2" Carriage Bolt Gr 5 I 3/8" x 3/4" Flanged Bolt 770- Trunnion Mount Bracke						
No. 1 2 3 4	16 3 4 1	16-21218 16-35C612 18-14670 18-1701	3/4" x 2" Carriage Bolt Gr 5 f 3/8" x 3/4" Flanged Bolt 770- Trunnion Mount Bracke AG Pro Hydraulic Valve Cov						
No. 1 2 3 4 5	16 3 4 1 1	16-21218 16-35C612 18-14670 18-1701 56-14680	3/4" x 2" Carriage Bolt Gr 5 f 3/8" x 3/4" Flanged Bolt 770- Trunnion Mount Bracke AG Pro Hydraulic Valve Cov Logic Hydraulic Angle Valve						
No. 1 2 3 4 5 6	16 3 4 1 1 2	16-21218 16-35C612 18-14670 18-1701 56-14680 57-20744	3/4" x 2" Carriage Bolt Gr 5 I 3/8" x 3/4" Flanged Bolt 770- Trunnion Mount Bracke AG Pro Hydraulic Valve Cov Logic Hydraulic Angle Valve 1/2" Flat Washer						



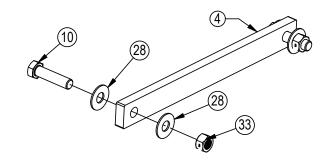


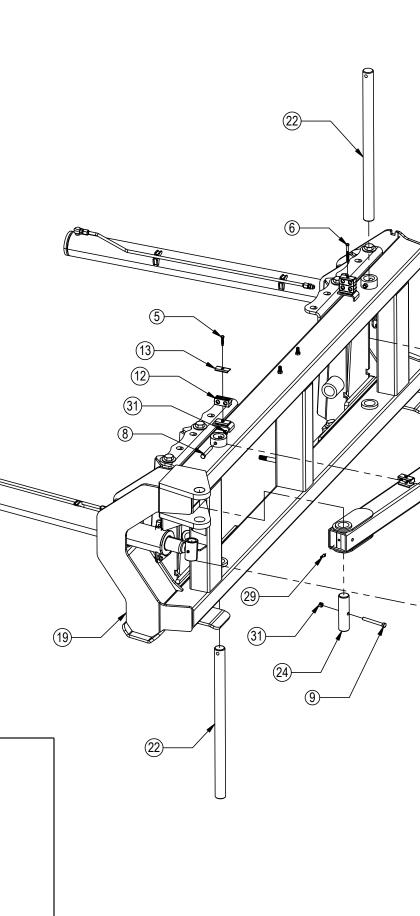
ltem No.	Qty.	Part No.	Description
1	1	11-14640-L	770 Series Angle Arm Left
2	1	11-14640-R	770 Series Angle Arm Right
3	1	11-14650	770 Series Stabilizer Arm
4	1	14-9366	Non Tilt Bar
5	5	16-20036	5/16" x 1-1/2" Hex Bolt Gr 5 NC
6	1	16-20043	5/16" x 3-1/4" Hex Bolt Gr 5 NC
7	2	16-20220	3/4" x 2-1/2" Hex Bolt Gr 5 NC
8	2	16-20424	1/2" x 3-1/2" Hex Bolt Gr 8 NC
9	3	16-20427	1/2" x 4-1/2" Hex Bolt Gr 8 NC
10	2	16-20564	1" x 3-1/2" Hex Bolt Gr 8 NC
11	4	16-35C612	3/8" x 3/4" Flanged Bolt
12	5	18-3074	Hose Hold Down Clamp
13	6	18-3075	Hose Hold Down Clamp Plate
14	2	19-7774	1" x 1" Spring Bushing
15	2	19-13515	3/4" ID - Non Rotating Pin Spacer Bushing
16	4	19-13577	NR Pin Spacer Clevis End
17	2	26-34711	4 x 8 Cylinder W/ Cast Clevis Ends
18	2	26-34739	4 x 55 Trunnion Mounted Tube End Cylinder
19	1	32-14610	770 Angle Frame
20	1	32-16985	12-20 - 770 HA Tilt Frame
21	1	43-8130	1-15/16" x 23-1/4" Pin
22	2	43-8131	1-15/16" x 31" Pin
23	1	43-8132	1-15/16" x 35-1/2" Pin
24	1	43-8133	1-15/16" x 7-1/8" Stabilizer Arm Pin

ltem No.	Qty.	Part No.	Description
25	4	43-13580	1" Clevis Bolt In Pin
26	2	43-8466	Angle Cylinder Pin - 1-1/2" x 6-1/4"
27	2	57-20747	3/4" Flat Washer
28	4	57-20749	1" Flat Washer
29	2	58-9371	Grease Zerk 1/8" NPT 45°
30	6	58-9372	Grease Zerk 1/8" NPT 90°
31	5	70-20604	1/2" Hex Center Lock Nut Gr 2 NC
32	2	70-20607	3/4" Hex Center Lock Nut Gr 2 NC
33	2	70-20609	1" Hex Center Lock Nut Gr 2 NC

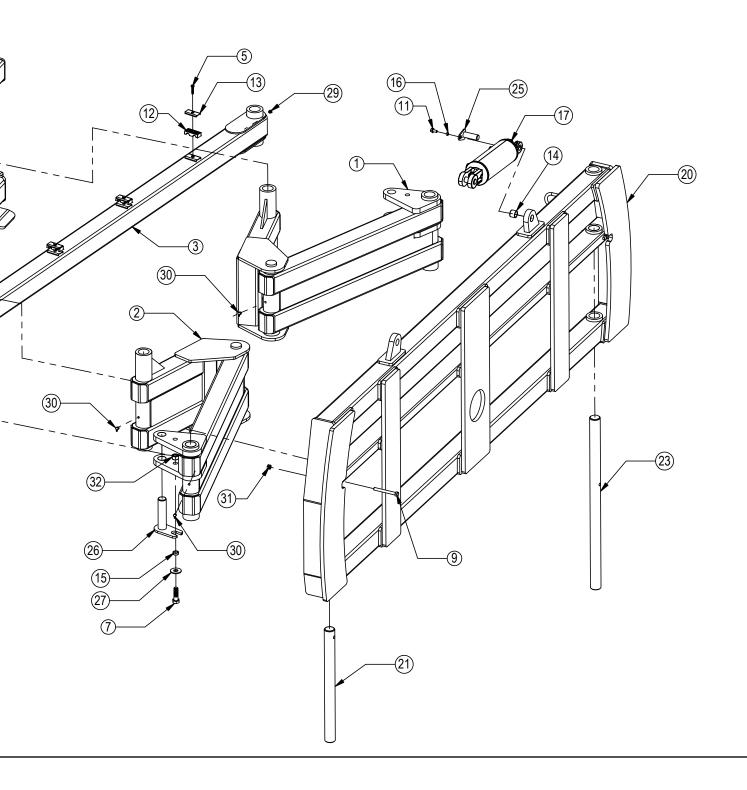
HANT - Replace item # 11, 16, 17 & 25 with item # 4, 10, 28 & 33.

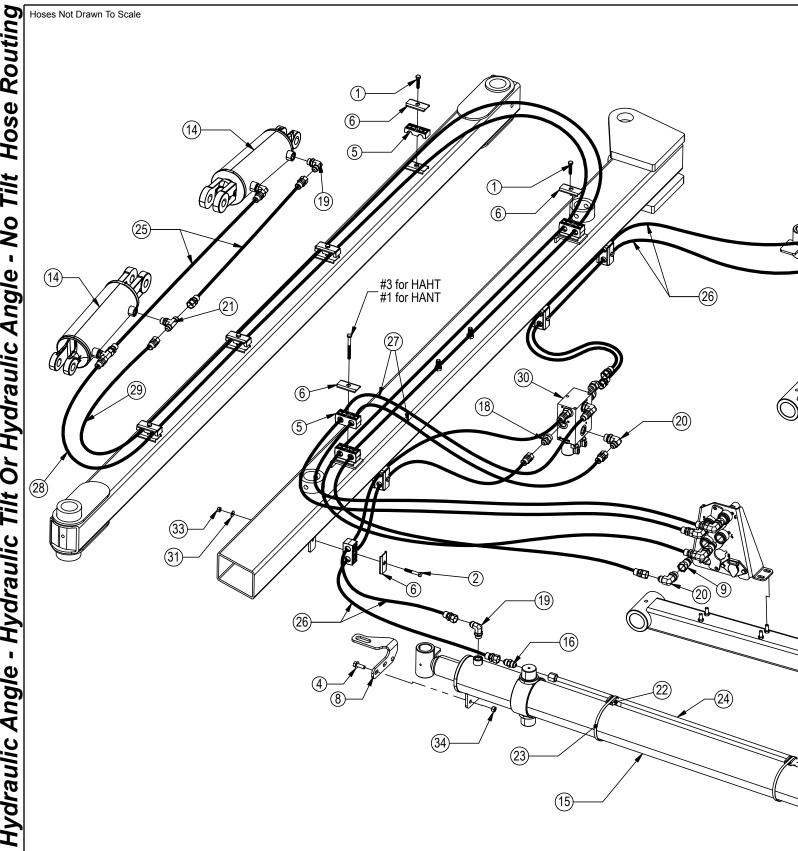
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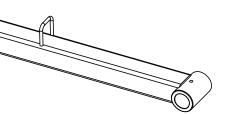








		Configuration	HAHT	HANT
Item No.	Part No.	Description	Qty.	Qty.
1	16-20036	5/16" x 1-1/2" Hex Bolt Gr 5 NC	5	1
2	16-20038	5/16" x 2" Hex Bolt Gr 5 NC	4	4
3	16-20043	5/16" x 3-1/4" Hex Bolt Gr 5 NC	1	-
4	16-35C616	3/8" x 1" Flanged Bolt	4	4
5	18-3074	Hose Hold Down Clamp	9	5
6	18-3075	Hose Hold Down Clamp Plate	10	5
7	18-14684-R	Switch Mount Bracket - Right	1	1
8	18-14684-L	Switch Mount Bracket - Left	1	1
9	25-34322	Tappet Quick Coupler Male	4	2
10*	25-3453	Pioneer Dust Cap Tilt (Green)	2	-
11*	25-3454	Pioneer Dust Plug Tilt (Green)	2	-
12*	25-3455	Pioneer Dust Cap Angle (Red)	2	2
13*	25-3456	Pioneer Dust Plug Angle (Red)	2	2
14	26-34711	4 x 8 Cylinder W/ Cast Clevis Ends	2	-
15	26-34739	4 x 55 Trunnion Mounted Tube End Cylinder	2	2
16	31-11699-8-8	JIC Union (2403-8-8)	2	2

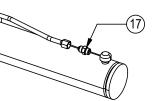


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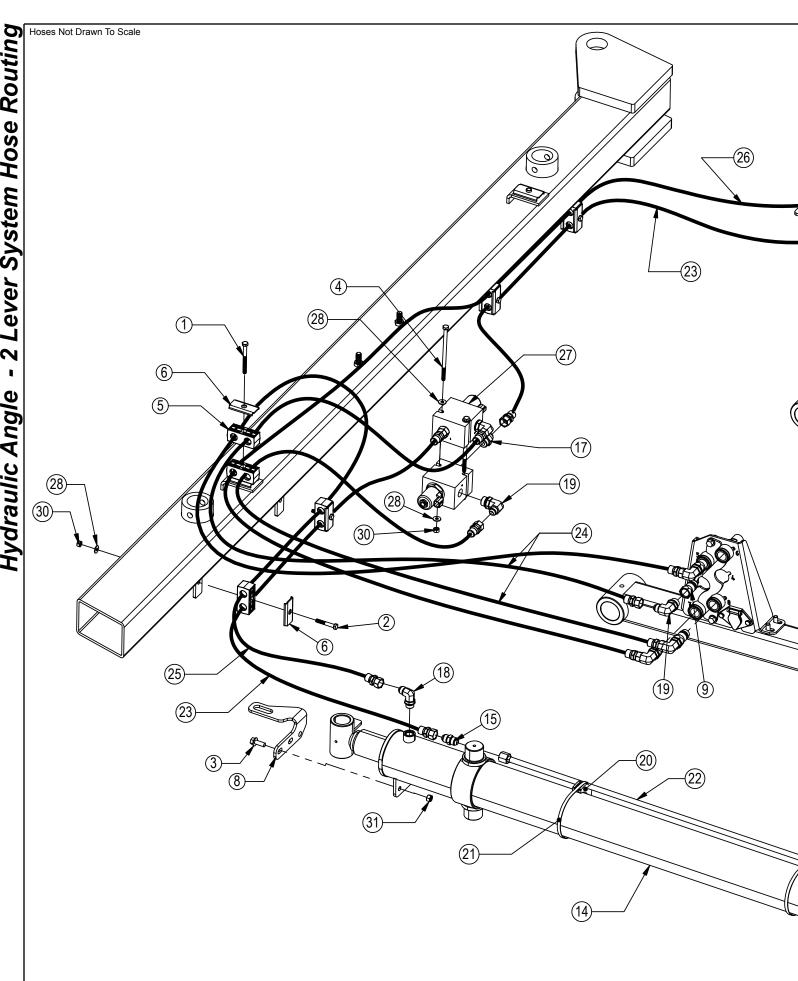


See Page 22-27 for the remaining hydraulics and hydraulic connections.
See Page 33 for hydraulic schematics.

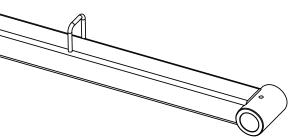
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			Configuration	НАНТ	HANT
	Item No.	Part No.	Description	Qty.	Qty.
	17	31-34040	Straight JIC x O-Ring (6400-8-8)	2	2
	18	31-34041	Straight JIC x O-Ring (6400-8-10)	4	4
	19	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-8)	4	2
	20	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)	6	4
	21	31-34060	Branch Tee JIC x O-Ring (6803-8-8-8)	2	-
	22	34-12932	Cylinder Saddle	4	4
	23	34-12994	Cylinder Hose Clamp	4	4
	24	35-14674	45" -8 Formed Steel Line - Tier 4 Angle	2	2
	25	35-30022	39" x 3/8" -8JIC/-8JIC Hose	2	-
	26	35-30131	66" x 1/2" -8JIC/-8JIC Hose	4	4
	27	35-30135	78" x 1/2" -8JIC/-8JIC Hose	2	2
	28	35-30173	230" (19.17') x 1/2" -8JIC/-8JIC Hose	1	-
g cylinder seal kits, the part number on the	29	35-30174	240" (20') x 1/2" -8JIC/-8JIC Hose	1	-
he number is stamped on the base end of the	30	56-14680	Logic Hydraulic Angle Valve	1	1
he hydraulic ports.	31	57-20741	5/16" Flat Washer	4	4
Description	32*	59-34952	Stud Mounted Zip Tie	10	10
Seal Kit 4 x 8 (647135) Nitrided Rod, Clevis Ends	33	70-20581	5/16" Hex Nut NC	4	4
Seal Kit 4 x 55 (647210) Nitrided Rod	34	70-20622	3/8" Flange Hex Nut NC	4	4

NOTE: When ordering cylinder seal kits, the part number cylinder is needed. The number is stamped on the base cylinder opposite of the hydraulic ports. No. On Cylinder Part No. Description 49-12271 Seal Kit 4 x 8 (647135) Nitrided Rod, 26-34711



	Item No.	Qty.	Part No.	Description
	1	1	16-20043	5/16" x 3-1/4" Hex Bolt Gr 5 NC
]	2	4	16-20038	5/16" x 2" Hex Bolt Gr 5 NC
	3	4	16-35C616	3/8" x 1" Flanged Bolt
	4	2	16-20050	5/16" x 6" Hex Bolt Gr 5 NC
	5	6	18-3074	Hose Hold Down Clamp
	6	5	18-3075	Hose Hold Down Clamp Plate
]	7	1	18-14684-R	Switch Mount Bracket - Right
[8	1	18-14684-L	Switch Mount Bracket - Left
	9	4	25-34322	Tappet Quick Coupler Male
	10*	2	25-3401	Pioneer Dust Cap Left Angle (Yellow)
	11*	2	25-3402	Pioneer Dust Plug Left Angle (Yellow)
	12*	2	25-3455	Pioneer Dust Cap Right Angle (Red)



See Page 22-27 for the remaining hydraulics and hydraulic connections. See Page 33 for hydraulic schematics.

