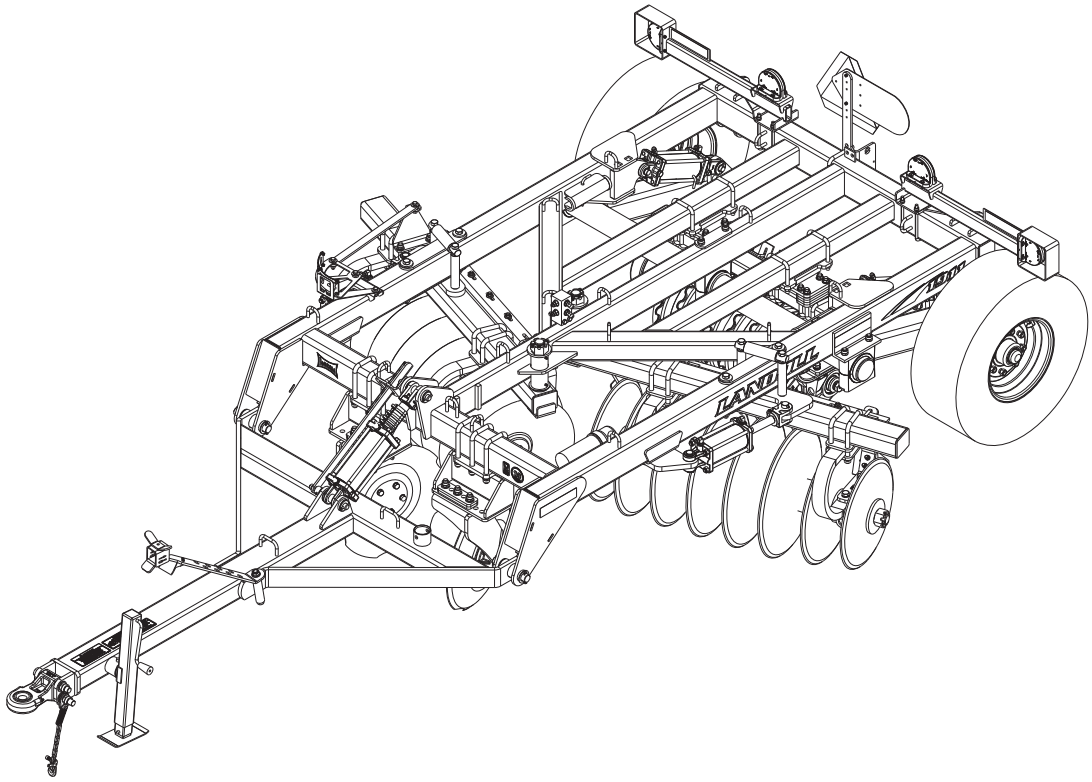
Model 1911
Filloll
Operator's/ Part's Manual



LANDOLL COMPANY, LLC
1900 North Street
Marysville, Kansas 66508
(785) 562-5381
800-428-5655 ~ WWW.LANDOLL.COM

F-1183-2504

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone #: 800-423-4320 or 785-562-5381 **Fax #: 888-527-3909**
Order online: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model number and serial number, is located on the front of the frame ***See Figure 1-1***.

SERIAL NUMBER

The following information will help decode the XX-XXX serial number.

19H2500100 = xxmyyssssss

QR CODE DECAL

The 1911 series QR code decal, may be scanned to link you to the most current manuals, located on the front of the frame. ***See Figure 1-1.***

xx	= model series (i.e. 19 for Filloll)
m	= month of manufacture (ex. "H" means October. The letter I is not used.)
yy	= year manufactured (ex. "25" means 2025)
sssss	= Sequential number used to track warranty and service information.

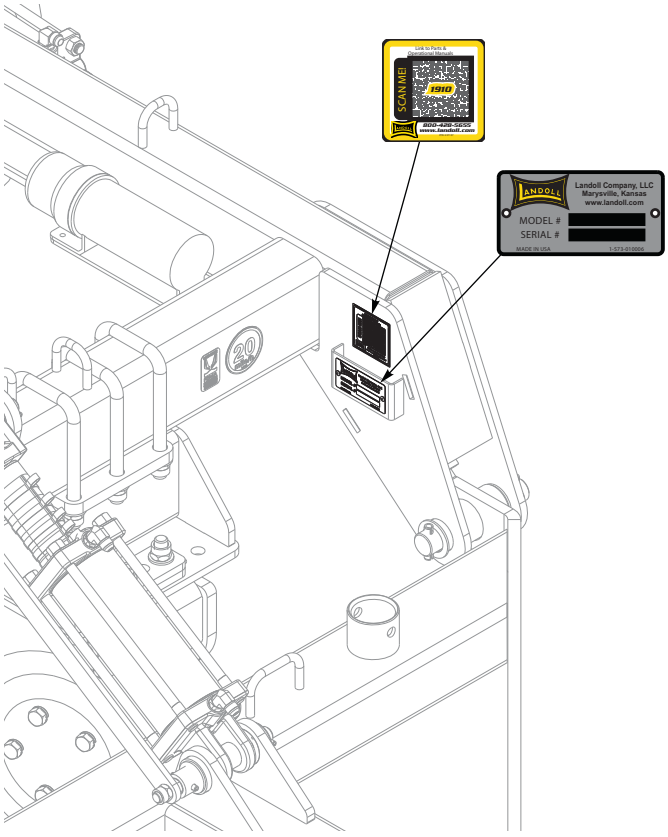


Figure 1-1: Data Plate and QR Code Location

Manuals for 1911 Filloll

Manual Number	Manual Type
F-1183	Operator's, Part's Manual

DANGER

DO NOT operate or perform any maintenance tasks on this equipment until you have completed the following:

1. **Receive proper training to operate this equipment safely.**
2. **Read and understand the operator's manual.**
3. **Be thoroughly trained on inspection and repair procedures.**

Failure to comply with this warning may result in serious injury or possibly death.

Table of Contents

Introduction and Safety Information

Introduction

The Filloll described in this manual has been designed with care and built by skilled workers using quality materials and processes. Proper assembly and maintenance will provide you with satisfactory use for seasons to come.

DANGER

Read this entire manual before attempting to assemble, adjust or operate this implement. Failure to comply with this warning can result in personal injury or death, damage to the implement or its components and inferior operation.

Using This Manual

This manual will familiarize you with safety, assembly, operation, adjustment, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

- The information in this manual is current at time of printing. Some parts may have changed to assure top performance.
- Location reference: Right and Left designations in this manual are determined by facing the direction the implement will travel during field operation, unless otherwise stated.

Owner Assistance

If customer service or repairs are needed, contact your Landoll dealer. Implement parts should only be replaced with Landoll parts. Have the Serial Number and complete Model Number available when ordering parts from your Landoll dealer. If items covered in this manual are not understood, contact your local Landoll Dealer.

Warranty Registration

To be eligible for Warranty, registration must be on file at Landoll Company, LLC. It is the responsibility of the dealer to register the machine within 10 days of purchase or lease on the Dealer Portal. Check with the dealer to verify the machine has been registered.

NOTE: IMPROPER ASSEMBLY, MODIFICATION, OR MAINTENANCE OF YOUR LANDOLL MACHINE CAN VOID YOUR WARRANTY.

Enter your product information below for quick reference.

Refer to the Data Plate as shown. ***See Figure 1-1***

MODEL NUMBER _____

SERIAL NUMBER _____

DATE OF PURCHASE _____

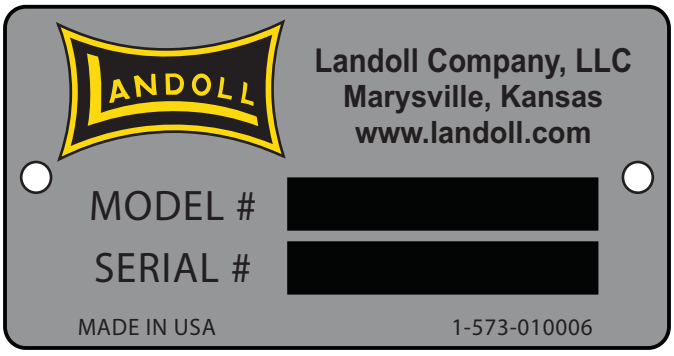


Figure 1-1: Data Plate

A LANDOLL® Company

LANDOLL COMPANY, LLC

Product Warranty

LANDOLL COMPANY, LLC, 1600 W. 8th St., Beloit KS, 67420

Landoll Company, LLC shall Warrant workmanship and materials on the ***ICON Farm Products*** for a period of 12 months from the date of original purchase, lease, or rental, from the original Dealer, and in accordance with the following terms and conditions:

- Should any part or component fail within the Warranty period, and under normal use conditions, Landoll Company, LLC shall supply a new part or component for replacement through the original Dealer. Cost of normal ground freight, for that part or component to the Dealer, shall be paid by Landoll Company, LLC. Repair and replacement labor cost, from the original Dealer, shall be paid by Landoll Company, LLC at a rate negotiated by Landoll Company, LLC.
- No further expense shall be paid by Landoll Company, LLC, including but not limited to, loss of time or income.

Landoll Company, LLC shall not provide Warranty on any part or component that has failed due to abuse, misuse, alteration, improper maintenance, or normal wear. Failure occurring while being pulled by a tractor in excess of engine horsepower, as described in the owners manual and/or posted on the machine, is considered abuse and misuse and shall not receive Warranty. Warranty applies only to normal, intermittent agricultural use, and not commercial or industrial use.

In regard to some components manufactured by other companies and sold by Landoll Company, LLC, including but not limited to tires, said Warranty shall be provided solely by that manufacturing company.

This Warranty applies to products sold in the United States and Canada, and is made expressly in place of all other warranties, expressed or implied.

LAN-0207
Rev: 000
Rev Date:9/25/24

Figure 1-2: Landoll Tillage Warranty

Understanding Safety Statements

You will find various types of safety information on the following pages and on the machine signs (decals) attached to the machine. This section explains their meaning.

The Safety Alert Symbol means ATTENTION! YOUR SAFETY IS INVOLVED!

NOTE

Means that failure to follow these instructions could cause damage to the equipment or cause it to operate improperly.

NOTICE

Special notice - read and thoroughly understand.

CAUTION

Caution means serious equipment or other property damage can occur if instructions on this label are not properly followed.

WARNING

Warning means serious injury or death can occur if safety measures or instructions on this label are not properly followed.

DANGER

Danger means a life-threatening situation exists. Death can occur if safety measures or instructions on this label are not properly followed.

NOTE

Make sure you read and understand the information contained in this manual and on the machine signs (decals) before you attempt to operate or maintain this machine.

The safety statements contained in this manual relate to the operation of the Model 1911 Filloll.

1. Examine safety decals and be sure you have the correct safety decals for the implement.
2. Keep these signs clean so they can be observed readily. It is important to keep these decals cleaned more frequently than the implement. Wash with soap and water or a cleaning solution as required.
3. Replace decals that become damaged or lost. Also, be sure that any new implement components installed during repair include decals which are assigned to them by the manufacturer.
4. When applying decals to the implement, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirt, oil etc.

Transporting Safety

IMPORTANT

It is the responsibility of the owner/operator to comply with all state and local laws.

1. Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of the towing vehicle.

DANGER

- **Do not allow anyone to ride on the tractor or implement. Riders could be struck by foreign objects or thrown from the implement.**
- **Never allow children to operate equipment.**
- **Keep bystanders away from implement during operation.**

2. Carry reflectors or flags to mark the tractor and implement in case of breakdown on the road.
3. Do not cylinder at speeds over 20 MPH under good conditions. Never travel at a speed which does not allow adequate control of steering and stopping. Reduce speed if towed load is not equipped with brakes.
4. Avoid sudden stops or turns because the weight of the implement may cause the operator to lose control of the tractor.
5. Use caution when towing behind articulated steering tractors; fast or sharp turns may cause the implement to shift sideways.
6. Keep clear of overhead power lines and other obstructions when cylindering. Know the cylinder height and width of your implement.

Attaching, Detaching, and Storage

1. Do not stand between the tractor and implement when attaching or detaching implement unless both are not moving.
2. Chock the tires of the implement so it will not roll when unhitched from the tractor.
3. Store in an area where children normally do not play.

Maintenance Safety

1. Understand the procedure before doing the work. Use proper tools and equipment.
2. Make sure all moving parts have stopped.
3. Do not make adjustments or lubricate implement while it is in motion.
4. Block the implement so it will not roll when working on or under it to prevent injury.

High Pressure Fluid Safety

1. Escaping fluid under pressure can be nearly invisible and have enough force to penetrate the skin causing serious injury. Use a piece of cardboard, rather than hands, to search for suspected leaks.
2. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.
3. Avoid the hazard by relieving pressure before disconnecting hydraulic lines.

Protective Equipment

1. Wear protective clothing and equipment.
2. Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.

3. Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection, such as earmuffs or earplugs.

Chemical Safety

1. Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil and property.
2. Read chemical manufactures instructions and store or dispose of unused chemicals as specified.
3. Handle chemicals with care and avoid inhaling smoke from any type of chemical fire.
4. Store or dispose of unused chemicals as specified by the chemical manufacturer.

Prepare for Emergencies

1. Keep a First Aid Kit and Fire Extinguisher handy.
2. Keep emergency numbers for doctor, ambulance, hospital, and fire department near the phone.

Tire Safety

1. Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.
2. When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side, not in front of or over the tire assembly. Use a safety cage if available.
3. When removing and installing wheels use wheel-handling equipment adequate for the weight involved.

Safety Chain

1. Use a chain with a strength rating equal to or greater than the gross weight of towed machinery, which is 10,100 pounds minimum in accordance with ASAE S338.2 specifications. If two or more implements are pulled in tandem, a larger chain may be required. Chain capacity must be greater then the TOTAL weight of all towed implements.
2. A second chain should be used between each implement.
3. Attach the chain to the tractor drawbar support or specified anchor location. Allow only enough slack in the chain to permit turning. The distance from hitch pin to attachment point or intermediate support point should not exceed 9 inches.
4. Replace the chain if any links or end fittings are broken, stretched or damaged.
5. Do not use a safety chain for towing.

Safety Decals and Reflectors

The 1911 Filloll equipped with all safety signs installed for safe operation.

For you safety:

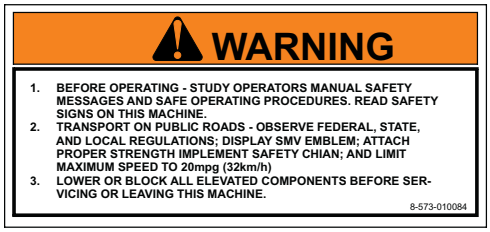
- Carefully read and follow safety sign directions.
- Keep the safety signs clean and visible.
- Replace damaged, missing, or illegible safety signs.
- Be sure any new equipment or repair parts include safety signs.

New safety signs may be ordered from your Landoll dealer. Refer to this section for parts and proper safety sign placement.

To Install new safety signs:

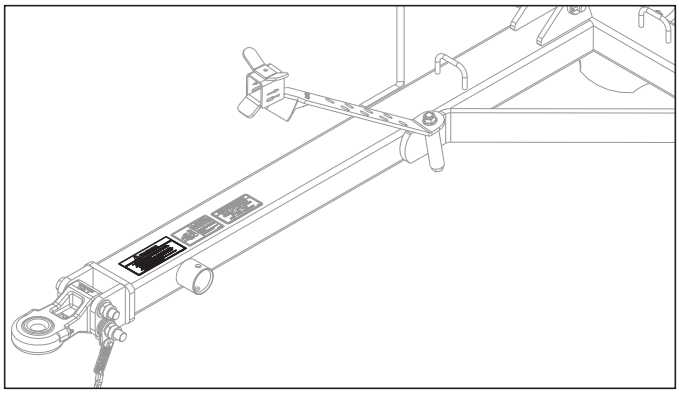
1. Remove the old damaged safety sign if still present.
2. Clean placement area to remove any dirt or grease.
3. Remove backing from new safety sign.
4. Apply the safety sign starting from one end pressing firmly and working across the safety sign being careful not to create any air bubbles.

P/N 8-573-010084
Warning: Before Operating

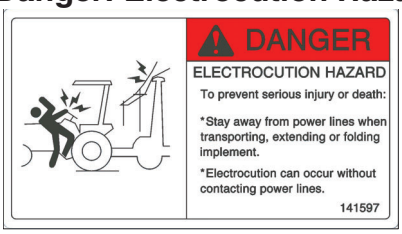


Front of hitch, 1st from left

QTY. 1

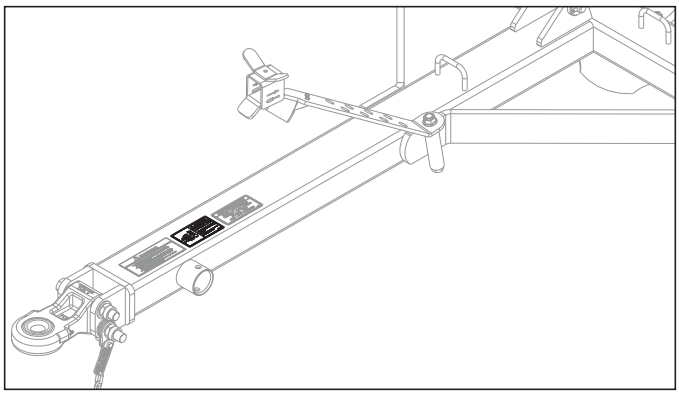


PP/N 141597
Danger: Electrocution Hazard



Front of hitch, 2nd from left

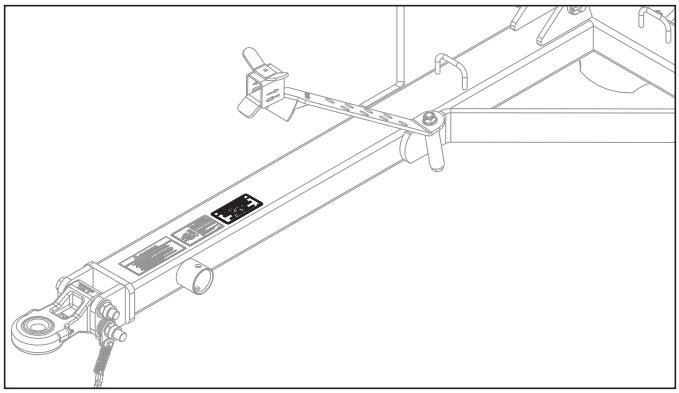
QTY. 1



P/N 234430
Hose Identification

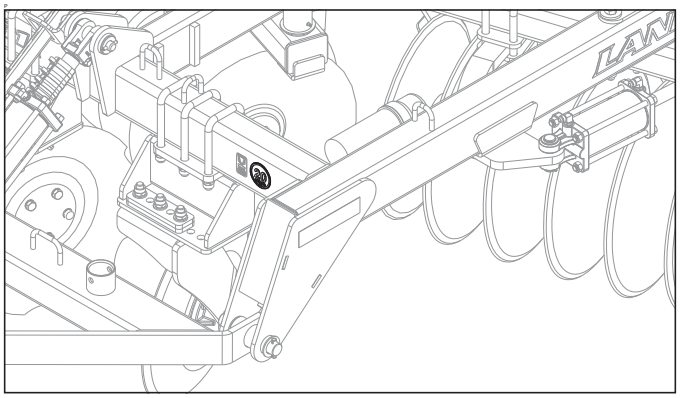
Front of hitch, 3rd from left

QTY. 1



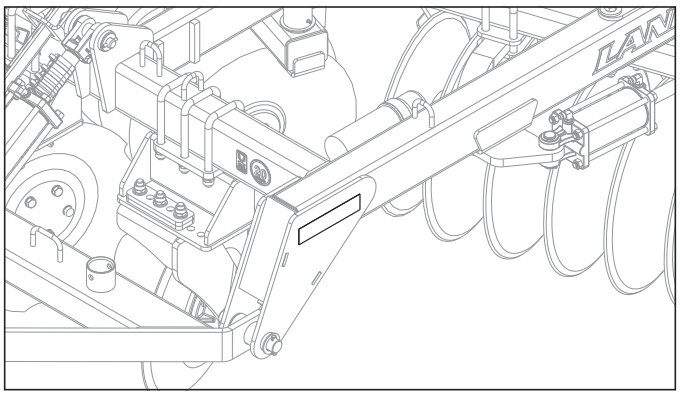
P/N 144193
SIS 20MPH

Front outside, center frame, both sides
QTY. 1



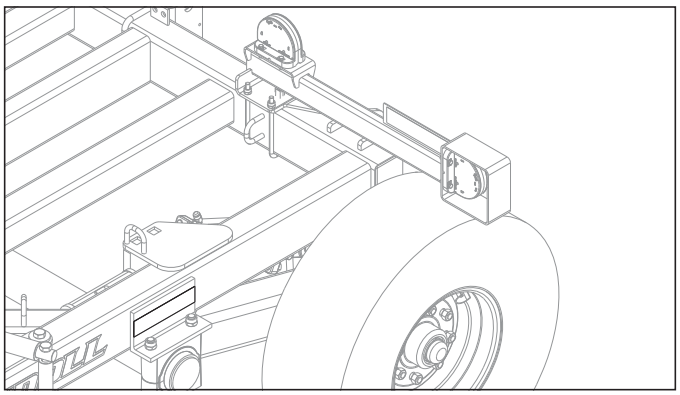
P/N 528934
Yellow Reflector

Left front, center frame, both sides
QTY. 2



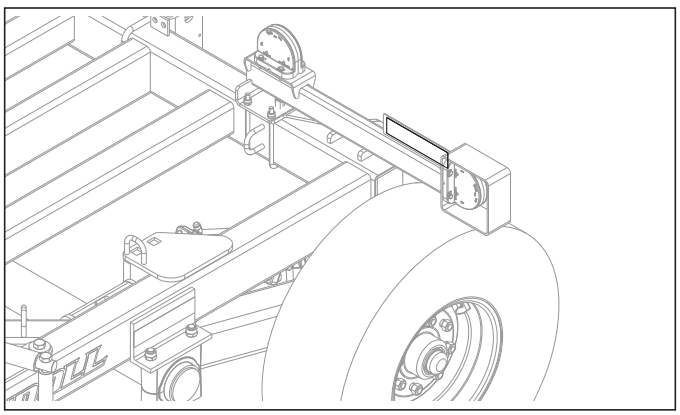
P/N 528934
Yellow Reflector

Left rear, center frame, both sides
QTY. 2



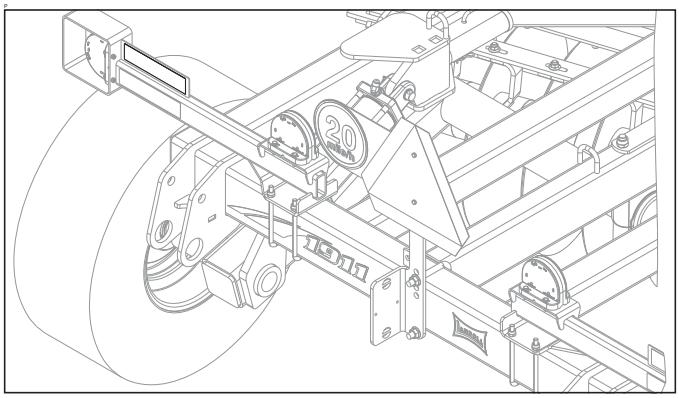
P/N 528934
Yellow Reflector

Left center frame, front light bracket, both sides
QTY. 2



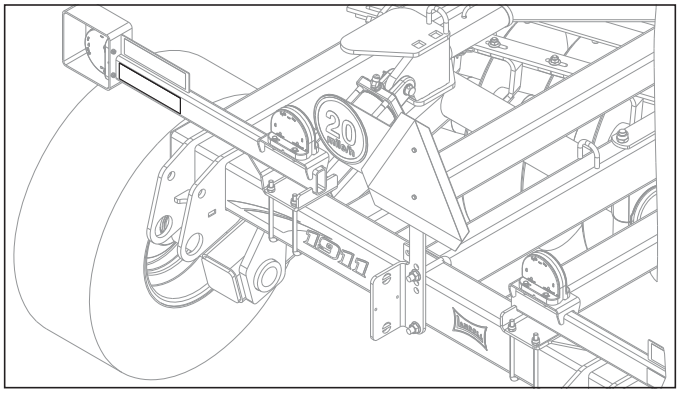
P/N 528938
Orange Reflector

Back side, reflector mount plate, top, both sides
QTY. 2

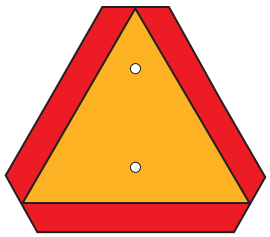


P/N 528933
Red Reflector

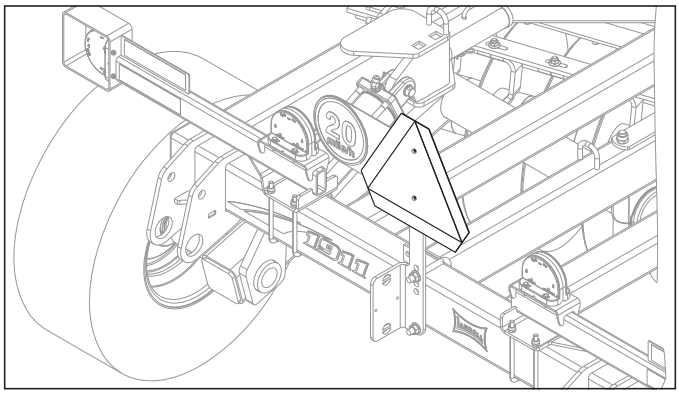
Back side, reflector mount plate, bottom, both sides
QTY. 2



P/N 70260977
SMV Emblem

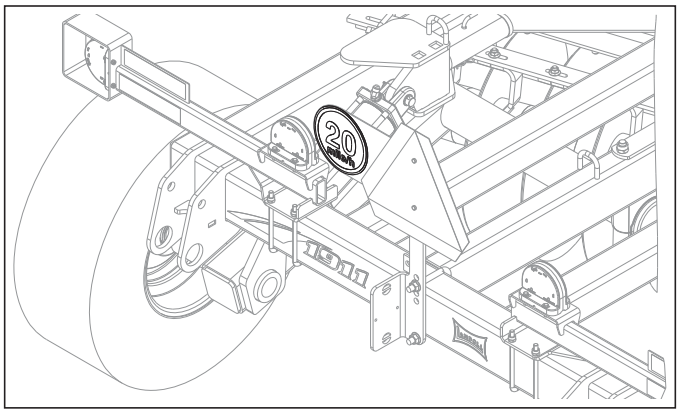


Back side, smv mount
QTY. 1



P/N 224589
SIS 20 mile/h

Back side, SIS decal mount
QTY. 1



Standard Specifications

Model Specifications

1911 Finisholl								
Model Number	Cut Width	Transport Width	Blade Angle Range	Blade Diameter	No. of Blades	Spindle Size	Wheel Bolt Pattern	Estimated Weight
1911-9	9’	9’ - 9”	10° - 18°	24”	16	2-1/4”	8 Bolt	5,370 lbs.
1911-11	11’- 4”’	12’	10° - 18°	24”	20	2-1/4”	8 Bolt	5,780 lbs.

NOTE: Specifications Are Subject To Change Without Prior Notification-Transport Height Can Vary With Reel Placement

Tire Inflation			
Tire Size	Tire Manufacturer	Ply/Load Rating	Inflation Pressure (Psi) (Max.)
320/70R15	FIRESTONE	LOAD INDEX 144/6150 LBS. @ 40MPH	70 psi

Specific Bolt Torques	
Lug Bolts & Nuts	Torque (FT. LBS.)
5/8-18 Lug Bolts & Nuts (Heavy Duty Disc)	85-100 Ft./Lbs.
Disc Gang Shaft	1250-1500 Ft./Lbs.

General Torque Specifications

LANDOLL
FASTENER TORQUE SPECIFICATIONS
(Rev. 23/04)

This chart provides general torque specifications for Standard Nuts and Caps Screws (as received condition) that are not called out on processes or drawings.

This **DOES NOT** apply if special lubrication such as graphite moly-disulfide or other extreme pressure lubricants are used.

Add 33% to the listed torque specification if the fastener is dry (solvent cleaned).

Cap screw grades are indicated by markings on the head, these vary among manufacturers.

Thick Nuts must be used on grade 8 cap screws.

SAE TORQUE SPECIFICATIONS (FOOT-POUNDS)

[ ] Indicates specifications for Prevailing Torque Nuts.

UNC Size	Grade 2	Grade 5	Grade 8
1/4 - 20	4 [5]	6 [7]	9 [11]
5/16 - 18	8 [10]	13 [16]	18 [22]
3/8 - 16	15 [19]	23 [29]	35 [43]
7/16 - 14	24 [30]	35 [43]	55 [62]
1/2 - 13	35 [43]	55 [62]	80 [100]
9/16 - 12	55 [62]	80 [100]	110 [137]
5/8 - 11	75 [94]	110 [137]	170 [212]
3/4 - 10	130 [162]	200 [250]	280 [350]
7/8 - 9	125 [156]	320 [400]	460 [575]
1 - 8	190 [237]	408 [506]	680 [850]
1-1/8 - 7	270 [337]	600 [750]	960 [1200]
1-1/4 - 7	380 [475]	840 [1050]	1426 [1782]
1-3/8 - 6	490 [612]	1100 [1375]	1780 [2225]
1-1/2 - 6	650 [812]	1460 [1825]	2360 [2950]

See back side for SAE UNF and Metric torques.

Form No. F-257-0322

SAE TORQUE SPECIFICATIONS (FOOT POUNDS)

[ ] Indicates specifications for Prevailing Torque Nuts.

UNF Size	Grade 2	Grade 5	Grade 8
1/4 - 28	5 [6]	7 [9]	10 [12]
5/16 - 24	9 [11]	14 [17]	20 [25]
3/8 - 24	17 [21]	25 [31]	35 [44]
7/16 - 20	27 [34]	40 [50]	60 [75]
1/2 - 20	40 [50]	65 [81]	90 [122]
9/16 - 18	60 [75]	90 [112]	130 [162]
5/8 - 18	85 [106]	130 [162]	180 [225]
3/4 - 16	150 [188]	220 [275]	320 [400]
7/8 - 14	140 [175]	360 [450]	500 [625]
1 - 14	210 [263]	540 [675]	760 [950]
1-1/8 - 12	300 [375]	660 [825]	1080 [1350]
1-1/4 - 12	420 [525]	920 [1150]	1500 [1875]
1-3/8 - 12	560 [700]	1260 [1575]	2010 [2512]
1-1/2 - 12	730 [912]	1640 [2050]	2660 [3325]

METRIC TORQUE SPECIFICATIONS

This chart provides torque specification for phosphate coated, Rockwell "C" 38-45 Metric Coarse Thread Class 10.9 Fasteners, Class 10.0 Nuts and Harden Flat Washers.

[ ] Indicates specifications for Prevailing Torque Nuts.

MM Size	Newton - Meters	Foot-Pounds
6	10 [14]	7 [10]
7	16 [22]	12 [16]
8	23 [32]	17 [24]
10	46 [60]	34 [47]
12	80 [101]	60 [75]
14	125 [155]	90 [115]
16	200 [240]	150 [180]
18	275 [330]	205 [245]
20	385 [450]	290 [335]
24	670 [775]	500 [625]
27	980 [1105]	730 [825]
30	1330 [1470]	990 [1090]
33	1790 [1950]	1730 [1870]
36	2325 [2515]	1730 [1870]
39	3010 [3210]	2240 [2380]

See front side for SAE UNC and notes.

Figure 2-1: General Torque Specifications

Hydraulic Fitting Torque Specifications

LANDOLL
HYDRAULIC FITTING TORQUE SPECIFICATIONS
(REV. 23/04)
AEROQUIP BRAND FITTINGS
37° JIC; ORS & ORB

This chart provides torque specifications for Plated Carbon Steel and Stainless Steel Fittings (as received condition) that are not called out on processes or drawings.

This **DOES NOT** apply if special lubrication such as graphite moly-disulfide or other extreme pressure lubricants are used.

Minus 65% from the listed torque specification for Brass Fittings.

TORQUE SPECIFICATIONS
(FOOT-POUNDS)
[ ] Indicates specifications for Prevailing Torque Nuts.

DASH Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)
-4	11-12	10-12	14-16
-5	15-16	-----	18-20
-6	18-20	18-20	24-26
-8	38-42	32-35	50-60
-10	57-62	46-50	72-80
-12	79-87	65-70	125-135
-14	-----	-----	160-180
-16	108-113	92-100	200-220
-20	127-133	125-140	240-280
-24	158-167	150-165	270-360
-32	245-258	-----	-----

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LANDOLL
HYDRAULIC FITTING TORQUE SPECIFICATIONS
(REV. 23/04)
GATES BRAND FITTINGS
37° JIC; ORS & ORB

This chart provides torque specifications for Plated Carbon Steel and Stainless Steel Fittings (as received condition) that are not called out on processes or drawings.

This **DOES NOT** apply if special lubrication such as graphite moly-disulfide or other extreme pressure lubricants are used.

Minus 65% from the listed torque specification for Brass Fittings.

TORQUE SPECIFICATIONS
(FOOT-POUNDS)
[ ] Indicates specifications for Prevailing Torque Nuts.

DASH Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)
-4	10-11	10-12	14-16
-5	13-15	-----	-----
-6	17-19	18-20	24-26
-8	34-38	32-40	37-44
-10	50-56	46-56	50-60
-12	70-78	65-80	75-83
-14	-----	65-80	-----
-16	94-104	92-105	111-125
-20	124-138	125-140	133-152
-24	156-173	150-180	156-184
-32	219-243	-----	-----

FORM NO. F-263-2304 (2 of 3)

LANDOLL
HYDRAULIC FITTING TORQUE SPECIFICATIONS
(REV. 23/04)
PARKER BRAND FITTINGS
37° JIC; ORS & ORB

This chart provides torque specifications for Plated Carbon Steel and Stainless Steel Fittings (as received condition) that are not called out on processes or drawings.

This **DOES NOT** apply if special lubrication such as graphite moly-disulfide or other extreme pressure lubricants are used.

Minus 65% from the listed torque specification for Brass Fittings.

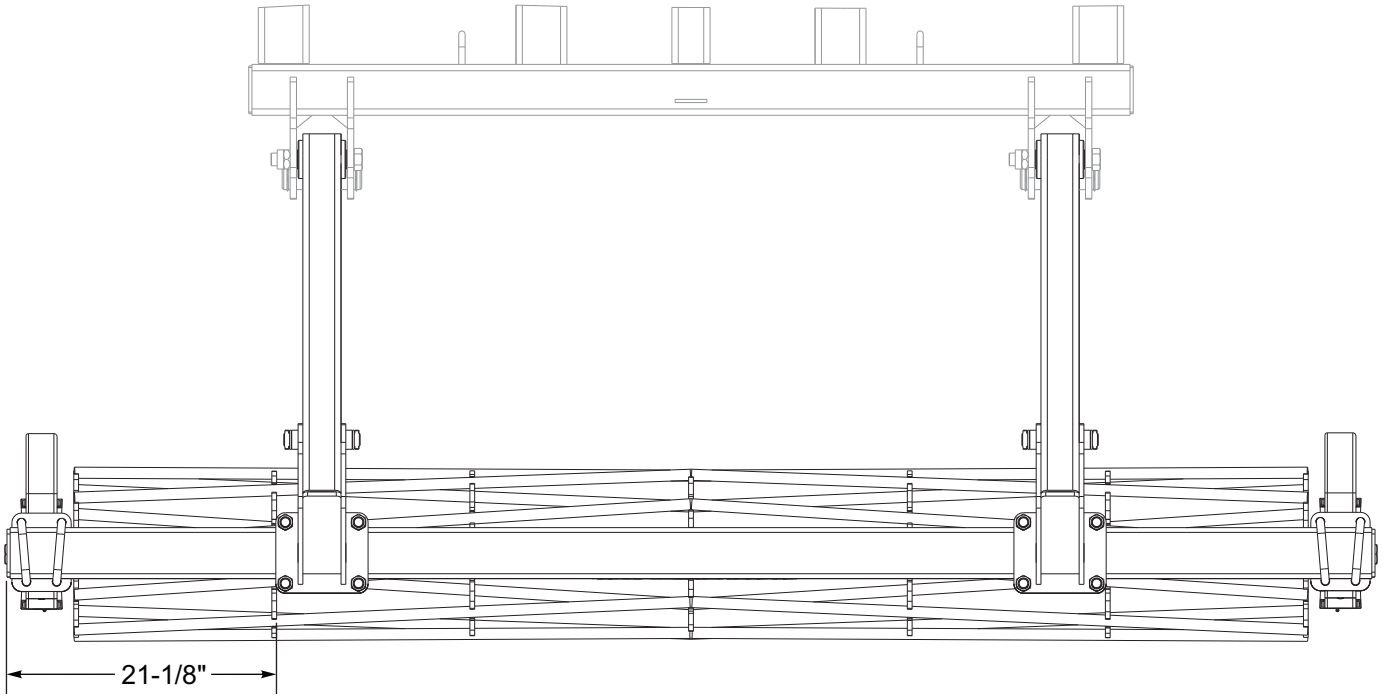
TORQUE SPECIFICATIONS
(FOOT-POUNDS)
[ ] Indicates specifications for Prevailing Torque Nuts.

