



FH-443 Front Hitch

Owner's Manual & Parts Book

Grouser Products

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Purchase Date
Serial Number
Model Number
Tractor Model
Dealer

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Welcome to the Owner	Thank you for your recent purchase of a Grouser FH-440 Front Hitch. Welcome to the family of satisfied Grouser Front Hitch owners. Grouser Products is committed to offering quality products to help professionals in their daily jobs. We are also committed to providing you the highest level of customer satisfaction possible. Again, thank you for your patronage. We look forward to serving you.	
	This manual contains information concerning the operation, adjustment, safety and maintenance of the FH-440 Front Hitch. You have purchased a dependable, long lasting piece of equipment. You can expect to receive long lasting performance and long service built into our products with proper care and operation. Please have all operators read and understand this manual carefully. Keep the manual available for reference. If, for any reason, you have questions or comments, we would be happy to hear from you. Call our toll-free number, 800-747-6182, or send us an e-mail at info@grouser.com. You can expect us to respond to your e-mail in a timely manner.	

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

The FH-440 Front Hitch:

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

Servicing the FH-440 Front Hitch:

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

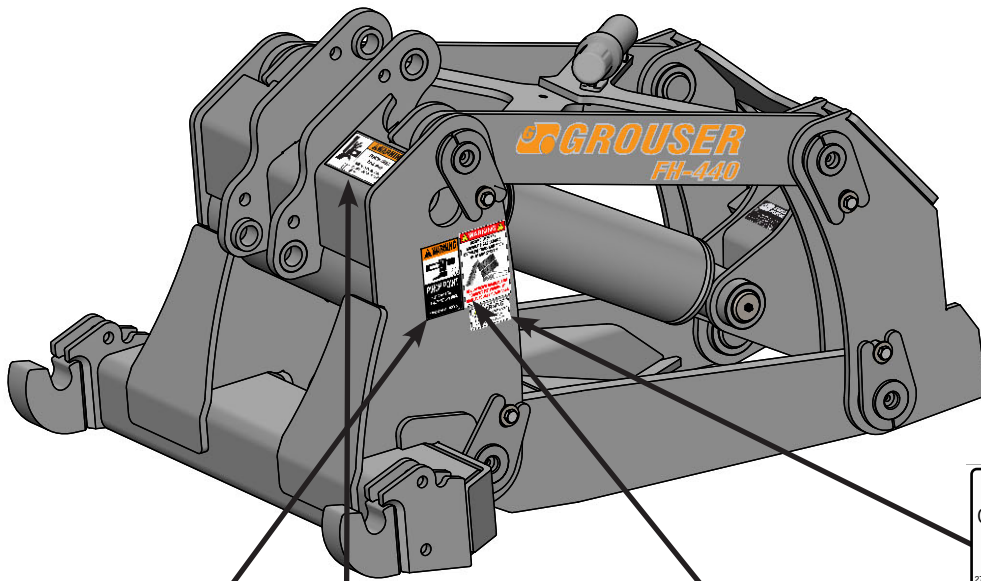
Storing the FH-440 Front Hitch:

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

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

Size	Torque - Dry (ft-lbs)			
	SAE Grade 5		SAE Grade 8	
	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

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



⚠ WARNING
Cancer and Reproductive Harm
For more information go to
www.P65Warnings.ca.gov
27-40962
PN: 27-40962

⚠ WARNING

PINCH POINT
AVOID INJURY FROM
FRAME PIVOT AND STOPS.
• Keep hands and feet away.
27-9503

PN: 27-9503
Left and Right Side

⚠ WARNING

PINCH AREA
Keep away
Failure to comply could
result in death or serious
injury.
27-2409