	Item No.	Qty.	Part No.	Description
	13*	2	25-3456	Pioneer Dust Plug Right Angle (Red)
	14	2	26-34739	4 x 55 Trunnion Mounted Tube End Cylinder
	15	2	31-11699-8-8	JIC Union (2403-8-8)
	16	2	31-34040	Straight JIC x O-Ring (6400-8-8)
	17	2	31-34041	Straight JIC x O-Ring (6400-8-10)
	18	2	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-8)
	19	6	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)
	20	4	34-12932	Cylinder Saddle
	21	4	34-12994	Cylinder Hose Clamp
	22	2	35-14674	45" -8 Formed Steel Line - Tier 4 Angle
	23	2	35-30131	66" x 1/2" -8JIC/-8JIC Hose
	24	2	35-30135	78" x 1/2" -8JIC/-8JIC Hose
	25	1	35-30175	119" x 1/2" -8JIC/-8JIC Hose
ne part	26	1	35-30176	138" x 1/2" -8JIC/-8JIC Hose
mber is	27	1	56-14772	2-Stick Logic Angle Valve Kit
pposite of the	28	8	57-20741	5/16" Flat Washer
	29*	10	59-34952	Stud Mounted Zip Tie
	30	6	70-20581	5/16" Hex Nut NC
0) Nitrided Rod	31	4	70-20622	3/8" Flange Hex Nut NC

			24	2	35-30135	78" x 1/2" -8JIC/-8JIC Hose
			25	1	35-30175	119" x 1/2" -8JIC/-8JIC Hose
NOTE: Wh	en orderin	g cylinder seal kits, the part	26	1	35-30176	138" x 1/2" -8JIC/-8JIC Hose
number on	the cylinde	er is needed. The number is	27	1	56-14772	2-Stick Logic Angle Valve Kit
stamped or hydraulic p		end of the cylinder opposite of the	28	8	57-20741	5/16" Flat Washer
No. On			29*	10	59-34952	Stud Mounted Zip Tie
Cylinder Part No. Do		Description	30	6	70-20581	5/16" Hex Nut NC
26-34739	49-12274	Seal Kit 4 x 55 (647210) Nitrided Rod	31	4	70-20622	3/8" Flange Hex Nut NC

See Page 26-27 for hydraulic connections.
See Page 33 for hydraulic schematics.
* Parts Not Shown

		Configuration	HAHT - 2 Stick	НАНТ	HANT - 2 Stick	HANT	NAHT	NANT
ltem No.	Part No.	Description	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
1	16-35C612	3/8" x 3/4" Flanged Bolt	2	2	2	2	2	-
2	16-35C616	3/8" x 1" Flanged Bolt	6	6	6	6	6	6
3	16-20002	1/4" x 3/4" Hex Bolt Gr 5 NC	2	2	2	2	-	-
4	18-14737	700 Series Female Coupler Mount - Universal	1	1	1	1	1	-
5	18-15580-L	Bracket, Hydraulic Cover - Top Left	1	1	1	1	1	1
6	18-15580-R	Bracket, Hydraulic Cover - Top Right	1	1	1	1	1	1
7	25-34322	Tappet Quick Coupler Male	8	6	6	4	4	2
8	25-34321	Tappet Quick Coupler Female	6	4	4	2	2	-
9*	25-3401	Pioneer Dust Cap Left Angle (Yellow)	2	-	2	-	-	-
10*	25-3453	Pioneer Dust Cap Tilt (Green)	2	2	-	-	2	-
11*	25-3455	Pioneer Dust Cap Right Angle (Red)	2	2	2	2	-	-
12*	25-3457	Pioneer Dust Cap Lift (Orange)	2	2	2	2	2	2
13	31-34000	Bulkhead Union JIC (2700-8-8)	16	12	12	8	8	4
14	31-34030	Bulkhead Run Tee JIC (2704-8-8-8)	2	2	2	2	2	2
15	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)	14	10	10	6	6	2
16	31-34100	Swivel Nut Elbow 90° JIC (6500-8-8)	2	2	2	2	2	2
17	34-14826	1/2" ID Rubber Grommet	2	2	2	2	-	-

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*	Parte	Not	Shown

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		Configuration	HAHT - 2 Stick	НАНТ	HANT - 2 Stick	HANT	NAHT	NANT
Item No.	Part No.	Description	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
18	34-14898	Dome Plug (3044)	3	7	7	11	13	17
19	35-14351	31.63" -8 Formed Steel Line (Angle)	2	2	2	2	-	-
20	35-14352	33.88" -8 Formed Steel Line (Tilt)	2	2	-	-	2	-
21	35-14353	36.13" -8 Formed Steel Line (Left Lift)	2	2	2	2	2	2
22	35-14356	36.63" -8 Formed Steel Line (770 Right Lift)	1	1	1	1	1	1
23	35-14357	39.63" -8 Formed Steel Line (770 Right Lift)	1	1	1	1	1	1
24	35-14824	29.38" -8 Formed Steel Line (2-Stick - Left Side)	2	-	2	-	-	-
25	35-31132	69" x 1/2" -8JIC/-8JIC Hose W/Cordura	6	4	4	2	2	-
26	35-30183	293" (24.42") x 1/2" -8JIC/-8JIC Hose w/165" Cordura	8	6	6	4	4	2
27	44-14738	700 Series Female Coupler Retainer-Universal	1	1	1	1	1	-
28	44-15120	700 Series Side Cover Plate - Left	2	2	2	2	2	2
29*	69-14681	Logic Angle Valve Wire Harness	1	1	1	1	-	-
30*	69-14679	Electric Angle Switch	-	1	-	1	-	-
31*	69-14683	2-Stick Wire Harness Cap	1	-	1	-	-	-
32	57-20740	1/4" Flat Washer	2	2	2	2	-	-
33	70-20580	1/4" Hex Nut Gr 5 NC	2	2	2	2	-	-
34	70-20622	3/8" Flange Hex Nut NC	6	6	6	6	6	-
35	70-20807	3/4" Hex Jam Nut	18	14	14	10	10	6

<u>Jg</u>	ltem No.	Qty.	Part No.	Description		ltem No.	Qty.	Part No.	Descri	ption
Routin	1	2	16-20036	5/16" X 1-1/2 " Hex Bolt Gr 5 NC		13	1	35-11686-14	90 149" x 3	3/8" -8JIC/-8JIC Hose
5	2	1	16-20047	5/16" X 4-1/2 " Hex Bolt Gr 5 NC		14	1	35-11686-16	_	3/8" -8JIC/-8JIC Hose
õ	3	1	16-20218	3/4" X 2" Hex Bolt Gr 5 NC		15	1	35-11686-18	_	3/8" -8JIC/-8JIC Hose
Ř	4	4	18-3074	Hose Hold Down Clamp		16	1	35-11686-21	_	3/8" -8JIC/-8JIC Hose
<u></u>	5	4	18-3075	Hose Hold Down Clamp Plate		17	2	43-16306	Cylinde	
ose	6	4	25-34322	Tappet Quick Coupler Male		18	8	43-7767	Hitch P	
ö	7*	2	25-3403	Pioneer Dust Cap Slider (Blue)		19	2	57-20757	_	E Hardened Flat Washer - 1-1/2" OD
I	8*	2	25-3405	Pioneer Dust Cap Slider (Brown)		20	3	57-20791	_	ender Washer (1.25" OD)
2	9	2	26-34741	3 x 48 Welded Cylinder (647660)		21	1	70-20607	_	ex Center Lock Nut Gr 2 NC
Iraulic	10	4	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-8)		22	1	70-20607	_	yloc Hex Nut Gr 5 NC
3	10	4	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10		22	'	70-20011	3/10 1	Hoses Not Drawn To Scale
ā		- - 1			,		_		_	HOSES NOT DIAWIT TO Scale
yar	12 * Dort	s Not S	34-13807	Spring, Hose Support						
12-20 - NAHT H		(18-/								
Routing	ltem No. 1	Qty . 6 2		Description 5/16" X 1-1/2 " Hex Bolt Gr 5 NC Hose Hold Down Clamp				Item No. Qty. 11 1 12 1	Part No. 35-11686-18 35-11686-19	
0	3	2	18-3075	Hose Hold Down Clamp Plate			L	13 1	35-11686-23	330 233" x 3/8" -8JIC/-8JIC Hose
צן	4	5	18-15684	Hose Hold Down Clamp Plate			L	14 1	35-11686-25	540 254" x 3/8" -8JIC/-8JIC Hose
α	5	4	25-34322	Tappet Quick Coupler Male			L	15 2	43-16306	Cylinder Pin
ose	6*	2	25-3403	Pioneer Dust Cap Slider (Blue)			L	16 8	43-7767	Hitch Pin Clip
	7*	2	25-3405	Pioneer Dust Cap Slider (Brown)				17 1	70-20581	5/16" Hex Nut Gr 5 NC
I	8	2	26-34741	3 x 48 Welded Cylinder (647660)						
lic	9	4	31-34050	Straight Thread Elbow 90° JIC x O-Ring (6801-8-8)		_				
	10	4	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)						
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ltem No.	Qty.	Part No.	Description
1	2	16-35C612	3/8" x 3/4" Flanged Bolt
2	3	16-35C616	3/8" x 1" Flanged Bolt
3	1	18-14737	700 Series Female Coupler Mount - Universal
4	1	18-15580-R	Bracket, Hydraulic Cover - Top Right
5	4	25-34322	Tappet Quick Coupler Male
6	4	25-34321	Tappet Quick Coupler Female
7*	2	25-3401	Pioneer Dust Cap Left Angle (Yellow)
8*	2	25-3402	Pioneer Dust Plug Left Angle (Yellow)
9*	2	25-3455	Pioneer Dust Cap Right Angle (Red)
10*	2	25-3456	Pioneer Dust Plug Right Angle (Red)
11	8	31-34000	Bulkhead Union JIC (2700-8-8)
12	8	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-8-10)
13	3	34-14898	Dome Plug (3044)
14	1	35-15616	35.38" -8 Formed Steel Line (Ag Pro 12-20 Left Rod)
15	1	35-15617	35.25" -8 Formed Steel Line (Ag Pro 12-20 Left Base)
16	1	35-15618	32.13" -8 Formed Steel Line (Ag Pro 12-20 Right Rod)
17	1	35-15619	32.00" -8 Formed Steel Line (Ag Pro 12-20 Right Base)
18	4	35-31132	69" x 1/2" -8JIC/-8JIC Hose W/Cordura
19	4	35-30183	293" (24.42") x 1/2" -8JIC/-8JIC Hose w/165" Cordura
20	1	44-14738	700 Series Female Coupler Retainer-Universal
21	1	44-15120	700 Series Side Cover Plate - Left
22	6	70-20622	3/8" Flange Hex Nut NC
23	8	70-20807	3/4" Hex Jam Nut

* Parts Not Shown

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See Page 34 for hydraulic schematics.

Hoses Not Drawn To Scale

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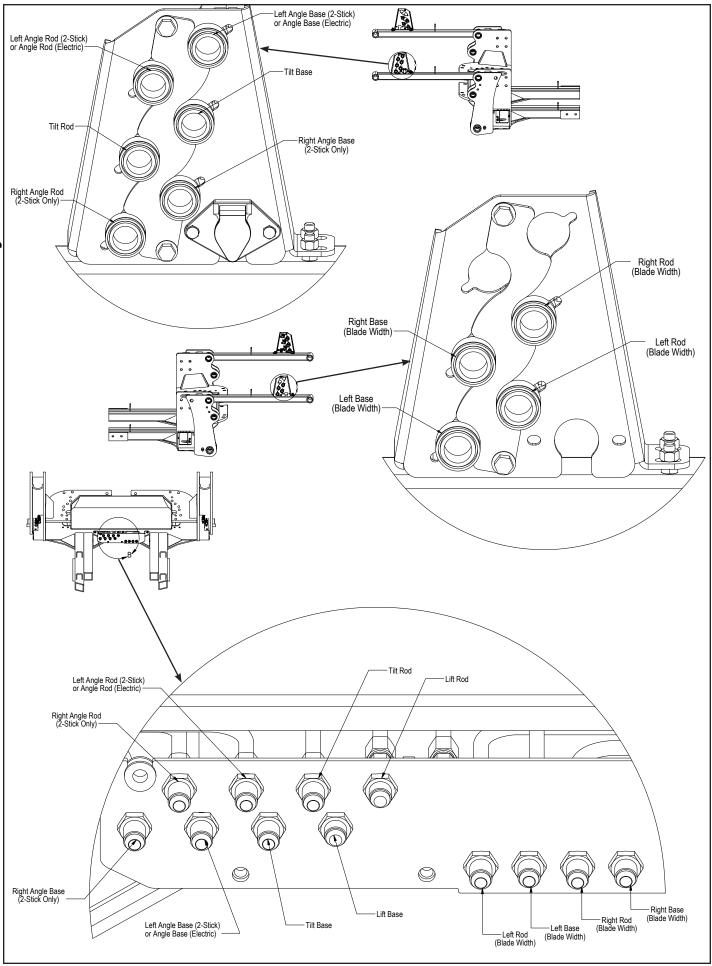
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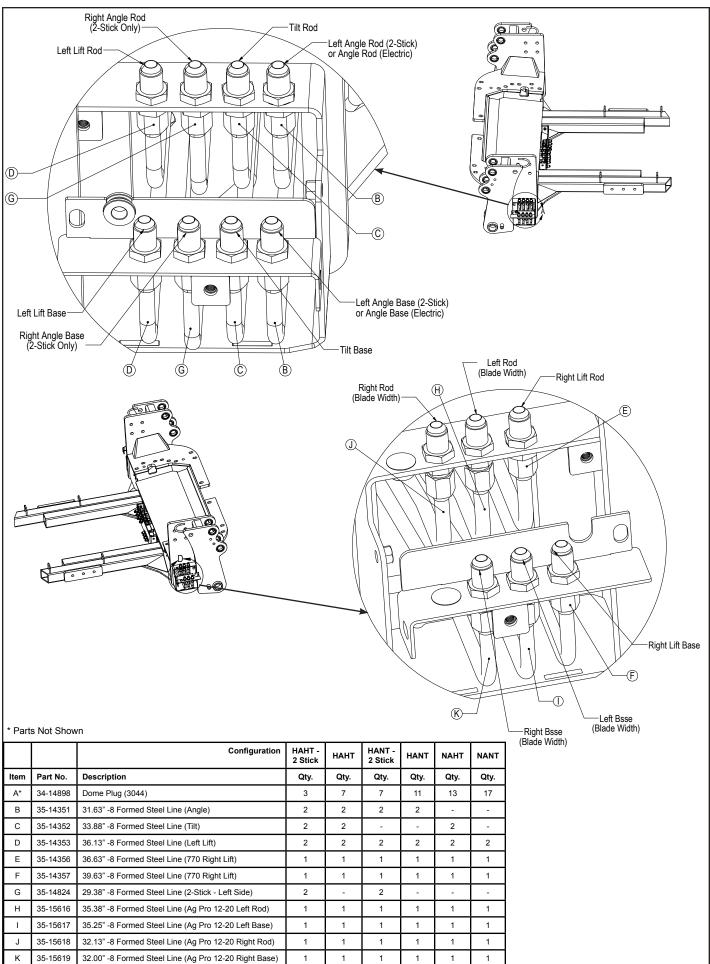
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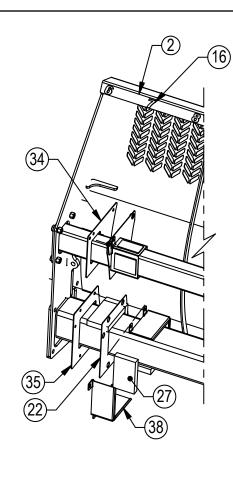
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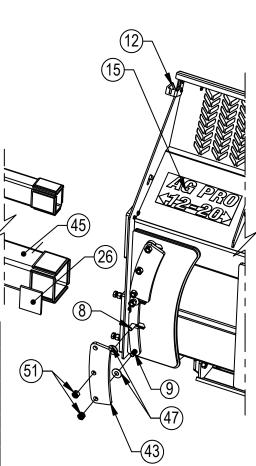