DASH Size	37 Degree JIC	O-Ring (ORS)	O-Ring Boss (ORB)
-4	11-13	15-17	13-15
-5	14-16	-----	21-23
-6	20-22	34-36	25-29
-8	43-47	58-62	40-44
-10	55-65	100-110	58-62
-12	80-90	134-146	75-85
-14	-----	-----	-----
-16	115-125	202-218	109-121
-20	160-180	248-272	213-237
-24	185-215	303-327	238-262
-32	250-290	-----	310-340

FORM NO. F-263-2304 (3 of 3)

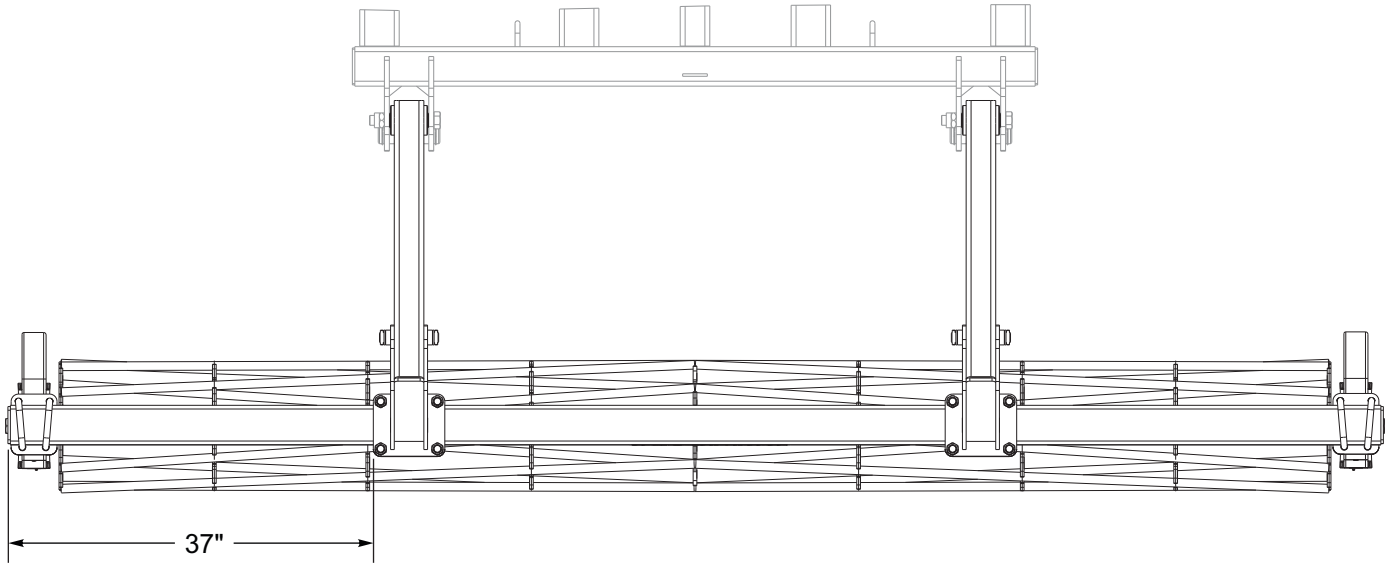
Figure 2-2: Hydraulic Fitting Torque Specifications

Conditioner Reel Placement



Conditioner-Reel Gangbar
Assembly 97”

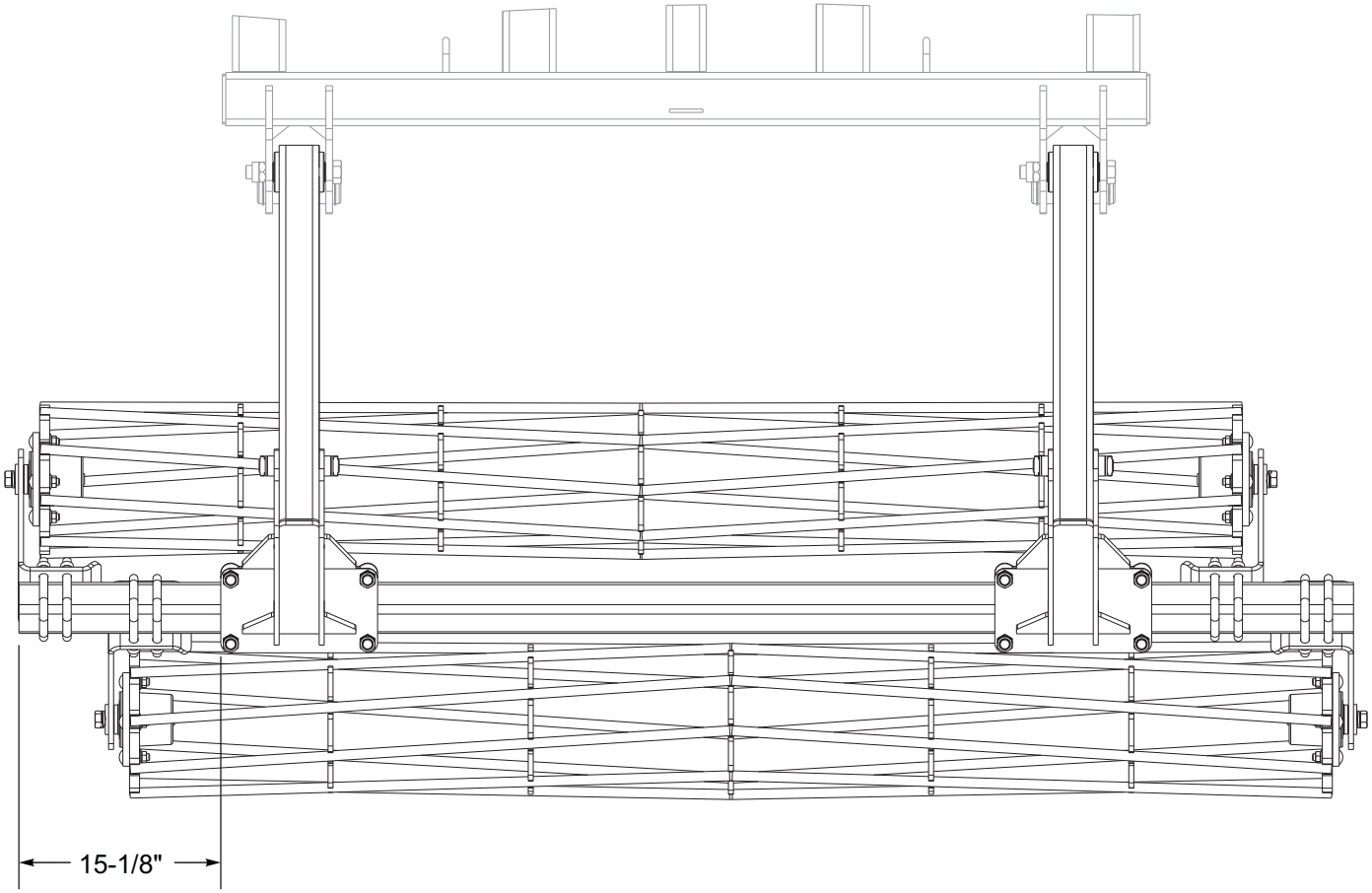
Figure 2-3: Conditioner Reel Placement 1911-9



Conditioner-Reel Gangbar
Assembly 129”

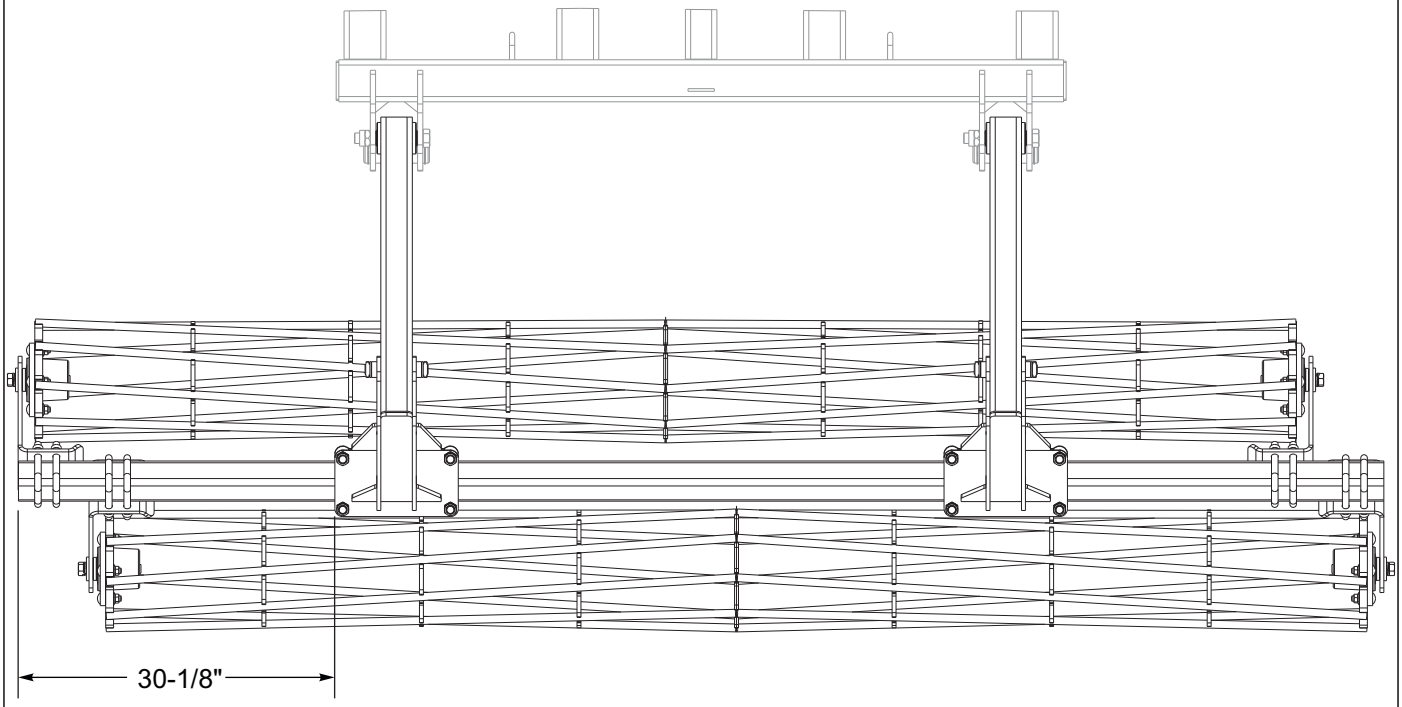
Figure 2-4: Conditioner Reel Placement 1911-11

Double Round Reel Placement



Double Conditioner-Reel Gangbar
Assembly 90/90

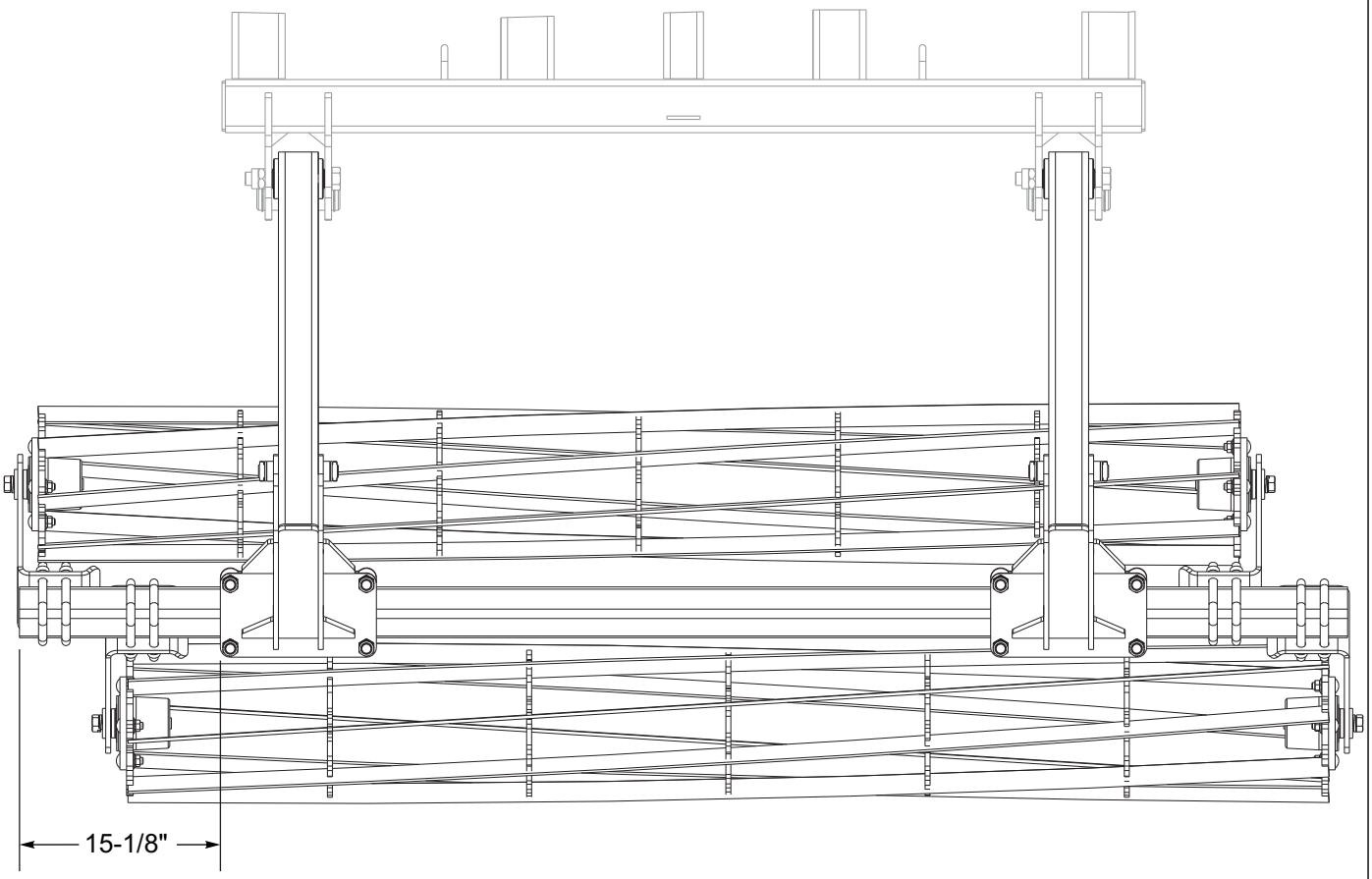
Figure 2-5: Double Round Reel Placement 1911-9



Double Conditioner-Reel Gangbar
Assembly 120/120

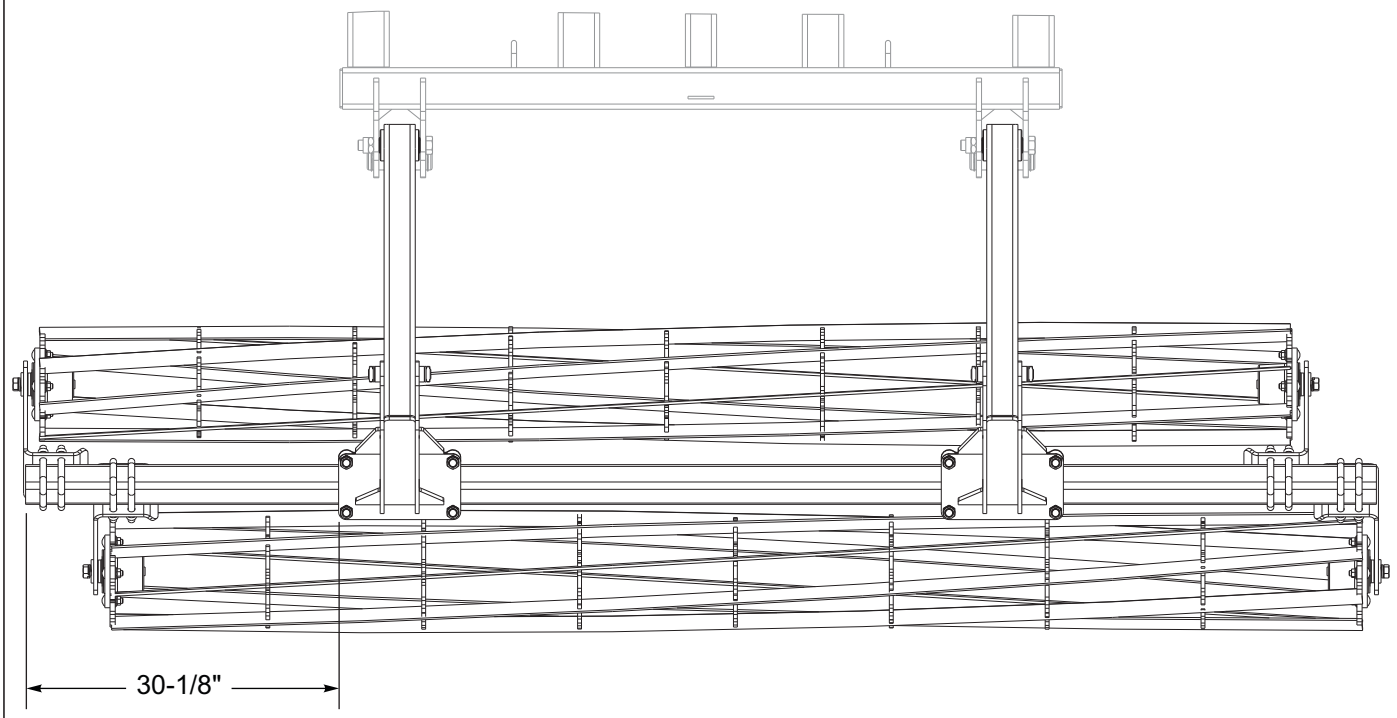
Figure 2-6: Double Round Reel Placement 1911-11

Double Flat Reel Placement



Double Flat-Reel Gangbar
Assembly 90/90

Figure 2-7: Double Flat Reel Placement 1911-9



Double Flat-Reel Gangbar
Assembly 120/120

Figure 2-8: Double Flat Reel Placement 1911-11

Table provided for general use.

NOTES:

Chapter 3

Assembly Instructions

It is very important that your new 1911 Filloll be properly assembled, adjusted and lubricated before use. Illustrations in this section show proper assembly procedures. Remove paint from grease fittings. Replace any grease fittings that are damaged or missing. Be sure to return screws, clips, etc., to their original locations.

To insure alignment of assemblies, **leave the nuts loose until completion** of final assembly. Use lock washers or flat washers as specified. Spread all cotter pins.

After completion of final assembly, tighten all nuts evenly to prevent misalignment, distortion or binding. Tighten all screws and nuts to the recommended torques ***(See "General Torque Specifications" on page 2-2.)***.

CAUTION

Be sure to bleed the hydraulic system of all air in lines after installation. Failure to bleed the system of all air can result in improper machine operation.

DANGER

Disc blades are extremely sharp. Exercise extreme care when working on or near disc blades. Do not allow discs to roll over or fall onto any bodily part. Do not allow wrenches to slip when working near disc blades. Never push wrenches toward disc blades. Do not climb over machine above disc blades. Failure to stay clear of disc blade edges can cause serious personal injury or death.

WARNING

Do not attempt to lift heavy parts (such as the frame, disc gangs, rock shaft, and pull hitch) manually. Use a hoist or a fork lift to move these parts into position.

DANGER

To prevent accidental lowering:

1. **All hydraulically elevated equipment must be locked out using the cylinder lockouts:**
2. **Lower equipment to the ground while servicing or when it is idle.**

Failure to take measures to prevent accidental lowering may result in serious personal injury or death.

Hydraulic Assembly

Hydraulic Installation

1. Hydraulic cylinders and hoses may be shipped fully assembled.

2. ***See Figure 3-1*** for proper disc gang cylinder fitting locations and hose routings. Install one 90° 1/16 res elbow to rod end of left cylinder and three 90° #8 o-ring adapters in other three ports of cylinders in locations shown ***See Figure 3-1***.

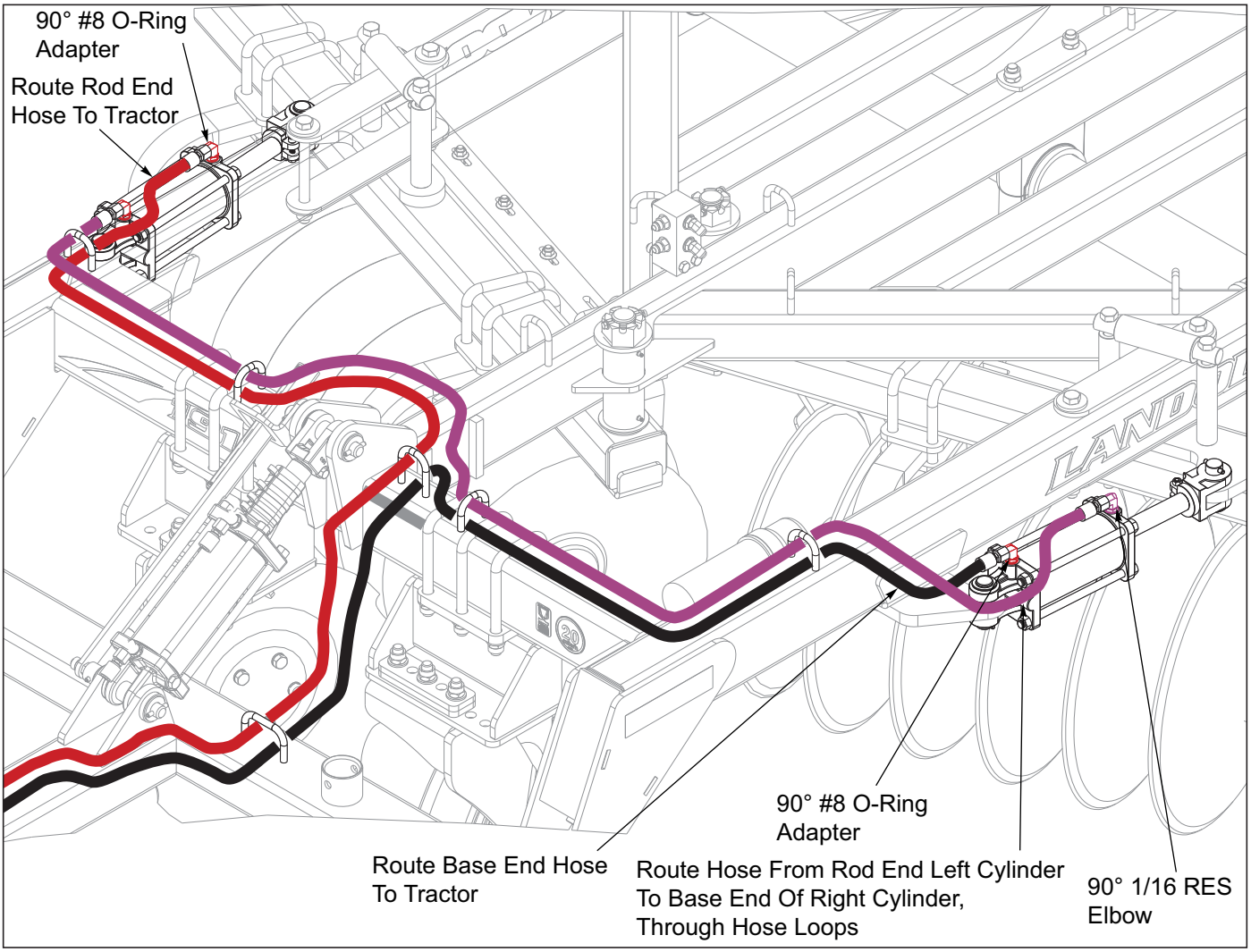


Figure 3-1: Disc Gang Installation

1. ***See Figure 3-2*** through ***See Figure 3-6*** for proper hitch, lift and disc gang cylinder, fitting and hose installation.

2. Attach hoses to tractor or other hydraulic source and purge each system of air and fill cylinders with hydraulic oil. The disc gang adjustment system are rephrasing so once the cylinders start extending just continue to hold the lever until all of the cylinders are fully extended. The hydraulic leveler cylinders will need to be extended and retracted several times to assure they are purged of air.