PN: 27-2409

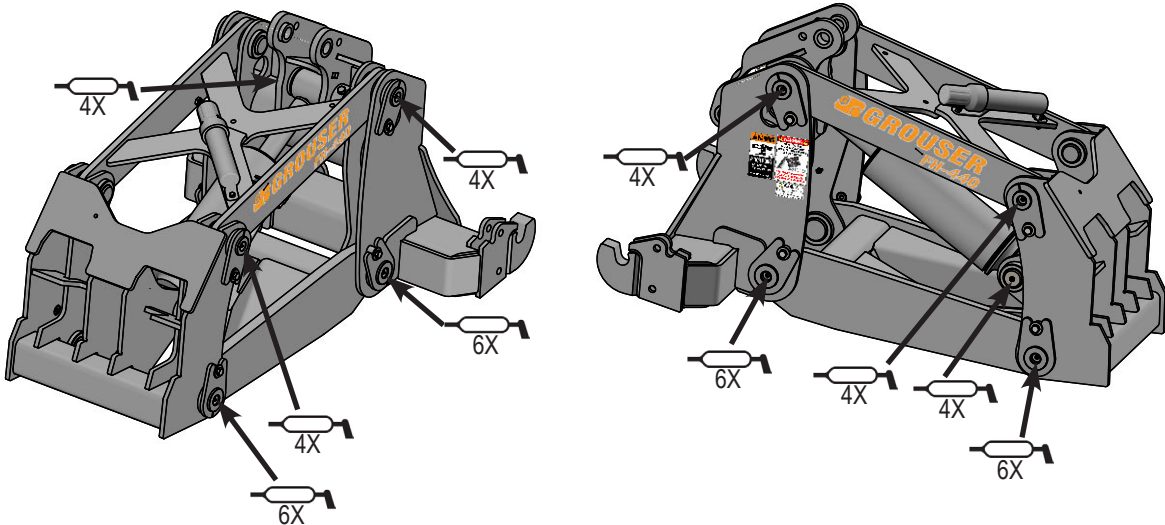
⚠ WARNING ⚠
**INSURE THERE IS
ADEQUATE CLEARANCE
BETWEEN TIRES AND BACK
OF BLADE SYSTEM**

**SEE OWNER'S MANUAL FOR
CORRECT EXTENSION TO
GAIN ADEQUATE CLEARANCE**
27-40425

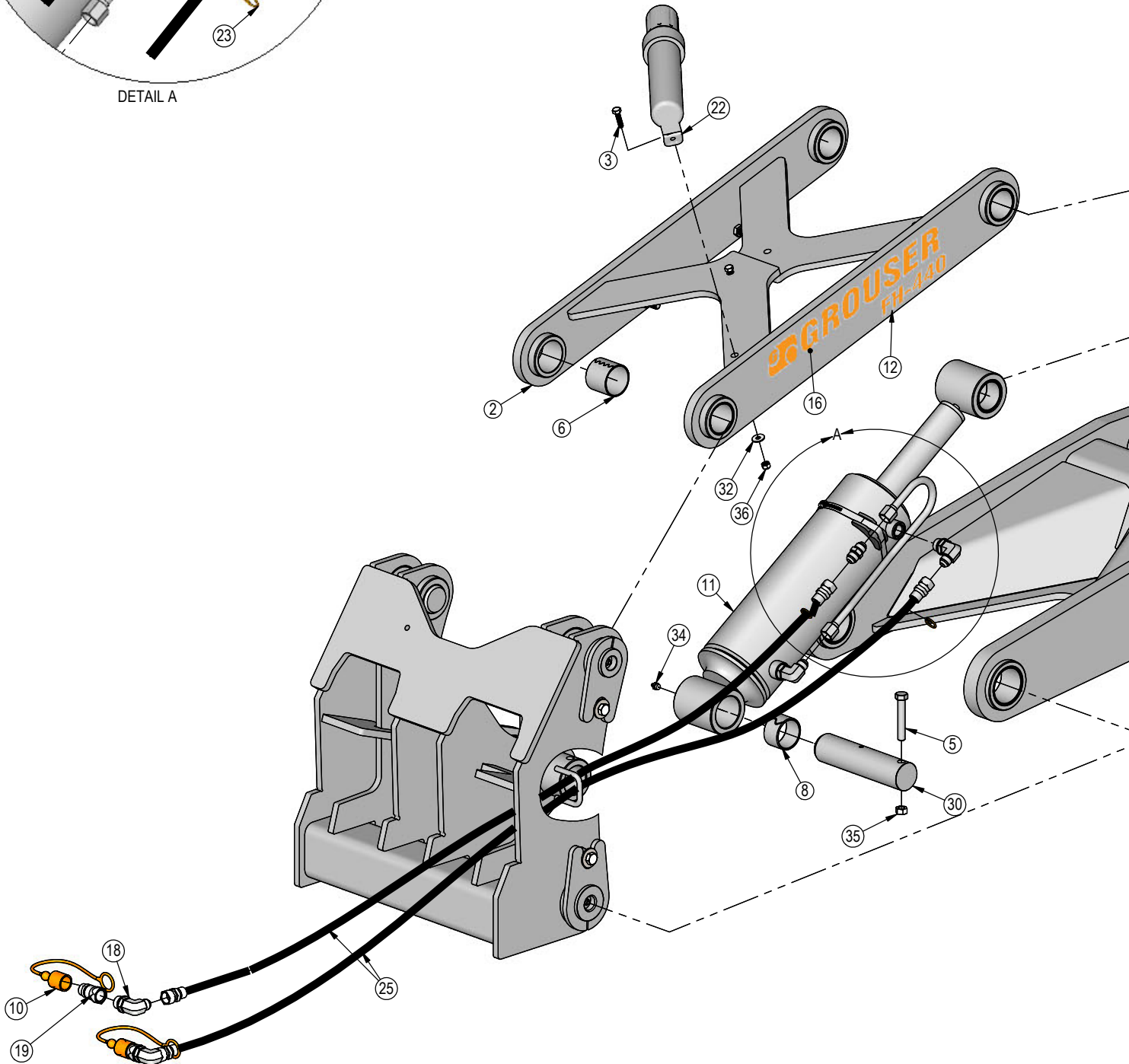
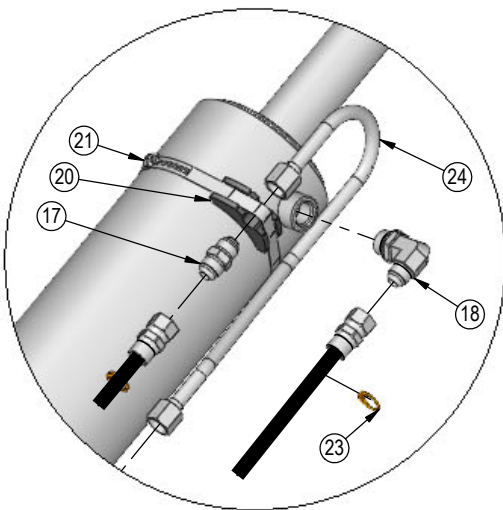
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Due to the harsh environment this equipment operates in, the following tasks should be performed every 10 hours or less.