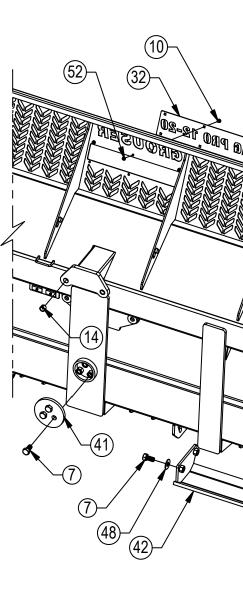


Hydraulic Connections

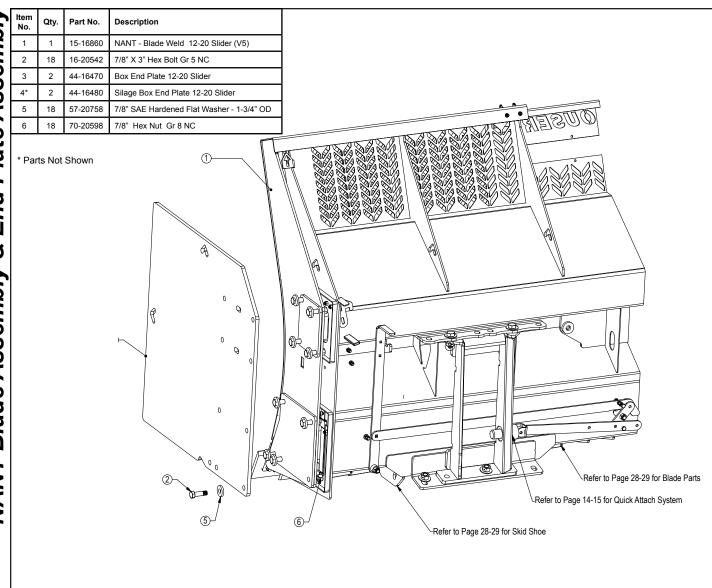


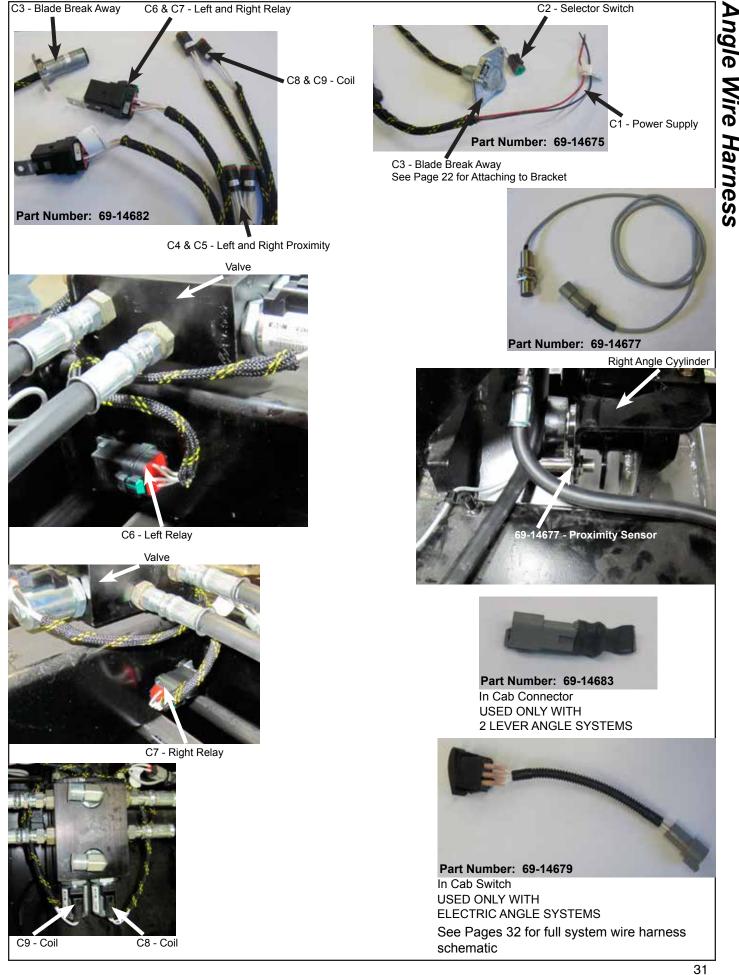
No.	Qty.	Part No.	Description
1	1	15-16850	12-20 XAXT (V5) - Blade Weld
2	1	15-16855-L	12-20 Blade End Weld Left
3	1	15-16855-R	12-20 Blade End Weld Right
4	12	16-16305	3/8 x 1.25" Flanged Elevator Bolt
5	4	16-20227	3/4" x 4-1/2" Hex Bolt Gr 5 NC
6	18	16-20538	7/8" x 2" Hex Bolt Gr 8 NC
7	11	16-20558	1" x 2" Hex Bolt Gr 8 NC
8	8	16-20560	1" x 2-1/2" Hex Bolt Gr 8 NC
9	4	16-20562	1" x 3" Hex Bolt Gr 8 NC
10	4	16-21064	3/8" x 1" Carriage Bolt Gr 5 NC
11	42	16-21748	3/4" x 2" Plow Bolt Gr 5 NC
12	1	18-16304-L	Bracket, Location Left 12-20 Slider
13	1	18-16304-R	Bracket, Location Right 12-20 Slider
14	2	19-7774	1" x 1" Spring Bushing (125100100)
15	1	27-15598	Ag Pro 12-20 Decal
16	1	27-15612-L	Ag Pro 12-20 Width Decal - Left
17	1	27-15612-R	Ag Pro 12-20 Width Decal - Right
18	3	29-11118-5	5' - 3/4"x 8" Cutting Edge (4500, 6500)
19	1	29-11118-6	6' - 3/4"x 8" Cutting Edge (4500, 6500)
20	6	34-16158	Bearing, 2.625 x 6.00 W/ Holes
21	2	34-16419	12-20 Top Seal
22	1	34-16420	12-20 - 8" Tube Seal - Bottom Left
23	1	34-16421	12-20 - 10" Tube Seal - Bottom Right
24	8	34-16425	12-20 Top Narrow UHMW
25	8	34-16426	12-20 Top Wide UHMW
26	4	34-16427	12-20 8" Inner UHMW
27	4	34-16428	12-20 8" Outer UHMW