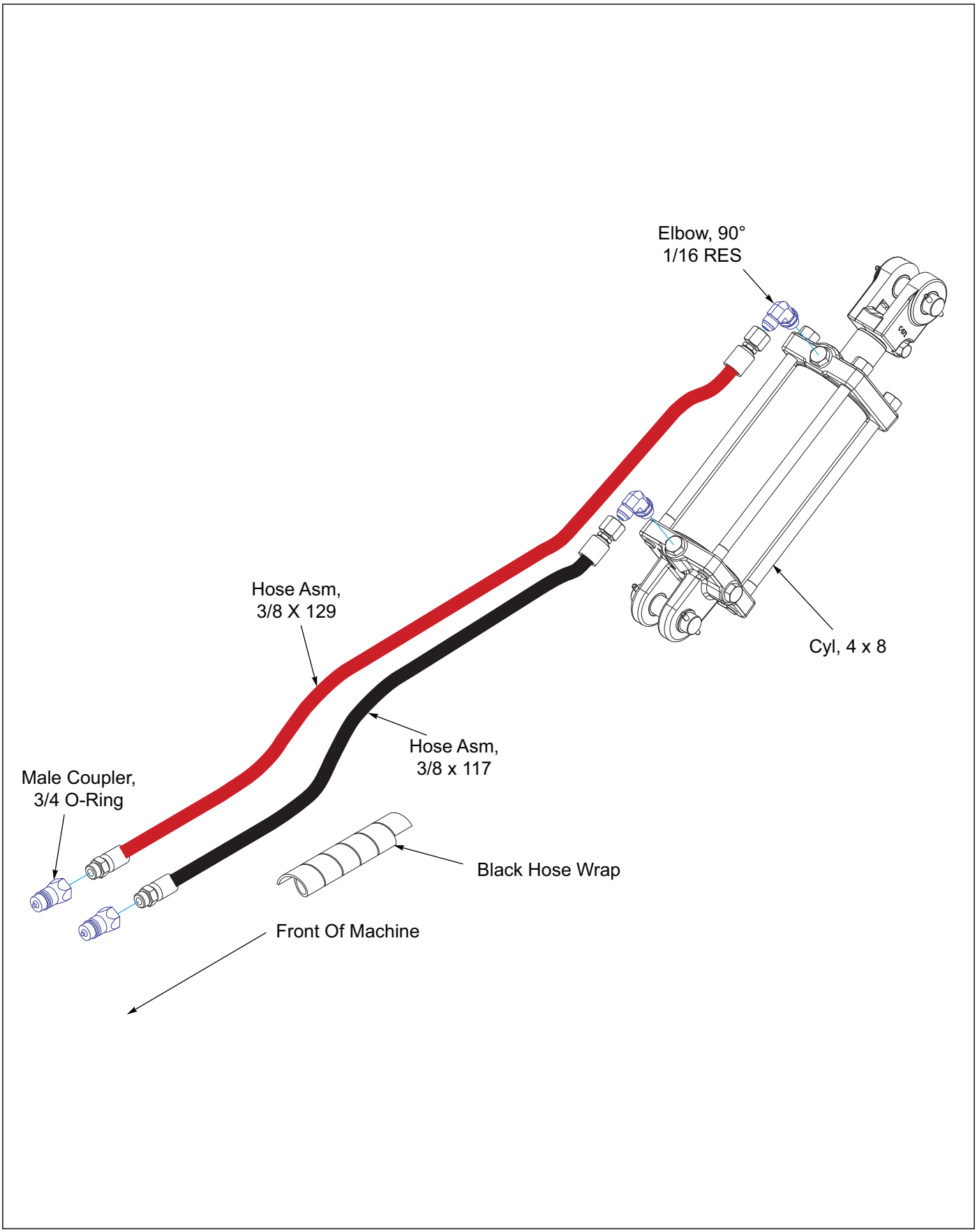


Figure 3-2: Hitch Hydraulic Assembly

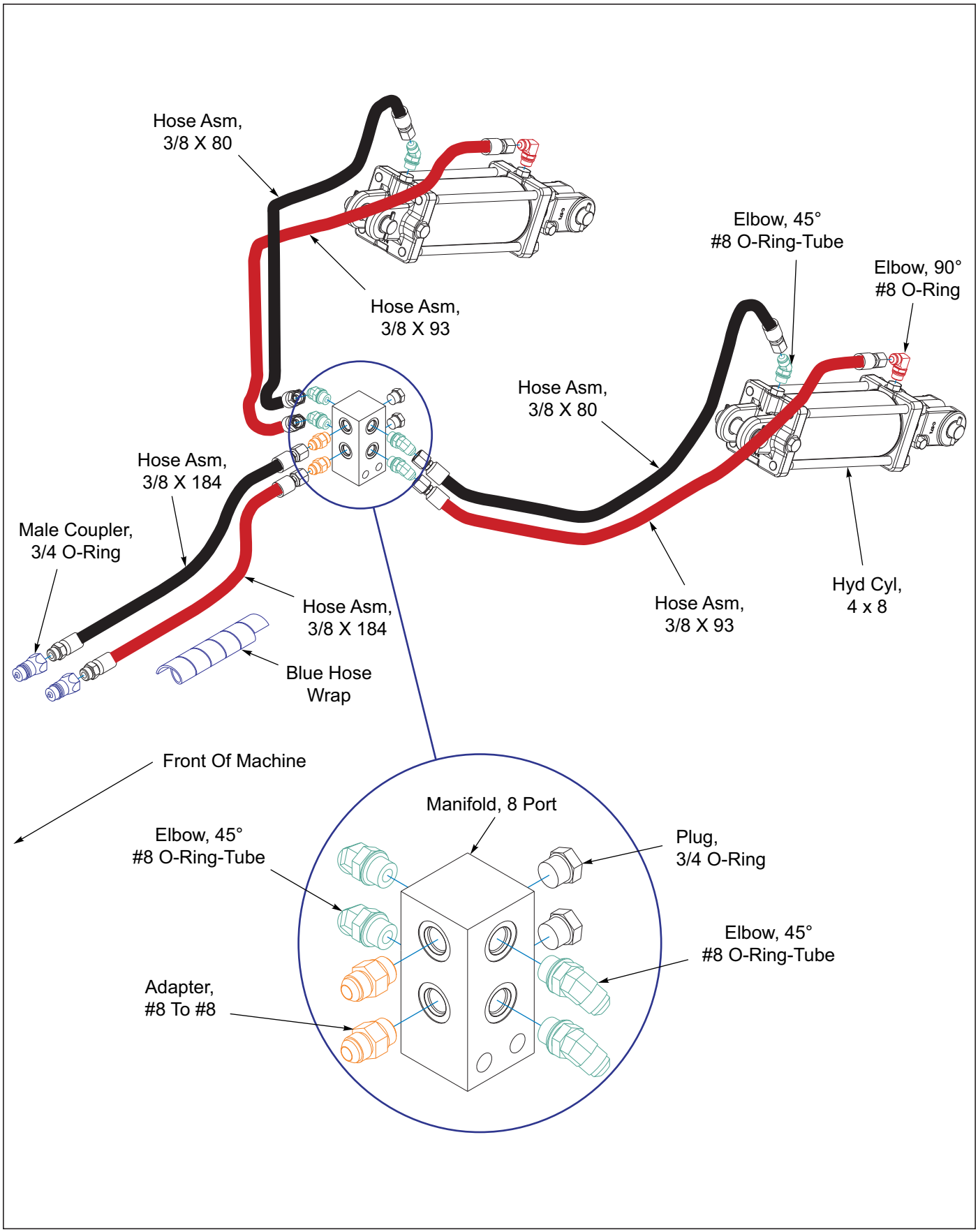


Figure 3-3: Lift Hydraulic Assembly

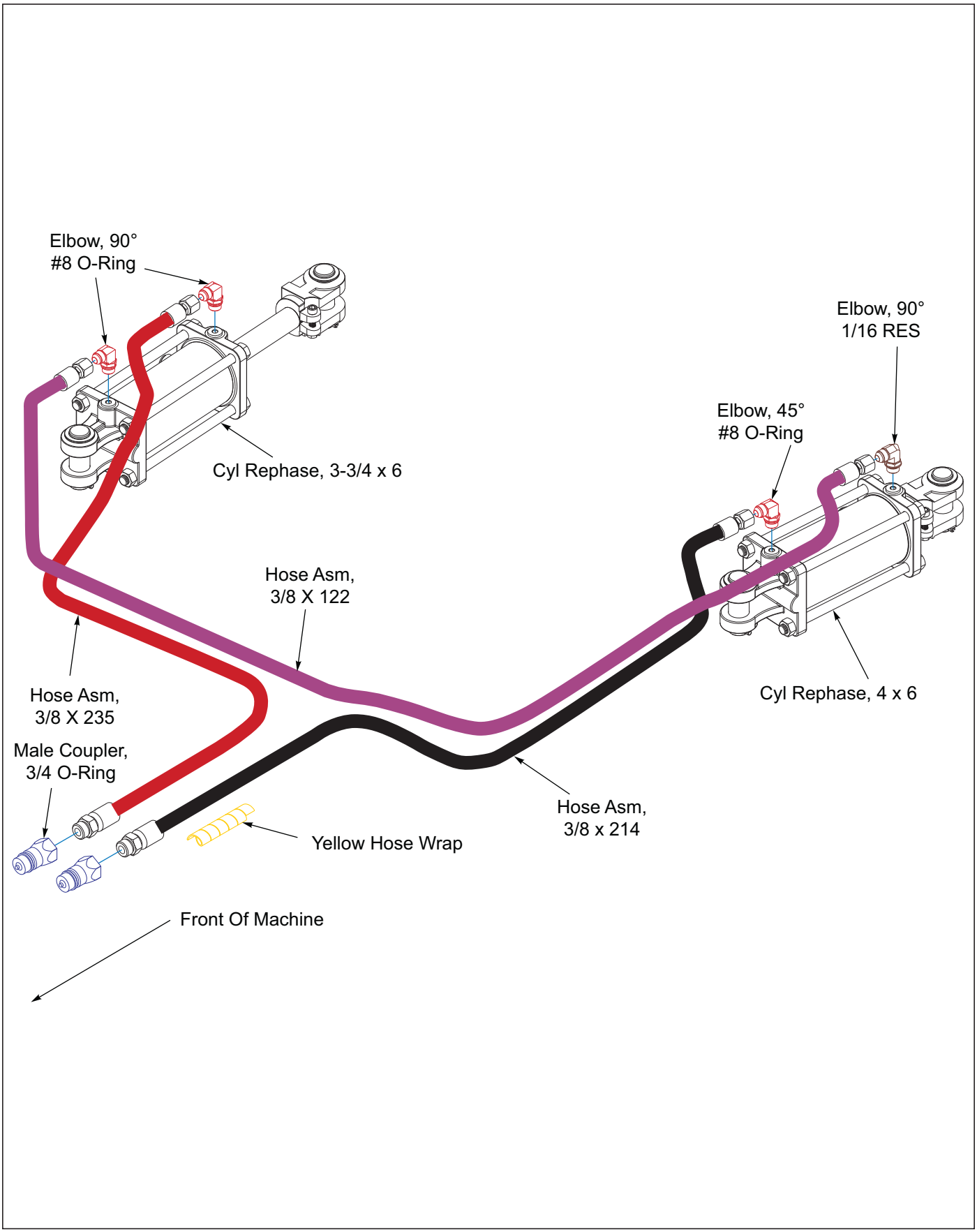


Figure 3-4: Disc Gang Hydraulic Assembly

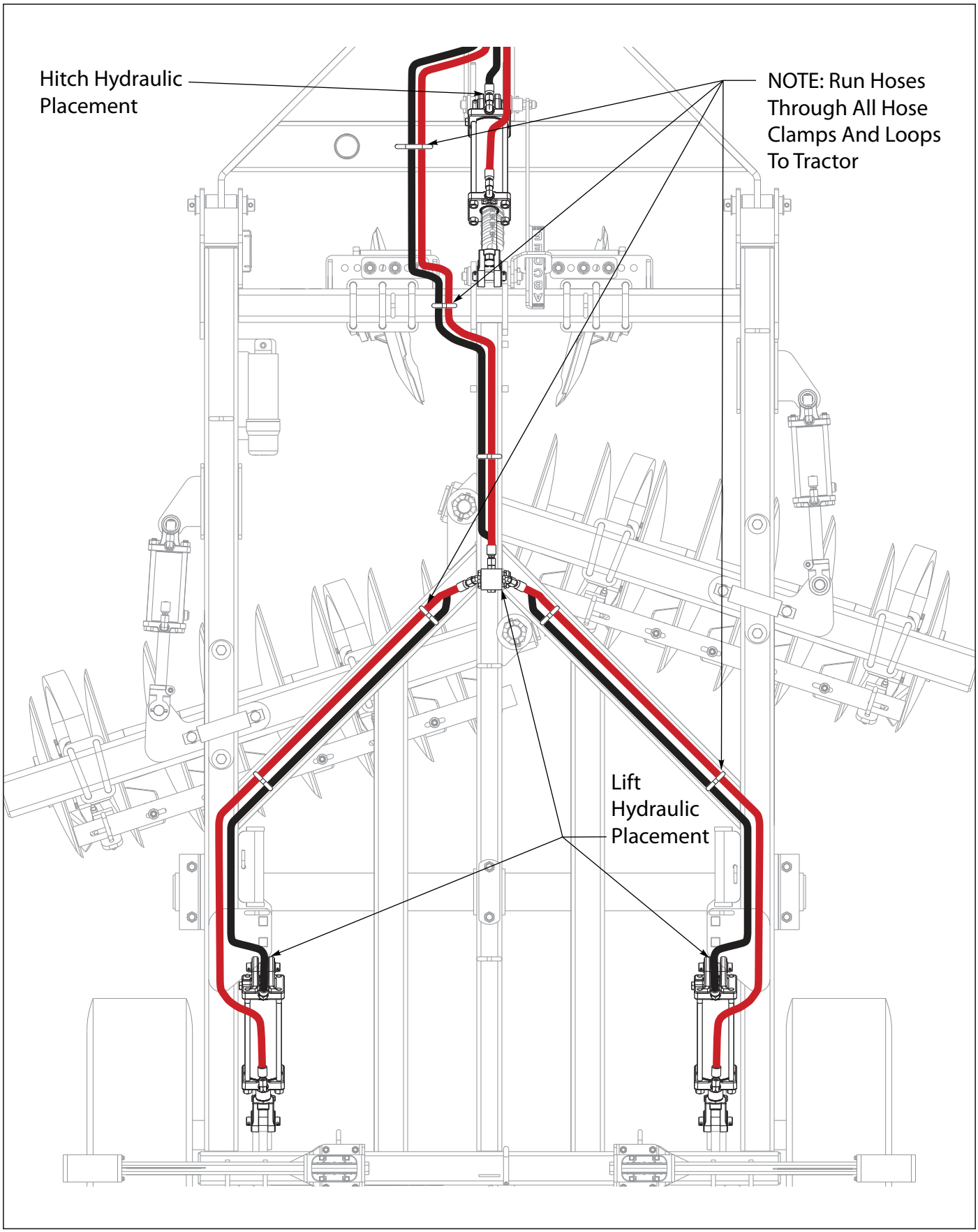


Figure 3-5: Hitch & Lift Hydraulic Placement

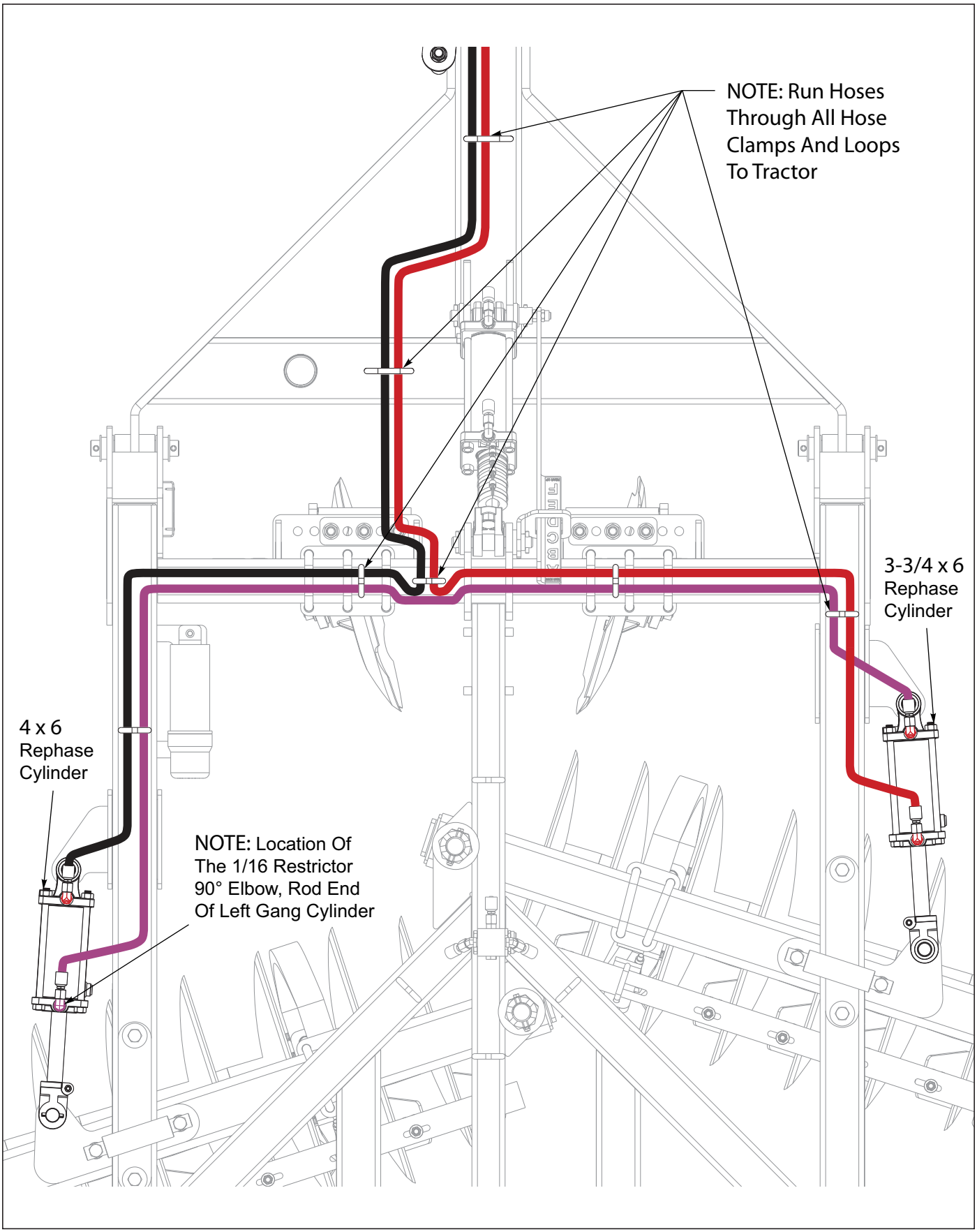


Figure 3-6: Disc Gang Hydraulic Placement

Electrical

7-PIN CONN.	4-PIN TOWER	CIRCUIT	WIRE COLOR
1	D	GROUND	WHITE
2	–	WORK LAMPS	BLACK
3	B	LEFT FLASHING & TURN	YELLOW
4	–	STOP LAMPS	RED
5	A	RIGHT FLASHING & TURN	GREEN
6	C	TAIL LAMPS	BROWN
7	–	SWITCHED POWER (12 V)	BLUE

MAIN WARNING LIGHT HARNESS - WIRING CHART
(NOTE: The Color Of The Wire Jacket Does Not Necessarily Match The Color Of The 7 Pin Connector)

	RIGHT AMBER	RIGHT RED		LEFT RED	LEFT AMBER
	2-PIN TOWER	3-PIN TOWER	6-PIN SHROUD	3-PIN TOWER	2-PIN TOWER
BLACK LEFT TURN			A	C	
WHITE GROUND	A	A	B	A	A
BROWN TAIL LIGHT		B	C	B	
YELLOW LEFT TURN			D		B
GREEN RIGHT TURN	B		E		
RED RIGHT TURN		C	F		

REAR WARNING LIGHT HARNESS - WIRING CHART

Figure 3-7: LED Light Harness Wire Designations

LED Light Installation

1. Attach the warning light brackets to the rear tube of center frame with 1/2 x 7-1/2 x 4-1/2 u-bolts and 1/2 lock nuts ***See Figure 3-8***.

NOTE

Location of yellow reflector on front side of warning light bracket and red, orange on rear of bracket.

2. Attach amber and red LED lamps to warning light brackets using 1/4 x 1-1/4 hex head cap screws and 1/4 lock nuts ***See Figure 3-8***.
3. Attach flasher module to left side of smv mounting bracket with 1/4 x 1-3/4 bolts and 1/4 lock nuts.
4. Install the SMV mounting bracket to rear tube of center frame using 5/8 x 6-11/16 x 5-1/2 u-bolt and 5/8 flange nuts.
5. Attach SIS decal mount plate, SMV emblem with 1/4 x 1 bolts and 1/4 lock nuts.
6. ***See Figure 3-9*** for smv mounting bracket, warning light brackets and gang angle gauge bracket placement.
7. Install the 4' rear warning light harness through the tube of the warning light brackets. Connect 2 pin and 3 pin ends to each of the warning lights. Connect 6 pin to the flasher control module. ***See Figure 3-7*** **for LED harness wire designations.**
8. Attach 25' main harness to frame and hitch. Connect 4 pin end to the flasher control module.
9. Insure that the harnesses are clear of any moving parts and secure the harnesses with tie staps provided. Route front harness through all hose loops and clamp. ***See Figure 3-9*** for proper front and rear harness routing.
10. Install the stor-a-way harness holder to hose holder bracket on hitch with 1/4 x 1 hex head cap screws and hex lock nuts.

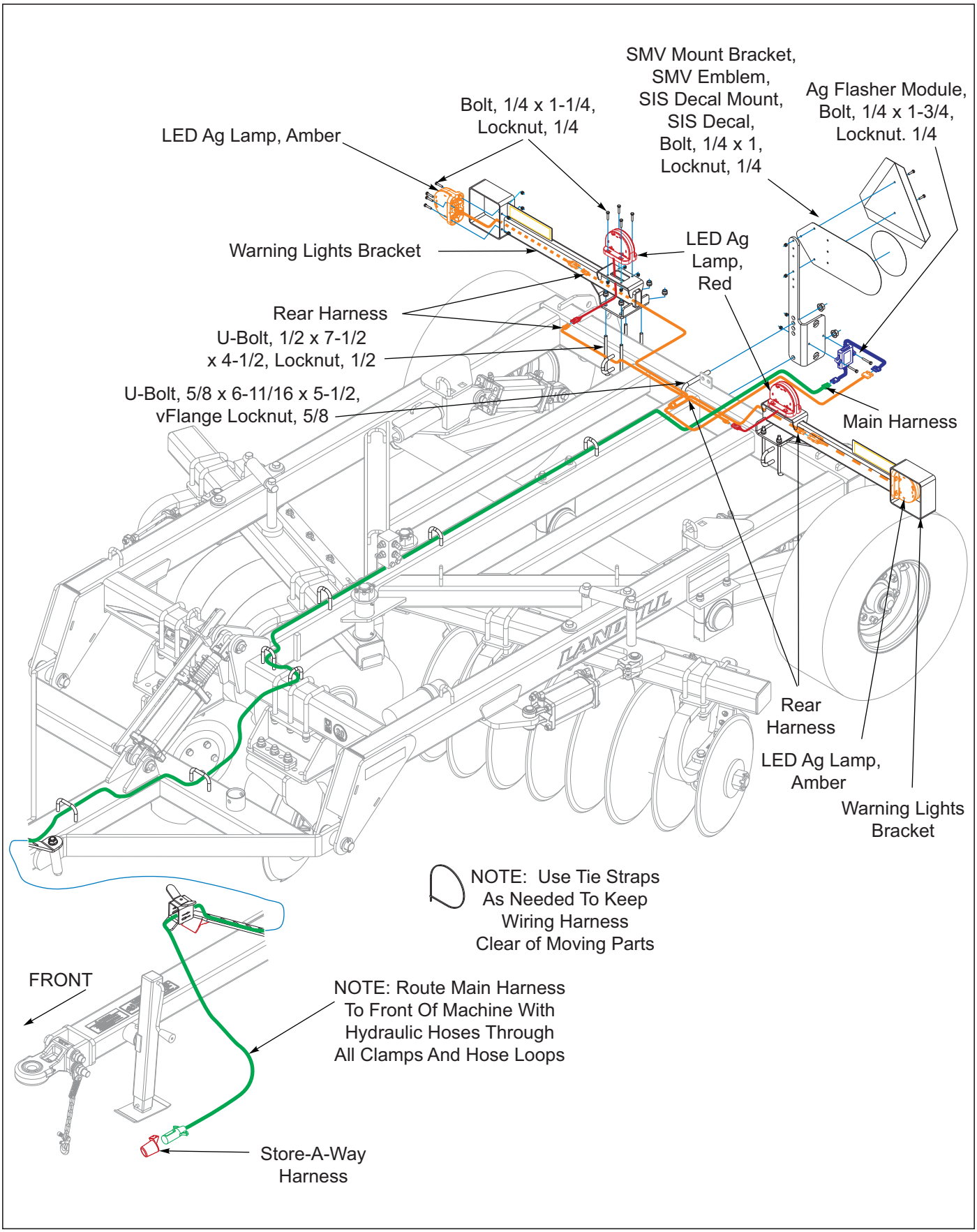


Figure 3-8: LED Light Installation

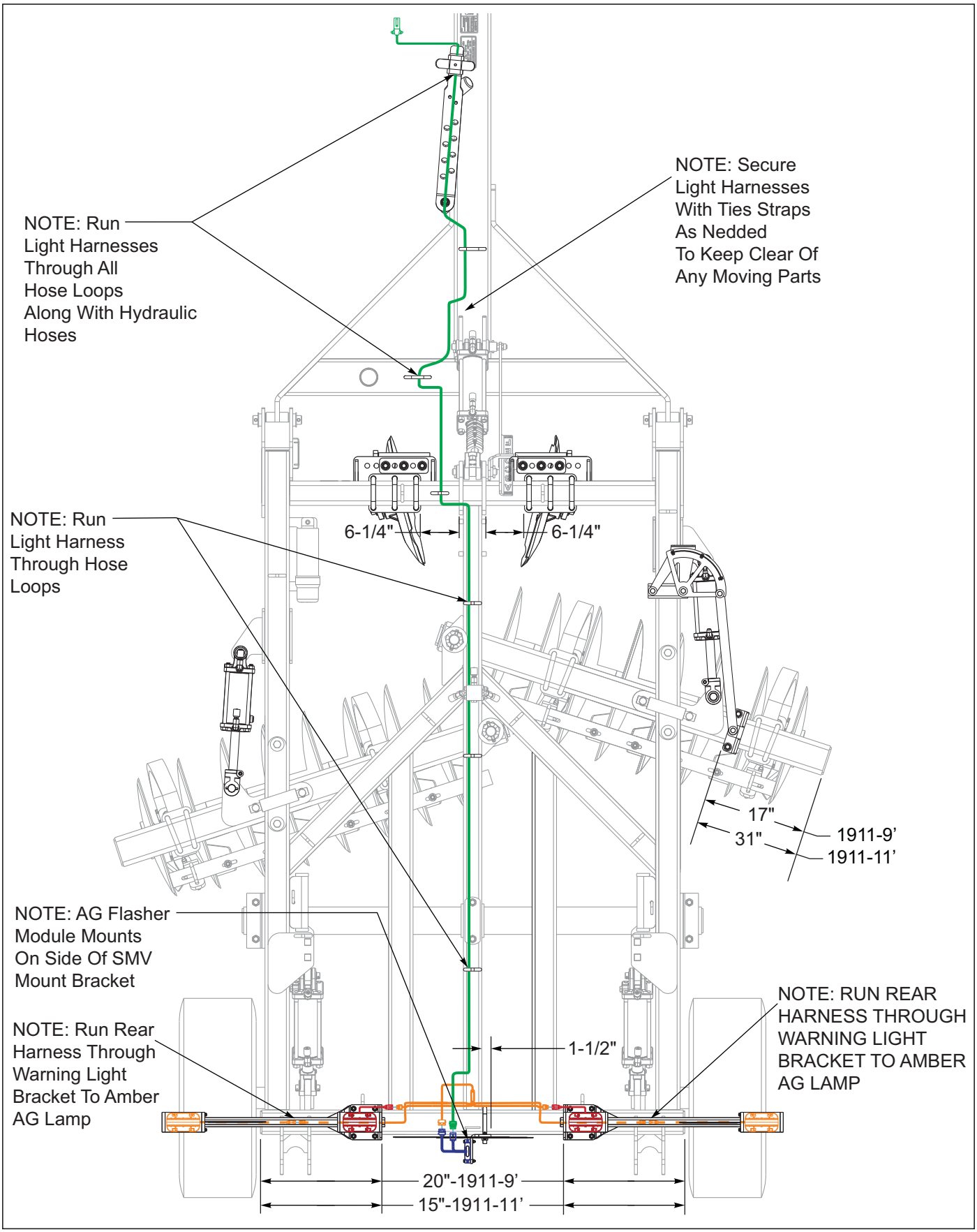


Figure 3-9: LED Light and Gang Angle Gauge Placement

Table provided for general use.

NOTES:

Conditioner Reel Spring Installation (Option)

NOTE

Refer to Conditioner Single Reel Installation ***See Figure 3-11*** for single reel installation or *Conditioner Double Reel Installation* ***See Figure 3-12*** for double reel installation.

1. Slide the adjustment pin through the rear plates of the frame, secure with (2) 2-1/2 snap rings.
2. Assemble the 1 x 9 adj bolt through adjustment pin on frame, 1" lock washer, (2) 1 hex nuts, and 17" spring assembly.
3. Install 1-1/2” flange bearing into reel arm. Slide in 1-1/2” pivot bushing.
4. Attach reel arm to upper hole on frame using 1 x 6-1/2 bolts and lock nuts.
5. Assemble 17" spring assembly to reel arm using 1" pivot pin, and 5/16 x 1-1/2” spring slotted pins. Set pin centers to 21" dimension as shown in **Figure *3-11***.

WARNING

Do not attempt to lift heavy parts (such as the frame, disc gangs, lift, pull hitch, or reel/gang bar assembly manually. Use a hoist or a forklift to move these parts into position.

6. Attach single reel/gang bar assembly to reel arms using gang bar mount plate, 3/4 x 5-1/2 bolts and lock nuts ***See Figure 3-11***. ***See Figure 2-3*** **through** ***See Figure 2-4*** in “Specification Section” for single reel gang bar placement locations.
7. Attach double reel/gang bar assembly to reel arms using gang bar mount plate, (2) clamp tubes, (4) spring torsion rubber, secure with 3/4 x 8-1/2 bolts and lock nuts ***See Figure 3-12***. ***See Figure 2-6*** **through** ***See Figure 2-7*** in “Specification Section for double reel gang bar placement locations.
8. Attach flat bar reels with angled blades as shown ***See Figures 3-10*****.**

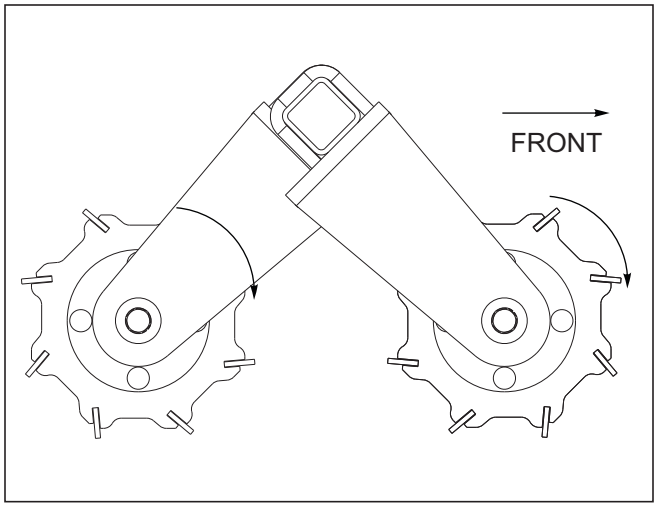


Figure 3-10: Double Reel Direction

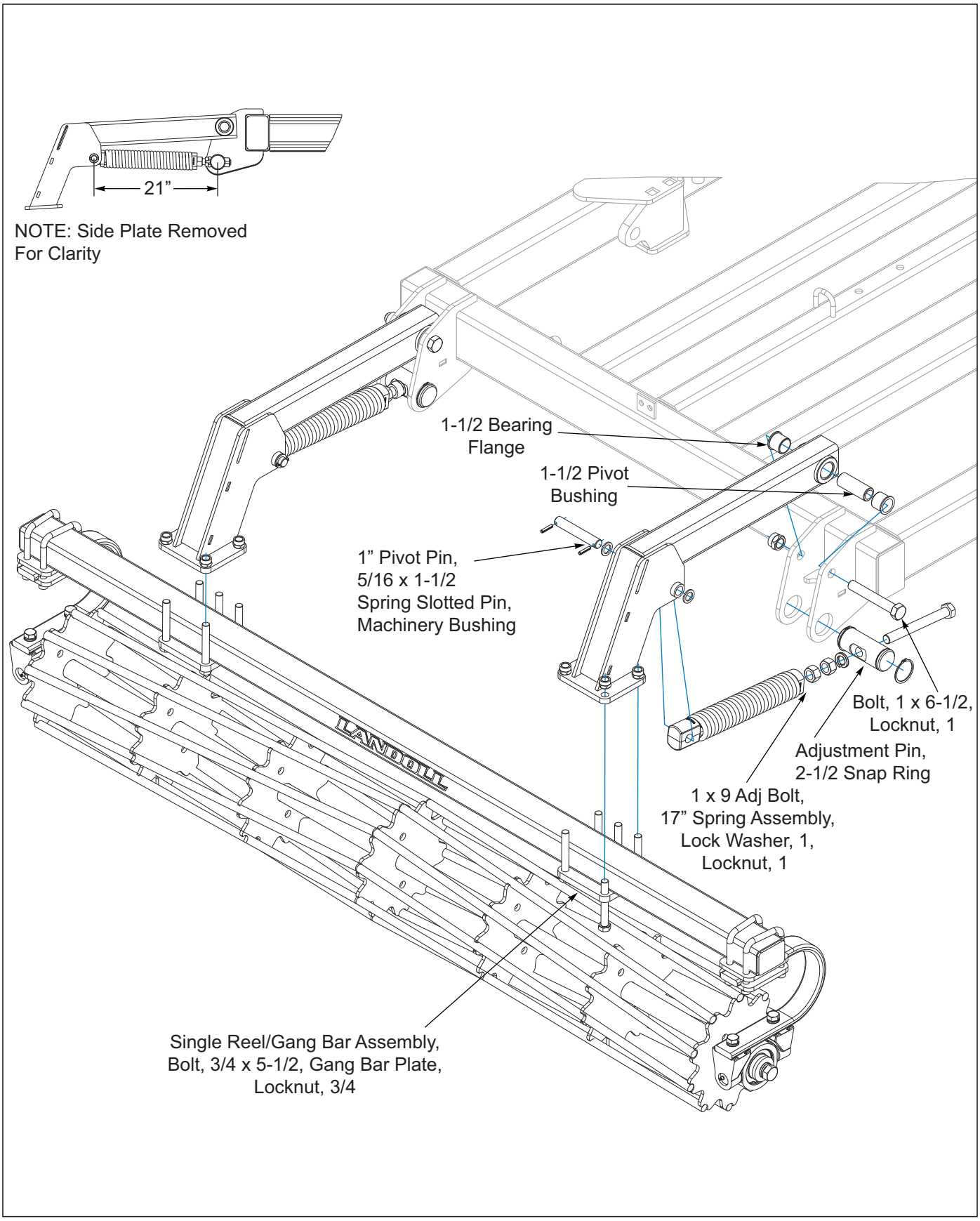


Figure 3-11: Conditioner Single Reel Installation

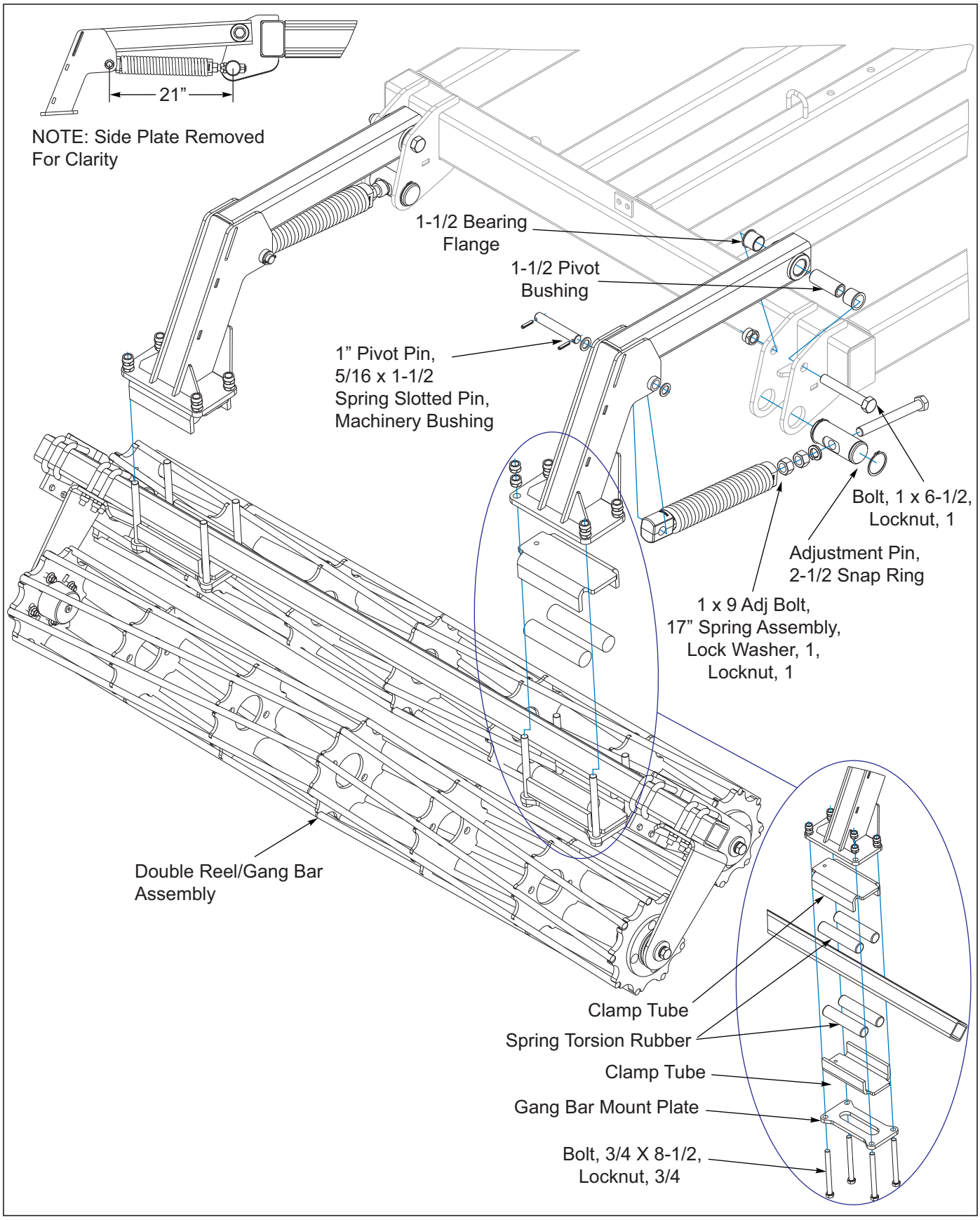


Figure 3-12: Conditioner Double Reel Installation

Table provided for general use.

NOTES:

Hydraulic Conditioner Reel Installation (Option)

NOTE

Refer to Hydraulic Conditioner Single Reel Installation ***See Figure 3-13*** for single reel installation or *Hydraulic Conditioner Double Reel Installation* ***See Figure 3-14*** for double reel installation.

See Figure 2-3 *through* ***See Figure 2-4*** *for proper arm placement***.**

1. Attach reel arm assemblies to rear frame in top hole using 1-8 x 6-1/2 hex head cap screw, pivot bushing, 1-1/2 flange bearings, and 1-8 hex lock nut.
2. Attach 17” assembly and hydraulic cylinder to lower hole on rear frame using trunion mount assembly, 1/2-13 x 2 hex head cap screw, and 1/2 lock washer. Set pin centers to 21” as shown. Tighten 3/8-16 x 3/4 set screw in threaded spring castings.

WARNING

Do not attempt to lift heavy parts (such as the frame, disc gangs, lift, pull hitch, or reel/gang bar assembly manually. Use a hoist or a forklift to move these parts into position.

3. Attach single reel/gang bar assembly to reel arms using gang bar mount plate, 3/4-10 x 6 hex head cap screws and double hex lock nuts ***See Figure 3-13***. ***See Figure 2-3*** **through** ***See Figure 2-4*** for single reel gang bar placement locations.
4. Attach double reel/gang bar assembly to reel arms using gang bar mount plate, (2) clamp tubes, (4) spring torsion rubber, secure with 3/4-10 x 8-1/2 hex head cap screws and double hex lock nuts ***See Figure 3-14***. ***See Figure 2-5*** through ***See Figure 2-6*** for double round and flat reel gang bar placement locations.

NOTES

See Figure 3-15 ***and*** ***See Figure 3-16*** *for hydraulic diagram and placement.*