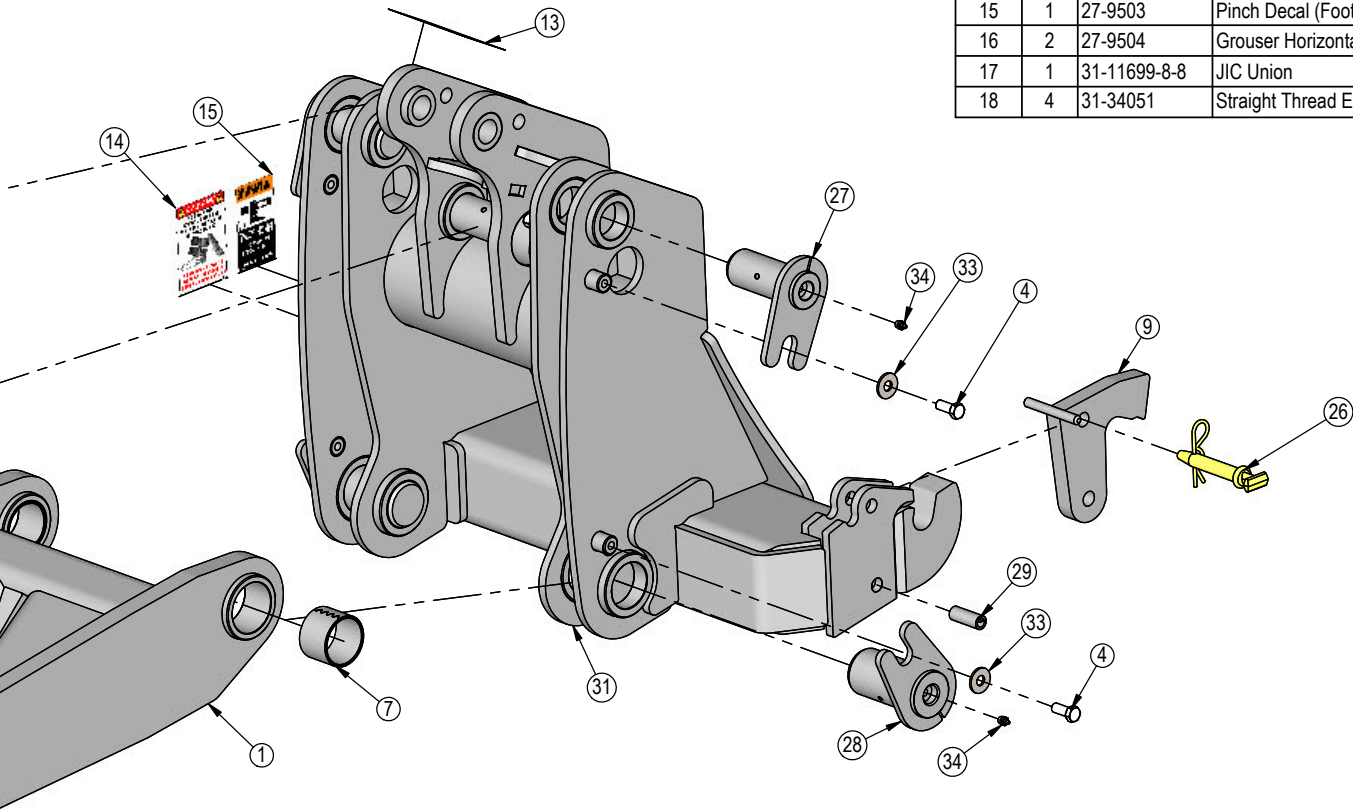
- Inspect all equipment before operation for existing or potential damage.
- Lubricate all joints with high quality grease. See below for grease locations.
- Inspect all bolts, and tighten any loose bolts to torque specifications on page 3.
- Check hydraulic cylinders and hoses for damage or leaks. For replacement parts, see hydraulic pages for your specific system.
- Make sure all non-rotating pins are secured properly.
- Inspect all decals and order replacement decals from your dealer if any are damaged or worn.
- Replace parts with original parts only.