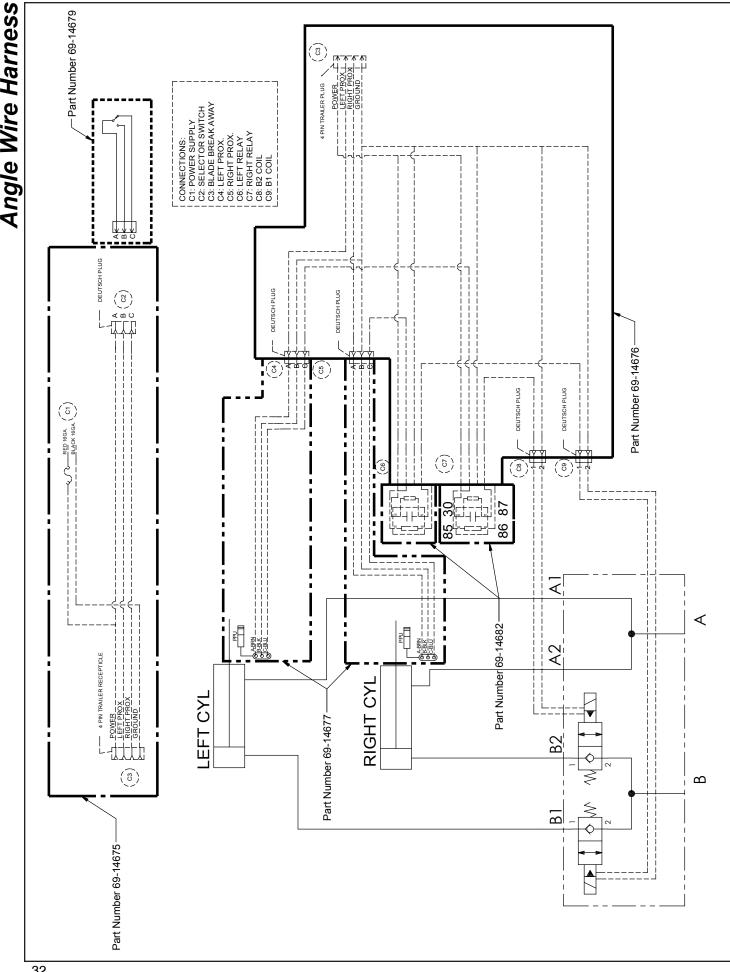


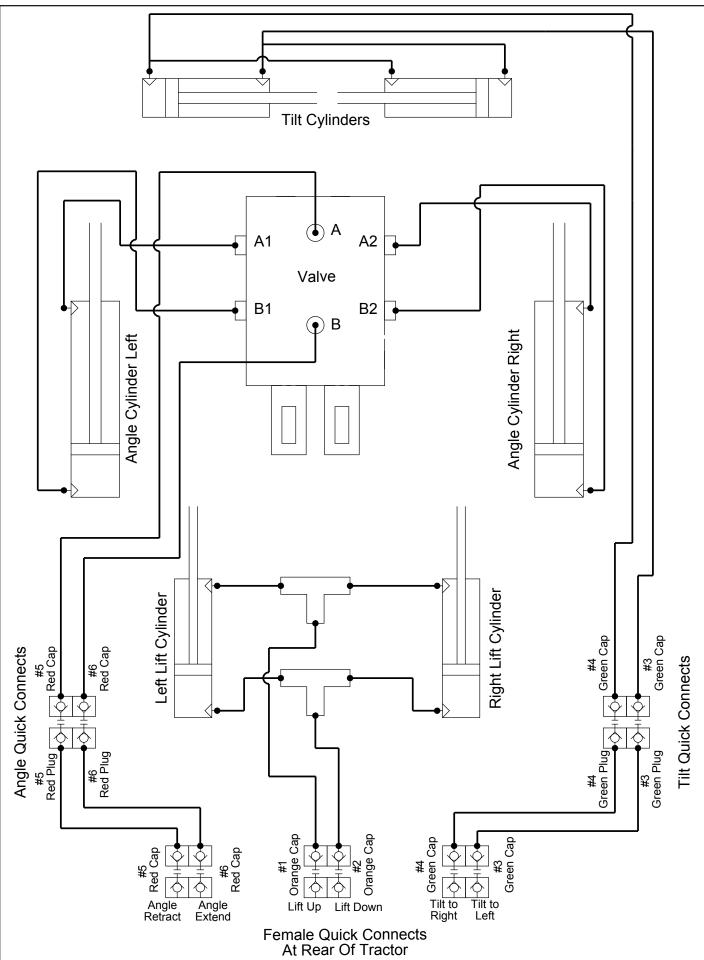


1 1	No. Tay Tarket Tay Tarket Tay Tarket Tay Tarket Tay Tarket T					
1 1	1 1 -4 <td></td> <td></td> <td>Qty.</td> <td>Part No.</td> <td>Description</td>			Qty.	Part No.	Description
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1 4 4 120 2020 120 2020 1 1 4 4 120 <t< td=""><td>1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Name Name - 627 - 258 m 1 1 44460 122 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 18450 128 Name Name - 627 - 258 m <!--</td--><td></td><td>29</td><td>12</td><td>44-16977</td><td>12-20 Standoff Shim</td></td></t<>	1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Datas Name Name - 627 - 258 m 1 1 44460 122 Name Name - 627 - 258 m 1 1 44460 122 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 44460 128 Name Name - 627 - 258 m 1 1 18450 128 Name Name - 627 - 258 m </td <td></td> <td>29</td> <td>12</td> <td>44-16977</td> <td>12-20 Standoff Shim</td>		29	12	44-16977	12-20 Standoff Shim
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1 1 44.002 2.02 PBts. 19 Cover 1 44.002 1.20 PBts. 17 Cover 1 1.4.002 1.20 PBts. 17 Cover 1 1.4.970 Dacking Disor PBts 1 1.5.0118 Dacking Disor PBts 1 1.5.0118 Dacking Disor PBts 1 1.5.0118 Dackin Vid PBts 1 <	1 1 1 24-1962 12.21 Plans, 19 Cover 3 1 44-1962 12.20 Plans, 19 Cover 37 2 44-1962 12.20 Plans, 19 Cover 39 2 44-1962 12.20 Plans, 19 Cover 44 1 44-1962 12.20 Plans, 19 Cover 44 1 44-1962 12.20 Plans, 19 Cover 44 2 2.30 Tove Media 12.30 Tove Media 44 2 2.30 Tove Media 12.30 Tove Media 44 1 2.31 Tove Media 12.30 Tove Media 44 1 2.31 Tove Media 12.30 Tove Media 45 12 2.30 Tove Media 12.30 Tove Media 46 12 12.30 Tove Media 12.30 Tove Media 47 12.30 Tove Me		32	1	44-15605	Ag Pro 12-20 Name Plate - (6.2" x 25.6")
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30 1 44-6604 12.21 Plate, 10 ² Cover 37 2 44-16472 12.20 Plate, 10 ² Cover 38 1 44-6604 12.20 Plate, 10 ² Cover 39 2 44-6623 12.20 Plate, 10 ² Cover 39 2 44-6623 12.20 Plate, 10 ² Cover 44 14 12.20 Plate, 10 ² Cover 12.20 Plate, 10 ² Cover 44 14 14.476471 12.20 Plate, 10 ² Cover 44 14 14.476471 12.20 Plate, 10 ² Cover 44 15.20 Plate, 10 ² Cover 12.20 Plate, 10 ² Cover 12.20 Plate, 10 ² Cover 44 14 14.47640 12.20 Plate, 10 ² Cover 12.20 Plate, 10 ² Cover 44 12.20 Plate, 10 ² Cover 44 12.20 Plate, 10 ² Cover 45 12.20 Plate, 10 ² Cover 11.20 Plate, 10 ² Cover 12.20 Plate, 10 ² Cover 12.20 Plate, 10 ² Cover 41 12.20 Plate, 10 ² Cove	1 1		34	1	44-16402	
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31 2 44-16427 12-20 Pillet. Siloer 38 4 44-1622 12-30 Pillet. Siloer 44 12-20 Pillet. Siloer 12-30 Pillet. Siloer 44 12-30 Pillet. Siloer 12-30 Pillet. Siloer 44 12-30 Pillet. Siloer 12-30 Pillet. Siloer 44 12-30 Pillet. Siloer 12-30 Pillet. Siloer 45 13-30 Pillet. Siloer 12-30 Pillet. Siloer 44 12-30 Pillet. Siloer 12-30 Pillet. Siloer 45 12-30 Pillet. Siloer 12-30 Pillet. Siloer 46 12-30 Pillet. Siloer 12-30 Pillet. Siloer 470-30 Pillet. Siloer 10-30 Pillet. Si	37 2 4 14/14/7 1/2.0 Plans, Skdzr 38 4 1/4.2 1/2.0 To Uke Relative 40 2 44.14624 1/2.0 To Uke Relative 41 4.3 Hold 1/2.0 To Uke Weit (91 42 2 19.1622 1/2.0 To Uke Weit (91 43 4 1.0 To Uke Weit (91 4/4 2 44 2 1.0 To Uke Weit (91 4/4 1.0 To Uke Weit (91 44 2 1.0 To Uke Weit (91 4/4 1.0 To Uke Weit (91 45 1.0 To Uke Weit (91 1.0 To Uke Weit (91 1.0 To Uke Weit (91 46 1.0 To Uke Weit (91 1.0 To Uke Weit (91 1.0 To Uke Weit (91 47 1.0 To Weit (91 1.0 To Uke Weit (91 1.0 To Uke Weit (91 41 1.0 To Uke Weit (91 1.0 To Uke Weit (91 1.0 To Uke Weit (91 42			1		
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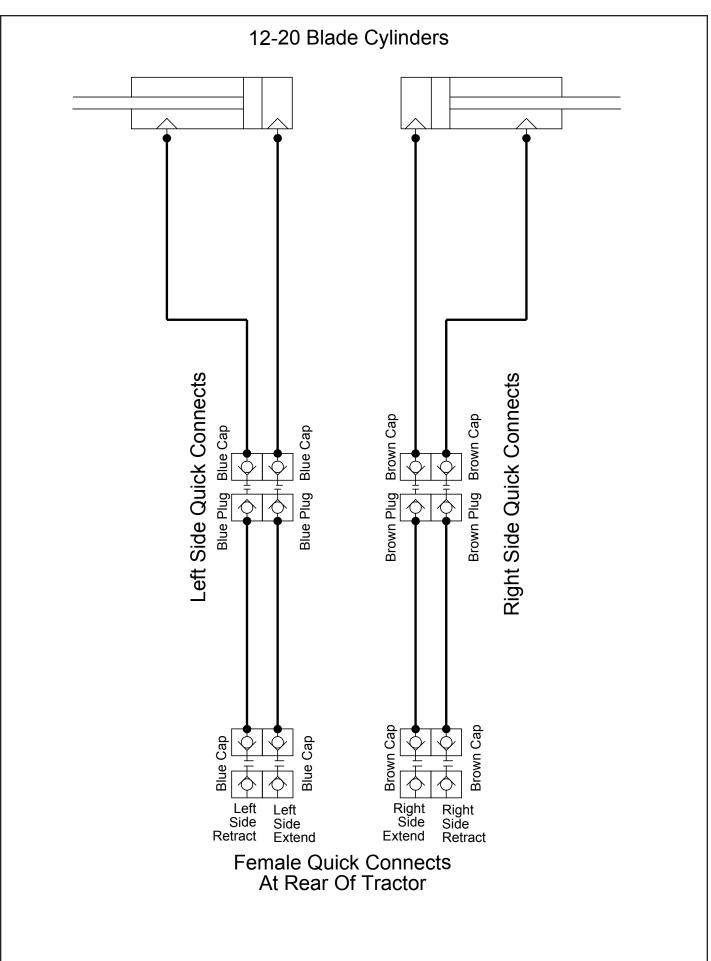