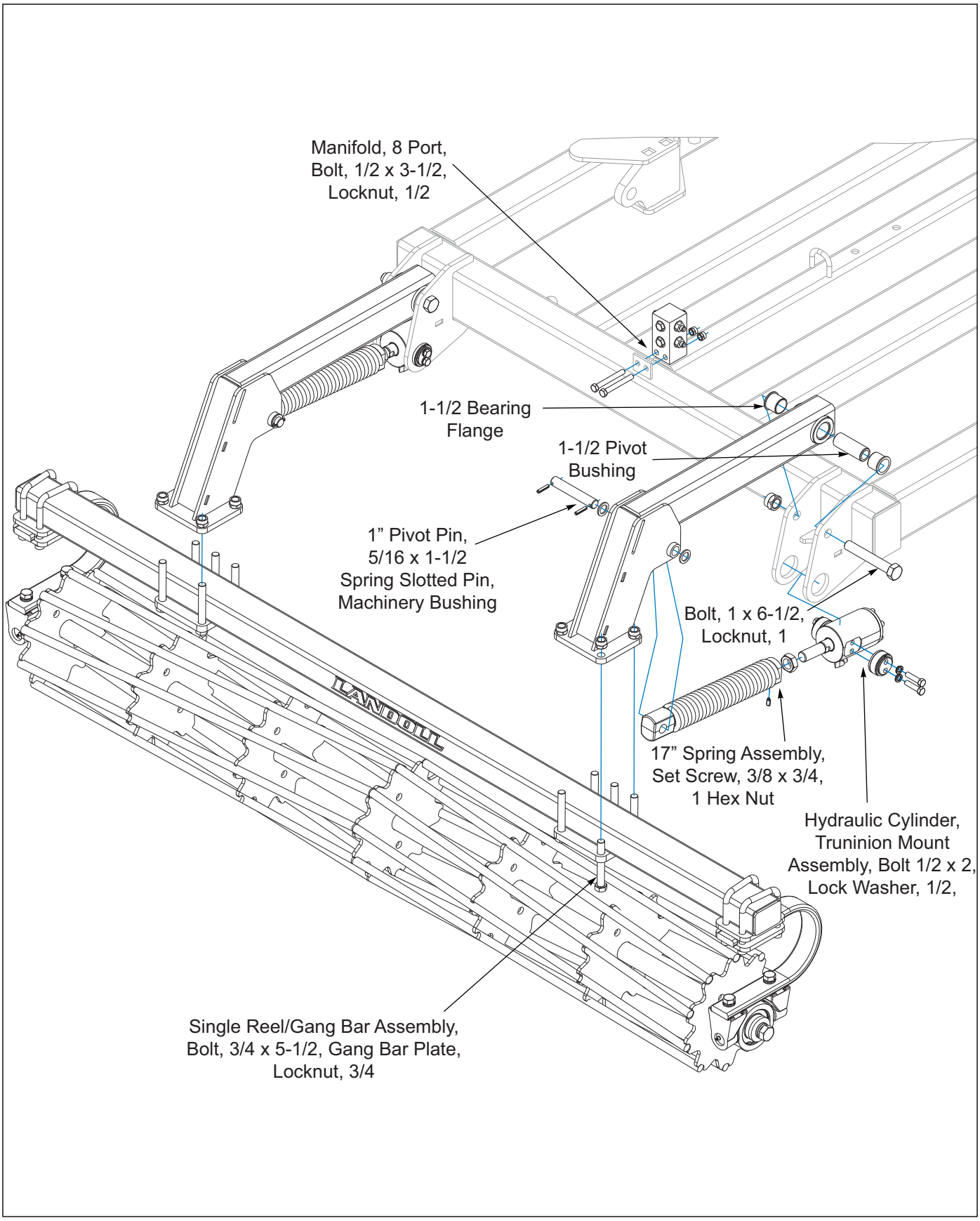


Figure 3-13: Hydraulic Conditioner Reel Single Installation

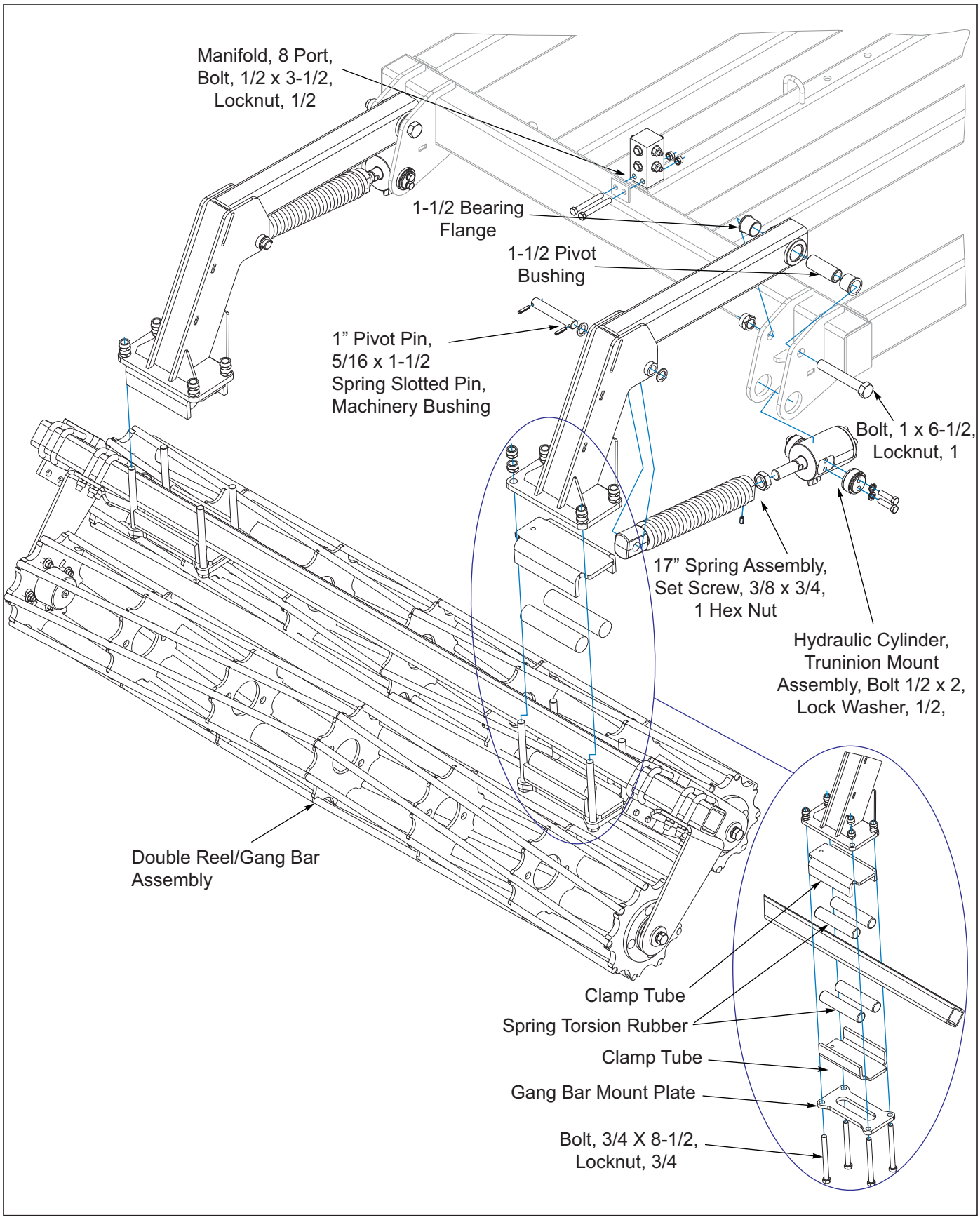


Figure 3-14: Hydraulic Double Reel Installation

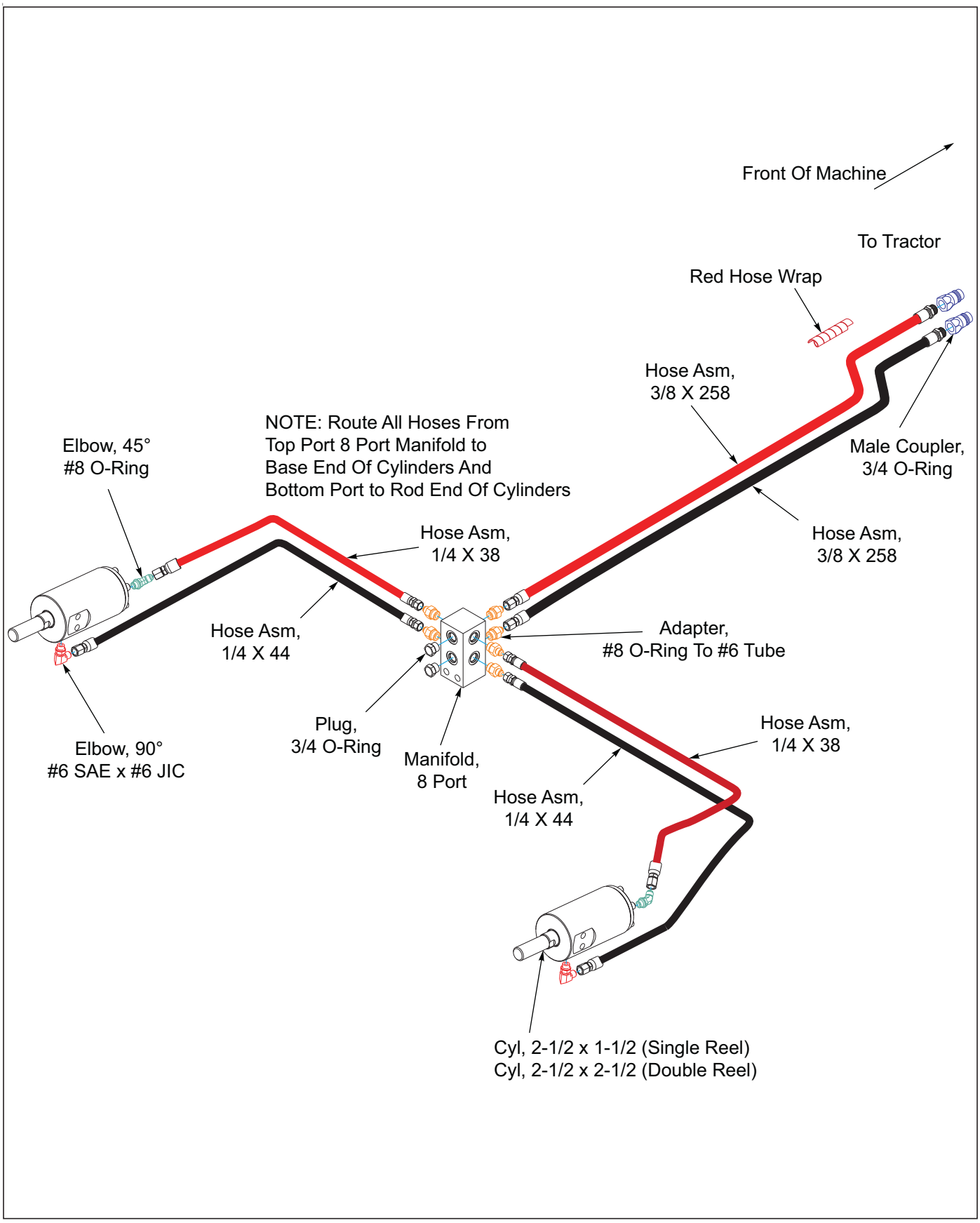


Figure 3-15: Attachment Hydraulic Installation

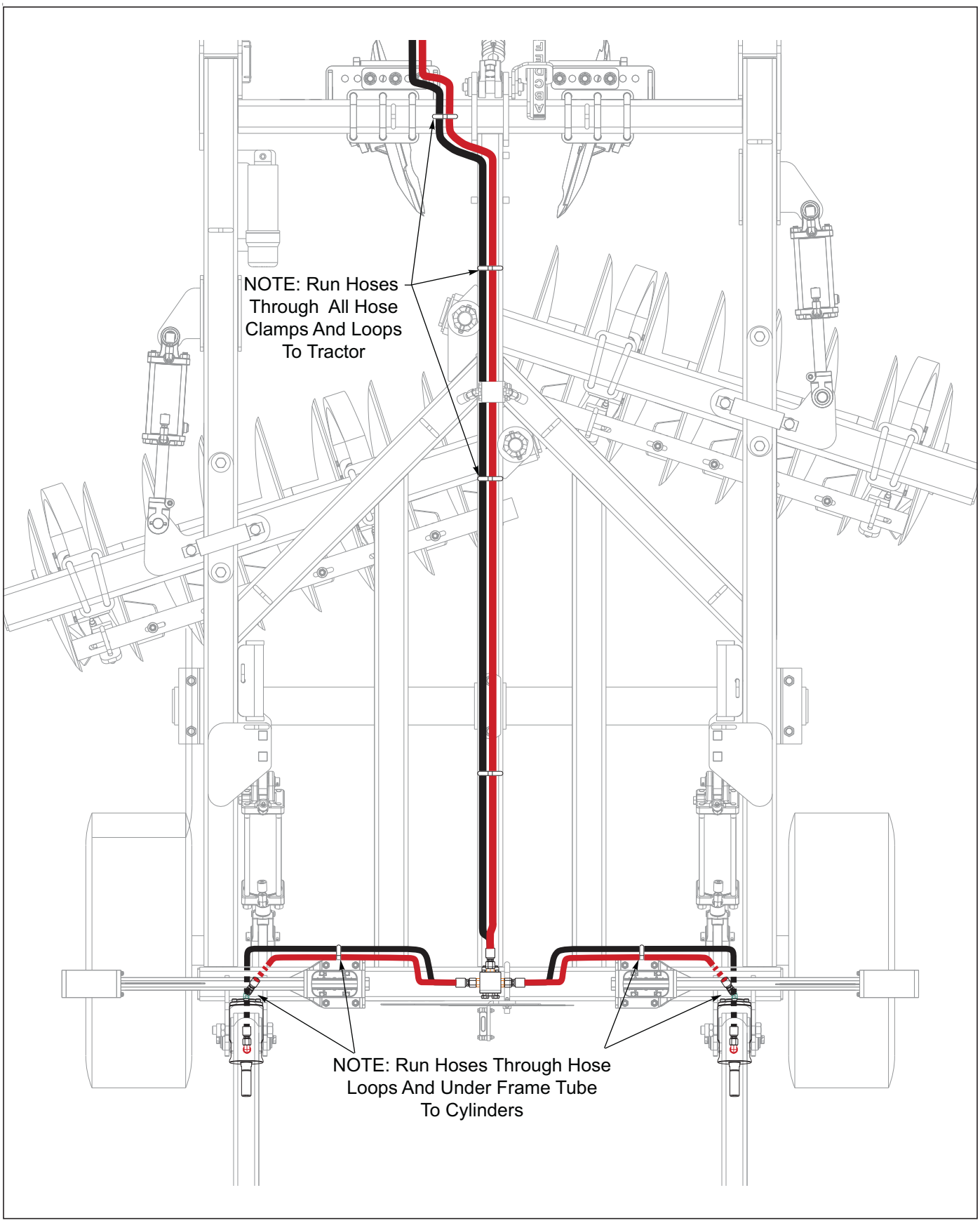


Figure 3-16: Attachment Hydraulic Placement

Table provided for general use.

NOTES:

Operation and Maintenance

DANGER

Never allow anyone to ride on the 1911 Filloll at any time. Allowing a person to ride on the machine can inflict serious personal injury or death to that person.

DANGER

- Disc blades are extremely sharp. Exercise extreme care when working on or near disc blades.
- Do not allow discs to roll over or fall onto any bodily part.
- Do not allow wrenches to slip when working near disc blades.
- Never push wrenches toward disc blades.
- Do not climb over machine above disc blades.

Failure to stay clear of disc blade edges can cause serious personal injury or death.

WARNING

- All hydraulically elevated equipment must have cylinder lockouts installed or be lowered to the ground, when servicing or when equipment is idle.
- Failure to take preventive measures against accidental lowering can result in serious personal injury.

DANGER

- Always lock the tractor drawbar in the center position when transporting the unit.
- Failure to do so can result in serious injury or death and cause damage to the equipment.

DANGER

- When transporting the unit, place cylinder lockouts in the transport lock position after fully extending the cylinders.
- Insert the lockout pins to secure the cylinder lockouts.
- Failure to lockout the cylinders can cause the unit to settle during transport, which can result in serious injury or death and cause damage to the equipment.

CAUTION

- When transporting farm implements on public roads, it is the responsibility of the operator to abide by state and local laws concerning wide loads, speed, safety emblems and safety lighting equipment.
- Drive at safe speeds. Particularly when rounding corners, crossing rough ground or driving on hillsides, to prevent tipping the tractor.

Tractor Preparation

The 1911 Filloll is designed to be pulled by tractor equipped with a double lip or clevis type hitch. If your tractor is not equipped as such, you need to purchase the hitch from your local tractor dealer.

Before attaching the 1911 Filloll, prepare the tractor as follows:

1. Inflate the rear tractor tires equally and add ballast according to the tractor operator's manual.
2. Lock the tractor drawbar in the center position.

1911 Filloll Preparation

1. Prior to operating the 1911 Filloll, inspect it thoroughly for good operating condition.
2. Replace worn or missing parts.
3. When the machine is new, check the bolt tightness after a few hours of operation. Tighten any loose nuts or bolts. Check the lift wheel lug bolts daily.
4. Check the lift wheel tire inflation. Inflate all tires equally to avoid side draft. Follow the tire manufacturer's recommended pressures listed on the sidewall of the tires.
5. Lubricate the machine as shown ***See Figure 4-12***.

Attaching to the Tractor

1. Align the tractor drawbar with the machine. Raise or lower the disc ring hitch, as needed, using the swivel jack. Attach the unit with proper size hitch pin.
2. Always place the swivel jack on the interior mount before setting the machine in motion.
3. Clean all hydraulic couplings and attach to the tractor.
4. Attach safety chain to tractor allowing plenty of movement for turning both directions. The safety chain should latch securely to prevent it coming loose.
5. Plug in the 7-pin connector for the lights.
   a. The tractor should have a good clean receptacle, free of dirt and corrosion.
   b. Make sure the 7-pin connector is inserted all the way in, and allows the cover to latch over the keyway to secure it in place.

NOTE

The lighting system requires a good ground connection and if the lights do not seem to work right check the installation of the 7-pin connector and the condition of the pins.

Hydraulic Lift System

The 1911 Filloll is equipped with two tie-rod cylinders and a 1-piece rockshaft to raise and lower the unit in the field.

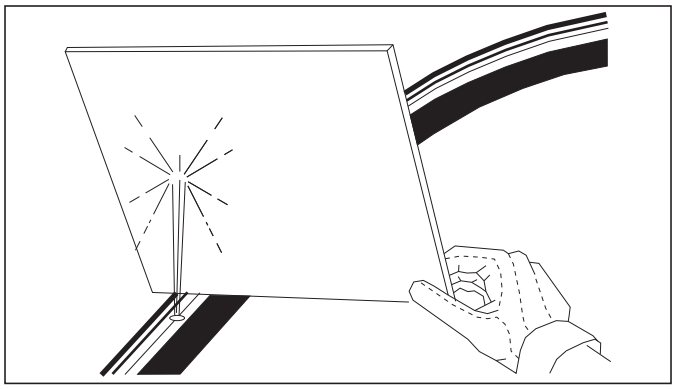


Figure 4-1: Hydraulic Leak Detection

⚠ WARNING

- Escaping hydraulic fluid can cause serious personnel injury.
- Relieve system pressure before repairing, adjusting, or disconnecting.
- Wear proper hand and eye protection when searching for leaks.
- Use cardboard instead of hands ***See Figure 4-1***.
- Keep all components (cylinders, hoses, fittings, etc.) in good repair.

1. If the hydraulic system is not filled with oil it should be purged of air before transporting and field operations. Carefully hitch the Filloll to the tractor and connect the hydraulic lift hoses. Check to make sure the tractor hydraulic reservoir is full of the manufacturer's recommended oil. Slowly raise the machine, and continue to hold the hydraulic lever until all lift cylinders are fully extended. Lower and raise the unit to verify that all cylinders are working simultaneously throughout the stroke.Recheck tractor reservoir to make sure it is within operating limits. With all cylinders fully extended, install the 1-3/4 X 8 transport lockouts in installed position ***See Figure 4-2*** from the stored position.

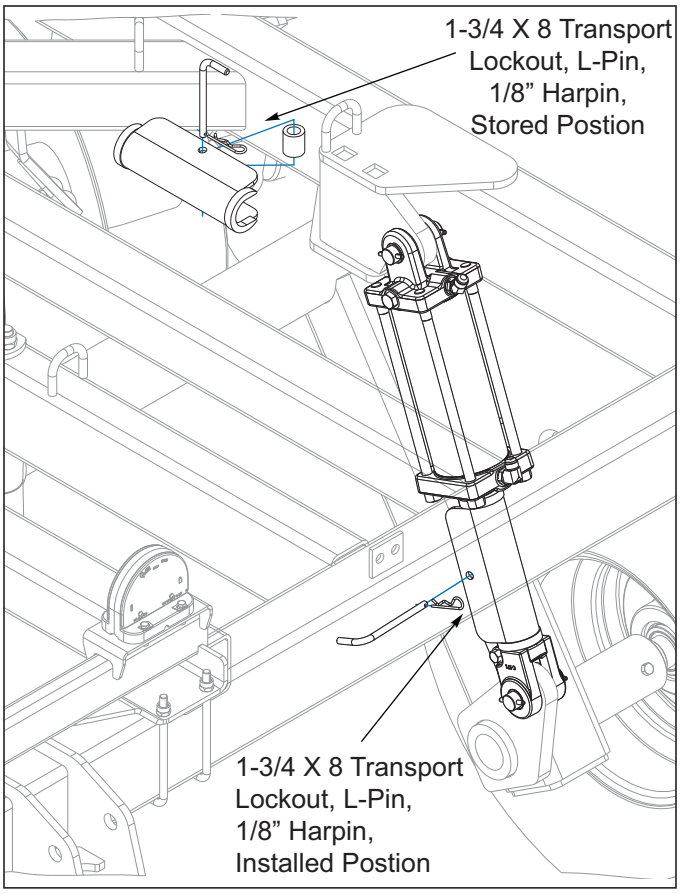


Figure 4-2: Transport Locks

Hydraulic Leveling System

1. The hydraulic leveling feature on the 1911 Filloll is used to level the unit from front-to-rear to perform a level discing operation in the field.
2. Be sure the system is fully charged with hydraulic oil before attempting to level the unit. Air in the system can allow uncontrolled dropping of the frame causing serious personal injury or machine damage. The system needs to be charged with oil initially and any time the system has been opened for repair such as cylinder, hose, or fitting replacement/repair.
3. To charge the system, carefully hitch the Filloll to the tractor. Unpin the rod end of the leveling cylinder and position it so it can extend and retract without contacting any frames or other parts. Check the tractor hydraulic fluid level to make sure it is full of the manufacturer’s recommended hydraulic fluid. Connect the cylinder hoses to the tractor and fully extend and retract the cylinder several times. The cylinder rod travel should be smooth and positive when all air has been purged from the system. Due to large amounts of hydraulic oil required, recheck the tractor fluid level to make sure it is within proper operating limits.
4. The unit should be level from front to rear and the soil behind the disc should be level without furrows or ridges. If there is a presence of a center ridge, the rear of the machine is too deep. If there is a center furrow left, the front of the machine is too deep.
5. Any change in working depth of the unit will require a change to the leveling feature to maintain front-to-rear levelness. These adjustments can be made on-the-go from the tractor and there is a reference gauge located on the center of the machine ***See Figure 4-3***.

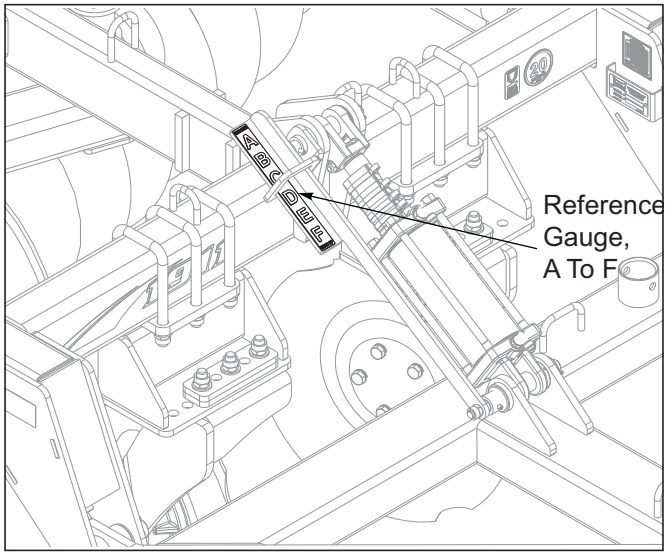


Figure 4-3: Reference Gauge

Hydraulic Blade Angle System

1. The 1911 Filloll is equipped with a rephasing hydraulic system to change the working blade angle of the disc gangs.
2. The rephasing hydraulic blade angle system contains a 3-3/4” bore cylinder plumbed in series with a 4” bore cylinder. It is important that the cylinders be connected in the proper series for the blade angle system to operate correctly. When the cylinders are fully extended and held in this position, oil is able to flow through the cylinders (or rephase) and allow the cylinders to operate in sync. This also allows the system to purge any air that may enter the system without having to loosen or crack hydraulic lines.

3. If the hydraulic system is not filled with oil, it should be purged of air before any field operations. Carefully hitch the Filloll to the tractor and connect the hydraulic hoses. Check to make sure the tractor hydraulic reservoir is full of the manufacturer's recommended oil. Extend the blade angle cylinders and continue to hold the hydraulic lever until all blade angle cylinders are fully extended. Extend and retract the cylinders to verify that all cylinders are working simultaneously throughout the stroke. If the cylinders are not working evenly or together, fully extend the blade angle cylinders and continue to hold the lever to purge any remaining air. Do not loosen any hoses or fittings. Recheck tractor reservoir to make sure it is within operating limits.
4. Always fully extend the cylinders and hold the lever to ensure the system is rephased before starting any field operation. This will ensure that the LH and RH gang assemblies are synchronized during field operation.

Conditioner Reels

The 1911 Filloll may be equipped with optional conditioner/double reel attachment. The conditioner/double reels will help to firm the soil profile, while mixing and breaking up soil clods. It can create excellent seed beds in finishing passes, and help anchor residue in primary operations.

1. Initially set the depth of the conditioner reel with the bottom of the reel approximately 1" above the bottom of the disc gang blades. This will be approximately 21" spring centers **(for 24" disc blades)** ***See Figure 4-4*****.**
2. To adjust the reel height, loosen the locking 1" hex nut at the front of the spring assembly. Also loosen the 1" nut on the back side of the 2-1/2" diameter front spring pin.

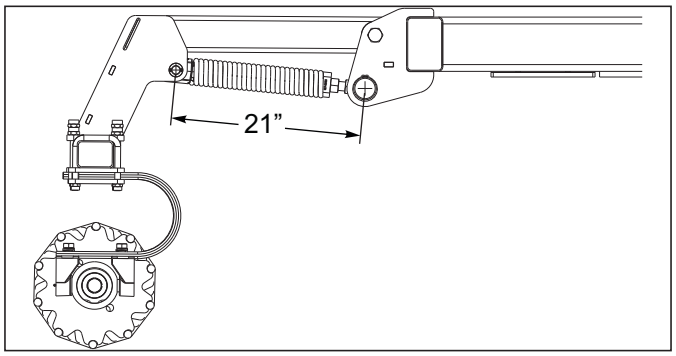


Figure 4-4: Conditioner Reel Setting

3. Turn the 1 x 9 adjusting bolt in or out to the desired height, then re-tighten both locking nuts. Repeat for each conditioner reel arm, and set all spring lengths the same.
4. Use a shallower depth setting when operating in lighter soils or wetter conditions. This will avoid plugging of the conditioner reel. Raising of the entire disc when working in a wet spot will reduce reel plugging as well. For heavier or dryer soils, an increased reel depth may be used.

NOTE

Excessive reel down pressure will try to roll the disc over on the front gangs causing the front to dip.

5. Level the disc front-to-rear after changes in reel depth or field conditions.

⚠ WARNING

- Know and verify the actual implement height and width before transporting.
- Attachments may increase the overall transport height and width of the implement.
- Use caution when operating near power lines.
- Electrocution can occur without direct contact.

Hydraulic Conditioner Reels

An optional hydraulic controlled reel is available for the 1911 Filloll. The hydraulic reel functions similar to the non-hydraulic reel.

The hydraulic reel operates on a separate hydraulic circuit. The reels may be raised or lowered hydraulically from the operator seat. This can be very useful when working around a wet area to prevent plugging. The reels may be operated all the way up, or all the way down. There is no intermediate working depth.

1. Maximum reel working depth is set by adjusting the spring on each reel arm. To adjust the conditioner reel spring, with the Filloll raised, lower the hydraulic reels, and relieve any reel system pressure.
2. Loosen the 1" locking hex nut at the front of the spring assembly, and loosen the 3/8 set screw in spring casting.
3. Using the flats on the rod end of the hydraulic cylinder, turn the cylinder shaft in or out to the desired spring setting.
4. Re-tighten the locking hex nut and set screw, repeat for each conditioner reel arm.
5. If operating the conditioner reels in the raised position for extended lengths of time, the machine front-to-rear level may need to be adjusted to account for the extra weight now being carried by the rear of the machine. Likewise excessive reel down pressure will try to roll the disc over on the front disc gangs, requiring the machine to be leveled.

Scraper Adjustment

The 1911 Filloll is equipped with rigid scrapers at regular spools with dual scrapers at the disc bearings.

1. Rigid scrapers should be set initially as close to the disc blade as possible without rubbing (approximately 1/8") ***See Figure 4-5***. A slotted hole at the top of each scraper is provided for individual adjustment. Adjustments may be made for entire gangs, by loosening the u-bolts around the angle-iron scraper bars and sliding the whole bar. Scraper arms are made of spring steel. In wet conditions, the scraper may be set against the disc blade and will function as a spring-loaded scraper.
2. Scraper blades have two positions. The blades are initially set in the front position to position scraper closer to the spool. This position will perform better in wet and heavier residue conditions. The blade may be moved back for dryer conditions and climates where less scraper action is needed.
3. Dual scrapers are provided at the bearing locations to scrape the disc blade and to limit the amount of soil and residue carried into the bearing hanger. Scrapers can be individually adjusted in or out from the concave side of the disc blade.

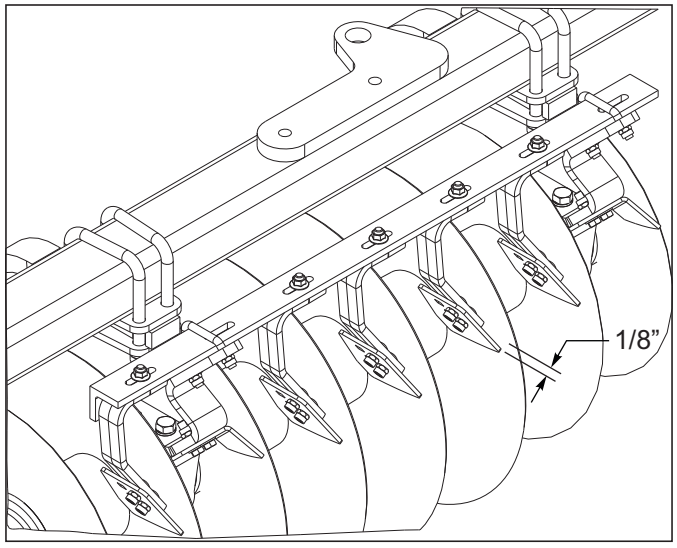


Figure 4-5: Scraper Adjustment

CAUTION

Tighten all 1-3/4" nuts to 1,250 foot-pounds of torque *See Figure 4-6*.

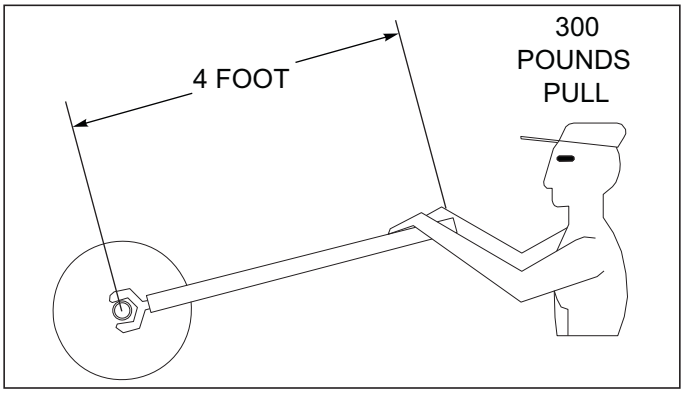


Figure 4-6: 1,250 Foot-Pounds of Torque

General Operation

1. The horsepower requirements are typically 8-10 horsepower per foot of cut. This will vary widely due to speed, depth, moisture, residue and types of soils. Local dealers can help in making recommendations for your areas.
2. Operating speed is typically 4 - 8 mph. Excessive speed can cause the unit to bounce and create an uneven cutting depth. Too low of speed may not allow the unit to properly fill in the center furrow.
3. Lift wheels must always be in contact with the ground and carrying some implement weight. Lift wheels are used to gauge the depth of each frame section and to control the leveling feature. Maximum discing depth cannot be achieved by raising the lift wheels off the ground. Little or no weight on the lift wheels will cause the frame sections to gouge, side-draft, and buckle producing inconsistent cutting depth.
4. Do not turn with the Filloll in the ground, this can put excessive side load on the gangs and hitch. Raise the unit slightly when making turns to prevent gouging and pushing a ridge.
5. The blade angle is intended to be changed while being pulled through the field. The more aggressive the angle, the more horsepower it will take to pull the Filloll. The blade angle may be adjusted from 10-18 degrees and the blade angle gauge is located on the right gangbar assembly ***See Figure 4-7***. The blade angle gauge goes from 1 to 4, with 1 being the least aggressive angle and 4 being the most aggressive angle.

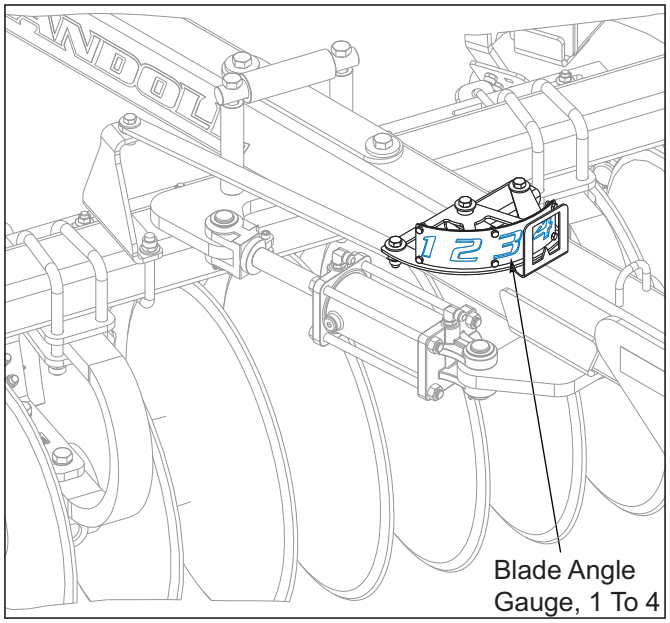


Figure 4-7: Blade Angle Gauge

Field Operation

1. Raise the unit to take the weight off of the transport locks. Remove the transport locks from the lift cylinders and store on the retainers in front of rockshaft ***See Figure 4-2*****.**
2. The 1911 can be operated so that it closes and levels pivot irrigation tracks, fills and levels implement ruts in the field, and levels small washouts or other erosion issues. Initially set the blade angle gauge at 1, ***See Figure 4-7*** and operate the machine level at the desired working depth. Both the blade angle and fore/aft levelness can be adjusted on-the-go to achieve the desired finish. Recommended operating speed to be 4-8 mph.

Disc Blades

1. The 1911 Filloll is equipped with 24”/22”/20” x 1/4" rollable disc blades. The use of other sized blades or configurations can give unpredictable results and is not recommended.
6. Sharpening – In some cases there is a desire to sharpen disc blades for improved cutting. There are several people who roll-sharpen disc blades. Most disc blades used today are made of chrome-boron steel. The chrome-boron steel has a higher hardness than traditional carbon-steel blades for increased wear. Higher hardness makes roll sharpening more difficult often with mixed results, and is not covered by warranty. Disc blade manufacturers will not cover any alterations to blades other than the place of manufacture. Results from roll-sharpening damage may not be immediate, and may take more than a season to be noticeable. If you choose to sharpen disc blades, check with local dealers for reputable experienced sharpeners that will stand behind their work.

DANGER

- Disc blades are extremely sharp.
- Exercise extreme care when working on or near disc blades.
- Do not allow discs to roll over or fall onto any bodily part.
- Do not allow wrenches to slip when working near disc blades.
- Never push wrenches toward disc blades.
- Do not climb over machine above disc blades.
- Failure to stay clear of disc blade edges can cause serious personal injury or death.

Replacing the Disc Hub Bearing

1. The replacement hub and bearing assembly is available as a pre-assembled assembly, Landoll 210880 for your convenience. Should you choose, the wear parts are also available in a kit to re-build the disc hub. Landoll kit 219945 includes the essential wear parts to rebuild a disc hub in the field ***See Figure 4-8***. When rebuilding disc hubs in the field it is highly recommended that you obtain a die, Landoll 218733, to assist in the proper assembly of the components in the hub assembly. Landoll Corporation will not accept responsibility for, or warranty hub assemblies re-built in the field.
2. Clean the O-Ring groove and the surfaces between the hub face and the correlating disc surface. Failure to clean the surfaces mentioned above, can cause the disc blade to loosen and cause water to infiltrate the bearing area.
3. Always replace the 1-8 flanged top lock nut, (Landoll Part No. 174732.) when repairing or replacing the hub assembly.
4. Apply Loctite Primer 7649 or 7471 to spindle bolt treads.
5. Use several drops of Loctite 271 when assembling the spindle nut
6. Always torque the flange top lock nut to approximately 200-250 foot pounds of torque immediately after applying the Loctite 271.

NOTE

Table provided for general use.Inadequate torquing of the disc hub (<120 ft/lb.) flanged top lock nut will cause premature bearing failure. Over torquing can also lead to premature bearing failure.

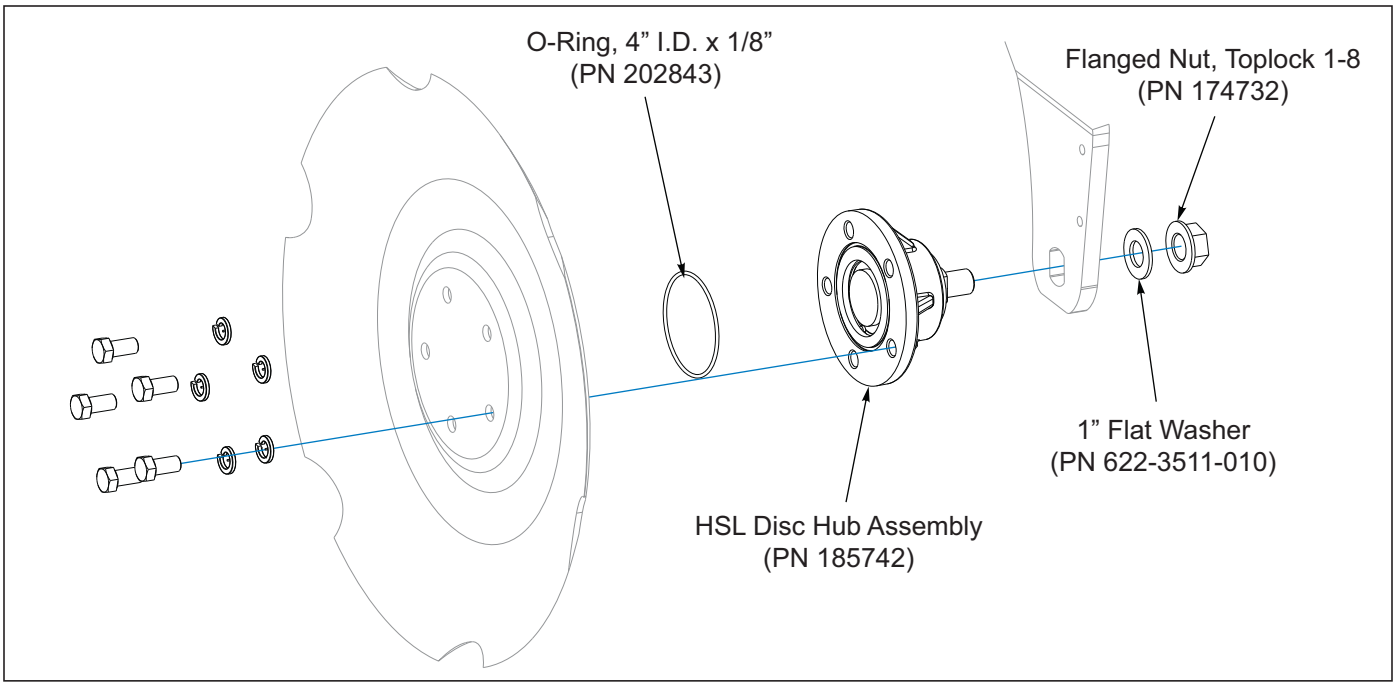


Figure 4-8: Disc Hub Bearing

Wheel Bearing Maintenance -- Triple-Lip

Table provided for general use. Wheel bearing maintenance should be performed at the beginning of every season of use. Check the wheel bearings periodically for excessive end play. If needed, adjust or replace them using the following procedure:

1. Place the frame on blocks or stands sufficient to lift the tire clear of the ground.
2. Remove the tire.
3. Remove the hub cap, cotter pin, slotted nut and washer.
4. Remove the hub. Clean and inspect the bearings and hub cavity. Replace any worn or defective parts.
5. Repack the bearings using a high-quality wheel bearing grease.
6. Slide the triple-lip seal onto the spindle. Do not install the seal into the hub.
7. Slide the inner bearing cone and hub onto the spindle.
8. Install the outer bearing cone, washer and slotted nut.
9. Tighten the slotted nut while rotating the hub until there is a slight resistance to wheel rotation. Then, back the slotted nut off one notch, until the wheel rotates freely without end play.
10. Slide the triple-lip seal to the hub and install the seal in the hub.