	Grease Locations
Lift System	10



ITEM NO.	Qty.	PART NO.	DESCRIPTION
1	1	11-19000	Lower Arm
2	1	11-19010	Top Arm
3	2	16-20035	5/16" x 1-1/4" Hex Bolt Gr. 5
4	8	16-20125	1/2" x 1-1/4" Hex Bolt Gr 5 NC
5	2	16-20424	1/2" x 3-1/2" Hex Bolt Gr 8 NC
6	4	19-7954	2.25 x 2.00 x 2.00 Spring Bushing
7	4	19-16328	2.75 x 2.50 x 2.00 Spring Bushing
8	4	19-40419	2.25 x 2.00 x 1.38 Spring Bushing
9	2	22-15701	Latch Weld
10	2	25-3457	Pioneer Dust Cap Lift (Orange)
11	1	26-34748	5 x 12 Hydraulic Cylinder
12	2	27-17263	FH-440 Decal
13	1	27-2409	Pinch Decal (Hand)
14	1	27-40425	Warning Decal - Torque Arm
15	1	27-9503	Pinch Decal (Foot)
16	2	27-9504	Grouser Horizontal Decal
17	1	31-11699-8-8	JIC Union
18	4	31-34051	Straight Thread Elbow 90° JIC x O-Ring