Hydraulic Schematic



8 16-20070 3/8" x 2-1/2" Hex Bolt Gr 5 NC 2 25-34322 Tappet Quick Coupler Male (8010-16bulk) 2 26-34738 4 x 20 Long Cylinder Bushed Tubed Ends	8 16-20070 345" x 2-1/2" Hex Bolt Gr 5 NC 2 25-24322 Tappet Guide Coupler Male (B10-16Builly) 2 25-24322 Tappet Guide Coupler Male (B10-16Builly) 2 25-24323 34-2000 Builhead Union JLC (270-8-8) 2 31-34640 Straight Thread Elevel 90" JLC x O-Ring (B400-08-88) 2 2 31-34640 Straight Thread Elevel 90" JLC x O-Ring (B400-08-88) 2 2 31-34640 Straight Thread Elevel 90" JLC x O-Ring (B400-08-88) 2 2 31-34640 Straight Thread Elevel 90" JLC x O-Ring (B400-08-88) 2 2 31-44640 Prower Pitch Soft Support 2 2 35-128811 -10 Formed Steel Line (Lift Cylinder) 2 2 35-128610 17 3.28" FJIC x 3-FJIC 00-With Condura 2 3 34-12438 Prover Pitch Soft Support 30 4 35-128610 17 3.28" FJIC x 3-FJIC 00-With Condura 2 2 35-11886-440 4* x 38" - 8-FJIC x 3-FJIC 00-With Condura 2 4 35-31130 63" x 102" - 100" - 00" -	8 16.2070 345" x 2.12" Hex Bolt Gr 5 NC 2 25.54322 Tappet Cake Coupler Male (0010-166u/k) 2 2 25.54323 Tappet Cake Coupler Male (0010-16-0) 1 4 31.54060 Burklese Minor JUC (2708-8-8) 2 2 31.54061 Straight JLX x O-Ring (400-16-0) 1 4 34-12836 Power Pitch Soft Support 2 2 35-11069-440 4"x 1 38" - 6 FLC x 6 FLC 00" 100" Control 2 35-11069-440 4"x 1 38" - 6 FLC x 6 FLC 00" On the Contran 3.54 4 35-51108 511/X x 10 ² - 8 FLC x 6 FLC 00" On the contran 3.54 4 35-51108 51/X x 10 ² - 8 FLC x 6 FLC 00" On the contran 3.54 4 35-51108 51/X x 10 ² - 8 FLC x 6 FLC 00" On the contran 3.54 4 35-1108 51/X x 10 ² - 8 FLC x 6 FLC 00" On t	8 16-20070 38" x 2-1/2" Hex Both Gr 5 NC 2 25-45422 Tappet Culck Couper Male (8010-16butk) 2 25-24-222 Tappet Culck Couper Male (8010-16butk) 2 25-24-222 Tappet Culck Couper Male (8010-16butk) 2 25-24-223 41C Linion (2403-10-8) 4 31-44000 Buthead Union JLC (2708-8-8) 2 31-34040 Straight JLC x O-Ring (800-08-80) 2 31-34040 Straight Thread Elbox 90" JLC x O-Ring (800-08-10) 2 31-44030 Prower Pitch Soft Support 2 35-12881 -10 Formed Steel Line (Lift Cylinder) 2 35-12891 -10 Formed Steel Line (Lift Cylinder) 2 35-128951 51/3 887 × 11/2* 3-1/2 C-8/IC Hose (15%) 3 34-12430 Prower Pitch Soft Support 2 35-11895440 4* x 38" - 6+1/2 x 5+1/2 C-9/IC With Cordura 3 34-12430 Prower Pitch Soft Support 4 35-31130 63" x 107* 11/2* 3-1/2 C-8/IC Hose (15%)C 6 70-20070 34" Hose Common 16 57-20742 36" Flux Vite* - 100* 0 6 70-20070 34" Hose C	8 16-20070 38" x 2-12" Hex Bolt Or 5 NC 2 25-34322 Tappen Cluck Coupler Male (8010-16bulk) 2 26-34738 4 x 20 Long Cylinder Bushed Tubed Ends 4 31-34000 Bulkhead Union (2050-8) 2 31-34400 Straight Lio C - Ring (480-98-8) 2 31-34400 Straight Lio C - Ring (480-10-8-10) 2 31-34401 Straight Lio C - Ring (480-10-8) 2 31-34404 Straight Lio C - Ring (480-10-8) 2 31-34404 Straight Lio C - Ring (480-10-8) 2 34-12934 Hose Clamp 2 35-13940 Hose Clamp 2 35-1498-040 4* x 38" - 8 FLix x - 8 FLix C and Tic Cordura 3 34-12934 Hose Clamp 2 35-11688-040 4* x 38" - 8 FLix x - 8 FLix C and Tic Cordura 3 35-11688-040 4* x 38" - 8 FLix x - 8 FLix C and Tic Cordura 4 35-31135 257' x 12'' - 20/Cr4.01C Hose W Cordura (3.5M) 2 2 35-0118 257' (24 42'') x 12'' - 20/Cr4.01C Hose w 166' Cordura 4 70-20617 34'' Hex Jam Nut NF Tic Doco'' 16 <t< th=""><th>lo.</th><th>Qty.</th><th>Part No.</th><th>Description</th><th>Hoses Not Drawn To Scale</th></t<>	lo.	Qty.	Part No.	Description	Hoses Not Drawn To Scale
2 25-34522 Tappet Quick Coupler Male (8010-18bulk) 2 25-34738 4 × 20 Long Oylinder Bushed Tubel Ends 2 31-11680-10-8 Jii C Union (2403-10-8) 2 31-34000 Buikhead Flun Tee JIC (2704-8-8-8) 2 31-34001 Straight JIC x O-Ring (8400-68-68) 2 31-4600-10-08 Straight JIC x O-Ring (8400-68-68) 2 31-4600-10-08 Straight JIC x O-Ring (8400-68-68) 2 31-4600-10-08 Straight JIC x O-Ring (8400-10-4) 4 34-12358 Power Pitch Soft Support 2 31-4600-10-08 Straight JIC x O-Ring (8400-10-4) 2 31-4600-10-08 Straight JIC x O-Ring (8400-10-4) 2 35-11080-4040 4* x 38" - 8 FIJC x -8 FIJC 30" - With Cordura 3 34-12934 Hole Clamp 2 35-11080-4040 4* x 38" - 8 FIJC x -8 FIJC 30" - With Cordura 4 35-31130 57* x12" - 8JIC-8JIC Hole w/ 108' Cordura 4 35-31130 28* (24-21) x12" - 8JIC-8JIC Hole w/ 108' Cordura 5 75* x12" - 8JIC-8JIC Hole w/ 108' Cordura 6 70-20077 34' Hex Jam Nut NF wt18 replaces Item #1	2 28-34322 Tappet Queck Coupler Male (8010-18bulk) 2 28-34738 4: X20 Long (2013-10-9) 4 313-4000 Builtead Minn JLC (270-8-8) 2 31-34030 Builtead Elbaw 607 JLC OFINg (680-108-10) 2 31-34040 Straight JLC x-ORing (680-108-10) 2 34-12330 Cylicder Saddle 3 34-12384 Hose Camp 2 35-11698-0400 41'x 38" - 8-JIC x - 9-FIIC x - 9-FIIC (20) 2 35-11698-0400 41'x 38" - 9-FIIC x - 9-FIIC (20) 3 34-12384 Hose Camp 4 38-31108 63'x - 12C - 43IIC - 49-FIIC (20) 2 35-11698-0400 41'x 38" - 9-FIIC (20) 2 35-11698-0400 41'x 38" - 9-FIIC (20) 3 70'x 10'x - 10'x - 10'x	2 25-3432 Tappet Ouck Coupler Male (8010-18bulk) 2 25-34738 4: x 20 Long (2403-10-8) 2 31-11686-10-8 JLC Lines (2403-10-8) 2 31-34000 Bulkheast Union JLC (2708-8-8) 2 31-34000 Straight JLC x O-Ring (440-08-8) 2 31-34005 Straight JLC x O-Ring (460-08-8) 2 31-34005 Straight JLC x O-Ring (460-08-8) 2 35-11680-5010 Straight Self X-8 FLIC 80 ⁻ With Condura 2 35-11680-5010 Straight Self X-8 FLIC 80 ⁻ With Condura 3 34-12034 Hest XIC-84D Hose X-00-50 4 35-30183 283 ⁺ 1/2 - 8JLC-84D Hose X-00-50 6 70-20807 34 ⁺ Hest Aum Nut NF 15 Novil Strown #18 from Page 25 & #25 from Page 22-34. #1 Replaces Item #18 from Page 25 & #25 from Page 22-34. Or	2 28-34322 Tappet Culck Coupler Male (8010-18bulk) 2 28-34738 4: X20 Long (2013-10-8) 2 31-1998-10-4 JCL Linko (2023-10-8) 2 31-1998-10-4 JCL Linko (2023-10-8) 2 31-34000 Bulkhead Mim Tue JL (270-8-8) 2 31-34000 Bulkhead Mim Tue JL (270-8-8-8) 2 31-34000 Straight JL X O-Ring (400-08-08) 2 31-34001 Straight JL X O-Ring (400-08-08) 2 31-34004 Straight JL X O-Ring (400-08-08) 2 31-4400-10-08 Straight JL X O-Ring (400-08-08) 2 38-12834 Hose Camp 2 38-12834 Hose Camp 2 38-12834 Hose Camp 2 38-11088-0400 41'x 38" - 8-10C x -9-10C conturn 3 38-12834 Hose Camp 2 38-11088-0400 41'x 38" - 8-10C x -9-10C conturn 4 38-11028 Strain (Cott x-1 x 10) 2 38-11088-0400 41'x 38" - 8-10C x -9 TL Cott x 10'C conturn 3 70'Cott x + 10'C all C-80C Conturn 10'Cott x + 10'C all C-80C Conturn 10 70'Co	2 28-3432 Tappet Quelk Couplar Male (8010-16bulk) 2 28-34738 4 x 30 Long (2)(Hirder Bushed Tubde Ends 2 31-11998-10-8 HC Linnor (2403-10-8) 2 31-34030 Bukhead Minn JL (2700-8-8) 2 31-34030 Bukhead Run Tess JL (2700-8-8) 2 31-34040 Straight JL x O-Ring (6800-10-9) 4 34-12332 Oylinder Stadt Support 2 34-12332 Oylinder Stadt Support 2 34-12334 Hose Comp 2 35-11998-0400 44'' 338'''' - 8 FJIC 39'' - With Cordura 3 34-12334 Hose Comp 4 33-34023 58''' + 12''' - 23//C-34/'' Hose W Cordura (23M) 6 35-30183 29''' + 12'' - 23//C-34/'' Hose W Cordura 16 70-20807 34'' Hox Jam Nut NF 175 NOL Shown	1	2	11-12440	Power Pitch Stop Arm Weld]
2 28-34738 4 x 20 Long Cylinder Bushen Tübel Ends 2 31-11099-10-8 JIC Union (2403-10-8) 4 31-34000 Buikhead Rum Tee JIC (2704-8-8) 2 31-34031 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight JIC x O-Ring (6400-08-08) 2 31-41294 Power Pitch Soft Support 2 34-12924 Hose Clamp 2 35-112831 -10 Formed Steel Line (Lift Cylinder) 3 8 45-30135 78" x 1/2"-3JJIC-4JIC Hose w160" Cordura 4 53-3135 78" x 1/2"-3JJIC-4JIC Hose w160" Cordura 4 70-20007 34" Hose Net Grid Cylinder xits Not Shown	2 28-34738 4 x 20 Long Cylinder Buethed Tubed Erios 2 31-11696-106 Ji C Linor, 2403-16-9.) 4 31-34000 Bukhead Run Tee JIC (2704-8-8.) 2 31-34000 Straight JIC x O-Ring (6400-08-0) 2 31-3400 Straight JIC x O-Ring (6400-08-0) 2 31-3400 Straight JIC x O-Ring (6400-08-0) 2 31-4400-1-0.6 Straight JIC x O-Ring (6400-08-0) 2 31-3400 Straight JIC x O-Ring (6400-08-0) 2 31-412932 JiC x d-FILO Sole Villo Condura 3 34-12938 Hose Clamp 2 35-11688-040 Str x 38" d-FILO x d-FILO Sole Villo Condura 3 34-12932 Str 12* 3JIC x d-FILO Sole Villo Condura 4 38-31130 63" x 12" x 12* 3JIC x d-FILO Sole Villo Condura 5 37 t12* 3JIC x d-FILO Sole Villo Condura Sole Sole Fill Sole Fillo Yill x d-FILO Sole Villo Condura 6 70 20872 34" Hex.lam Nuk NF To 2087	2 28-84738 4.20 Long Cylinder Bushed Tubed Ends 2 2 31-11696-108 ILC Union (2405-108) 4 31-34000 Bushesed Run Tee JIC (2704-8-8) 2 31-34040 Straight JIC x O-Ring (640-06-06) 2 31-34040 Straight JIC x O-Ring (640-06-06) 2 31-34040 Straight JIC x O-Ring (640-06-06) 4 34-12032 Cylinder Stadle 3 34-12032 Cylinder Stadle 2 31-4600-10-08 Straight JIC x O-Ring (640-06-06) 4 34-12032 Cylinder Stadle 3 34-12044 Hoole Clinder 2 35-11680-040 Straight JIC x - Ring (640-06-06) 4 35-31130 63'x 12t' - All/C - All C Hole windor Contura 4 35-31130 63'x 12t' - All/C - All C Hole windor Contura 6 70-20047 34' 12t' - All/C - All C Hole windor Contura 16 77-20742 36' Flati Weaher 15 NUS Shown #18 replaces Hem #18 from Page 25 & #25 from Page 22-34.	2 28-34738 4 × 20 Long Cylinder Bushed Tubed Ends 2 31-11696-106 Ji C Lincin (2403-168) 4 31-34000 Bukhead Run Tee UIC (2704-8-8) 2 31-34000 Straight IIC x O-Ring (6400-06-10) 2 31-3400 Straight IIC x O-Ring (6400-08-10) 2 31-4400-1-0.6 Straight IIC x O-Ring (6400-08-10) 2 31-412984 Hose Clamp 2 31-12984 Hose Clamp 2 31-1986-0400 Straight IIC x O-Ring (6400-08-10) 2 35-11986-1404 Straight IIC x O-Ring (6400-08-10) 2 35-11986-1404 Hose Clamp 2 35-11986-1404 Hose Clamp 2 35-11986-140 Straight IIC x O-Ring (6400-08-10) 3 34-12984 Hose Clamp 2 35-11986-0510 Straight IIC x O-Ring (6400-08-10) 3 361/2842 Straight IIC x O-Ring (6400-08-10) 4 38-11986-0510 </td <td>2 28-34738 4 × 20 Long Cylinder Bushed Tubed Ends 2 31-11699-108 1/4 C Unon (2403-16-9) 4 31-34000 Buikhead Run Tea UIC (2704-8-8-8) 2 31-34030 Buikhead Run Tea UIC (2704-8-8) 3 34-12332 Orginate Steel Line (UIC Cylinder) 2 31-34030 Buikhead Run Tea UIC (270-Will Cordura 3 34-12394 Hose Clamp 2 35-11989-040 Stri 30" - 871/C × 871/C × 91/C × 100-Will Cordura 4 38-31130 63" x 112" × 31/C × 31/C × 481/C + 06 = Will Cordura 4 38-31130 63" x 112" × 31/C × 31/C + 281/C + 06 = Will Cordura 16 07 20307 34" Hex.Lam Nu Nf 17 20307 34" Hex.Lam Nu Nf 17 80-0207 34" Hex.Lam Nu Nf 17 80-0207 34" Hex.Lam Nu Nf 17 80-0208</td> <td>2</td> <td>8</td> <td>16-20070</td> <td>3/8" x 2-1/2" Hex Bolt Gr 5 NC</td> <td></td>	2 28-34738 4 × 20 Long Cylinder Bushed Tubed Ends 2 31-11699-108 1/4 C Unon (2403-16-9) 4 31-34000 Buikhead Run Tea UIC (2704-8-8-8) 2 31-34030 Buikhead Run Tea UIC (2704-8-8) 3 34-12332 Orginate Steel Line (UIC Cylinder) 2 31-34030 Buikhead Run Tea UIC (270-Will Cordura 3 34-12394 Hose Clamp 2 35-11989-040 Stri 30" - 871/C × 871/C × 91/C × 100-Will Cordura 4 38-31130 63" x 112" × 31/C × 31/C × 481/C + 06 = Will Cordura 4 38-31130 63" x 112" × 31/C × 31/C + 281/C + 06 = Will Cordura 16 07 20307 34" Hex.Lam Nu Nf 17 20307 34" Hex.Lam Nu Nf 17 80-0207 34" Hex.Lam Nu Nf 17 80-0207 34" Hex.Lam Nu Nf 17 80-0208	2	8	16-20070	3/8" x 2-1/2" Hex Bolt Gr 5 NC	