NOTE

The triple-lip seals should point away from the hub to keep contaminants out and allow grease to pass ***See Figure 4-9*****.**

7. Install a new cotter pin and replace the hub cap. ***See Figure 4-9*****.**

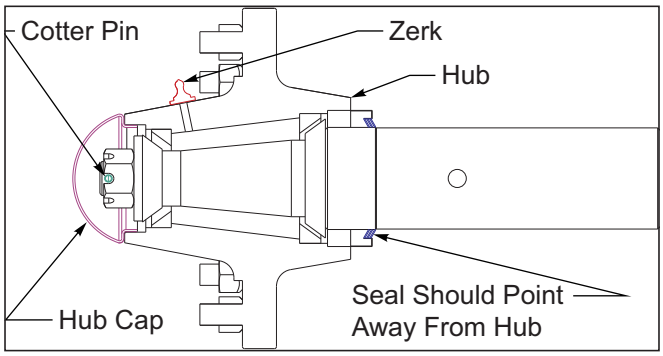


Figure 4-9: Triple Lip-Seal

Hydraulic Maintenance

1. Check the tractor hydraulic fluid level per tractor owner's manual and after any leakage. Check fluid level with the cylinders in the retracted position.
2. If a cylinder or valve leaks, disassemble the parts to determine the cause of the leak. Any time a cylinder is opened up, or whenever any seal replacement is necessary, it is advisable to clean all parts and replace all seals. Seal kits are available from your Landoll dealer.
3. Check all hydraulic hoses weekly. Look for binding or cracking. Replace all worn or defective parts immediately.

IMPORTANT

Unfold, lower the unit to the ground, and relieve hydraulic pressure before attempting to service any hydraulic component.

4. Transport locks are provided to hold the implement in a raised position. Do not attempt to perform any service work under the implement without first installing the transport locks. Before servicing any hydraulic component, lower the implement to the ground and relieve all system pressure. If a hydraulic component is disconnected, repaired, or replaced, it will be necessary to purge the system of air before operation. **See** ***"Hydraulic Lift System" on page 4-2*** on how to purge the hydraulic systems.

Table provided for general use.

NOTES:

Transport

1. Check and follow all federal, state, and local requirements before transporting the 1911 Filloll.
2. The 1911 should be transported only by tractor required for field operation. The implement weight should not exceed more than 1.5 times the tractor weight. Maximum transport speed for the 1911 is 20 mph for the implement and is designated on the speed identification symbol located on the front and rear of the implement ***See Figure 4-10***.

CAUTION

- Excessive speed may result in loss of control of the tractor and implement, reduced braking ability, or failure of the implement tire or structure.
- Do not exceed the implement maximum specified ground speed regardless of the capability of the maximum tractor speed.

3. When towing equipment in combination, the maximum equipment ground speed shall be limited to the lowest specified ground speed of any of the towed implements.
4. Maximum transport speed shall be the lesser of travel speed specified in the operator's manual, speed identification symbol, information sign of towed equipment, or limit of road conditions.
5. Slow down when driving on rough roads. Reduce speed when turning, or on curves and slopes to avoid tipping. Equipment altered other than the place of manufacture may reduce the maximum transport speed. Additional weight, added tanks, harrowing attachments, etc. may reduce implement load carrying capabilities.
6. A safety chain is provided with the implement to insure safe transport.
   a. The safety chain should have a tensile strength equal to or greater than the gross weight of the implement. The chain is attached to the lower hitch clevis hole with two flat washers between the clamp plates to assure a tight connection. Always use a 1” diameter Grade 8 bolt for this connection.
   b. Attach the safety chain to the tractor drawbar ***See Figure 4-10***. Provide only enough slack in the chain for turning. Do not use an intermediate chain support as the attaching point for the chain on the tractor. Do not pull the implement by the safety chain.

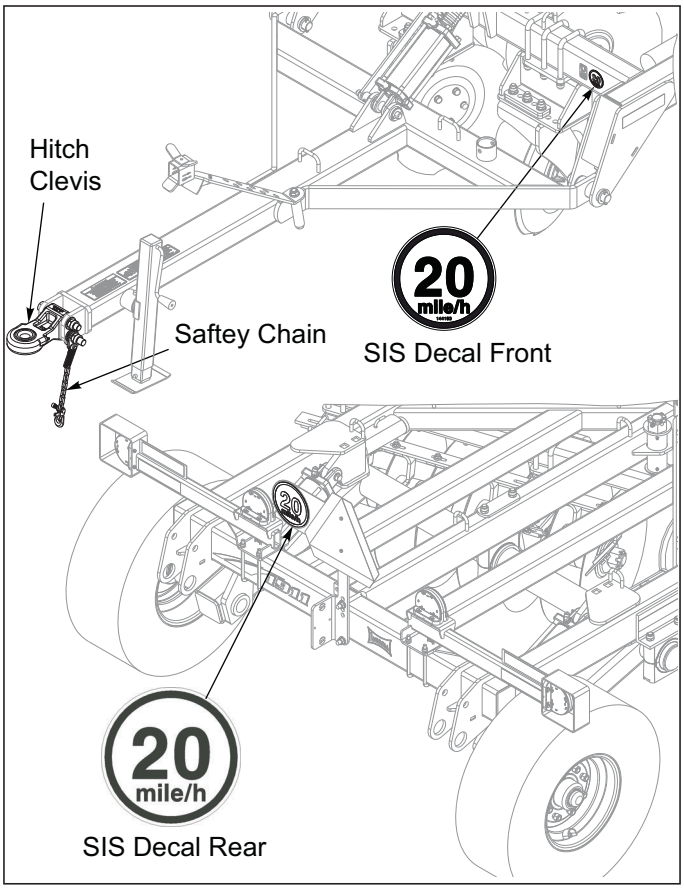


Figure 4-10: Hitch, Speed Identification Symbol, and Safety Chain

   c. When unhitching from the tractor attach the hook end of the chain to a free link close to the hitch clevis for storage. This will keep the hook off the ground, reducing corrosion and keep the hook functioning properly.
   d. Regularly inspect the safety chain for worn, stretched, or broken links and ends. Replace the safety chain if it is damaged or deformed in any way.
7. Check that tires are of proper size, load rating, and inflated to manufacture specifications before transporting. Check wheel lug bolts to insure tightness.
8. Know the transport heights and widths of the unit before transporting. Attachments such as leveling harrows can increase the transport dimensions of the implement. Use caution when transporting near bridges and power lines.

WARNING

- Electrocution can occur without direct contact.

9. Raise the unit to full transport height.
10. Remove the transport locks from stored position and install on both lift cylinders. Do not depend solely on implement hydraulics for transport ***See Figure 4-11*****.**

WARNING

• Failure to use transport lock pins during transport may result in permanent equipment damage, serious injury, or death.

11. Transport during daylight hours whenever possible. Always use flashing warning lights, except where such use is prohibited by law. Make sure lights, reflectors and SMV emblem are clearly visible and operating. Remove any obstructions such as dirt, mud, stalks or residue that restricts view before transporting.
12. To increase stability and reel clearance on center frame, use hydraulic leveler to roll the unit forward.

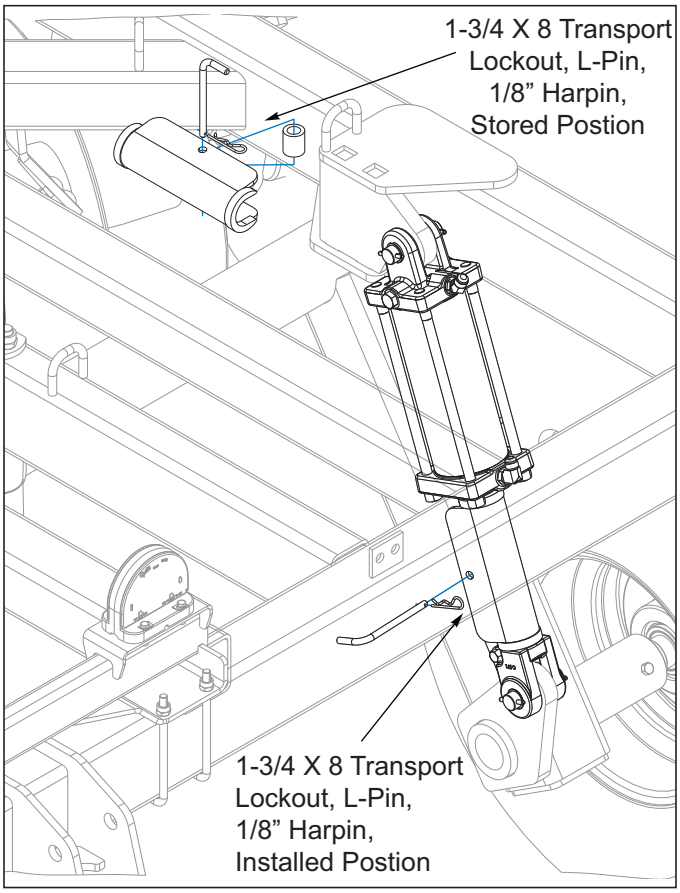


Figure 4-11: Installed Transport Locks

Lubrication Maintenance

1. The center cutout option of the1911 Filloll features a maintenance free double tapered roller bearing in each disc hub **(Landoll Part No. 174526)**. The maintenance free double tapered bearing is protected by a lifetime lubricated five lip seal **(Landoll Part No. 185757)** on the hub's spindle side ***See Figure 4-8***. The joint between the disc blade and the hub face is sealed with an O-ring that is compressed in a groove in the hub and seals against the disk. Should it become necessary for a disc hub bearing to be replaced there are two options available.
   - **a.** A complete hub assembly **(Landoll Part No. 210880)**, ready to install.
   - **b.** A rebuild kit **(Landoll Part No. 219945)** with all required components.
     - i. The rebuild kit comes with instructions **(Part No. 219946)**
     - ii. Installation of the HSL hub rebuild kit requires a die **(Part No. 218733)** to set the bearing and seals.
2. A proper maintenance schedule will insure a long operating life and peak performance. Performing the following lubrication guidelines will ensure maximum operating life of the 1911 Filloll ***See Figure 4-12*** and ***Table 4-1***.
3. When lubricating the Filloll, SAE multi-purpose EP grease, or EP grease with 3-5% molybdenum sulfide is recommended. Wipe soil from fittings before greasing. Replace any lost or broken fittings immediately.
4. Disc gang and conditioner reel bearings are equipped with seals that will allow grease to pass and not harm the seal. Regular lubrication will maintain a full grease cavity and help purge any contaminants. Grease the bearings before long periods of storage to prevent moisture buildup within the bearing cavity.
5. Wheel seals, when properly installed, will allow grease to pass without harm to seals. Regular lubrication will extend service life, particularly in severe operating conditions.
6. The Filloll is equipped with maintenance-free bearings in the lift and leveler. These areas require no lubrication.
7. The disc gang pivot pin, bushing and wear pad will require an annual inspection. Lower the unit so that all discs are in contact with the ground. Remove the cross bolt and nut from the disc gang pivot castle nut and check to see if the castle nut is still tight. If it is loose, remove the castle nut and inspect the wear pad, bushing and pin for wear. Replace parts as needed and reassemble. If the castle nut is still tight, no further inspection is needed. Ensure everything has been reassembled correctly and grease each disc gang pivot until grease has purged from top and bottom.

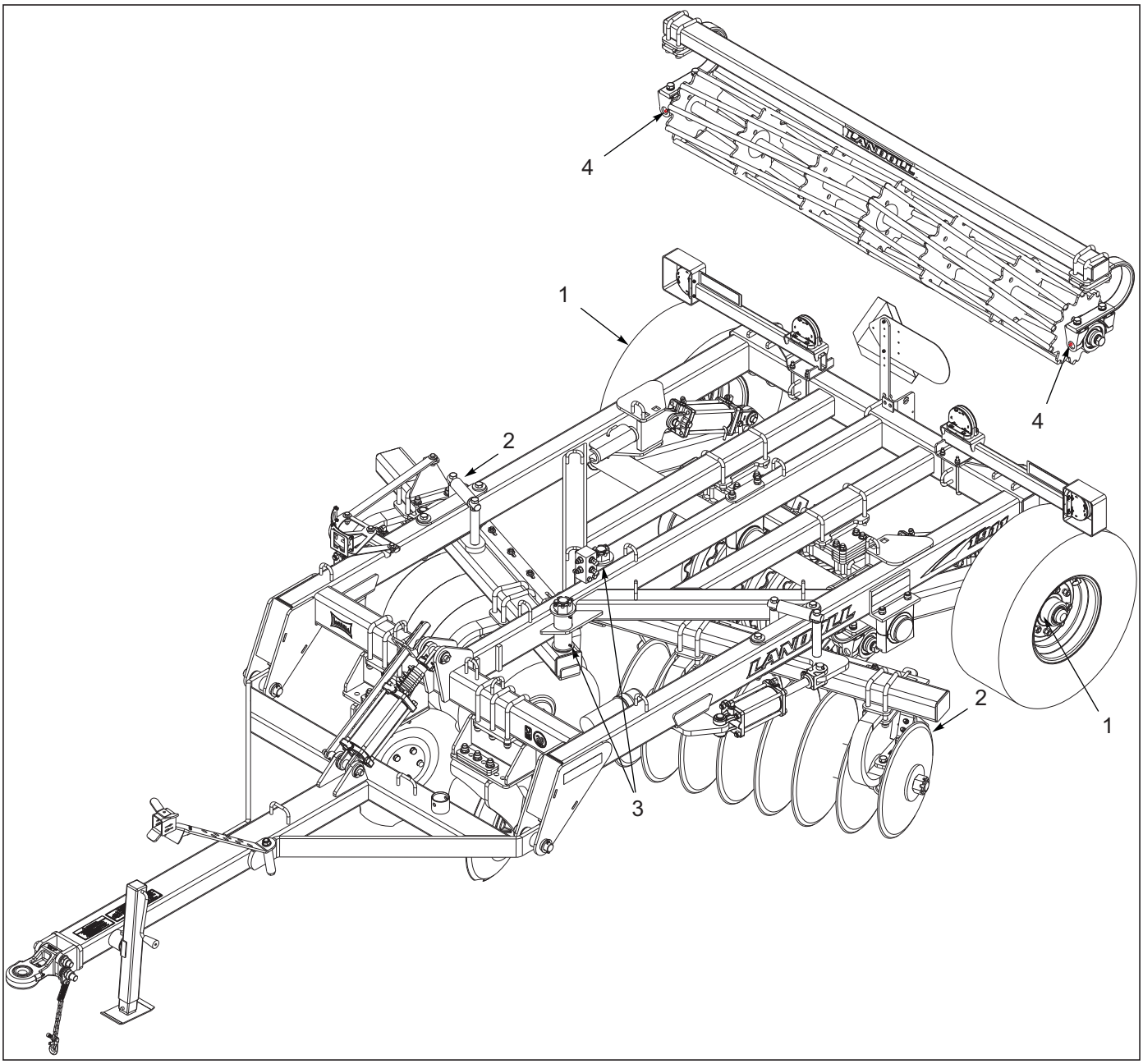


Figure 4-12: Lubrication Schedule

LUBRICATION TABLE			
ITEM	**DESCRIPTION**	**NO. OF LUBE POINTS**	**INTERVAL**
1	Wheel Hubs	2	50 hrs.
2	Disc Gang Bearings	1 each	10 hrs.
3	Gang Pivot	4	10 hrs.
4	Conditioner Reel Bearings	1 each	10 hrs.

Table 4-1: Lubrication Table

Storage

1. The service life of the 1911 Filloll will be extended by proper off-season storage practices. Prior to storing the unit, complete the following procedures:
   a. Completely clean the unit.
   b. Inspect the machine for worn or defective parts. Replace as needed.
   c. Repaint all areas where the original paint is worn off.
   d. Grease all exposed metal surfaces of shanks, points and discs.
   e. Apply a light coating of oil or grease to exposed cylinder rods to prevent them from rusting.
   f. Lubricate each point of the machine as stated in ***"Lubrication Table" on page 4-14***.
2. Store the unit in a shed or under a tarpaulin to protect it from the weather. The ground tools and tires should rest on boards, or some other object, to keep them out of the soil.

Table provided for general use.

NOTES:

Chapter 5

Troubleshooting Guide

The Troubleshooting Guide, shown below, is included to help you quickly locate problems that can happen using your 1911 Filloll. Follow all safety precautions stated in the previous when making any adjustments to your machine.

PROBLEM	PROBABLE CAUSE	SOLUTION
UNIT NOT LEVEL, LEAVING CENTER RIDGE	Leveler not adjusted properly	Adjust leveler, lower front of the machine
	Blade angle is too aggressive	Adjust blade angle to be less aggressive
UNIT NOT LEVEL, LEAVING CENTER FURROW	Leveler not adjusted properly	Adjust leveler, lower rear of the machine
	Blade angle is not aggressive enough	Adjust blade angle to be more aggressive
UNEVEN CUTTING DEPTH	Lift wheels not carrying enough weight	Adjust working depth and raise implement
	Tire pressure too low	Check inflation
	Unit not level front to rear	Adjust unit to be level
	Operating speed to high	Slow operating speed down
UNIT SIDE DRAFTS OR MOVES SIDE TO SIDE	Lift wheels not carrying enough weight	Adjust working depth and raise implement
	Unit not level front to rear	Adjust unit to be level
WHEEL BEARING FAILURE	Triple-lip seals not installed correctly	Install seals with the lips pointing outward away from the hub
HYDRAULIC - BLADE ANGLE CYLINDERS NOT FULLY EXTENDING	Blade angle cylinders not in phase	Fully extend cylinders and hold hydraulic lever until all cylinders are fully extended
	Blade angle cylinders not installed in proper series	RH blade angle cylinder is smaller diameter than the LH blade angle cylinder. Reinstall cylinders properly
	Hoses not properly connected	Check hose routings
UNIT PLUGGING OR DISCS WILL NOT TURN	Operating depth too deep	Raise unit
	Conditions too wet	Wait until conditions are more favorable
LIGHTS DO NOT WORK	Harness or lamp connection unplugged	Check all harness/lamp connections to verify that everything is properly connected
	7 prong connector	Fully insert on clean connection
CONDITIONER REELS PLUGGING	Excessive down pressure	Raise reel and/or reduce down pressure

Table provided for general use.

NOTES:

Illustrated Parts List

Center Frame Assembly

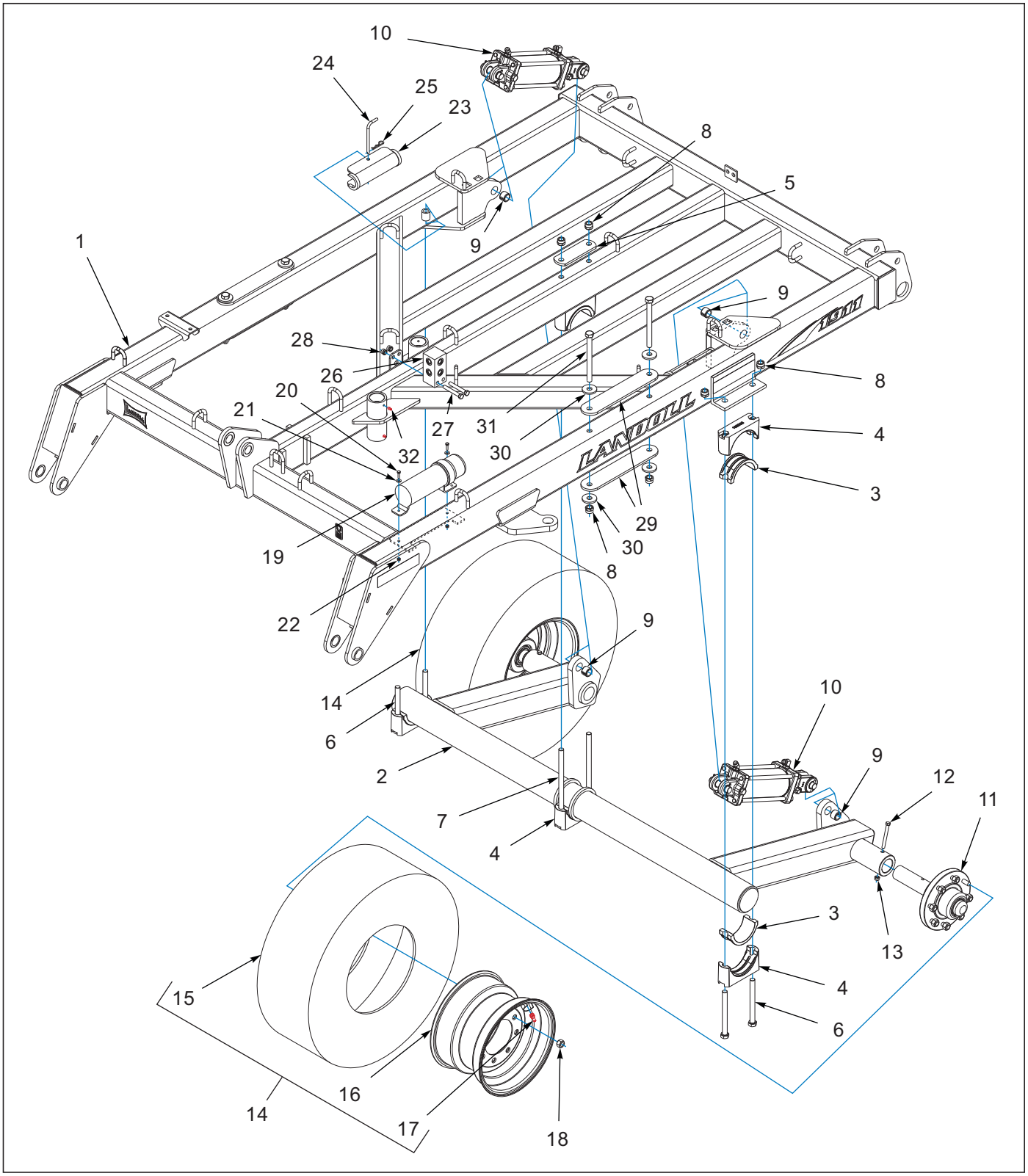


Figure 6-1: Center Frame Assembly

Center Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
1	247593	WLDMT, CENTER FRAME, 1911	1
2	229590	WLDMT, LIFT	1
3	2P793	BRG INSERT, 4 1/2 INSERT	6
4	188038	BRG HALF, 4-1/2 INSERT	6
5	188649	PLATE, CLAMP-6"	1
6	1-654-010061-21	SCREW,HX CP,3/4-10UNCX8	4
7	155965	SCREW HX CP 3/4-10UNCX14 GR5B	2
8	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	10
9	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4
10	148387	CYLINDER HYDRAULIC 4 X 8	2
11	147553	8 BOLT HUB ASSY, 2-1/4" SPDL **(SEE PAGE 6-3)**	2
12	141809	SCREW HX CP7/16-14UNC X 4 GR5	2
13	101988	NUT,HEXSLF-LKG 7/16-14 GRB	2
14	184708	TIRE ASSY,320/70R15,8 BOLTWHL **(INCLUDES ITEMS 15, 16, 17)**	2
15	204385	FIRESTONE RADIAL 320/70R15	2
16	140548	WHEEL, 15 X 10 LB 8 BOLT	2
17	TR575	VALVE STEM TUBELESS TIRE	2
18	102600	NUT,WHEEL BOLT, 5/8	16
19	142753	MANUAL HOLDER	1
20	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
21	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
22	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
23	231777	LOCKOUT, 1-3/4" RODX8 WLDMT	2
24	104358	L PIN,CYL STOP	2
25	1-557-010403	HAIRPIN 1/8	2
26	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
27	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
28	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
29	252901	NYLATRON, GANGBAR SLIDE	4
30	200259	WASHER, 3/4 HEAVY - 2-1/4	8
31	1-654-010061-22	SCREW,HEX CAP,3/4-10UNCX8-1/2	4
32	171024	FITTING, GREASE 5/16-24 STR	4

Hub/Spindle Assembly

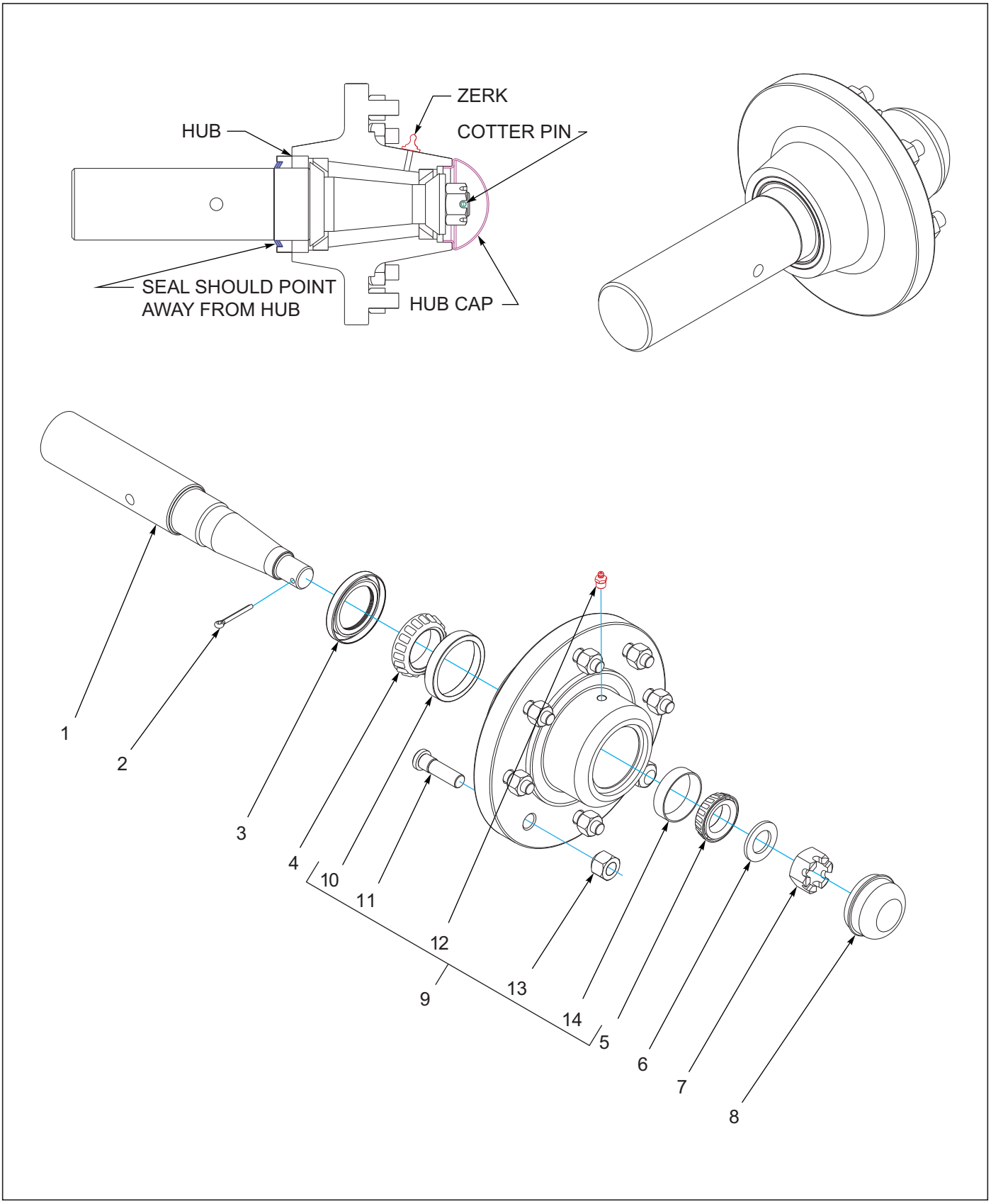


Figure 6-2: Hub/Spindle Assembly

Hub/Spindle Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
--	147553	8 BOLT HUB ASSY, 2-1/4" SPDL	
1	141198	SPINDLE 2-1/4 IN	1
2	1-557-010362-51	PIN, COTTER 3/16X1-1/2	1
3	140554	SEAL GREASE	1
4	140595	CONE BEARING	1
5	1-076-010007	CONE INNER	1
6	141238	WASHER, SPINDLE	1
7	1-516-010001-20	NUT, HX SLOT 1-14	1
8	141236	DUST CAP, WHEEL HUB	1
9	140646	HUB W/CUPS, EIGHT BOLT **(INCLUEDS ITEMS 10-14)**	1
10	140594	CUP BEARING	1
11	143067	STUD BOLT 5/8-18	8
12	5000	ZERK FITTING 1/8NPT	1
13	102600	NUT,WHEEL BOLT, 5/8	8
14	1-076-010010	CUP INNER	1

Hitch Assembly

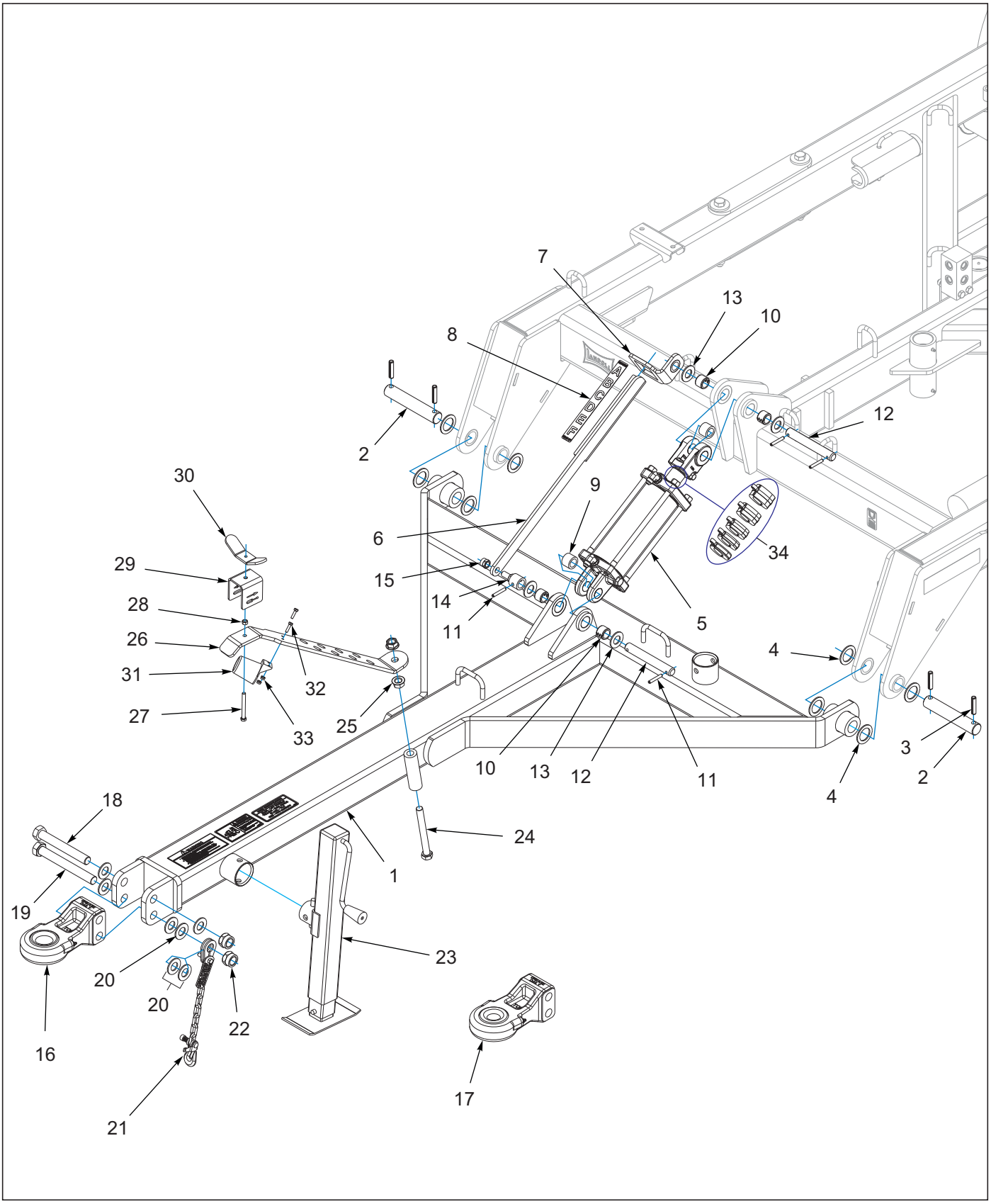


Figure 6-3: Hitch Assembly

Hitch Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
1	229589	WLDMT, HITCH	1
2	7J856	PIN, ø1-7/16" X 8"	2
3	141251	SPRING PIN,SLOTTED 1/2X2-1/4	4
4	8-861-010021	FW 2-3/8ODX1-5/8IDX1/8 ZP	8
5	148387	CYLINDER HYDRAULIC 4 X 8 **(SEE PAGE 6-31)**	1
6	231815	TILT GAUGE	1
7	231818	PLATE, TILT GAUGE	1
8	234429	DECAL, LEVEL INDICATOR, 1911	1
9	2-150-010227	BUSHING, HITCH, 2327	2
10	192890	BUSHING 1-3/8ODX1 IDX1 STEEL	4
11	147072	PIN, SPRING SLOTTED 5/16 X 2	4
12	158299	PIN 1X7-5/16	2
13	1-861-010032-24	WASHER FL 1IN NARROW ZP	4
14	231813	BRACKET, TILT GAUGE MNT	1
15	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	1
16	177031	HITCH, BALL CAT IV **(SEE PAGE 6-7)**	1
17	177030	HITCH, BALL CAT III **(SEE PAGE 6-7)**	1
18	153696	BOLT, HITCH CLEVIS	1
19	1-654-010125-22	SCREW HX CP 1-8UNCX8-1/2G8ZP	1
20	1-861-010032-24	WASHER FL 1IN NARROW ZP	7
21	141433	SAFETY CHAIN 11,000LB	1
22	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
23	140647	JACK, SIDE WIND 7000/8000 LB **(SEE PAGE 6-8)**	1
24	1-654-010061-19	SCREW,HX CP 3/4-10UNCX7 GR5	1
25	103841	NUT,FLG,LNK,SERRATED 3/4-10UNC	2
26	141246	BRACKET, HOSE HOLDER	1
27	141807	SCREW 3/8-16UNCX3-1/2 ALLTHRD	1
28	1-512-010007-07	NUT, HEX 3/8-16 GR2 ZP	1
29	141247	CLAMP, HOSE HOLDER	1
30	141249	WING NUT, HOSE HOLDER	1
31	2-368-010287	HARNESS, STOR-A-WAY	1
32	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
33	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
34	209432	KIT, ø2 ROD CYL DEPTH STOP	2