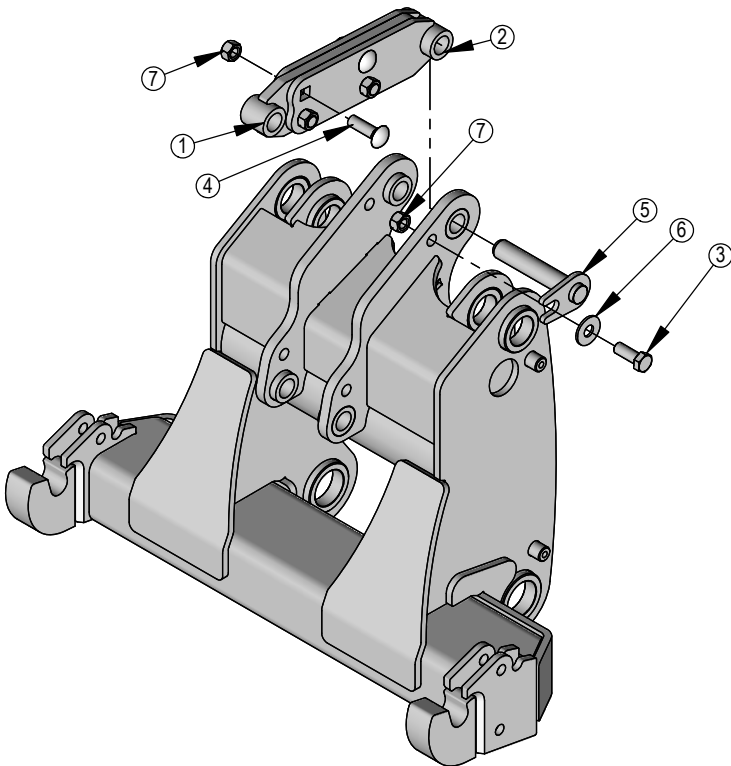
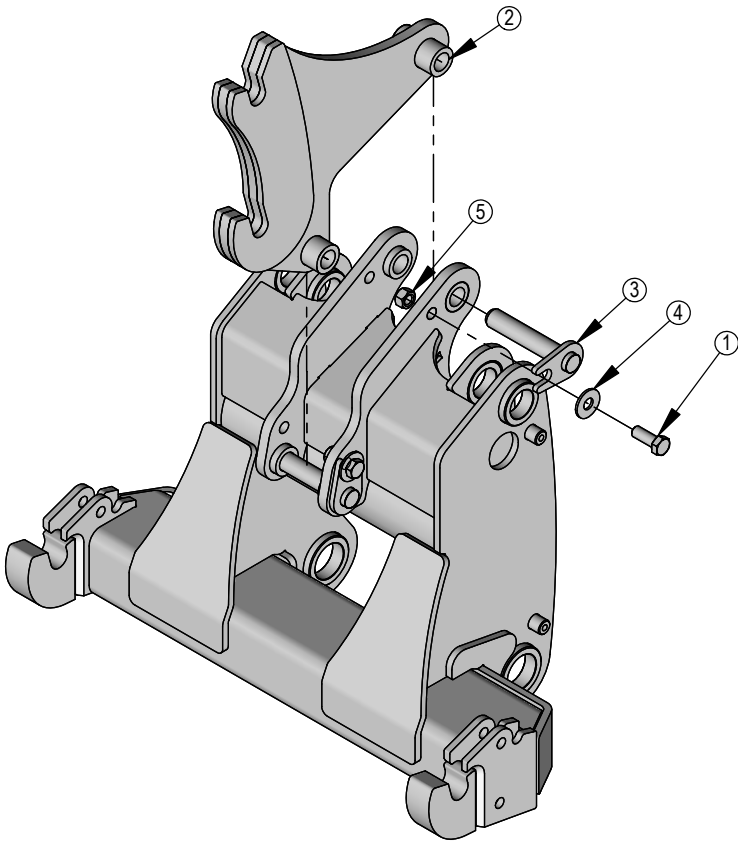


ITEM NO.	Qty.	PART NO.	DESCRIPTION
19	2	25-34342	Tappet Quick Coupler Male
20	1	34-12932	Cylinder Saddle
21	1	34-12933	Hose Clamp (worm drive - 5.0)
22	1	34-14961	Manual Canister Small
23	4	34-18888-OR	-12 Orange - Spiral Band
24	1	35-17260	Tube Assembly
25	2	35-17721-280-1	280" x 1/2" -8JIC/-8JIC Hose
26	2	43-15712	3/4" x 3-1/4" Pin with Hitch Pin Clip
27	4	43-16385	Top Pin Assy.
28	4	43-16390	Bottom Pin
29	2	43-17905	3/4" x 1/2" x 2.00" Spring Pin
30	2	43-18405	Cylinder Pin
31	1	45-42700	FH 440 Lift - 3pt
32	2	57-20741	5/16" Flat Washer
33	8	57-20794	1/2" Washer
34	10	58-9369	Straight 1/8" NPT Grease Zerk
35	2	70-20604	1/2" Center Lock Hex Nut
36	2	70-20611	5/16" Nyloc Hex Nut Gr. 5