2 31-11698-10-4 JIC Union (2403-10-8) 4 31-34000 Builkhead Union. JIC (2700-8-8) 2 31-34030 Builkhead Run Tee JIC (2704-8-8-8) 2 31-34040 Straight JIC x-ORing (6400-10-8) 2 31-44040 Straight JIC x-ORing (6400-10-8) 4 34-12024 Hose Clamp 2 31-4400 Hose Straight JIC x-ORing (6400-10-8) 4 34-12024 Hose Clamp 2 35-12031 -10 Formed Steel Line (Lift Cylinder) 2 35-12031 -10 Formed Steel Line (Lift Cylinder) 2 35-1310 65''s 1/2'-4UIC-4BLIC Hose w/ Cordura 4 45-31130 65''s 1/2'-4UIC-4BLIC Hose w/ 165' Cordura 4 45-31130 65''s 1/2'-4UIC-4BLIC Hose w/165' Cordura 16 67-20742 38' Flat Washer 18 FO-206012 38'' Hyloc Hex Nut Gr S NC 19 rF0-20607 34' 44 24''s 140'' -4UIC-4BLIC Hose w/165' Cordura 16 67-20742 38'' Flat Washer 19 rF0-20607 34' 44''s 38''' -4E''s 10''''''''''''''''''''''''''''''''''	2 31-11680-10-8 JIC Union (2403-10-8) 4 4 31-34000 Buikhead Union JIC (2704-8-8-1) 2 31-34020 Buikhead Union JIC (2704-8-8-1) 2 31-1620-000 Buikhead Union JIC (2704-9-10-8) 2 31-12322 Cylinder Sadule 2 35-119323 10-Formod Steel Line (LIII Cylinder) 2 35-11930 Bit Y X 87 - BUIC X-8 FLIC X 8F JIC S00' - With Cocdura 3 34-12594 Hore Camp 2 35-11930 Bit Y X 87 - BUIC X-8 FLIC X 8F JIC S00' - With Cocdura 3 76 / 72-80/C-8JIC Hose w/160' Cordura 76 / 72 - BUIC X-8 / 72 - BUIC	2 31-11686-10-8 JIC Union (2403-10-8) 4 4 31-34000 Builhead Union JIC (2706-8-9) 2 31-34030 Builhead Union JIC (2706-8-9) 2 31-34040 Straight JIC x O-Ring (8400-08-80) 2 31-34040 Straight JIC x O-Ring (8400-18-8) 2 31-34051 Straight JIC x O-Ring (8400-18-8) 2 31-34052 Cylinder Saddle 1 4 34-12394 Hose Clamp 2 351-1056 Formoz Steel Line (LII Cylinder) Straight JIC x O-Ring (8400-18-8) 2 351-1058 O-Row Steel Line (LII Cylinder) Straight JIC x O-Ring (840-16-8) 2 351-1058 O-Row Steel Line (LII Cylinder) Straight JIC x O-Ring (840-16-8) 2 351-1058 O-Row Steel Line (LII Cylinder) Straight JIC x O-Ring (840-16-8) 2 351-1058 O-Row Steel Line (LII Cylinder) Straight JIC x O-Ring (840-16-12) 3 34-12594 44' x 38'' - 8F JIC x 8F JIC Steel Condura (35M) 4 353-0153 287 (24.42') x 12'' - AllC-All C Hose w Condura (35M) 5 702 00207 34'' Hex Jam Nut NF 15 NOT Shown To topologit Jic X Prover Pitch lis Shown. 0	2 31-11680-10-8 JIC Union (2403-10-8) 4 4 31-34000 Buikhead Union. JIC (2704-8-8-0) 2 31-34020 Buikhead Rum Tee JIC (2704-8-8-0) 2 31-34020 Stringith JIC x O-Ring (6801-0-8) 2 31-4804-10-08 Stringith JIC x O-Ring (6801-0-8) 2 31-4804-10-08 Stringith JIC x O-Ring (6801-0-8) 2 31-4804-10-08 Stringith JIC x O-Ring (6801-0-8) 2 31-1150 Alf X384* Alf X384* 2 35-11539 205 (74.42) x 102 - All C All C Hose Wordrura (35M) 8 38-30135 76* x 102 - All C-All C Hose (35M) 2 35-11539 205* (24.42) x 102 - All C-All C Hose Wordrura (35M) 8 35-30135 205* (24.42) x 102 - All C-All C Hose (35M) 16 72-20572 36* Mlyoc Her.Mul K F T NC 7ts Not Shown #10 replaces Item #18 from Page 25.8 #25 from Page 22-34. 16 70-20572 36* Mlyoc Her.Mul K F	2 31-11609-10-8 JIC Union (2403-10-8) 2 31-34000 Buildhead Union: JIC (2706-8-8) 2 31-34000 Straight JIC x O-Ring (460-08-48) 2 31-34001 Straight JIC x O-Ring (460-08-48) 2 31-34020 Straight JIC x O-Ring (460-08-48) 2 31-34020 Straight JIC x O-Ring (460-10-8) 2 31-43024 Hose Camp 2 31-43035 Drover Pitch Sch Support 2 31-11590-440 44" x 38" - 8 Full C x 8F Full C x8F 2 31-11590-440 44" x 38" - 8 Full C x8F Full C x8F 2 35-11580-040 44" x 38" - 8 Full C x8F Full C x8F 3 31-11590-040 44" x 38" - 8 Full C x8F Full C x8F 4 35-31130 65" x x8" - 8 Full C x8F 2 35-11580-040 44" x 38" - 8 Full C x8F 4 35-30135 78" x 172 - 430C-481C Hose wordbit? Cordura 5 70-20507 34" Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22.34. To 20507 16 770-20507 34" Hex Jam Nut NF To 20507 17 18 To 18 for Meage 19 for 18	3	2	25-34322	Tappet Quick Coupler Male (8010-16bulk)	
4 31-34000 Bulkhead Union JL (2700-8-8) 2 31-34040 Straight JLC X O-Ring (6400-08-89) 2 31-34040 Straight JLC X O-Ring (6400-08-89) 2 31-3400-10-08 Straight JLC X O-Ring (6400-08-89) 2 31-3400-10-08 Straight JLC X O-Ring (6400-08-89) 2 31-3400-10-08 Straight JLC X O-Ring (6400-10-8) 4 34-12934 Hose Clamp 2 2 35-31083 Dever Pluch Soft Support 2 35-312931 -10 Formed Steel Line (JIC Cylinder) 2 35-31083 295' (24-42') x 12'-8JIC-4BILC Hose (3.5M) 4 35-31183 295' (24-42') x 12'-8JIC-4BILC Hose (3.5M) 2 35-30183 295' (24-42') x 12'-8JIC-4BILC Hose (3.5M) 3 8 70-20812 38' Myoc Hex Nut Gr 5 NC 6 70-20812 38' Myoc Hex Nut Gr 5 NC	4 31-34000 Bukhead Union JIC (2700-84) 2 31-34030 Bukhead Union JIC (2700-84) 2 31-34040 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight JIC x O-Ring (6400-08-08) 2 31-34020 Bukhead Ribox 60° JIC x O-Ring (6801-08-10) 2 31-4400-10-08 Straight JIC x O-Ring (6400-10-8) 4 34-12332 Cylinder Sodale 2 34-12324 Hower Pitch Soft Soupect 2 34-12324 Hose Clamp 2 35-11932 Cylinder Sodale 2 35-11930 617 x 87 = 8 FJIC x 91 - With Cordura 4 35-31130 637 x 127 - 3JIC x 81C x 81 - G90 - With Cordura 16 57-20742 318 F bat Washer 8 70-20807 344' Hox Jam Nut NF 1fs Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	4 31-34000 Builthead Union JIC (2700-8-8) 2 31-34030 Builthead Kun Tee JIC (2704-8-8) 2 31-34030 Builthead Kun Tee JIC (2704-8-8) 2 31-34030 Builthead Kun Tee JIC (2704-8-8) 2 31-34040 Straight Timed Blow 60' JIC x O-Ring (6801-08-10) 2 31-34040 Straight Timed Blow 60' JIC x O-Ring (6801-08-10) 2 31-44051 Straight JIC x O-Ring (6400-10-8) 4 34-12384 Power Pitch Sch Support 2 34-12394 Hose Clamp 2 35-11880-0410 Straight JIC x 0-Ring (6400-10-8) 2 35-11880-0510 Straight X 30'' - 8-FJIC x 0-With Cordura 4 35-31130 37 x 12'' - 8JIC x 8-FJIC 90'' - With Cordura 4 35-31130 37 x 12'' - 8JIC x 8-FJIC 90'' - With Cordura 16 57-20742 38' Flat Washer 8 70-20817 38'' Flat Washer 8 70-20812 38'' Hai Jam Nul NF 15 NO Shown Flat Shown NF 4''B replaces Item #18 from Page 25 & #25 from Page 22-34. Orly Right Side Power Pitch Is Shown.	4 31-34000 Bukhead Union JIC (2700-8-8) 2 31-34030 Bukhead Run Tee JC (2704-8-8-6) 2 31-34040 Straight JIC x O-Ring (6400-08-8) 2 31-34051 Straight JIC x O-Ring (6400-08-8) 2 31-34051 Straight JIC x O-Ring (6400-08-8) 2 31-34051 Straight JIC x O-Ring (6400-10-8) 4 34-12382 Opwar Pitch Scif Support 2 31-4400-10-06 Straight JIC x O-Ring (6400-10-8) 3 34-12394 Hose Clamp 2 35-11392 Oplicate Stadel 3 34-12394 Hose Clamp 2 35-11680-4040 4* x30* a FJIC x 8-FJIC 90* With Cordura 4 35-31130 67* x12*-4JIC-8JIC Hose w/ Cordura 16 57-20742 318* Pist Washer 8 70-20807 34* Hex Jam Nut NF 16 70-20807 34* Hex Jam Nut NF 6 70-20807 34* Hex Jam Nut NF 7 70-20807 34* Hex Jam Nut NF 6 70-20807 34* Hex Jam Nut NF 7 70-20807 34* Hex Jam Nut NF 7<	4 31-34000 Bukhead Union JIC (2700-8-8) 2 31-34030 Bukhead Run Tee. IC (2704-8-6) 2 21-31-34030 Straight JIC x O-Ring (440-98-86) 2 21-34040 Straight JIC x O-Ring (440-10-6) 2 31-4400-10-06 Straight JIC x O-Ring (460-10-6) 4 31-1232 Opinion Elsow 910 2 31-4400-10-06 Straight JIC x O-Ring (460-10-6) 4 31-1232 Opinion Stadel 3 34-12324 Hose Clamp 2 35-13231 10-Formed Steel Line (Lin Cylinder) 2 35-13130 69" x 1/2" - 4JIC - 8JIC 00" - With Cordura 4 35-31130 69" x 1/2" - 4JIC - 8JIC - 8JIC 00" - With Cordura 4 35-31130 69" x 1/2" - 4JIC - 8JIC - 8JIC - 8JIC 00" - With Cordura 16 57-20742 30" Flat Washer 8 70-20807 34/ Hex Jam Nut NF 171 NO Elsown #J18 replaces Item #18 from Page 25 & #25 from Page 22-34. If the replaces Item #18 from Page 25 & #25 from Page 22-34. Origin With Cordura If the replaces Item #18 from Page 25 & #25 from Page 22-34. Origin With Stee Power Pitch Is Shoan.		2	26-34738	4 x 20 Long Cylinder Bushed Tubed Ends]
2 31-34030 Bulkhead Run Tee JIC (2704-8-8-4) 2 31-34040 Straight JIC x O-Ring (6400-06-80) 2 31-34061 Straight JIC x O-Ring (6400-08-80) 2 31-34061 Straight JIC x O-Ring (6400-08-80) 4 34-12384 Power Pitch Soft Support 2 34-12984 Hose Clamp 2 35-11088-0510 51* x 28* FJIC x 8 FJIC 90* - With Cordura 2 35-1130 63* x 12* - 8JIC x 8 FJIC 00* - With Cordura 4 35-31130 63* x 12* - 8JIC x 8 FJIC 00* - With Cordura 4 35-31130 63* x 12* - 8JIC x 8 FJIC 00* - With Cordura 5 35-30183 235* (24.42*) x 12* - 8JIC 48/IC Hose (3.5M) 2 35-102007 34* Hex Jam Nut NF if8 rsonor 36* Trigotop 34* Hex Jam Nut NF if8 rsonor 36* Trigotop 34* Hex Jam Nut NF if8 rsonor 10* or zonor 9 affic replaces Item #18 from Page 25 & #25 from Page 22-34.	2 31-34030 Buildhead Run Ter JIC (2704-8-8) 2 31-34040 Straight JIC x O-Ring (6800-08-69) 2 31-34051 Straight JIC x O-Ring (6801-08-10) 2 31-34051 Straight JIC x O-Ring (6801-08-10) 3 34-12438 Power Pitch Soft Support 2 34-12438 Power Pitch Soft Support 2 34-12934 Hose Clamp 2 35-11698-0404 44" x 38" - 8-FLIC x - 8-FLIC 90" - With Cordura 3 34-12924 Cylinder Sadde 3 3-12934 Hose Clamp 2 35-11698-0404 44" x 38" - 8-FLIC x - 8-FLIC 90" - With Cordura 4 3-51135 78" x 12" - 8LIC-8-BIC Hose w1165" Cordura 16 57-20207 34" Hex Jam Nut NF 1fs 57-2027 39" Flat Waher #18 replaces Item #18 from Page 25 & #25 from Page 22-34. Image: Complex Mount for 12-20 Image: Complex Mount for 12 Image: Complex Mount for 12-20 Image: Complex Mount for 12-20 Image: Complex Mount for 12-20 Image: Complex Mount for 12-20 Image: Complex Mount for 12-20 Image: Complex Mount for 12-20 Image: Complex Mount for 12-20	2 31-34030 Buildhead Run Tee, JIC (2704-8-8-1) 2 31-34040 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight Trivead Ellow 90° JIC x O-Ring (6400-10-8) 2 31-34051 Straight Trivead Ellow 90° JIC x O-Ring (6400-10-8) 2 31-34054 Power Pitch Soft Support 2 34-12436 Power Pitch Soft Support 2 34-12436 Power Pitch Soft Support 2 34-12436 Power Pitch Soft Support 2 35-11892-0401 44* x38"-8 FLIC x 5 FLIC 90° - With Cordura 3 34-12436 FLIC x 5 FLIC 90° - With Cordura 4 35-31130 65° x1/2" - 8JIC/-8JIC Hose w Cordura (5.8M) 8 35-30135 78° x 1/2" - 8JIC/-8JIC Hose w (165° Cordura 16 67:020617 38' Hav Jam Nut N° t5 Not Shoum Tot 20007 38' Hav Jam Nut N° #18 replaces Item #18 from Page 25 & #25 from Page 22-34. Tot 20007	2 31-34030 Buildhead Run Ter JIC (2704-8-8) 2 31-34040 Straight JIC x O-Ring (6800-08-08) 2 31-34051 Straight JIC x O-Ring (6801-08-10) 2 31-34051 Straight JIC x O-Ring (6801-08-10) 3 34-12438 Power Pitch Soft Support 2 35-1108-0440 44 x 38" - 6 FLIC x - 8 FLIC 90" - With Cordura 3 34-12944 Hose Clamp 2 35-1108-0440 44 x 38" - 6 FLIC x - 8 FLIC 90" - With Cordura 3 34-1294 Hose Clamp 2 35-1108-0450 44 x 38" - 6 FLIC x - 8 FLIC 90" - With Cordura 3 35-30135 78" x 12" - 8JIC-8JIC Hose w168" Cordura 16 57-20207 30" Hytoc Hex Nut Gr 5 NC 6 70-20207 30" Hytoc Hex Nut Gr 5 NC 7 72-203742 39" Flau A and Mut NF #18 replaces Item #18 from Page 25 & #25 from Page 22-34. Orly Right Side Power Pitch Is Shown.	2 31-34030 Buildhead Run Tee JIC (2704-8-86) 2 31-34040 Straight JIC x O-Ring (6800-08-80) 2 31-34040 Straight JIC x O-Ring (6801-08-10) 2 31-34040 Straight Thread Elbow 80° JIC x O-Ring (6801-08-10) 3 34-12438 Power Pitch Soft Support 2 34-12438 Power Pitch Soft Support 2 34-12434 Hose Clamp 2 35-11088-0440 44" x 38" - 8-TIC x = 8 TIC 90" - Will Cordura 3 34-12434 Hose Clamp 2 35-11088-0440 44" x 38" - 8-TIC x = 8 TIC 90" - Will Cordura 4 35-31130 85" x 10" - 8 TIC - 801C Hose w165" Cordura 16 57-20742 38" Fill Waher 16 57-20742 38" Fill Waher 16 57-20742 38" Fill Waher 17 72-20807 34" Hex Jam Nut NF 17818 From M 1981 From Page 25 & #25 from Page 22-34. 1981 From Page 25 & #25 from Page 22-34. Origin Page Page Page Page Page Page Page Page		2	31-11699-10-8	JIC Union (2403-10-8)]
2 31:34040 Straight JIC x O-Ring (6400-08-08) 2 31:34051 Straight JIC x O-Ring (6400-08-08) 4 34:12382 Cylinder Saddle 2 31:4400-10-08 Straight JIC x O-Ring (6400-10-8) 4 34:12382 Cylinder Saddle 2 34:12382 Cylinder Saddle 3 34:12382 Cylinder Saddle 2 35:1088-0440 44" x 38" - 8 FLIC S0". With Cordura 2 35:1130 63" x 12" - 8JIC - 8JIC C 90". With Cordura 4 35:31130 63" x 12" - 8JIC - 8JIC C 90". With Cordura 4 35:31130 63" x 12" - 8JIC - 4JIC Hose w165" Cordura 16 57.20742 30" Flat Washer 6 70:20807 314" Hex Jam Nut NF 178 Not Shown n#18 replaces Item #18 from Page 25 & #25 from Page 22-34. Only Right Side Power Pitch Is Shown. 10 57.20742 30 164 170:20807 314" Hex Jam Nut NF 1818 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 31-34040 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight Thread Elbow 90" JIC x O-Ring (6400-10-8-10) 2 31-4400-10-08 Straight Thread Elbow 90" JIC x O-Ring (6400-10-8-10) 2 31-4400-10-08 Straight Thread Elbow 90" JIC x O-Ring (6400-10-8-10) 2 31-4520 Cylinder Saddle 2 34-12394 Hose Clamp 2 35-12391 -10 Formed Steel Line (LII Cylinder) 2 35-11088-0440 44" x 38" 3-FLIC x 9-FLIC 90" - With Cordura 2 35-11088-0440 44" x 38" 3-FLIC x 9-FLIC 90" - With Cordura 2 35-11088-0440 44" x 38" 3-FLIC 91-C-WIC Hose w/165" Cordura 3 35-30183 295" (24.42") x 12"-8LIC-8JIC Hose w/165" Cordura 16 57-20742 38" Filat Weaher 8 70-20612 38" Hote Nutl R5" NC 17<0-20070	2 31-34040 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight JIC x O-Ring (6400-08-08) 2 31-34051 Straight JIC x O-Ring (6400-10-8) 2 31-4405 Straight JIC x O-Ring (6400-10-8) 2 31-4405 Straight JIC x O-Ring (6400-10-8) 2 34-12994 Hose Clamp 2 34-12994 Hose Clamp 2 35-12932 Cylinder Saddle 2 35-12934 Hose Clamp 2 35-12935 1*0 France Stel Line (LII Cylinder) 2 35-11698-0404 4# x 38" - 8-FLIC x 8-FLIC 00" - With Cordura 3 34-12994 Hose Clamp 2 35-11698-0404 4# x 38" - 8-FLIC x 8-FLIC 00" - With Cordura 3 35 37 12 - 8JIC-8JIC Hose wito'S Cordura 4 35-30183 293' (24-21) x 12" - 8JIC-8JIC Hose wito'S Cordura 16 57-20742 30' Flat Weaher 8 70-20607 34' Hex Jam Nut NF 15 Not Shown *10 replaces Item #18 from Page 22-34. **10 replaces Item #18 from Page 25.8 #25 from Page 2'	2 31-34040 Straight JIC x O-Ring (8400-08-08) 2 31-34051 Straight Thread Elbow 90" JIC x O-Ring (8400-10-8-10) 2 31-4400-10-08 Straight JIC x O-Ring (8400-10-8) 2 31-4400 Straight JIC x O-Ring (8400-10-8) 2 31-4505 Drow Philos Oft Support 2 34-12994 Hose Clamp 2 35-12931 -10 Formed Steel Line (LIIC Oylinder) 2 35-11088-0440 44" x 38" a FJIC x 4 FJIC 00" - With Cordura 2 35-11088-0440 44" x 38" a FJIC x 4 FJIC 00" - With Cordura 2 35-11088-0440 44" x 38" a FJIC x 4 FJIC 00" - With Cordura 3 35-30183 293" (24 42") x 12"-8JIC-8JIC Hose w(165" Cordura 16 57-20742 38" FFlat Weaher 8 70-20612 38" Hox Nut NF" 178 Not Shown #18 replaces Item #18 from Page 22.34. 178 freplaces Item #18 from Page 25 & #25 from Page 22-34. 0 170 0 0 170 0 0 170 0 0 170 0 0 18 16" stole Power Plub Is Shown. 0	2 31-34040 Straight JIC x O-Ring (6800-08-08) 2 31-34051 Straight Thread Elbow 90" JIC x O-Ring (6801-08-10) 2 31-4040 Straight Thread Elbow 90" JIC x O-Ring (6801-08-10) 2 31-4040 Straight Thread Elbow 90" JIC x O-Ring (6801-08-10) 2 31-4040 At x12382 Cylinder Saddle 2 34-12394 Hose Clamp Elbow 90" JIC x 0-Ring (6801-08-10) 2 35-12391 +105 Dormed Steel Line (Lift Cylinder) 2 35-1130 85" x 12" - 8JIC-8JIC 100" - With Cordura 4 35-31130 85" x 12" - 8JIC-8JIC Hose w/165" Cordura 4 35-31130 85" x 12" - 8JIC-8JIC Hose w/165" Cordura 116 57-20742 38" Filat Weaher 8 76-20612 38" Hyloc Hex Nut Or 5 NC 6 70-20612 38" Hyloc Hex Nut NF rts Not Shown #18 replaces Item #18 from Page 25.8 #25 from Page 22-34. 0 With replaces Item #18 from Page 25.8 #25 from Page 22-34.		4	31-34000	Bulkhead Union JIC (2700-8-8)]