Ball/Clevis Hitches

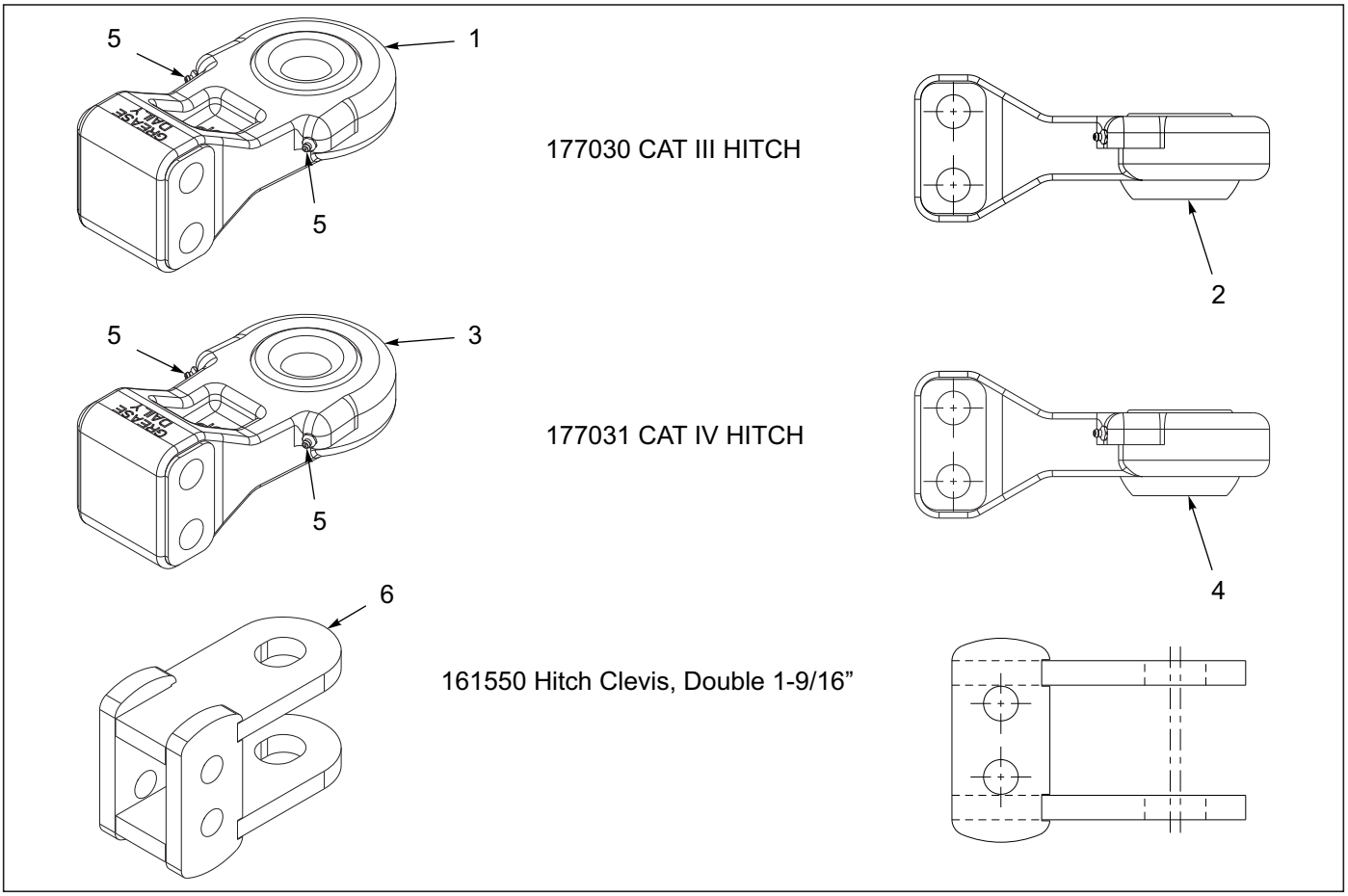


Figure 6-4: Ball/Clevis Assembly

Ball/Clevis Hitches

ITEM	PART NUMBER	DESCRIPTION	QTY
1	177030	HITCH, BALL CAT III	1
2	189453	BUSHING, SPHERICAL 1-1/2 ID **(STANDARD)**	1
2	189454	BUSHING, SPHERICAL 2 ID	1
3	177031	HITCH, BALL CAT IV	1
4	189454	BUSHING, SPHERICAL 2 ID **(STANDARD)**	1
4	189453	BUSHING, SPHERICAL 1-1/2 ID	1
5	1-298-010001-1	ZERK FITTING 1/4 SAE	1
6	161550	HITCH CLEVIS DOUBLE 1-9/16 WLD	1

7,000 Lb. Sidewind Jack Assembly

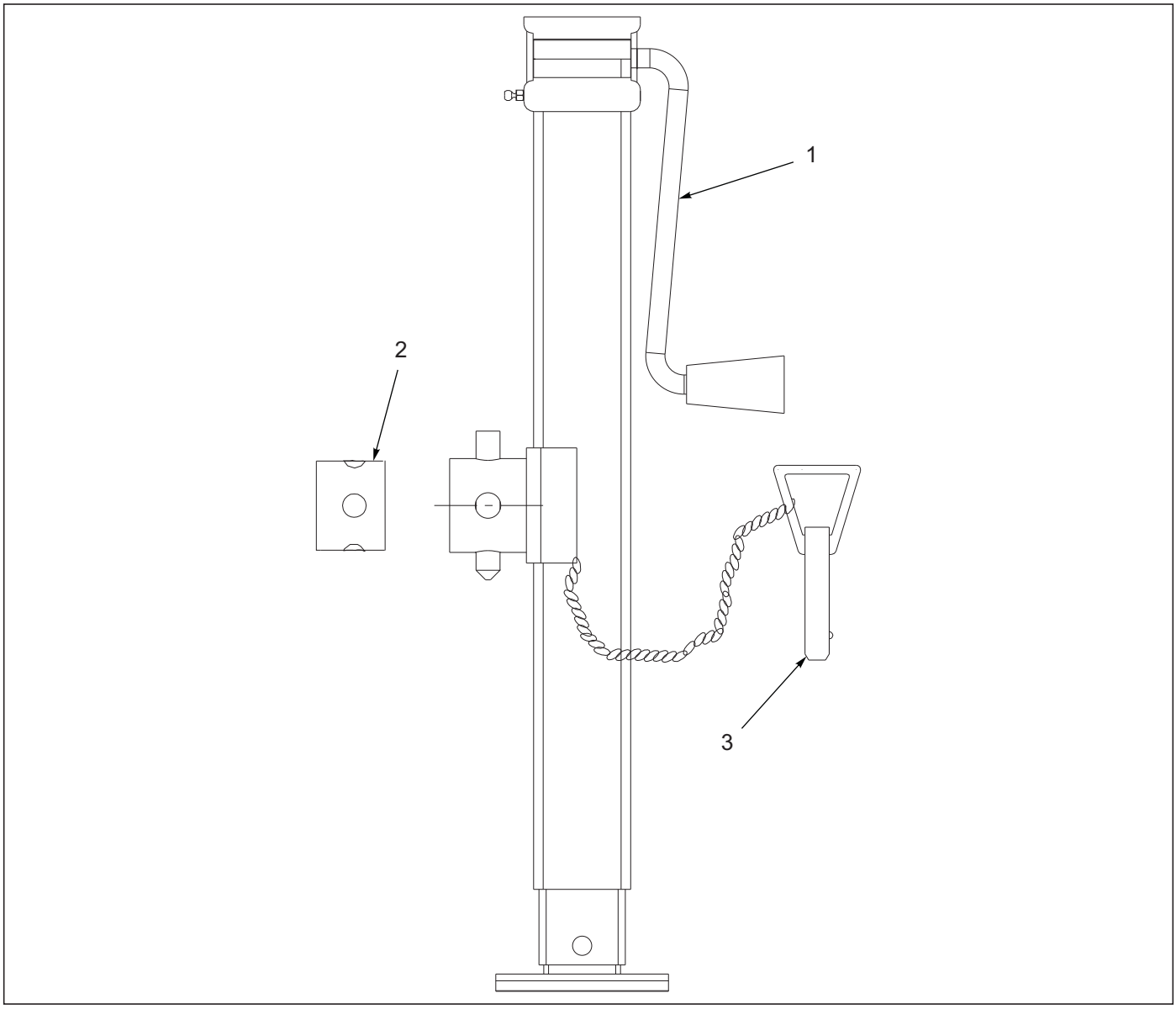


Figure 6-5: 7,000 Lb. Sidewind Jack Assembly

7,000 Lb. Sidewind Jack Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
--	140647	JACK, SIDEWIND 7000LB	
1	500171	HANDLE FOR JACK	1
2	141250	TUBE, RD, JACK MOUNT **(WELD TO IMPLEMENT FRAME)**	1
3	142194	5/8" PIN	1

Disc Gang Assembly

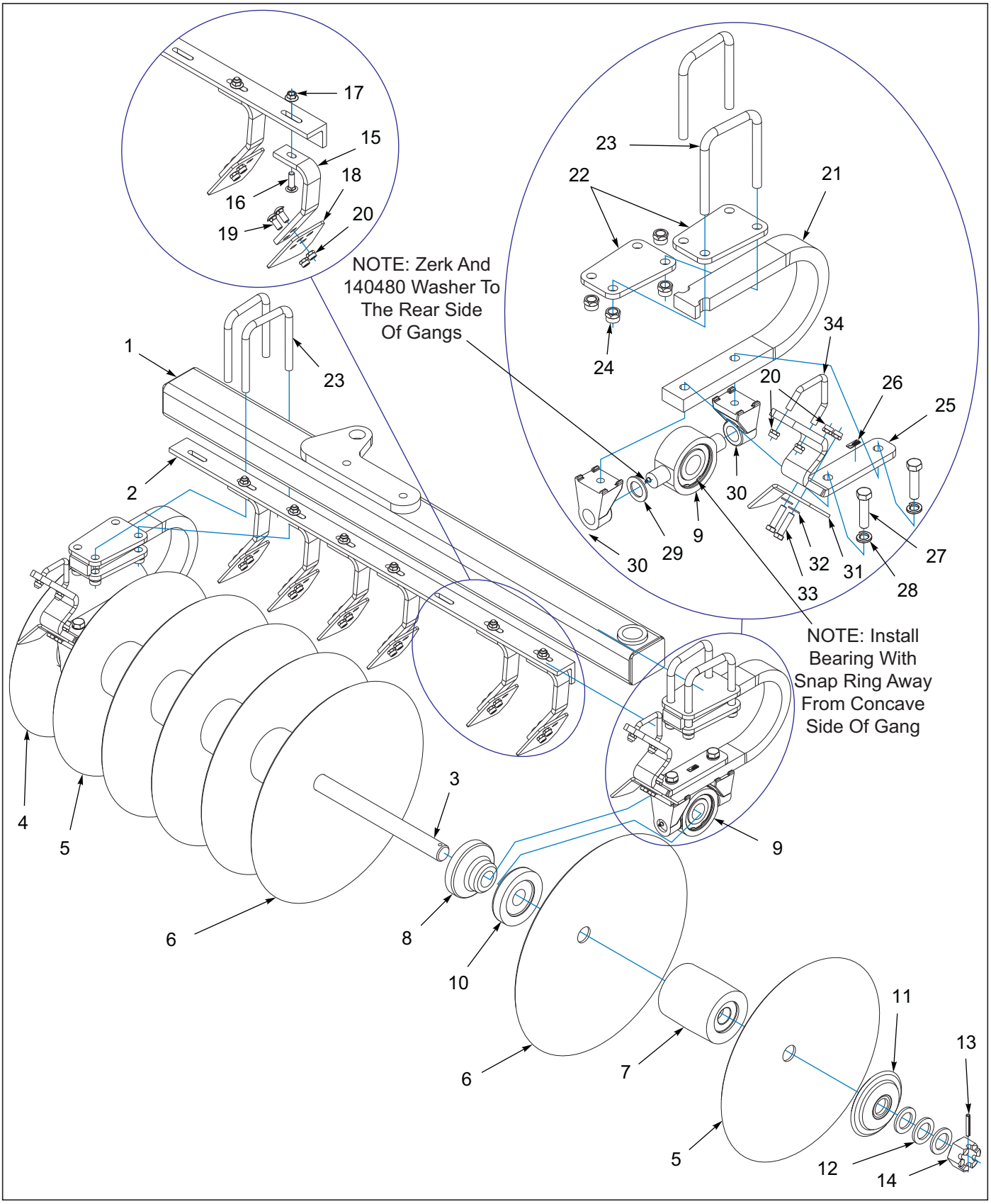


Figure 6-6: Disc Gang Assembly

Disc Gang Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY			
--	247590	ASSY, 9' LH DISC GANG	*			
--	247591	ASSY, 9' RH DISC GANG		*		
--	253006	ASSY, 11' LH DISC GANG			*	
--	253007	ASSY, 11' RH DISC GANG				*
1	-----	GANG BAR **(SEE PAGE 6-11)**	REF	REF	REF	REF
2	-----	SCRAPER BAR **(SEE PAGE 6-11)**	REF	REF	REF	REF
3	-----	GANG SHAFT **(SEE PAGE 6-11)**	REF	REF	REF	REF
4	155619	DISC BLADE,20"X1/4" 1-3/4 ID	1	1	1	1
5	155618	DISC BLADE,22"X1/4" 1-3/4 ID	2	2	2	2
6	172076	DISC BLADE, 24"X1/4", 1-3/4"ID	5	5	7	7
7	154668	SPOOL, CAST 7 SP	5	5	7	7
8	153651	HALF SPOOL, CONVEX 7 SP	2	2	2	2
9	140477	BEARING, DISC 1.775 ID ASSY **(SEE PAGE 6-21)**	2	2	2	2
10	140485	HALF SPOOL, CONCAVE	2	2	2	2
11	140469	END COLLAR	1	1	1	1
12	141154	WASHER, GANG SHAFT	3	3	3	3
13	23085	NUT, HEX SLOTTED 1-3/4 - 5	2	2	2	2
14	1-647-010004257	PIN, SPRING SLOTTED 3/8 X 2-1/2	2	2	2	2
15	172724	ARM, SCRAPER	6	5	8	7
16	160161	SHAKER BOLT1/2-13X1-3/4 GR8ZP	6	5	8	7
17	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	6	5	8	7
18	166718	SCRAPER, 5-1/2"	6	5	8	7
19	1-654-010070-02	SCREW 1/2-13X1-1/4 RD HD SQNK	12	10	16	14
20	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	20	18	24	22
21	140481	SHANK, DISC BEARING, RIGHT **(USED ON LEFT GANG)**	2	--	2	--
21	140482	SHANK, DISC BEARING, LEFT **(USED ON RIGHT GANG)** **(NOT SHOWN)**	--	2	--	2
22	140483	PLATE, DISC SHANK MOUNT	4	4	4	4
23	140484	U-BOLT, 3/4 X 5	4	4	4	4
24	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	8	8	8	8
25	140490	MOUNT, SCRAPER BAR RIGHT **(USED ON LEFT GANG)**	2	--	2	--
25	140491	MOUNT, SCRAPER BAR LEFT **(USED ON RIGHT GANG)** **(NOT SHOWN)**	--	2	--	2
26	2-573-010330-02	DECAL, LUBRICATION 10 HOURS	2	2	2	2
27	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	4	4	4	4
28	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4	4	4
29	140480	WASHER, TRUNNION	2	2	2	2
30	140479	MOUNT, TRUNNION	4	4	4	4
31	180140	SCRAPER, DUAL RT, 7-24" LC **(USED ON LEFT GANG)**	2	--	2	--
31	180141	SCRAPER, DUAL LT, 7-24" LC **(USED ON RIGHT GANG)** **(NOT SHOWN)**	--	2	--	2
32	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	4	4	4	4
33	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	4	4	4	4
34	140487	UBOLT, SCRAPER BAR MOUNT	2	2	2	2

Disc Gang Placement

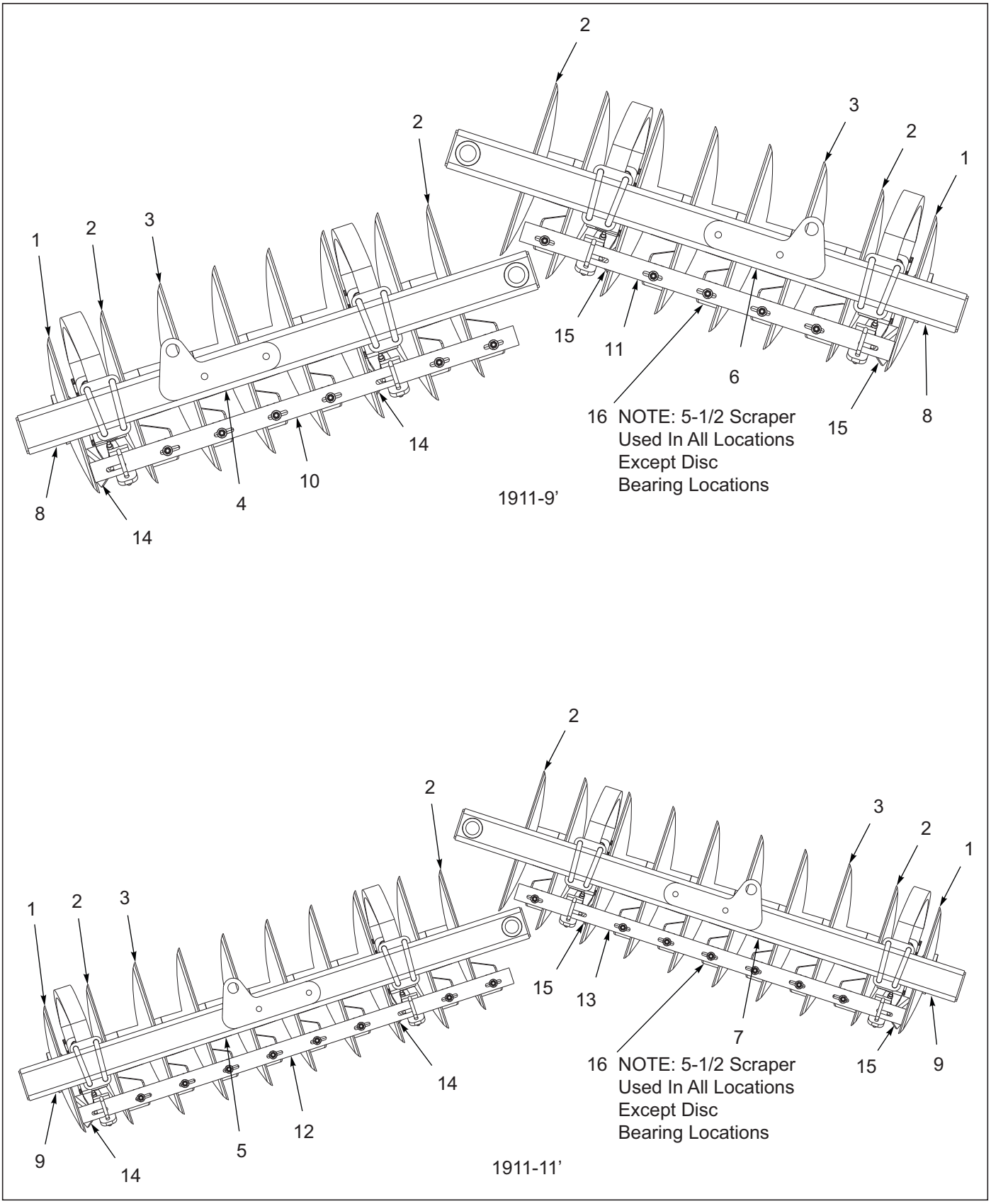


Figure 6-7: Disc Gang Placement

Disc Gang Placement

ITEM	PART NUMBER	DESCRIPTION	QTY			
--	247590	ASSY, 9' LH DISC GANG	*			
--	247591	ASSY, 9' RH DISC GANG		*		
--	253006	ASSY, 11' LH DISC GANG			*	
--	253007	ASSY, 11' RH DISC GANG				*
1	155619	DISC BLADE,20"X1/4" 1-3/4 ID	1	1	1	1
2	155618	DISC BLADE,22"X1/4" 1-3/4 ID	2	2	2	2
3	172076	DISC BLADE, 24"X1/4", 1-3/4"ID	5	5	7	7
4	247594	WLDMT, 9' LH GANG BAR	1	--	--	--
5	253010	WLDMT, 11' LH GANG BAR	--	1	--	--
6	247595	WLDMT, 9' RH GANG BAR	--	--	1	--
7	253011	WLDMT, 11' RH GANG BAR	--	--	--	1
8	153713	SHAFT, GANG 55-1/2 L	1	1	--	--
9	180147	SHAFT, GANG 69-1/2 L	--	--	1	1
10	153699	SCRAPER BAR, 7 SP 8 HOLE	1	--	--	--
11	153698	SCRAPER BAR, 7 SP 7 HOLE	--	1	--	--
12	153701	SCRAPER BAR, 7 SP 10 HOLE	--	--	1	--
13	153700	SCRAPER BAR, 7 SP 9 HOLE	--	--	--	1
14	180140	SCRAPER, DUAL RT, 7-24" LC	2	--	2	--
15	180141	SCRAPER, DUAL LT, 7-24" LC	--	2	--	2
16	166718	SCRAPER, 5-1/2"	6	5	8	7

Disc Gang To Frame Assembly

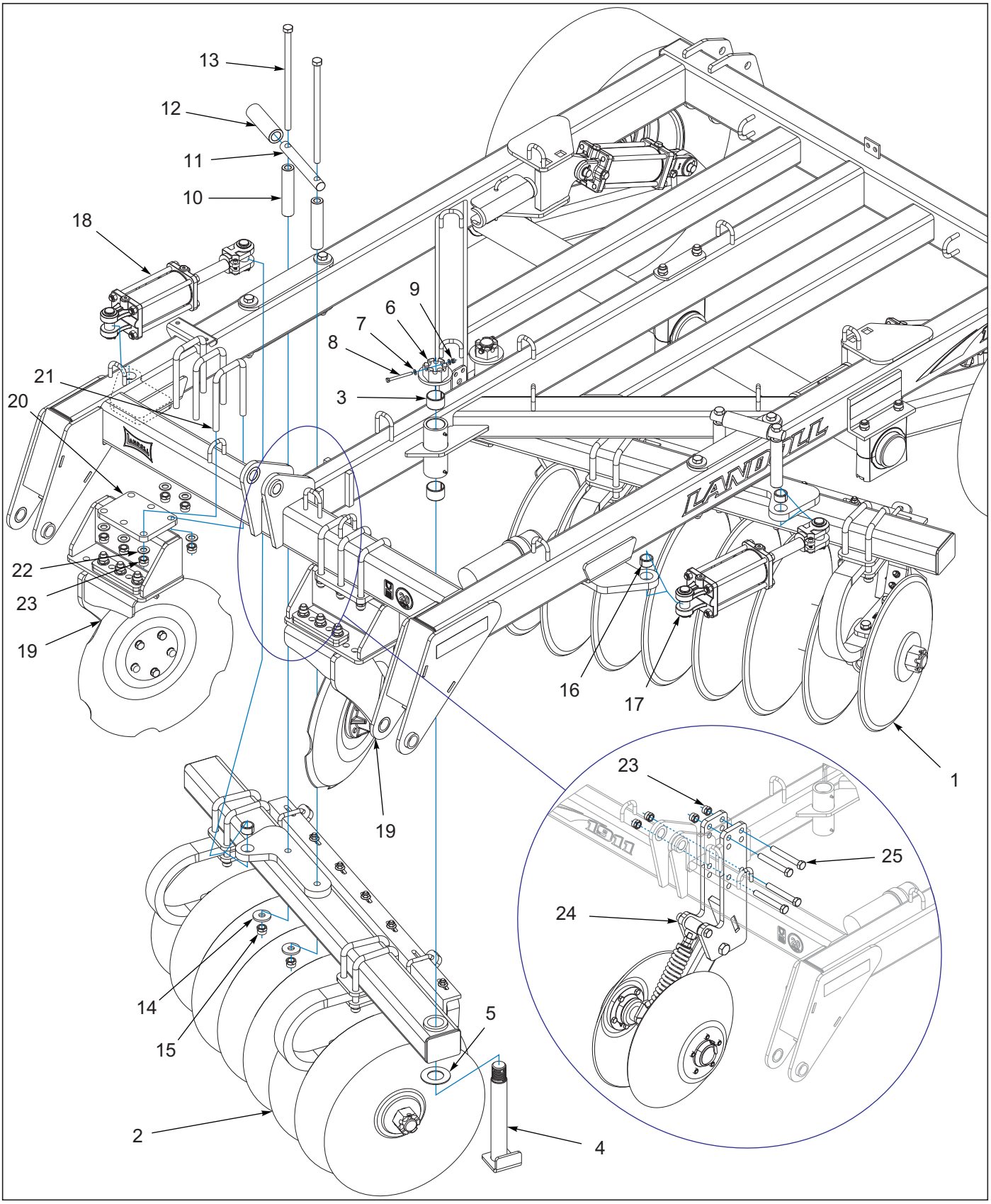


Figure 6-8: Disc Gang To Frame Assembly

Disc Gang To Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
1	247590	ASSY, 9' LH DISC GANG **(SEE PAGE 6-9)**	1
1	253006	ASSY, 11' LH DISC GANG **(SEE PAGE 6-9)**	1
2	247591	ASSY, 9' RH DISC GANG **(SEE PAGE 6-9)**	1
2	253007	ASSY, 11' RH DISC GANG **(SEE PAGE 6-9)**	1
3	130052	BUSHING,SPRING 2-1/4X2X1-1/2	4
4	252904	WLDMT, GANG PIVOT PIN	2
5	171070	WASHER, THRUST 2	2
6	207853	NUT, GANG PIVOT WLDMT	2
7	1-861-010032-08	WASHER,FLAT 5/16 N ZP	4
8	109874	SCREW,HEX CAP,5/16-18X3-1/4GR	2
9	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
10	252902	RD TUBE, GANGBAR SLIDE SPACER	4
11	253001	RD ROD, GANGBAR ROLLER	2
12	253002	RD TUBE, GANGBAR ROLLER	2
13	149193	SCREW HX CP 3/4-10UNCX15 GR5	4
14	200259	WASHER, 3/4 HEAVY - 2-1/4	4
15	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	4
16	2-150-010174	BUSHING,1-5/8X1-1/4X1	4
17	210867	CYLINDER, 4 X 6,REPHASE	1
18	210868	CYLINDER, 3-3/4 X 6,REPHASE	1
19	240935	ASSY, CENTER CUTOUT OPTION **(SEE PAGE 6-17)**	1
20	252987	WLDMT, CENTER BLADE MNT	2
21	1P042	U-BOLT, 3/4-10X4.75X8.375	6
22	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	12
23	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
24	247592	ASSY, CENTERING GUIDE WHEEL **(SEE PAGE 6-19)**	1
25	1-654-010061-16	SCREW 3/4-10UNCX5-1/2 HXCP G5	4

Disc Gang Gauge Assembly

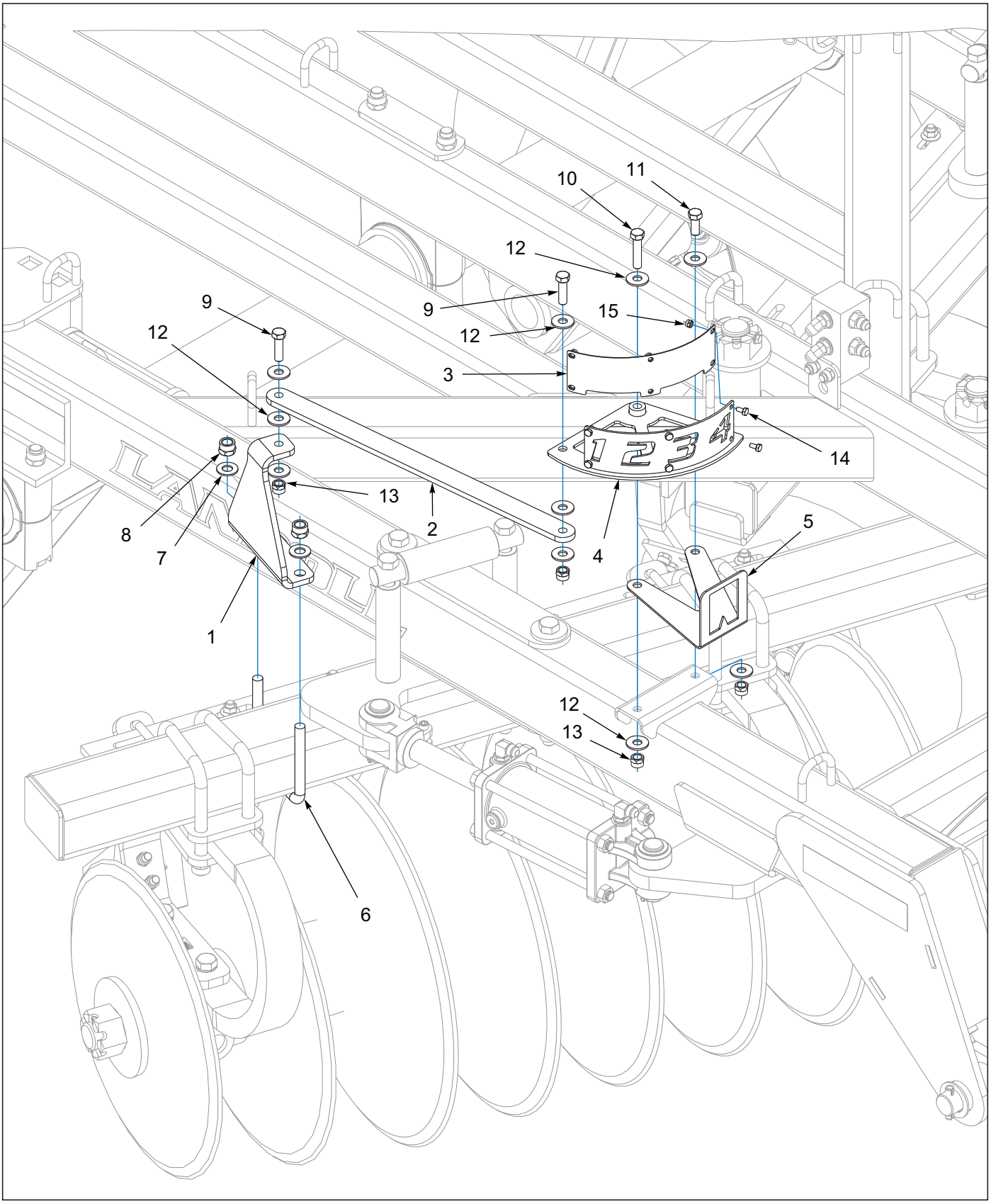


Figure 6-9: Disc Gang Gauge Assembly

Disc Gang Gauge Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
1	254271	PLATE, GAUGE LINKAGE MNT	1
2	254272	PLATE, GAUGE LINKAGE	1
3	254268	PLATE, GAUGE BACK	1
4	254265	WLDMT, GANG ANGLE GAUGE	1
5	254270	PLATE, GAUGE INDICATOR	1
6	176598	U-BOLT 5/8X5-11/16X5-1/2	1
7	1-861-010032-18	WASHER, FLAT 5/8 N ZP/CD	2
8	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	2
9	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
10	169690	SCREW HXCP1/2-13UNCX2-1/4 G5	1
11	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	1
12	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	10
13	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
14	104877	SCREW,HX CP,1/4-20UNCX1/2 GR5	6
15	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	6

Center Cutout Assembly

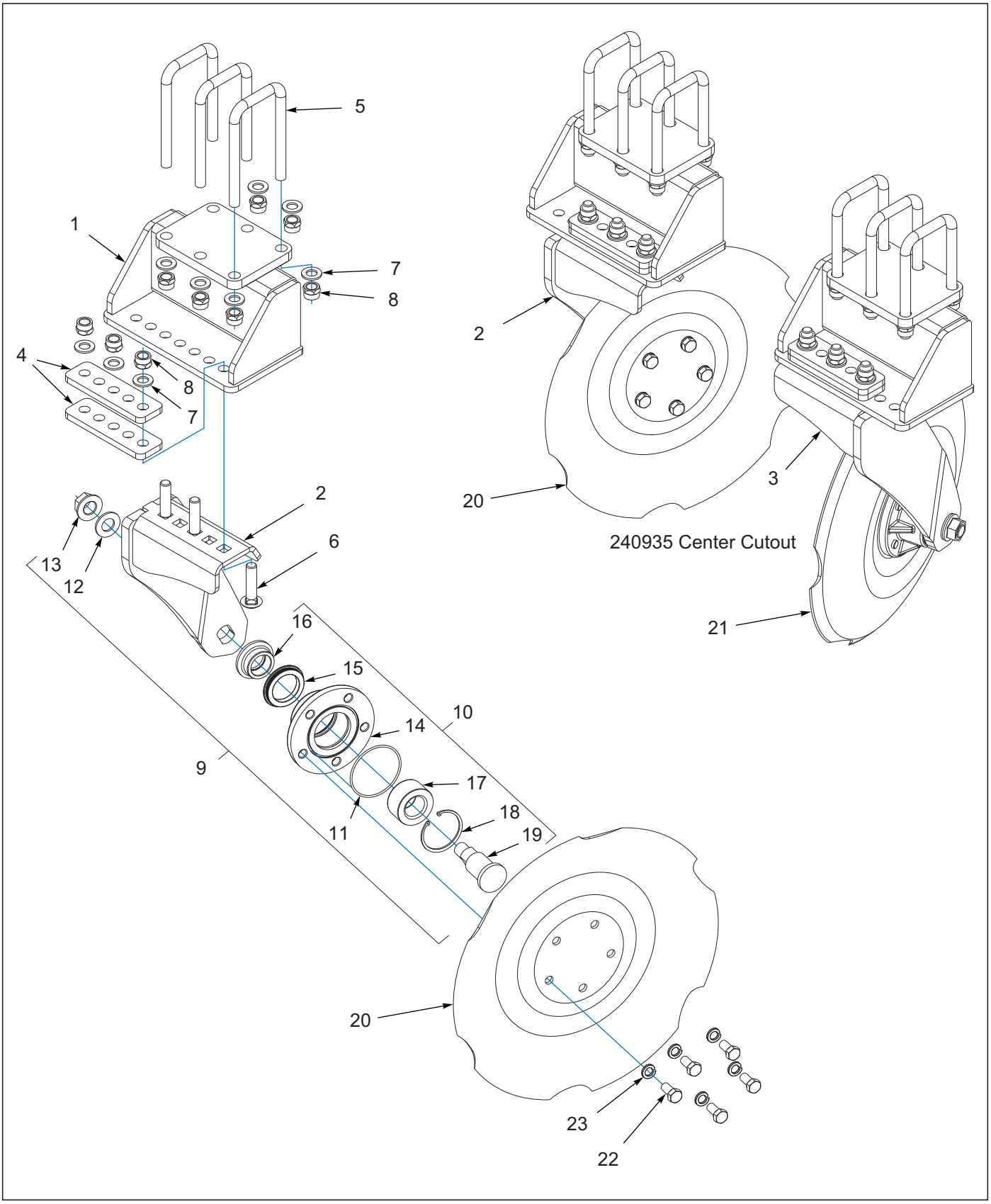


Figure 6-10: Center Cutout Assembly

Center Cutout Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
--	240935	ASSY, CENTER CUTOUT OPTION	1
1	252987	WLDMT, CENTER BLADE MNT	2
2	240904	WLDMT, RH DISC SHANK, 15 DEG	1
3	240903	WLDMT, LH DISC SHANK, 15 DEG	1
4	240918	PLATE, DISC SHANK SPACER	4
5	1P042	U-BOLT, 3/4-10X4.75X8.375	6
6	214690	SCREW, RDH,SQ NK,3/4-10X3-1/4	6
7	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	18
8	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	18
9	210880	KIT-HSL DISC HUB **(INCLUDES ITEMS 11-13)**	2
10	185742	HUB ASSY HSL DISC **(INCLUDES ITEMS 9, 14-19)**	2
11	202843	O-RING, 4" ID X 1/8" BUNA	2
12	622-3511-010	WASHER, FLAT 1" MIL-CARB SAE	2
13	174732	NUT, FLG HD, TOPLOCK, 1-8 UNC	2
14	185740	HUB-DISC, HSL CAST	2
15	185757	SEAL, MAINT FREE HUB HSL	2
16	188757	BUSHING-SPINDLE MOUNT	2
17	174526	BEARING, DOUBLE TAPER RLLR	2
18	174532	INTERNAL SNAP RING	2
19	174523	BOLT-SPINDLE, DISC, HSL	2
20	186561	DISC BLADE,LH 22X1/4 DIR NOTCH	1
21	186562	DISC BLADE,RH 22X1/4 DIR NOTCH	1
22	1-654-010059-02	SCREW,HEX CAP,5/8-11X1-1/4GR5	10
23	1-861-010034-15	WASHER,LKG,HLCL SPR,5/8	10