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

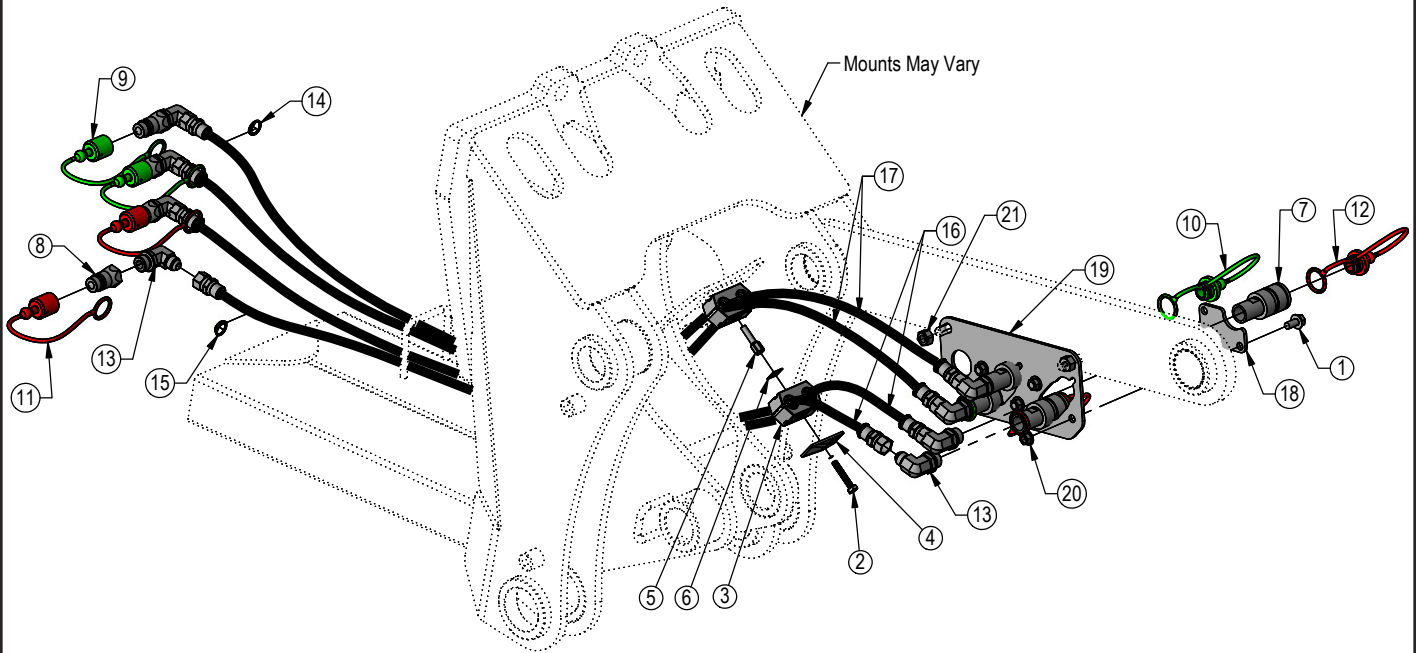
No. On Cylinder	Part No.	Description
26-34748	49-12277	Seal Kit 5 x 12 - Nitrided Rod

42720-A			
ITEM NO.	Qty.	PART NO.	DESCRIPTION
1	2	16-20218	3/4" x 2" Hex Bolt Gr.5 NC
2	1	18-42720	Bracket, Quick Hook
3	2	43-42599	Pin
4	2	57-20747	3/4" Flat Washer
5	2	70-20607	3/4" Center Lock Hex Nut Gr 2 NC



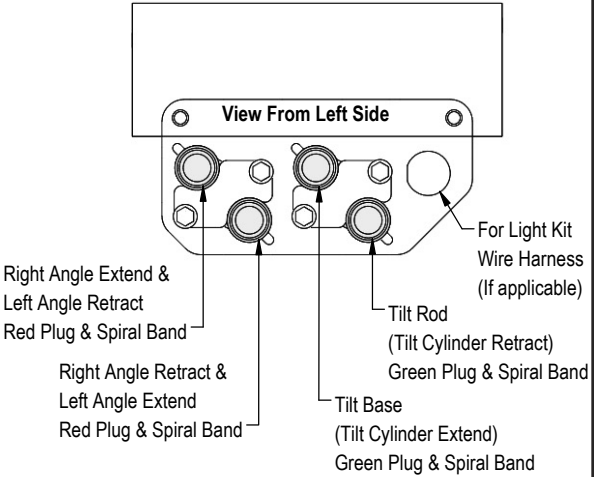
Note: After top link is adjusted, torque bolts to 260 ft-lbs.