2 31-34061 Straight Thread Ellow 90°. JIC x O-Ring (8601-08-10) 2 31-6400-10-08 Straight JIC x O-Ring (400-10-8) 4 34-12332 Cylinder Saddle 2 35-12331 -10 Formed Steel Line (Lift Cylinder) 2 35-11398-0440 44° x 38° - 8 FJIC x - 8 FJIC 90°. With Cordura 2 35-11398-0440 44° x 38° - 8 FJIC x - 8 FJIC 90°. With Cordura 2 35-11398-0440 44° x 38° - 8 FJIC x - 8 FJIC 90°. With Cordura 3 34 - 12394 Hose Clamp 2 35-11398-0440 44° x 38° - 8 FJIC x - 8 FJIC 90°. With Cordura 3 35 30135 78° x 12° - 8JIC + 8JIC 90°. With Cordura 4 35-30135 78° x 12° - 8JIC + 8JIC Hose w/165° Cordura 16 57-20742 38° Flat Washer 16 70-20827 34' Hex Jam Nut NF xtfs Not Shown • • xtf Paralleces Item #18 from Page 25 & #25 from Page 22-34. • 0 • • 0 • • 1#18 replaces Item #18 from Page 25 & #25 from Page 22-34. • 0 • • 0 • <td< th=""><td>2 31-34061 Straight Thread Elbow 90° JIC X O-Ring (6801-08-10) 2 31-4400-10-08 Straight JIC X O-Ring (6400-10-8) 4 34-12436 Power Pitch Soft Support 2 34-1284 Hose Clamp 2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-1284 Hose Clamp 2 35-1286-0440 44° x 38° - 8 FL/C x -8 FL/D c 0°- With Cordura 3 35-1188-0440 44° x 38° - 8 FL/C x -8 FL/D c 0°- With Cordura 4 35-31130 61° x 12° - 30/C-8JIC Hose wCordura (3.5M) 8 75-20817 78° x 12° - 30/C-8JIC Hose w165° Cordura 16 76-2042 38° FINW Washer 16 77-02012 38° FNW Washer 16 77-02012 38° FNW Washer 16 77-02012 38° FNW Washer 17 90 90 90 90 16 97-02742 38° FNW Washer 16 70-20807 34° Hex Jam Nut NF 100 17 90 90 90 90 16 91 91 91 91 91</td><td>2 31-34061 Straight Thread Elbow 60" JIC x O-Ring (6801-08-10) 2 31-6400-10-08 Straight Thread Elbow 60" JIC x O-Ring (6801-08-10) 4 34-12246 Power Pitch Sott Support 2 34-12230 Cylinder Saddle 3 34-12204 Hose Clamp 2 35-12351 -10 Formed Steet Line (Lift Cylinder) 2 35-12351 -10 Formed Steet Line (Lift Cylinder) 2 35-12351 -10 Formed Steet Line (Lift Cylinder) 2 35-1235 FJIC x -8 FJIC So¹- With Cordura 4 35-30135 78" x 1/2" -8JIC/-8JIC Hose w165' Cordura 16 570-20807 34" Hex Jam Nut NF 15 NORShown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. #18 replaces Item #18 from Page 25 & #25 from Page 22-34. The store of th</td><td>2 31-34061 Straight Thread Elbow 90' JIC X O-Ring (6801-08-10) 2 31-4400-10-08 Straight JIC X O-Ring (6400-10-8) 4 34-12436 Power Pitch Soft Support 2 34-1232 Cylinder Saddle 3 34-12844 Hose Clamp 2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-12834 -10 Formed Steel Line (Lift Cylinder) 2 35-17868-0440 44* 38* - 8-FLiC X - 8 FLiC X - 9 FLic</td><td>2 31-34051 Straight Thread Elbow 00' JIC X O-Ring (6801-08-10) 2 31-4405-10-08 Straight JIC x O-Ring (6400-10-8) 4 34-1286 Power Pitch Soft Support 2 34-12924 Hose Clamp 2 35-1293.1 -10 Formed Stead lune (JII Cylinder) 2 35-1328.2 Cylinder Sadde 2 35-1328.4 -10 Formed Stead Line (JII Cylinder) 2 35-13188.60-01 41' x 38' - 8-FJIC 90' - With Cordura 4 35-31130 65' x 112' - 8JIC/4.3IC Hose wit Cordura (3.5M) 8 15-30135 78' x 12' - 3JIC/4.3IC Hose wit 65' Cordura 16 16 70-2007 34' Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22-34. If with the tam Nut NF 17 Not Shown #18 from Page 25 & #25 from Page 22-34. 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The store of th	2 31-34061 Straight Thread Elbow 90' JIC X O-Ring (6801-08-10) 2 31-4400-10-08 Straight JIC X O-Ring (6400-10-8) 4 34-12436 Power Pitch Soft Support 2 34-1232 Cylinder Saddle 3 34-12844 Hose Clamp 2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-12834 -10 Formed Steel Line (Lift Cylinder) 2 35-17868-0440 44* 38* - 8-FLiC X - 8 FLiC X - 9 FLic	2 31-34051 Straight Thread Elbow 00' JIC X O-Ring (6801-08-10) 2 31-4405-10-08 Straight JIC x O-Ring (6400-10-8) 4 34-1286 Power Pitch Soft Support 2 34-12924 Hose Clamp 2 35-1293.1 -10 Formed Stead lune (JII Cylinder) 2 35-1328.2 Cylinder Sadde 2 35-1328.4 -10 Formed Stead Line (JII Cylinder) 2 35-13188.60-01 41' x 38' - 8-FJIC 90' - With Cordura 4 35-31130 65' x 112' - 8JIC/4.3IC Hose wit Cordura (3.5M) 8 15-30135 78' x 12' - 3JIC/4.3IC Hose wit 65' Cordura 16 16 70-2007 34' Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22-34. If with the tam Nut NF 17 Not Shown #18 from Page 25 & #25 from Page 22-34. 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2 31:4400-10-08 Straight JIC × 0-Ring (6400-10-8) 4 34:12932 Cylinder Sadole 2 34:12932 Cylinder Sadole 3 34:12994 Hose Clamp 2 35:11698-0440 44' x 3/8' - 8-FJIC x/8 FJIC 90' - With Cordura 4 35:31130 65'' x 1/2' - 8JIC/-8JIC Hose w/165' Cordura 4 35:30135 78'' x 1/2' - 8JIC/-8JIC Hose w/165' Cordura 16 57:20742 3/8' Flat Washer 8 70:20612 3/8' Nyloc Hex Nut Gr 5 NC 6 70:20807 3/8' Hex Jam Nut NF rtfs Not Shown #/18 from Page 25 & #25 from Page 22-34.	2 31-6400-10-08 Straght JL X A-Ring (8400-10-8) 4 34-1288 Power Pitch Soft Support 2 34-1283 Cylinder Saddle 2 34-1283 Cylinder Saddle 2 34-1283 Cylinder Saddle 2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-1108-0440 41* 338" - 8-FJIC 30" - Wilk Cordura 3 35-30135 78" x 12" - 8JIC-8JIC 100" - With Cordura 3 35-30135 78" x 12" - 8JIC-8JIC Hose W/165" Cordura 8 35-30135 28" T12" - 8JIC-8JIC Hose W/165" Cordura 16 57-20742 38" Flat Washer 8 70-20807 34" Hex Jam Nut NF rts Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 17 18 57-20742 18 70-20807 34" Hex Jam Nut NF 15 Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 18 70-20807 34" Hex Jam Nut NF 19 10 10 10 10 10 11 10 10 15 10	2 31-6400-10-08 Straight JUC X O-Ring (6400-10-8) 4 34-12436 Power Pitch Soft Support 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11980-6440 44* x 38* - 8-FUC x -8-FUIC S0* With Condura 3 35-3015 78* x 12* - 8-UIC-8UIC Hose w(165* Condura 4 35-30153 283* (24.27) x 112* - 8-UIC-8UIC Hose w(165* Condura 16 57-20742 38* (Fial Washer 8 16 67-202607 34* Hex Jam Nut NF 15 15 NO Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 31-6400-10-08 Straght JLC X O-Ring (8400-10-8) 4 34-1283 Power Pitch Soft Support 2 34-1283 Cylinder Saddle 2 34-1283 Cylinder Saddle 2 34-1283 Cylinder Saddle 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1198-0440 4* 330* -8 FJIC X -8 FJIC S0* (With Cordura 3 35-30135 63* 112* -8JIC/-8JIC Hose With Cordura 3 35-30135 78* 112* -8JIC/-8JIC Hose With Cordura 8 35-30135 78* 112* -8JIC/-8JIC Hose With Cordura 16 57-20742 38* Flav Waaher 8 70-20807 34* Hex Jam Nut NF rts Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 31-4400-10-08 Straight JC X O-Ring (8400-10-8) 4 34-12436 Power Pitch Soft Support 2 34-12932 Cylinder Saddle 3 34-12934 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1198-0440 4* X 38* - 8 FJIC X - 8 FJIC 90* - With Cordura 3 35-1198-0400 4* X 38* - 8 FJIC X - 8 FJIC 90* - With Cordura 3 35-1198-0400 4* X 38* - 8 FJIC X - 8 FJIC 90* - With Cordura 3 35-30135 78* X 12* - 8JIC/-8JIC Hose wit Cordura (3.5M) 8 35-30135 289* (24.42°) x 12* - 8JIC/-8JIC Hose wit Cordura 16 67-029807 34* Hex Jam Nut NF rts Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 17 70-20807 34* Hex Jam Nut NF 17 70-20807 34* Hex Jam Nut NF 17 70 70 18 70-20807 34* Hex Jam Nut NF 17 70 70 18 70-20807 34* Hex Jam Nut NF 19 70 70 19 70 70		2	31-34040	Straight JIC x O-Ring (6400-08-08)]
4 34-12436 Power Pitch Soft Support 2 34-12932 Cylinder Saddle 3 34-12994 Hose Clamp 2 35-11698-0440 44" x 30" - 8 FJIC x-8 FJIC 90" - With Cordura 4 35-311608-0510 61" x 30" - 8 FJIC x-8 FJIC 90" - With Cordura 4 35-31130 63" x 112" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 8 35-30183 293" (24-42) x 112" - 8JIC/-8JIC Hose w/165" Cordura 16 57-20742 316" Flat Washer 8 70-20807 3/4" Hex Jam Nut NF inth Not Shown	4 34-12436 Power Pitch Soft Support 2 34-1294 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11988-0400 44' x 38'' - 8 FJIC 590'' - With Cordura 3 35-31130 63'' x 12'' - 8JJIC-8JJIC Hose w/ Cordura (3.5M) 4 35-30163 203'' C4-42' x 12'' - 8JJIC-8JIC Hose w/ 165'' Cordura 16 57-20742 38'' Flat Washer 8 70-20612 38'' Nijce Hex Nut Gr 5 NC 6 70-20607 34'' Hex Jam Nut NF #18 replaces Item #18 from Page 25 & #25 from Page 22-34. If the shown of the s	4 34-12436 Power Ptch Soft Support 2 24-12932 Cylinder Saddle 3 34-1294 Hose Clamp 2 25-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1294 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1198-040 4* x 38* -8 FJIC 20* - With Cordura 3 35-31130 63* x 12* -8JIC-8JIC Hose with Cordura 4 35-31130 63* x 12* -8JIC-8JIC Hose with 65* Cordura 8 70-20607 34* Hex Jam Nut NF 18 57-20742 38* Flat Washer 8 70-20607 34* Hex Jam Nut NF 18 to Follown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 18 from Page 25 & #25 from Page 22-34. 19 0 0 10 0 0 118 from Page 25 & #25 from Page 22-34.	4 34-12436 Power Pitch Soft Support 2 34-1294 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11988-0440 44' x 36'' - 8 FJIC 50'' - With Cordura 3 35-30163 25'' (24-42') x 12'' - 8JIC/6 JIC Hose w/165' Cordura 16 57-20742 316' Flat Washer 18 70-20612 36'' Nidoc Hex Nut Gr 5 NC 6 70-20607 34'' Hex Jam Nut NF #18 replaces Item #18 from Page 25 & #25 from Page 22-34. If the replace sitem #18 from Page 25 & #25 from Page 22-34.	4 34-12436 Power Pitch Soft Support 2 34-1294 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11088-0440 44' x 36"-8 FJIC S0F'. With Cordura 2 35-511088-0440 44' x 36"-8 FJIC S0F'. With Cordura 4 35-31130 65' x 1/2'-8JIC/ABIC Hose w/160' Cordura 2 35-30183 203'(24-42') x 1/2'-8JIC/ABIC Hose w/160' Cordura 16 57-20742 38' Flat Washer 17 To-20807 34' Hex Jam Nut NF rts Not Shown 16' 7-20742 38' Flat Washer 18 70-20807 34' Hex Jam Nut NF rts Not Shown 16' 0' 0' 0' 0' 0' 0' 0' 0' 0' 0' 0' 0' 0'	1	2	31-34051	Straight Thread Elbow 90° JIC x O-Ring (6801-08-10)]
2 34-12932 Cylinder Saddle 3 34-12994 Hose Clamp 2 35-12931 -10 Formed Skel Line (Lift Cylinder) 2 35-11698-0440 44" x 38" - 8 FJIC x - 8 FJIC or-With Cordura 4 35-31130 63" x 1/2" - 8JIC/-8JIC Hose W/ Cordura (3.5M) 8 35-30135 78" x 1/2" - 8JIC/-8JIC Hose W/ 165" Cordura 16 57-20742 3/8" Flat Washer 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20607 3/4" Hex Jam Nut NF rfts Not Shown	2 34-12932 Cylinder Saddle 3 34-12994 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1198-0440 44" x 38" - 8 FJIC 20" - With Cordura 2 35-1198-0440 44" x 38" - 8 FJIC 90" - With Cordura 4 35-31130 61" x 12" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 8 35-30135 78" x 12" - 8JIC/-8JIC Hose w/ 165" Cordura 16 67-20742 316" Flat Washer 17 70-20017 314" Hex Jam Nut NF 17s Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 34-12932 Cylinder Saddle 3 34-12994 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1198-0440 41* 38" - 8 FJIC 90" - With Cordura 3 44 35-31130 63" x 1/2" - 8JIC/AJIC Hose w/ Cordura (3.5M) 8 15-30135 78" x 1/2" - 8JIC/AJIC Hose w/ Cordura 18 57-20742 38" Flat Washer 8 70-20807 3/4 Hex Jam Nut INF 15 Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 34-12932 Cylinder Saddle 3 34-12994 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-1198-0440 44" x 38" - 8 FJIC S0" - With Cordura 2 35-1198-0440 44" x 38" - 8 FJIC S0" - With Cordura 4 35-31130 68" x 12" - 8JIC/-8JIC Hose w1 Cordura 4 35-30135 78" x 12" - 8JIC/-8JIC Hose w1 Cordura 8 73-2012 38" Flat Washer 16 67' 20742 348" Flat Washer 17 70-20070 34" Hex Jam Nut NF rts Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 18 70-20070 34" Hex vam Nut NF 19 70-20070 34" Hex vam Nut NF 10 0 0 0 17 18 70-20070 34" Hex vam Nut NF 17 19 10 0 0 18 70-20070 34" Hex vam Nut NF 0 0 19 10 0 0 0 0 19 10 0 0 0 0 0	2 34-12922 Cylinder Saddle 3 34-12944 Hose Clamp 2 35-12931 -10 Formed Skel Line (Lift Cylinder) 2 35-1198-0440 44" x 38" - 8 FJIC x -8 FJIC 90" - With Cordura 3 35-31130 63" x 112" - 8JIC - 4JIC Hose w Cordura (3 5M) 4 35-31130 63" x 112" - 8JIC - 4JIC Hose w Cordura 8 35-30135 78" x 112" - 8JIC - 4JIC Hose w Cordura 16 77-20742 38" Flat Washer 175 Not Shown	1	2	31-6400-10-08	Straight JIC x O-Ring (6400-10-8)	