Centering Guide Wheel Assembly

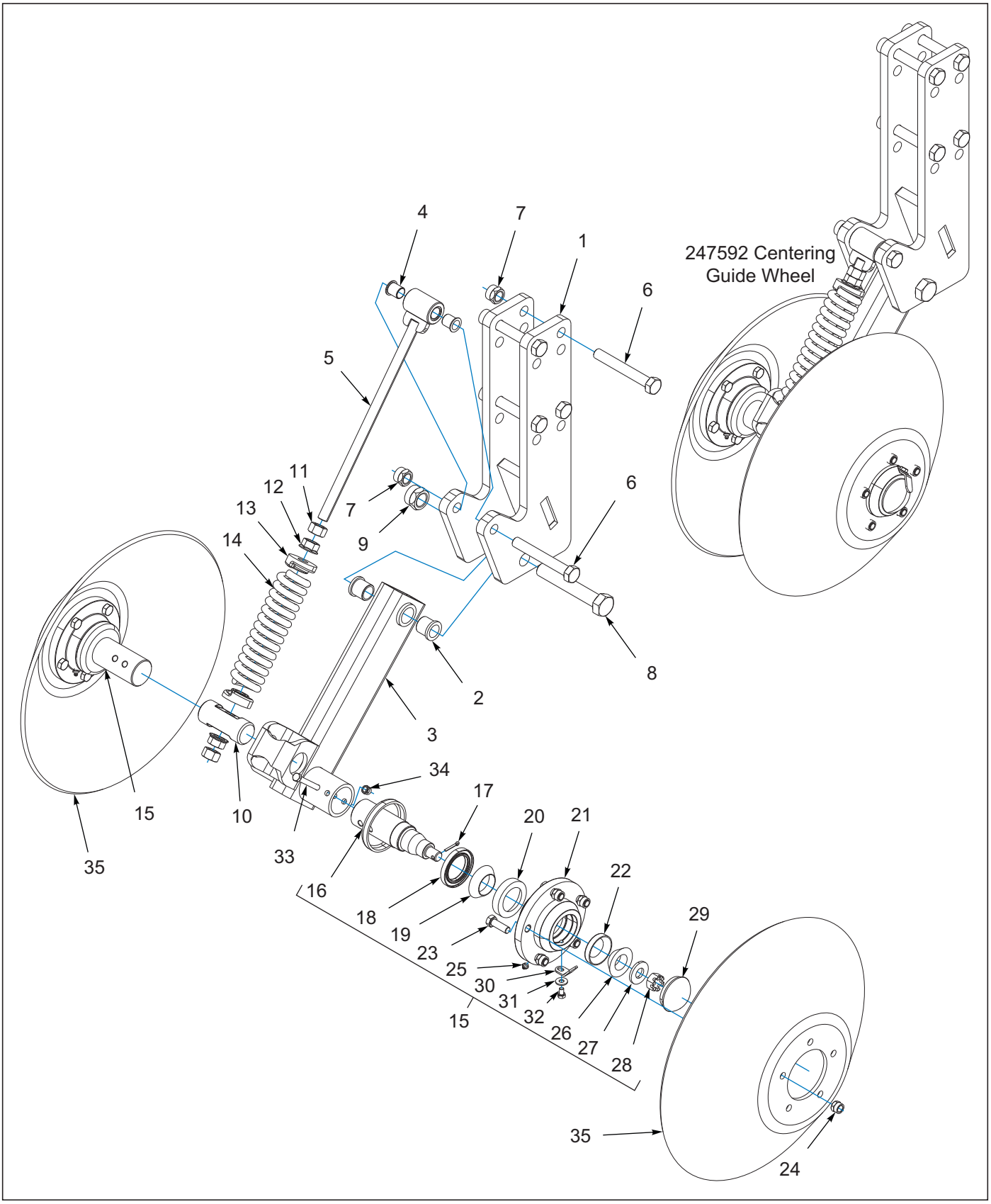


Figure 6-11: Centering Guide Wheel Assembly

Centering Guide Wheel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
--	247592	ASSY, CENTERING GUIDE WHEEL	1
1	247596	WLDMT, CENTERING GUIDE WHEEL	1
2	213956	BEARING FLANGE, 1 X 1-1/4L	2
3	252911	WLDMT, CENTERING GUIDE WHEEL	1
4	182224	BEARING- IGUS,FLNGD,7/8X3/4X1	2
5	182233	BOLT - EYE WELDMENT	1
6	1-654-010061-16	SCREW 3/4-10UNCX5-1/2 HXCP G5	5
7	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	5
8	1-654-010065-17	SCREW, HEX CAP, 1-8UNCX6, GR5	1
9	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	1
10	182220	PIVOT BOLT	1
11	1-512-010007-12	NUT, HEX 3/4-10 GR2 ZP	2
12	168226	NUT,HEX FLG 3/4-10, GR8, ZP	2
13	7J569	CAP (6D410)	2
14	4K076	COMPRESSION SPRING - OUTER	1
15	252916	ASSY, 5 BOLT HUB & SPINDLE **(INCLUDES ITEMS 16-32)**	2
16	252917	WLDMT, Ø2-1/8" SPINDLE	1
17	110-0344	5/32X1 COTTER PIN	1
18	9K454	GREASE SEAL	1
19	102498	BEARING CONE,OUTER, 1.625	1
20	102604	BEARING CUP, OUTER	1
21	9K453	HUB (USES 3K612W HUB BLANK)	1
22	1-076-010010	CUP INNER	1
23	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	10
24	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
25	1-298-010001-1	ZERK FITTING 1/4 SAE	2
26	1-076-010007	CONE INNER	2
27	3J397	WASHER 1-3/4ODX13/16IDX3/16THK	2
28	3/4-16HSN	HEX SLOTTED NUT	2
29	6D337	HUB CAP	2
30	3K613	CAP STRAP	2
31	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	2
32	1-654-010049-01	SCREW,HEX CAP,5/16-18UNCX1/2	2
33	1-654-010051-15	SCREW HXCP 3/8-16UNCX3-1/2 G5	2
34	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
35	247568	GUIDE WHEEL BLADE, Ø21"X5 HOLE	2

Disc Bearing Assembly

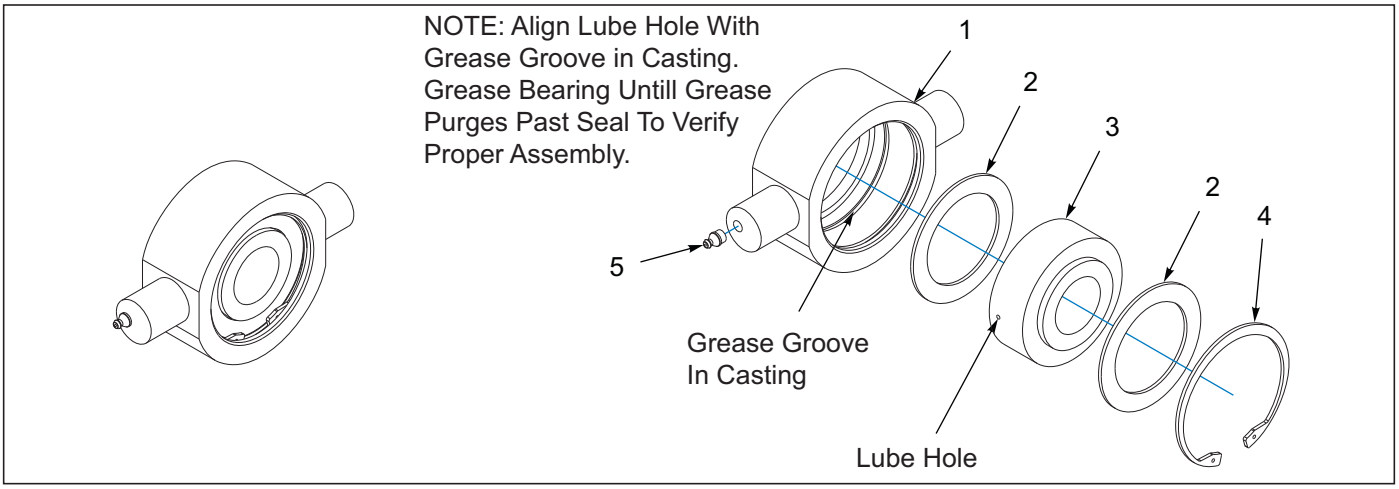


Figure 6-12: Disc Gang To Frame Assembly

Disc Bearing Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
--	140477	BEARING, DISC 1.775 ID ASSY **(INCLUDES ITEMS 1-5)**	
1	140475	CASTING, TRUNNION	1
2	140473	WASHER, BEARING	2
3	140464	BEARING, DISC 1.775 ID	1
4	140476	INTERNAL RETAINING RING	1
5	5000	ZERK FITTING 1/8NPT	1

Table provided for general use.

NOTES:

Hydraulic Assembly Lift

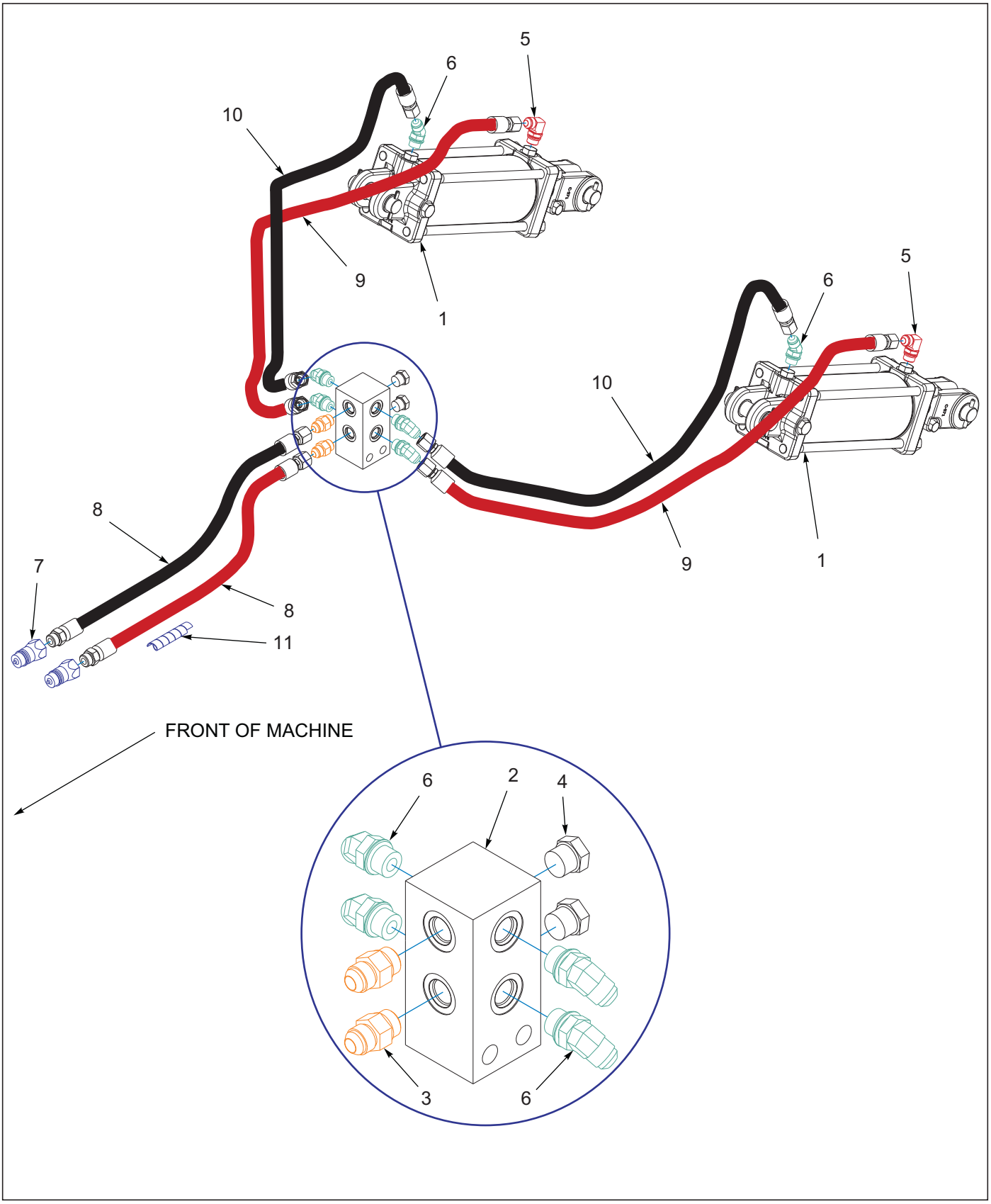


Figure 6-13: Hydraulic Assembly Lift

Hydraulic Assembly Lift

ITEM	PART NUMBER	DESCRIPTION	QTY
1	148387	CYLINDER HYDRAULIC 4 X 8 **(SEE PAGE 6-31)**	2
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
4	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
5	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	2
6	2061-8-8S	ADAPTER, 45, #8 O-RING-TUBE	6
7	141828	COUPLER,MALE 3/4-16 O-RING	2
8	156944	HOSE ASSY 3/8#8JICX#8 O-RG 184	2
9	195647	HOSE ASSY, 3/8X93 #8 JIC SWIV	2
10	71508988	HOSE ASSY 3/8 X 80	2
11	155528	HOSE WRAP, BLUE 1" ID X 8"	1

Hydraulic Assembly Hitch

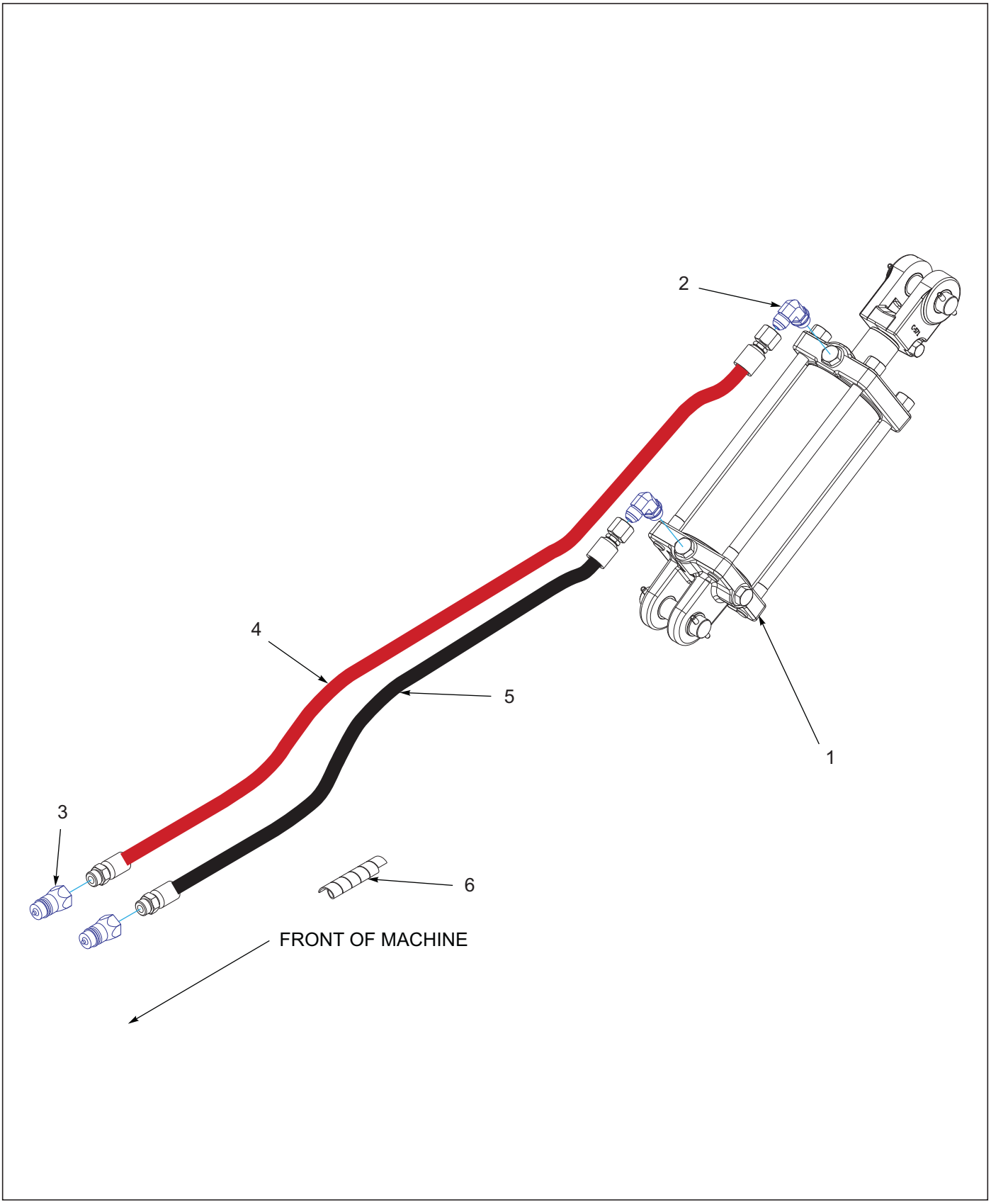


Figure 6-14: Hydraulic Assembly Hitch

Hydraulic Assembly Hitch

ITEM	PART NUMBER	DESCRIPTION	QTY
1	148387	CYLINDER HYDRAULIC 4 X 8 **(SEE PAGE 6-31)**	1
2	141826	ELBOW 90 1/16 RES	2
3	141828	COUPLER,MALE 3/4-16 O-RING	2
4	231838	HOSE ASSY,3/8X129 #8JIC X #8OR	1
5	231839	HOSE ASSY,3/8X117 #8JIC X #8OR	1
6	155530	HOSE WRAP, BLACK 1" ID X 8"	1

Hydraulic Assembly Disc Gangs

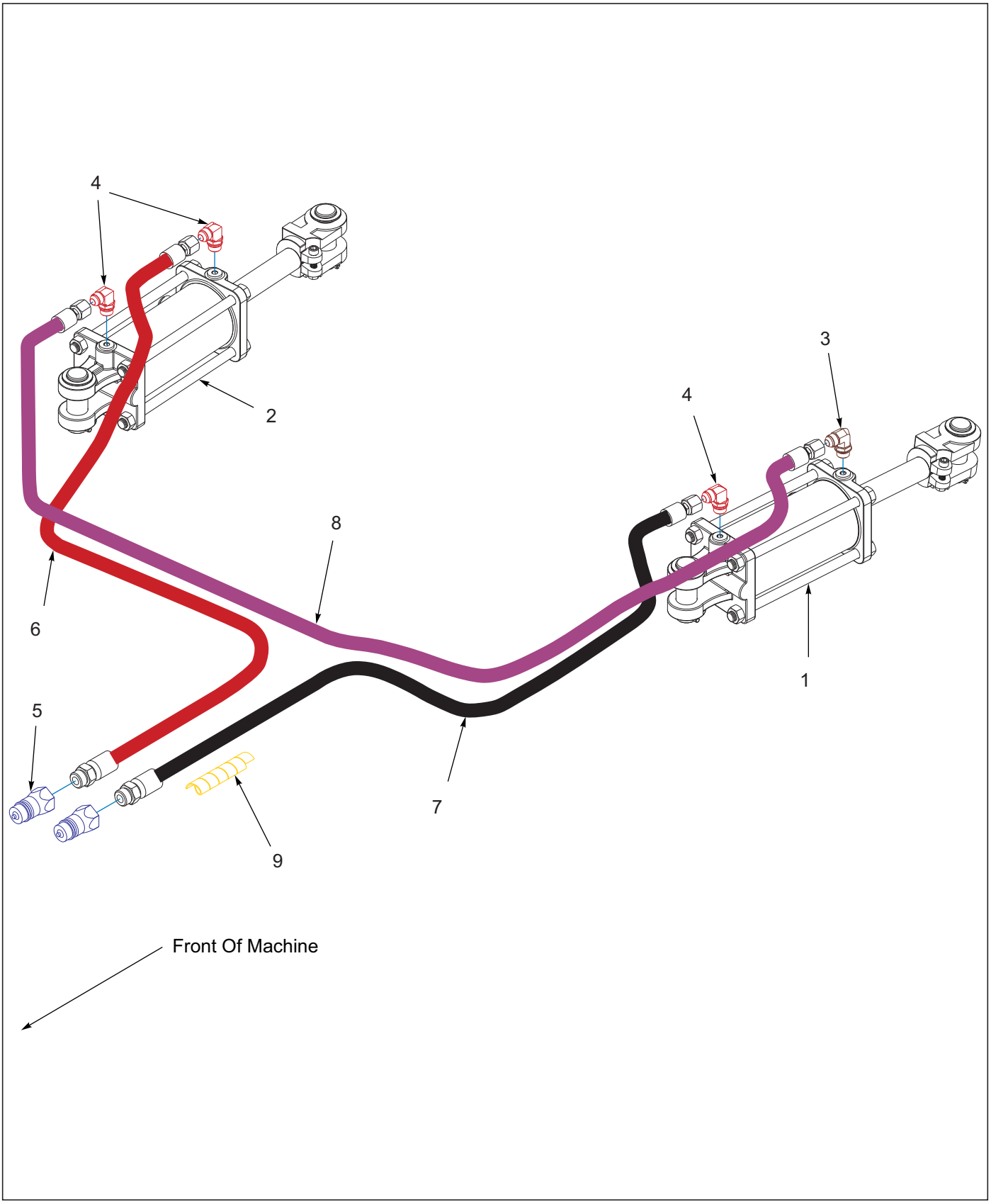


Figure 6-15: Hydraulic Assembly Disc Gangs

Hydraulic Assembly Disc Gangs

ITEM	PART NUMBER	DESCRIPTION	QTY
1	210867	CYLINDER, 4 X 6,REPHASE **(SEE PAGE 6-30)**	1
2	210868	CYLINDER, 3-3/4 X 6,REPHASE **(SEE PAGE 6-29)**	1
3	141826	ELBOW 90 1/16 RES	1
4	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	3
5	141828	COUPLER,MALE 3/4-16 O-RING	2
6	202902	HOSE ASSY,3/8X235,#8FJSX#8MOR	1
7	145130	HOSE ASSY 3/8X214 #8 JICX#80R	1
8	231852	HOSE ASSY, 3/8X122,-8FJX,-8FJX	1
9	155529	HOSE WRAP, YELLOW 1" ID X 8"	1

Cylinder Assembly Rephase 3-3/4 x 6

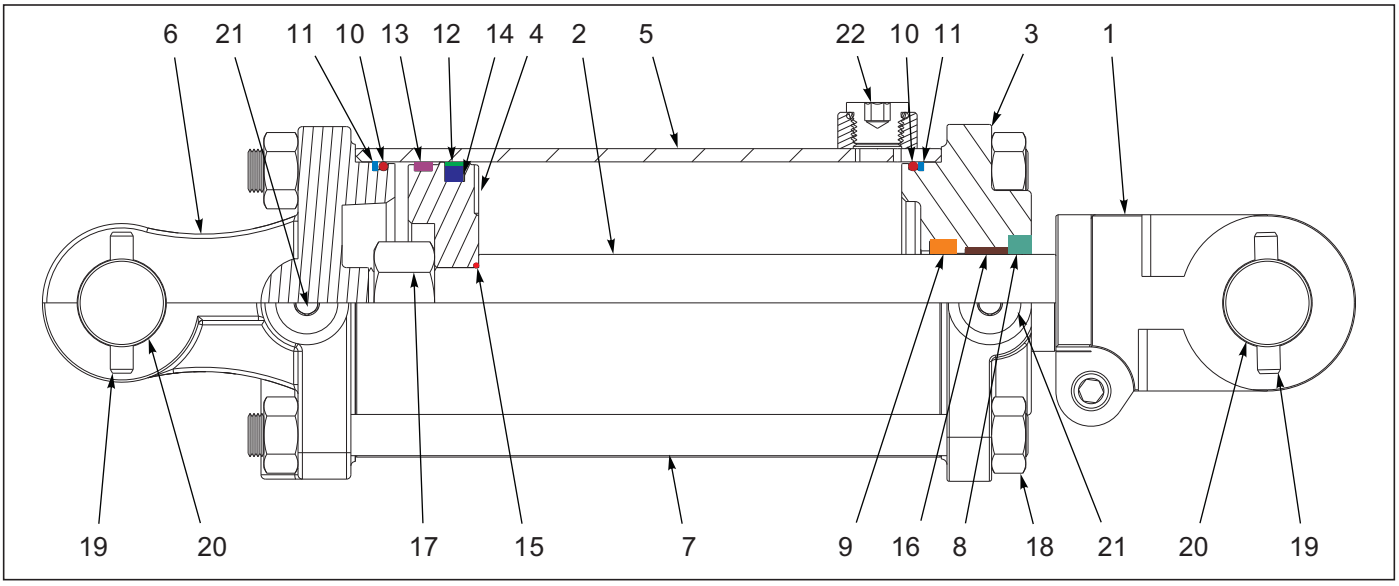


Figure 6-16: Cylinder Assembly Rephase 3-3/4 x 6

Cylinder Assembly Rephase 3-3/4 x 6

ITEM	PART NUMBER	DESCRIPTION	QTY
--	210868	CYLINDER, 3-3/4 X 6,REPHASE	
1	229559	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	-----	ROD	1
3	231802	GLAND, 3-3/4" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	237139	BUTT CLEVIS-ADI, 3-3/4" BORE	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226589	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	231803	PACKING KIT,3-3/4" BORE,MIDWAY **(NOT SHOWN) (INCLUDES ITEMS 8-15)**	

Cylinder Assembly Rephase 4 x 6

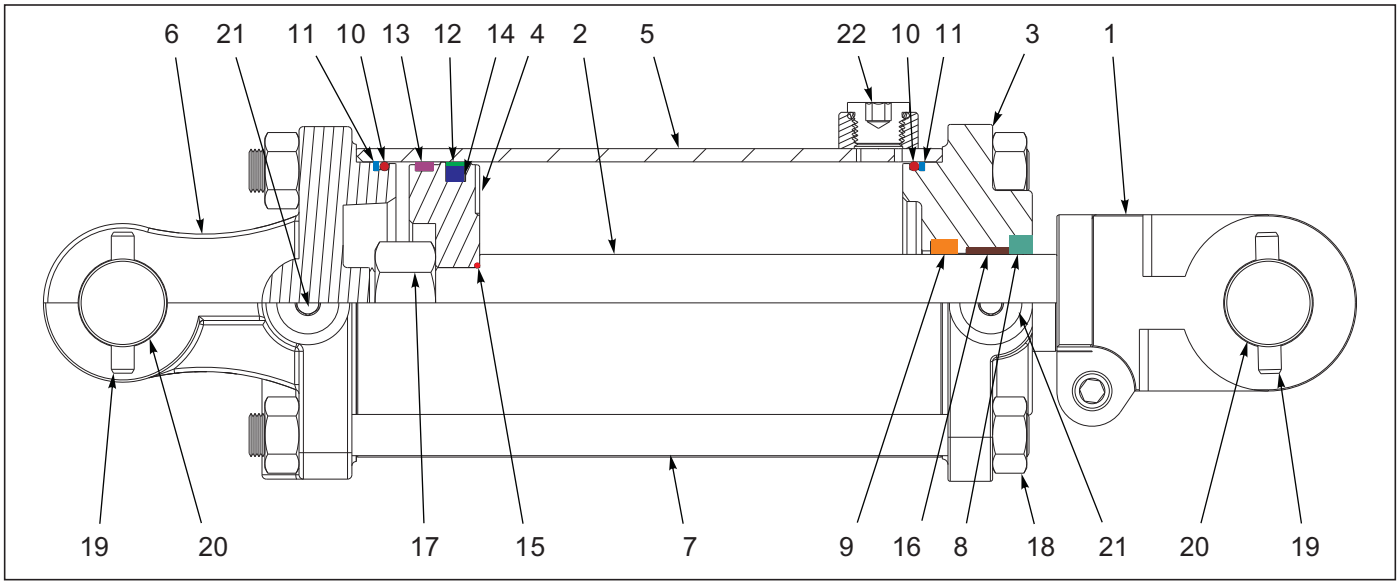


Figure 6-17: Cylinder Assembly Rephase 4 x 6

Cylinder Assembly Rephase 4 x 6

ITEM	PART NUMBER	DESCRIPTION	QTY
--	210867	CYLINDER, 4 X 6,REPHASE	
1	229559	ROD CLEVIS-ADI,1-1/4 PIN,MIDWA	1
2	-----	ROD	1
3	229560	GLAND, 4" BORE, MIDWAY	1
4	-----	PISTON	1
5	-----	TUBE	1
6	237138	BUTT CLEVIS-ADI,4" BORE,MIDWAY	1
7	-----	TIEROD	4
8	-----	WIPER	1
9	-----	U- CUP	1
10	-----	OD O- RING	2
11	-----	OD BACKUP	2
12	-----	GREEN	1
13	-----	WEAR RING	1
14	-----	LOADER	1
15	-----	O- RING	1
16	-----	BUSHING	1
17	-----	PISTON NUT	1
18	-----	TIEROD NUT	8
19	147072	PIN, SPRING SLOTTED 5/16 X 2	2
20	226589	CLEVIS PIN,1-1/4 HARDEN,MIDWAY	2
21	-----	HEX PLUG	3
22	-----	REPHASING PORT PLUG	1
23	229561	PACKING KIT, 4" BORE, MIDWAY **(NOT SHOWN) (INCLUDES ITEMS 8-15)**	

Cylinder Assembly 4 x 8

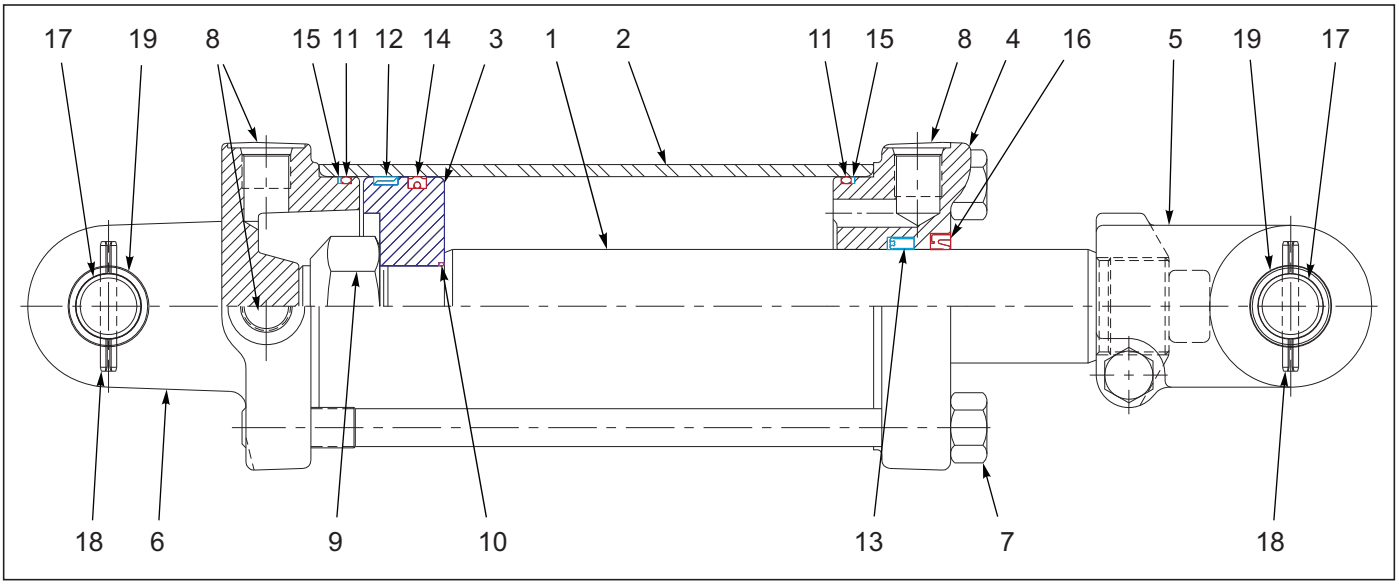


Figure 6-18: Cylinder Assembly 4 x 8

Cylinder Assembly 4 x 8

ITEM	PART NUMBER	DESCRIPTION	QTY
--	148387	CYLINDER, HYDRAULIC 4 X 8	
1	-----	PISTON ROD	1
2	-----	TUBE	1
3	-----	PISTON	1
4	147376	GLAND	1
5	149858	CLEVIS	1
6	142114	BUTT	1
7	-----	TIEROD ASSEMBLY	4
8	-----	PORT PLUG	3
9	-----	LOCK NUT	1
10	-----	O-RING	1
11	-----	O-RING	2
12	-----	BEARING RING	1
13	-----	U-CUP	1
14	-----	CROWN SEAL	1
15	-----	BU-WASHER	2
16	-----	WIPER	1
17	143994	CLEVIS PIN	2
18	111789	ROLL PIN	4
19	142112	BUSHING	4
20	152640	SEAL KIT **(NOT SHOWN) (INCLUDES ITEMS 10 - 16)**	

Cylinder Assembly 2-1/2 x 1-1/2

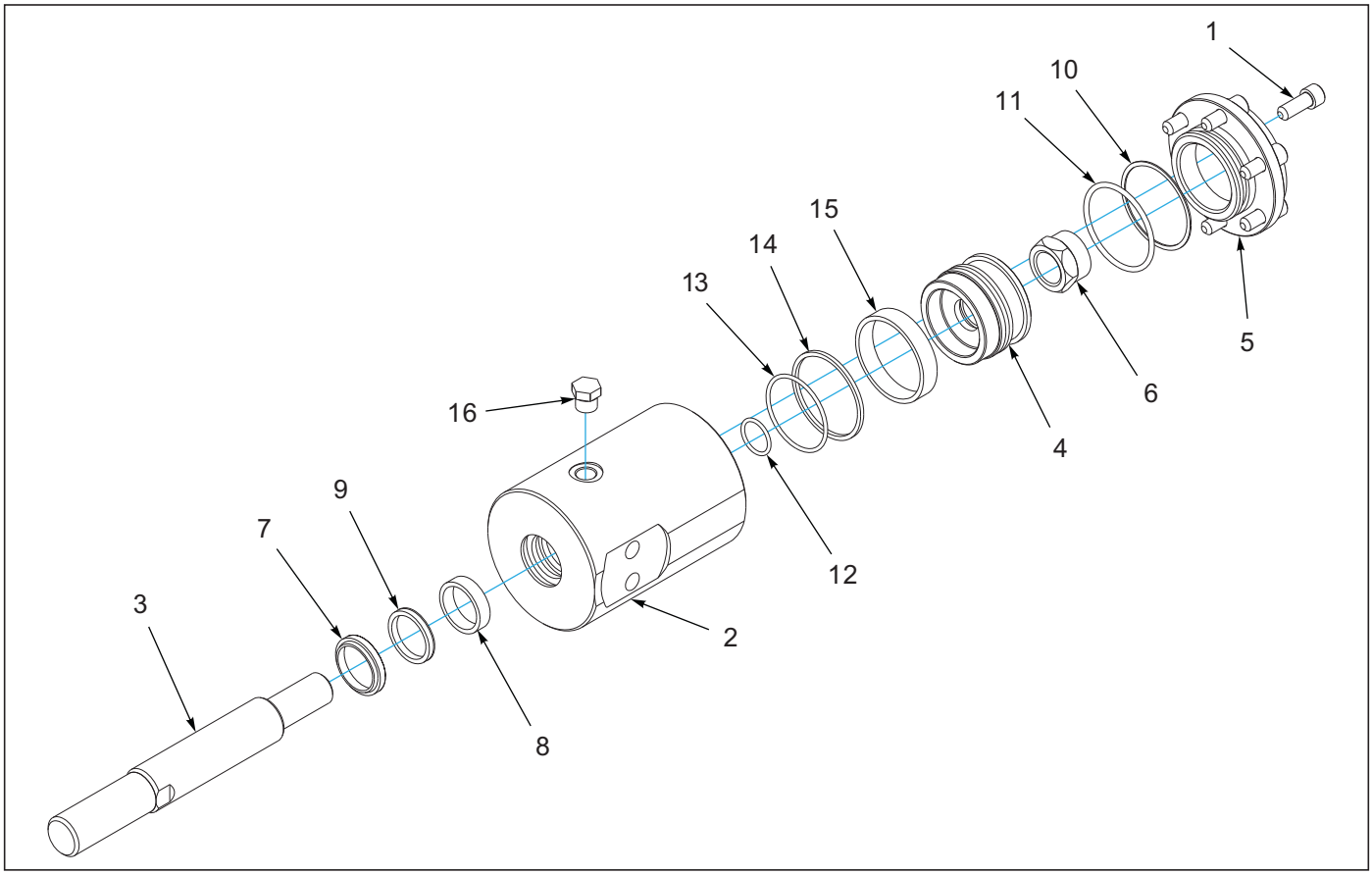


Figure 6-19: Cylinder Assembly 2-1/2 x 1-1/2

Cylinder Assembly 2-1/2 x 1-1/2

ITEM	PART NUMBER	DESCRIPTION	QTY
--	206598	CYL ASM 2-1/2X1-1/2 ST1-1/8THD	
1	-----	SCREW, HEX SOCKET 3/8-16 X 1	6
2	-----	CYLINDER, BARREL	1
3	206599	ROD 1-1/4 DIA	1
4	-----	PISTON, 2-1/2	1
5	171080	BASE CAP 2-1/2	1
6	-----	NUT, HEX LOCK 7/8-14 GRC	1
7	-----	WIPER, 1-1/4 ROD	1
8	-----	WEAR RING, 1-1/4 ROD	1
9	-----	U-CUP, 1-1/4 ROD	1
10	-----	BACK-UP RING, CAP	1
11	-----	O-RING, CAP	1
12	-----	O-RING, PISTON	1
13	-----	O-RING, PISTON	1
14	-----	SEAL, 2-1/2 PISTON	1
15	-----	WEAR RING, 2-1/2 PISTON	1
16	-----	PLUG, O-RING 9/16-18	2
17	171081	SEAL KIT, 2-1/2" BORE CYL **(NOT SHOWN)(INCLUDES ITEMS 7 - 15)**	