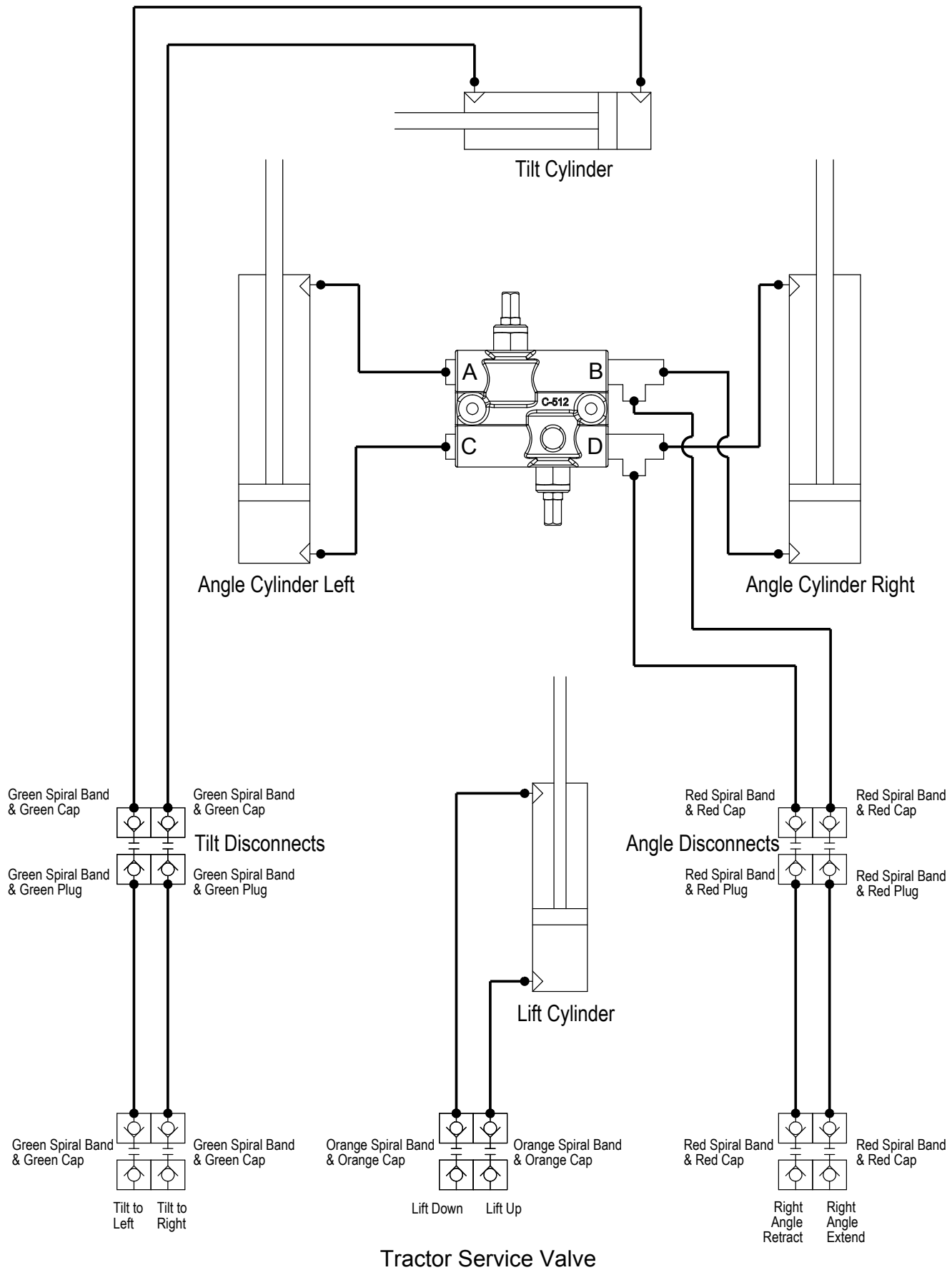
42710-A			
ITEM NO.	Qty.	PART NO.	DESCRIPTION
1	1	11-42711	End Weld 1
2	1	11-42712	End Weld 2
3	1	16-20218	3/4" x 2" Hex Bolt Gr.5 NC
4	4	16-21220	3/4" x 2.50" Carriage Bolt Gr.5
5	1	43-42599	Pin
6	1	57-20747	3/4" Flat Washer
7	5	70-20607	3/4" Center Lock Hex Nut Gr 2 NC



Some parts hidden for clarity
See Page 10 for hydraulic schematic.

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





Contact Us

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

Grouser Products

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Improvements

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

Warranty

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

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

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

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