3 34-12994 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44* x38* -8 FJIC x8 FJIC 90* - With Cordura 4 35-30130 63* x12* -8 JJIC +80 FLOS 90* - With Cordura (3.5M) 8 35-30133 29* (24.42*) x12* -8 JJIC +80 FLOS 90* Ordura (3.5M) 16 57-20742 3/8* Flat Washer 8 70-20612 3/8* Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4* Hex Jam Nut NF rtfs Not Shown	3 34-12944 Hose Clamp 2 35-13931 -10 Formed Steel Line (Lift Cylinder) 2 35-1398-0404 44" x 30" - 8 FJIC x - 8 FJIC x - 9 Vith Cordura 3 4 45 351130 63" x 10" - 8 FJIC x - 8 FJIC x - 9 Vith Cordura 4 45 351130 63" x 10" - 8 FJIC x - 8 FJIC	3 34-12944 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11988-0440 44' x 3it" -8 FJIC x -8 FJIC x -0'' - With Cordura 2 35-11988-0510 51'' x 3it" -8 FJIC x -8 FJIC x -0'' - With Cordura 3 34-1294 44'' x 3it" -8 FJIC x -8 FJIC x -0'' - With Cordura 4 35-31130 61'' x 3it" -8 FJIC x -8 FJIC x -0'' - With Cordura 3 3 -5 30135 78' x 12'' -8JIC -8JIC Hose w/Grdua (3.5M) 8 35-30135 78' x 12'' -8JIC -8JIC Hose w/Grdua (3.5M) 6 70-20807 3/4' Hex Jam Nut INF ts Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 10 50 0''' 11 6'''' 0'''' 12 36''' 10''''' 13 10''' 10'''''' 14''' 10''''' 10''''''''''''''''''''''''''''''''''''	3 34-12944 Hose Clamp 2 35-13931 -10 Formed Steel Line (Lift Cylinder) 2 35-1398-0404 44" x 30" - 8 FJIC x - 8 FJIC x - 9 Vith Cordura 3 4 45 351130 63" x 10" - 8 FJIC x - 8 FJIC x - 9 Vith Cordura 4 45 351130 63" x 10" - 8 FJIC x - 8 FJIC	3 34-12994 Hose Clamp 2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11088-0440 44" x 36" -8 FJIC x 8 FJIC x 90" - With Cordura 3 34 12994 Hose Clamp 2 35-11088-0440 44" x 36" -8 FJIC x 8 FJIC x 90" - With Cordura 3 34 1598-0510 51" x 38" -8 FJIC x 8 FJIC x 90" - With Cordura 4 35-3113 63" x 12" -8JIC/-8JIC Hose w/ Cordura (3.5M) 2 35-30183 293" (24.42") x 12" -8JIC/-8JIC Hose w/ 166" Cordura 16 57' 20742 38" Flat Waster 8 702-0812 38" Nyloc Hex Nut Gr 5 NC 6 702-0807 34" Hex Jam Nut NF rts Not Shown	1	4	34-12436	Power Pitch Soft Support	1
2 35-12831 -10 Formed Steel Line (Lft Cylinder) 2 35-11898-0440 44" x 3/8" - 8 FJIC x-9 FJIC 90" - With Cordura 4 35-31130 65" x 1/2" - 8JIC/-8JIC Hose w Cordura (3.5M) 2 35-11698-0510 51" x 3/8" - 8 FJIC x-8 FJIC 90" - With Cordura 4 35-31130 65" x 1/2" - 8JIC/-8JIC Hose w Cordura (3.5M) 2 35-30183 293" (24.42") x 1/2" - 8JIC/-8JIC Hose w/165" Cordura 16 57-20742 3/8" Flat Washer 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF Infl B replaces Item #18 from Page 25 & #25 from Page 22-34. 10 0 0 0 0 0 0 0 0 0 0 0 0 18/18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 0 0 0 18/18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 10 0 0 0 0 0 10 0 0 0 0 0	2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44" x 318" - 8 FJIC x 9 FJIC 90" - With Cordura 3 35-31130 63" x 1/2" - 8JIC/-8.01 CHose w/ Cordura (3.5M) 4 35-30183 293" (24.42") x 1/2" - 8JIC/-8.01 CHose w/ 165" Cordura 16 57-20742 38" Flat Washer 18 70-20612 38" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22-34.	2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44" x 3/8" - 8 FJIC x -9 FJIC 30" - With Cordura 2 35-11698-0510 51" x 3/8" - 8 FJIC x -9 FJIC 20" - With Cordura 4 35-31130 63" x 1/2" - 8JIC/-8JIC Hose w/rotal (3.5M) 2 35-30183 293" (24-42) x 1/2" - 8JIC/-8JIC Hose w/rotal (3.5M) 2 35-30183 293" (24-42) x 1/2" - 8JIC/-8JIC Hose w/rotal (3.5M) 2 35-30183 293" (24-42) x 1/2" - 8JIC/-8JIC Hose w/rotal (3.5M) 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF ts Not Shown #18 from Page 25 & #25 from Page 22-34. #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 0 0 0 10 0 0 116 57-20742 3/8" Hex Jam Nut NF 115 15 or 12/10 0 12 16 0 0 136 16 10 0 141 170 16 10 150 0 0 0	2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44" x 318" - 8 FJIC x 9 FJIC 90" - With Cordura 3 35-31130 63" x 1/2" - 8JIC/-8.01 CHose w/ Cordura (3.5M) 4 35-30183 293" (24.42") x 1/2" - 8JIC/-8.01 CHose w/ 165" Cordura 16 57-20742 38" Flat Washer 18 70-20612 38" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22-34.	2 35:12931 -10 Formed Steel Line (Lift Cylinder) 2 35:11988-0440 44" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 2 35:11988-0510 51" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 4 35:31130 63" x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 2 35:30183 25" x 1/2" - 8JIC/-8JIC Hose w/ 165" Cordura 16 57:20742 3/8" Flat Washer 18 70:20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70:20807 3/4" Hex Jam Nut NF rts Not Shown ##18 from Page 25 & #25 from Page 22:34. 10 0 0 11 65" cordura 12 13 13 70:20612 36" Thyloc Hex Nut Gr 5 NC 0 14 14" to 20017 15 bown ************************************	1	2	34-12932	Cylinder Saddle	1
2 35-12831 -10 Formed Steel Line (Lft Cylinder) 2 35-11898-0440 44" x 3/8" - 8 FJIC x-9 FJIC 90" - With Cordura 4 35-31130 65" x 1/2" - 8JIC/-8JIC Hose w Cordura (3.5M) 2 35-11698-0510 51" x 3/8" - 8 FJIC x-8 FJIC 90" - With Cordura 4 35-31130 65" x 1/2" - 8JIC/-8JIC Hose w Cordura (3.5M) 2 35-30183 293" (24.42") x 1/2" - 8JIC/-8JIC Hose w/165" Cordura 16 57-20742 3/8" Flat Washer 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF Infl B replaces Item #18 from Page 25 & #25 from Page 22-34. 10 0 0 0 0 0 0 0 0 0 0 0 0 18/18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 0 0 0 18/18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 10 0 0 0 0 0 10 0 0 0 0 0	2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44" x 318" - 8 FJIC x 9 FJIC 90" - With Cordura 3 35-31130 63" x 1/2" - 8JIC/-8.01 CHose w/ Cordura (3.5M) 4 35-30183 293" (24.42") x 1/2" - 8JIC/-8.01 CHose w/ 165" Cordura 16 57-20742 38" Flat Washer 18 70-20612 38" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22-34.	2 35-12931 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44" x 3/8" - 8 FJIC 30" - With Cordura 2 35-11698-0510 51" x 3/8" - 8 FJIC 20" - With Cordura 4 35-31130 63" x 1/2" - 8JIC/-8JIC Hose w/ for Cordura (3.5M) 2 35-30183 293" (24-42") x 1/2" - 8JIC/-8JIC Hose w/ for Cordura 16 67-20742 3/8" Flat Washer 8 70-20612 3/6" Nyloc Hex Nut Gr 5 NC 6 70-20607 3/4" Hex Jam Nut NF ts Not Shown #18 from Page 25 & #25 from Page 22-34.	2 35-12831 -10 Formed Steel Line (Lift Cylinder) 2 35-11698-0440 44" x 318" - 8 FJIC x 9 FJIC 90" - With Cordura 3 35-31130 63" x 12" - 8JIC x -8 FJIC x 90" - With Cordura 4 35-31130 63" x 12" - 8JIC x -8 FJIC x 90" - With Cordura 8 35-30183 293" (24-42") x 12" - 8JIC x -8 FJIC x 90" - With Cordura 16 57-20742 38" Flat Washer 8 70-20612 38" Nyloc Hex Nut Gr 5 NC 6 70-20807 34" Hex Jam Nut NF rts Not Shown #18 from Page 25 & #25 from Page 22-34. 10 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0 0 9 0	2 35:12931 -10 Formed Steel Line (Lift Cylinder) 2 35:11988-0440 44" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 2 35:11988-0510 51" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 4 35:31130 63" x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 2 35:30183 25" x 1/2" - 8JIC/-8JIC Hose w/ 165" Cordura 16 57:20742 3/8" Flat Washer 18 70:20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70:20807 3/4" Hex Jam Nut NF rts Not Shown ##18 from Page 25 & #25 from Page 22:34. 10 0 0 11 65" cordura 12 13 13 70:20612 36" Thyloc Hex Nut Gr 5 NC 0 14 14" to 20017 15 bown ************************************	-				1
2 35-11698-0440 44" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 2 35-11698-0510 51" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 4 35-31130 63" x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 2 35-11698-0510 51" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 4 35-30135 78" x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 2 35-30135 78" x 1/2" - 8JIC/-8JIC Hose w/ 165" Cordura 16 57-20742 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF arts Not Shown 10 00 n#18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 2 0 0 36" 0 0 16 57-20742 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF n#18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 10 0 0 20 0 0 20 0 0 21 0 0 16 17 0	2 35-11698-0444 44' x 3/8' - 8 F.JIC x - 8 F.JIC 90' - With Cordura 2 35-11698-0510 51' x 3/8' - 8 F.JIC x - 8 F.JIC 90' - With Cordura 4 4 35-31130 63'' x 1/2' - 8J.IC/-8J.IC Hose WCordura (3.5M) 2 35-30135 78'' x 1/2' - 8J.IC/-8J.IC Hose W165'' Cordura 16 57-20742 3/8' Flat Washer 8 70-20612 3/8' Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4' Hex Jam Nut NF ths Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 35-11698-0440 44' x 3/8' - 8 F.JIC x - 8 F.JIC 90' - With Cordura 2 35-11698-0410 51' x 3/8'' - 8 F.JIC x - 8 F.JIC 90' - With Cordura 4 35-31130 63'' x 1/2' - 8J.IC + 3 F.JIC 90' - With Cordura 4 35-31130 63'' x 1/2' - 8J.IC + 3 F.JIC 90' - With Cordura 2 35-30136 78'' x 1/2' - 8J.IC + 3 F.JIC 90' - With Cordura 16 57-20742 38'' Flat Washer 8 70-20807 3/4' Hex Jam Nut NF ts Not Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 0 0 0 0 0 0 0 0 16 57-20742 3/8' Flat Washer 16 7-020427 3/8' Flat Washer 17 0 0 18 ropose 7 3/4' Hex Jam Nut NF 19 10 0 18 ropose 7 0 19 0 0 10 0 0 10 0 0 10 0 0 10<	2 35-11698-0444 44' x 3/8' - 8 FJIC x - 8 FJIC 90' - With Cordura 2 35-11698-0510 51' x 3/8' - 8 FJIC x - 8 FJIC 90' - With Cordura 4 35-31130 63'' x 1/2' - 8JIC/-8JIC Hose WCordura (3.5M) 8 35-30135 78'' x 1/2' - 8JIC/-8JIC Hose w165'' Cordura 16 57-20742 3/8' Flat Washer 8 70-20807 3/4' Hex Jam Nut NF 15h Not Shown #18 replaces Item #18 from Page 25.8 #25 from Page 22-34.	2 35-11998-0440 44' x 38'' - 8 FJIC x - 8 FJIC 90'' - With Cordura 2 35-11998-0510 51'' x 38''' - 8 FJIC x - 8 FJIC 90'' - With Cordura 4 35-31130 63'' x 12'' - 8JIC - 8JIC Hose W Cordura (3.5M) 8 35-30135 78'' x 12'' - 8JIC - 4JIC Hose w 165'' Cordura 16 57-20742 38'' Telt Washer 8 70-20612 38'' Nyloc Hex Nut Gr 5 NC 6 70-20607 34' Hex Jam Nut NF rts Not Shown ##18 from Page 25 & #25 from Page 22-34. 0 0 0 0 0 0 0 0 0 17 910'' Cattring 0 18 rotocold 18'' Cordura 10 0 0 116 17'' Corde 38'' Nyloc Hex Nut Gr 5 NC 116 10'' Corde 10'' Corde 117 116'' Corde 116'' Corde 118 rotocold 116'' Corde 119 0'' Corde 0'' Corde 119 0'' Corde 0'' Corde 119 0'' Corde 0'' Corde 119 <td< td=""><td>-</td><td></td><td></td><td></td><td>1 </td></td<>	-				1
2 35-11698-0610 51" x 3/8" - 8 FJIC 90" - With Cordura 4 35-31130 63" x 1/2" - 8JIC / -8JIC / -8J	2 35-11698-0510 51" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 4 35-31130 63" x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 2 35-30183 293" (24-27) x 1/2" - 8JIC/-8JIC Hose w/ 166" Cordura 16 57 20742 3/8" Flat Washer 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20612 3/8" Hex Jam Nut NF rts Nol Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34.	2 35-11698-0510 51" x 3/8" - B FJIC x - B FJIC 90" - With Cordura 4 35-31130 63" x 1/2" - BJIC/-BJIC/-BJIC Hose w/ Cordura (3.5M) 8 35-30135 78" x 1/2" - BJIC/-BJIC/-BJIC Hose w/ 165" Cordura 16 57-20742 3/8" Flat Washer 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20607 3/4" Hex Jam Nut INF ts Not Shown #18 replaces Item #18 from Page 25.8 #25 from Page 22-34. 0 0 0 0 0 0 0 0 0 0 0 0 18 replaces Item #18 from Page 25.8 #25 from Page 22-34. 0 0 0 0 18 replaces Item #18 from Page 25.8 #25 from Page 22-34. 0 18 replaces Item #18 from Page 25.8 #25 from Page 22-34. 0 18 replaces Item #18 from Page 25.8 #25 from Page 22-34. 0 19 0 0 0 10 0 0 0 11 0 0 0 12 0 0 0 13 0	2 35-11698-0510 51"x 3/8" - 8 FJIC x-8 FJIC 90" - With Cordura 4 35-31130 63"x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 8 35-30135 78" x 1/2" - 8JIC/-8JIC Hose w/ 166" Cordura 16 57-20742 3/8" Flat Washer 8 70-20612 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20612 3/4" Hex Jam Nut NF rts Nol Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 0 0 0 0 0 0 0 0 16 57-20742 3/8" Nyloc Hex Nut Gr 5 NC 6 70-20807 3/4" Hex Jam Nut NF rts Nol Shown #18 replaces Item #18 from Page 25 & #25 from Page 22-34. 0 0 0 0 11 0 0 0 0 12 0 0 0 0 0 13 0 0 0 0 0 0 14 replaces Item #18 from Page 25 & #25 from Page 25 & #25 1 0 0 0 0	2 35-11698-0510 51" x 3/8" - 8 FJIC x - 8 FJIC 90" - With Cordura 4 35-31130 63" x 1/2" - 8JIC/-8JIC Hose w/ Cordura (3.5M) 8 35-30135 78" x 1/2" - 8JIC/-8JIC Hose w/ 165" Cordura 16 67' 20742 3/8" Hat Washer 8 70-20817 3/4" Hex Jam Nut NF rts Not Shown	-				Coupler Mount for 12-20
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Contact Us

As always, if you have any questions about your 12-20 Dozer or other products made by Grouser, feel free to contact us.

Grouser Products 755 2nd Ave NW - West Fargo, ND 58078 Phone: 1-800-747-6182 Fax: 1-701-282-8131 E-mail: grouser@grouser.com Website: www.grouser.com



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 one year. If such equipment is found to be defective within one year, 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.