Cylinder Assembly 2-1/2 x 2-1/2

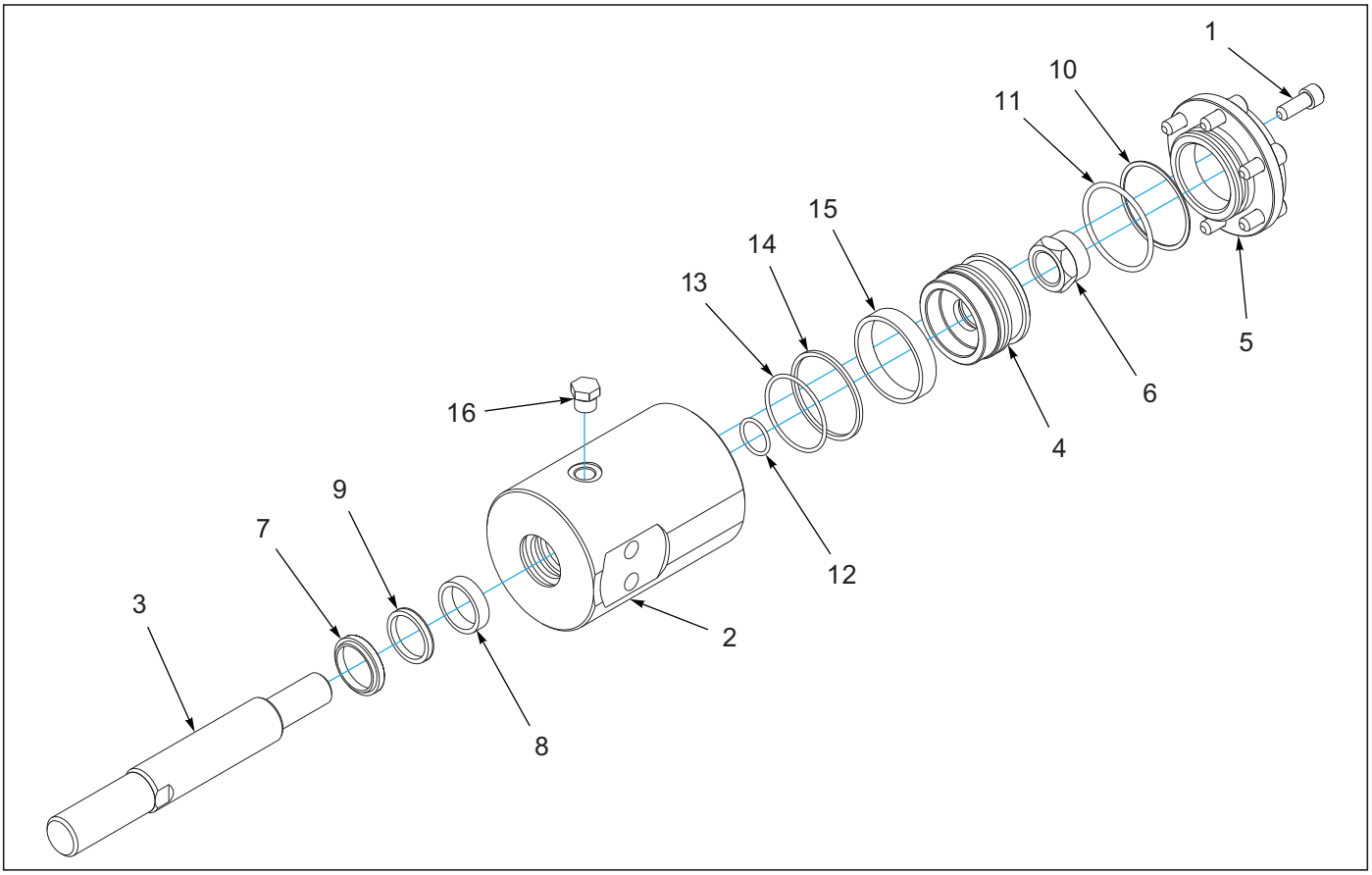


Figure 6-20: Cylinder Assembly 2-1/2 x 2-1/2

Cylinder Assembly 2-1/2 x 2-1/2

ITEM	PART NUMBER	DESCRIPTION	QTY
--	206671	CYL ASM 2-1/2X2-1/2ST1-1/8THDS	
1	-----	SCREW, HEX SOCKET 3/8-16 X 1	6
2	-----	CYLINDER, BARREL 2-1/2” STROKE	1
3	206673	ROD 1-1/4 DIA	1
4	-----	PISTON, 2-1/2 BORE	1
5	171080	2-1/2" BASE CAP	1
6	-----	NUT, HEX SLFLKG 7/8-14 GRC	1
7	-----	WIPER, 1-1/4 ROD	1
8	-----	WEAR RING, 1-1/4 ROD	1
9	-----	U-CUP, 1-1/4 ROD	1
10	-----	BACK-UP RING, CAP	1
11	-----	O-RING, CAP	1
12	-----	O-RING, PISTON	1
13	-----	O-RING, PISTON	1
14	-----	SEAL, 2-1/2 PISTON	1
15	-----	WEAR RING, 2-1/2 PISTON	1
16	-----	PLUG, O-RING 9/16-18	2
17	171081	SEAL KIT, 2-1/2" BORE CYL **(NOT SHOWN) (INCL. ITEMS 7 - 15)**	

Electrical Assembly W/LED Lights

7-PIN CONN.	4-PIN TOWER	CIRCUIT	WIRE COLOR
1	D	GROUND	WHITE
2	–	WORK LAMPS	BLACK
3	B	LEFT FLASHING & TURN	YELLOW
4	–	STOP LAMPS	RED
5	A	RIGHT FLASHING & TURN	GREEN
6	C	TAIL LAMPS	BROWN
7	–	SWITCHED POWER (12 V)	BLUE

MAIN WARNING LIGHT HARNESS - WIRING CHART
(NOTE: The Color Of The Wire Jacket Does Not Necessarily Match The Color Of The 7 Pin Connector)

	RIGHT AMBER	RIGHT RED		LEFT RED	LEFT AMBER
	2-PIN TOWER	3-PIN TOWER	6-PIN SHROUD	3-PIN TOWER	2-PIN TOWER
BLACK LEFT TURN			A	C	
WHITE GROUND	A	A	B	A	A
BROWN TAIL LIGHT		B	C	B	
YELLOW LEFT TURN			D		B
GREEN RIGHT TURN	B		E		
RED RIGHT TURN		C	F		

REAR WARNING LIGHT HARNESS - WIRING CHART

Figure 6-21: Electrical Assembly W/LED Lights (1 of 2)

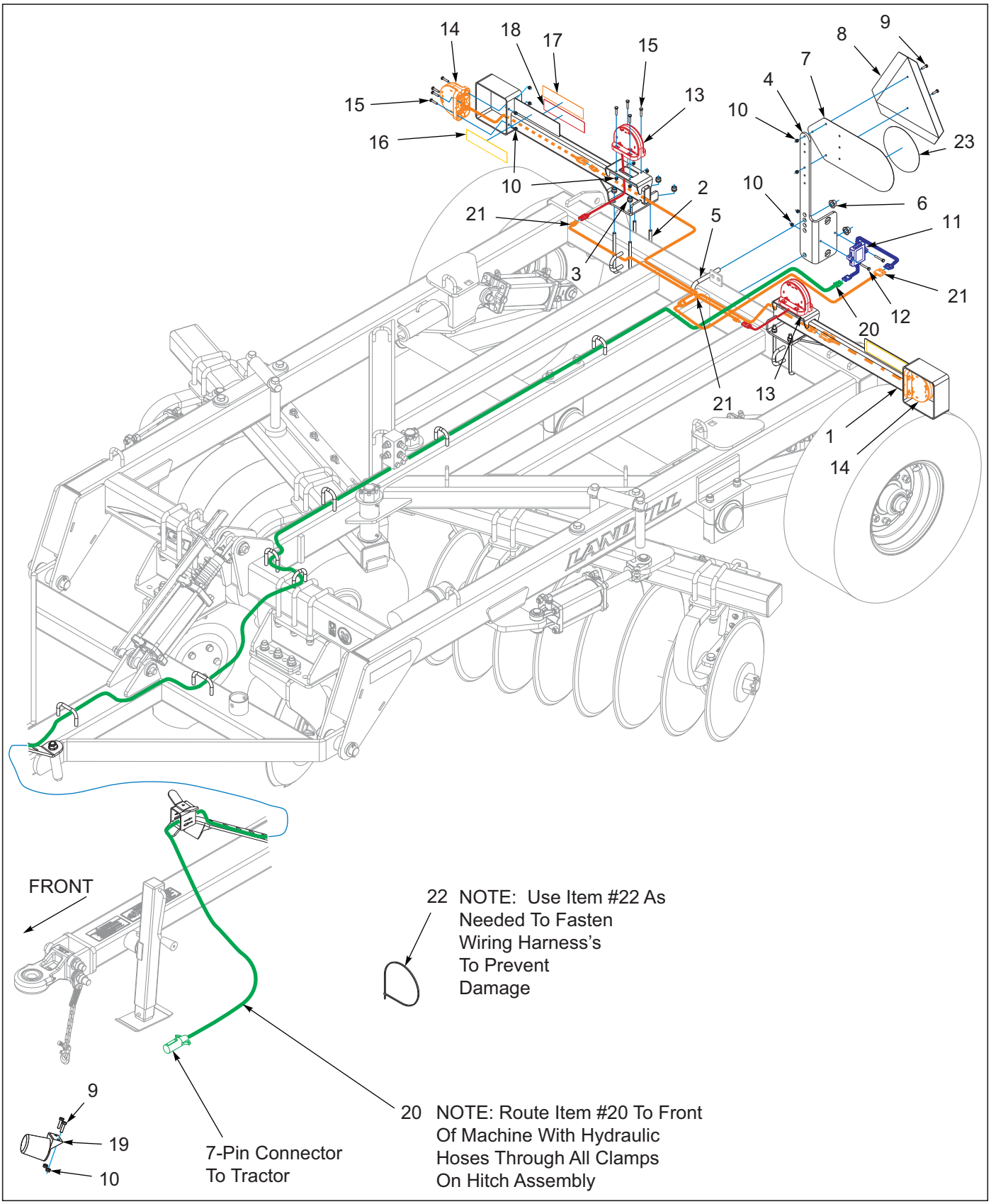


Figure 6-22: Electrical Assembly W/LED Lights (2 of 2)

Electrical Assembly W/LED Lights

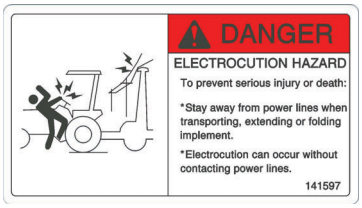
ITEM	PART NUMBER	DESCRIPTION	QTY
1	231774	BRACKET WLDMT, WARNING LIGHTS	2
2	3J561	U-BOLT 1/2-13 X 7-1/2 X 4-1/2	4
3	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
4	231776	BRACKET, SMV MOUNT	1
5	2-102-010032	U BOLT CENTER SHANK MT.	1
6	100827	NUT,FLG HD,SERRATED,5/8-11	2
7	224590	MOUNT, SIS DECAL	1
8	70260977	SMV EMBLEM	1
9	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
10	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	22
11	174437	MODULE, AG FLASHER CONTROL	1
12	1-654-010047-09	SCREW,HX CP,1/4-20UNCX1-3/4G5	2
13	174435	LAMP, AG RED SINGLE LED	2
14	174436	LAMP, AG AMBER SINGLE LED	2
15	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	16
16	528934	REFLECTOR - YELLOW	2
17	528938	STRIPE, ORANGE	2
18	528933	REFLECTOR - RED	2
19	2-368-010287	HARNESS, STOR-A-WAY	1
20	175152	HARNESS 7 PIN/4 PIN WP	1
21	200348	REAR HARNESS, WARN LIGHT, 4'	1
22	105874	TIE,STRAP PLSTC 21.5-24X.301	15
23	224589	DECAL, SIS 20 MILE/H	1

Table provided for general use.

NOTES:

Decals

1



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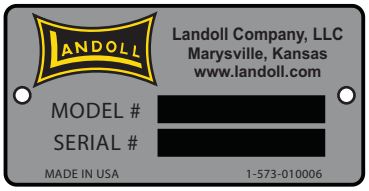

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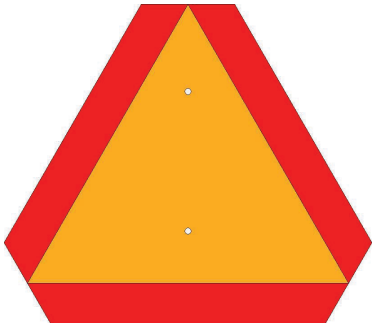

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17

Figure 6-23: Decals (1 of 2)

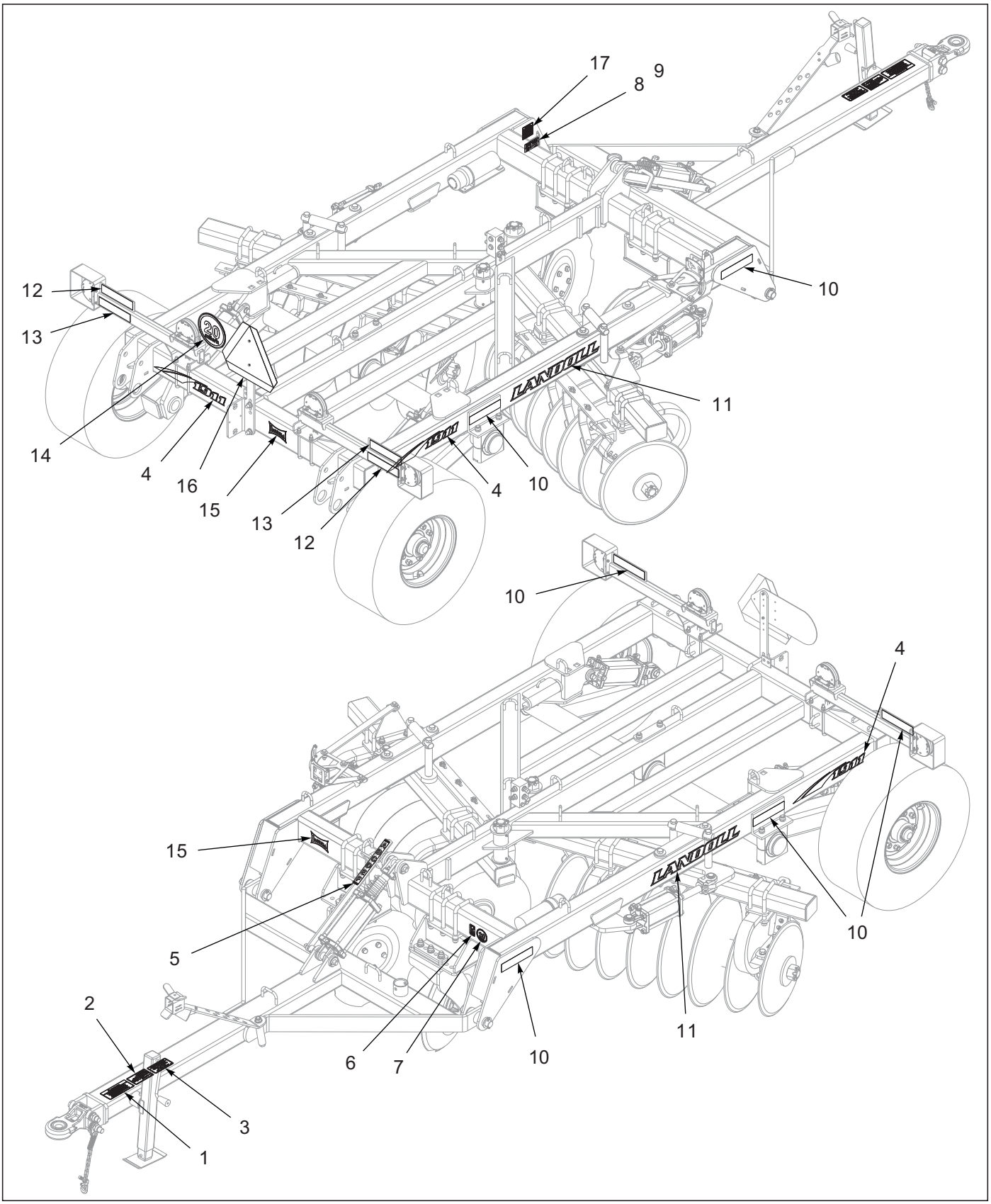


Figure 6-24: Decals (2 of 2)

Decals

ITEM	PART NUMBER	DESCRIPTION	QTY
1	8-573-010084	DECAL WARNING BEFORE OPERATG	1
2	141597	DECAL, DANGER ELECTROCUTION	1
3	234430	DECAL, HOSE IDENTIFICATION	1
4	253000	DECAL, MODEL 1911	3
5	234429	DECAL, LEVEL INDICATOR, 1911	1
6	2-573-010198	DECAL, MEMBER FEMA	1
7	144193	DECAL, SIS 20 MPH	1
8	1-573-010006	PLACARD, NAME	1
9	156010	RIVET, BLIND .156X1/2 GRIP	2
10	528934	REFLECTOR - YELLOW	6
11	141260	DECAL, LANDOLL	2
12	528938	STRIPE, ORANGE	2
13	528933	REFLECTOR - RED	2
14	224589	DECAL, SIS 20 MILE/H	1
15	141259	DECAL, LANDOLL, YELLOW	2
16	70260977	SMV EMBLEM	1
17	237137	DECAL, QR CODE 1911 SERIES	1

Conditioner Reel Assembly

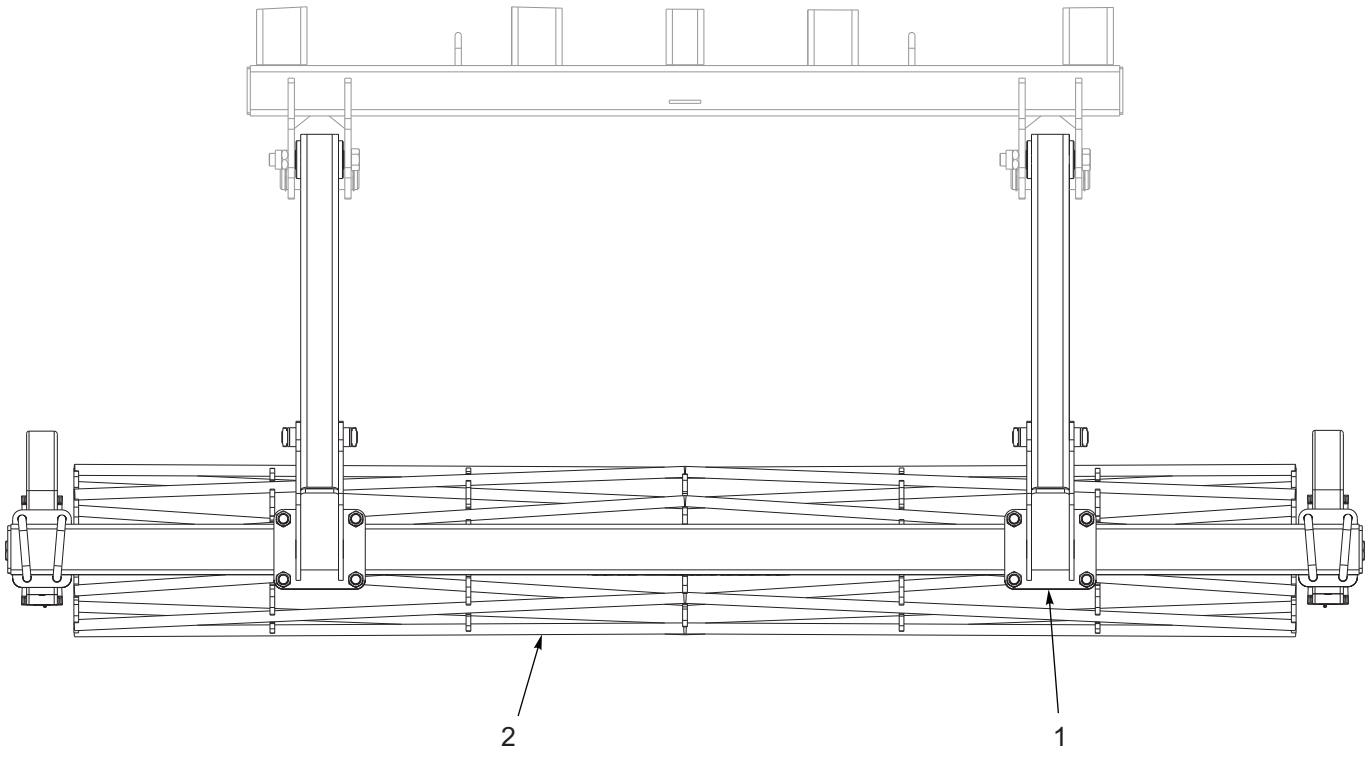


Figure 6-25: Conditioner Reel Assembly

Conditioner Reel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	231782	CONDITIONER REEL ASSY, 1911-9	*	
--	231831	CONDITIONER REEL ASSY, 1911-11		*
1	-----	REEL ARM ASSEMBLY-SPRING **(SEE PAGE 6-43)**	2	2
1	-----	REEL ARM ASSEMBLY-HYDRAULIC **(SEE PAGE 6-45)**	2	2
2	155545	COND-REEL/GANGBAR ASSY 97" **(SEE PAGE 6-47)**	1	--
2	156125	COND-REEL/GANGBAR ASSY 129" **(SEE PAGE 6-47)**	--	1

Conditioner Reel Assembly Single

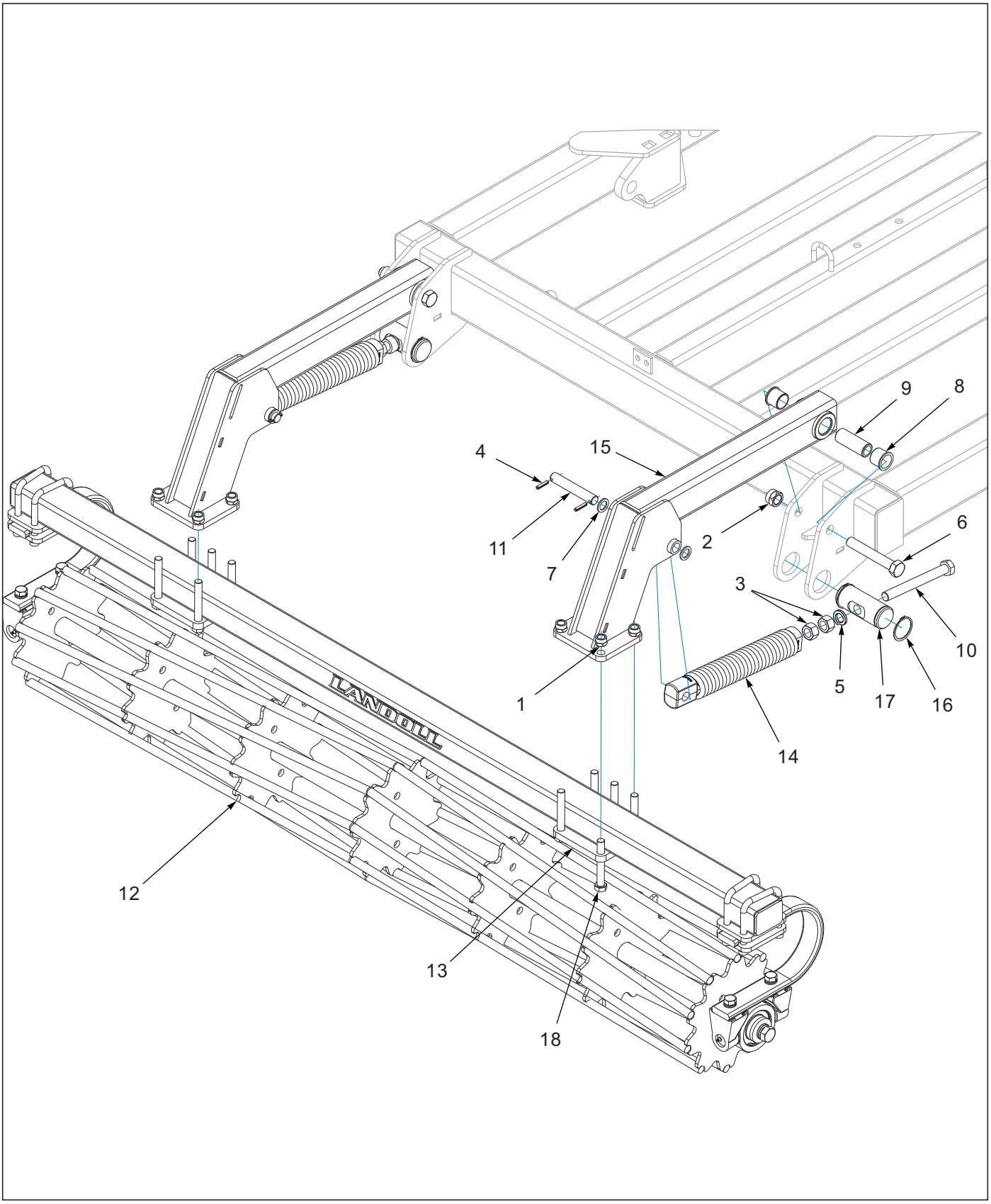


Figure 6-26: Conditioner Reel Assembly Single

Conditioner Reel Assembly Single

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	231782	CONDITIONER REEL ASSY, 1911-9	*	
--	231831	CONDITIONER REEL ASSY, 1911-11		*
1	1-512-010002-16	NUT,3/4-16 HEX,SLFLKG, GRC	10	10
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2	2
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	4	4
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	4	4
5	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	2	2
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	2	2
7	117957	MACHINERY BUSHING,ZINC PLATED	4	4
8	140599	BEARING, FLANGE 1-1/122	4	4
9	152209	BUSHING, PIVOT 1-1/2	2	2
10	152210	BOLT, ADJ, 1 X 9	2	2
11	154392	PIN,PIVOT	2	2
12	155545	COND-REEL/GANGBAR ASSY 97" **(SEE PAGE 6-47)**	1	--
12	156125	COND-REEL/GANGBAR ASSY 129" **(SEE PAGE 6-47)**	--	1
13	154748P	PLATE, GANGBAR MOUNT BLUE	2	2
14	158795	SPRING ASSY, 17"	2	2
15	158847	ARM WLDMT REEL	2	2
16	158896	SNAP RING, 2-1/2 SHAFT	4	4
17	158897	PIN, ADJUSTMENT	2	2
18	1-654-010087-16	SCREW,HEX CAP,3/4-16 UNF X5.50 GR8	10	10

Conditioner Reel Assembly Single Hydraulic

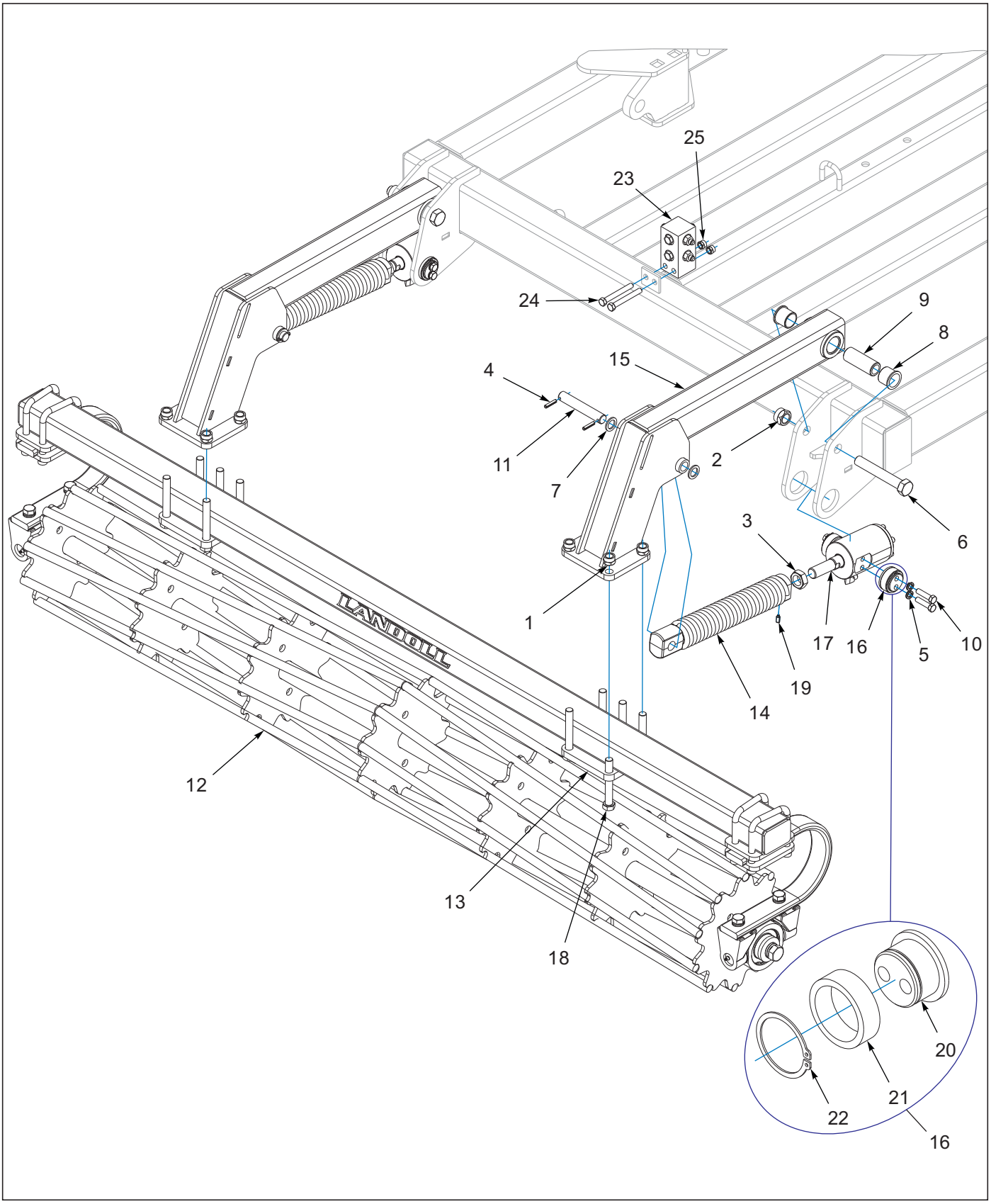


Figure 6-27: Conditioner Reel Assembly Single Hydraulic

Conditioner Reel Assembly Single Hydraulic

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	231783	HYD COND REEL ASSY, 1911-9	*	
--	231832	HYD COND REEL ASSY, 1911-11		*
1	1-512-010002-16	NUT,3/4-16 UNF HEX,SLFLKG, GRC	10	10
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2	2
3	1-511-010002-11	NUT,HEX JAM,1-1/8-12 UNF,GR2	2	2
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	4	4
5	1-861-010034-13	WASHER, LKG HLCL SPRG 1/2IN	8	8
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	2	2
7	117957	MACHINERY BUSHING,ZINC PLATED	4	4
8	140599	BEARING, FLANGE 1-1/2	4	4
9	152209	BUSHING, PIVOT 1-1/2	2	2
10	1-654-010055-05	SCREW,HEX CAP,1/2-13X2,GR5	8	8
11	154392	PIN,PIVOT	2	2
12	155545	COND-REEL/GANGBAR ASSY 97" **(SEE PAGE 6-47)**	1	--
13	156125	COND-REEL/GANGBAR ASSY 129" **(SEE PAGE 6-47)**	--	1
13	154748P	PLATE, GANGBAR MOUNT BLUE	2	2
14	206652	SPRING ASSY 17" 1-1/8 THD	2	2
15	158847	ARM WLDMT REEL	2	2
16	198320	ASSY, TRUNION MOUNT 1-1/4"	4	4
17	206598	CYL ASM 2-1/2X1-1/2 ST1-1/8THD **(SEE PAGE 6-32)**	2	2
18	1-654-010087-16	SCREW,HEX CAP,3/4-16 UNF X5.50 GR8	10	10
19	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	2	2
20	191924	TRUNION, CYLINDER	4	4
21	191925	TRUNION, BEARING	4	4
22	188530	SNAP RING, 2 SHAFT	4	4
23	141594	MANIFOLD, HYDRAULIC 16 PORT	1	1
24	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2	2
25	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2	2

Conditioner Reel/Gangbar Assembly Single

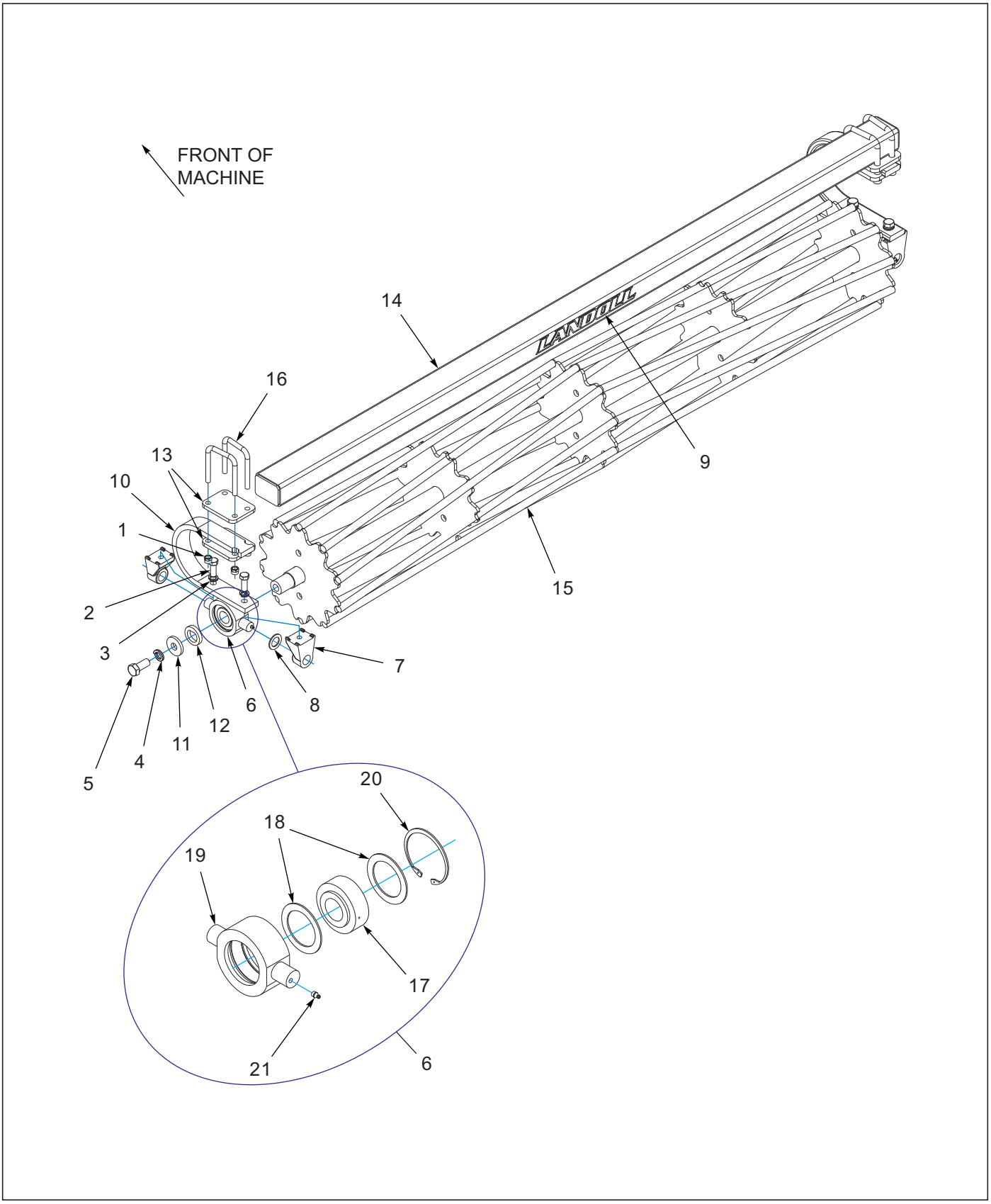
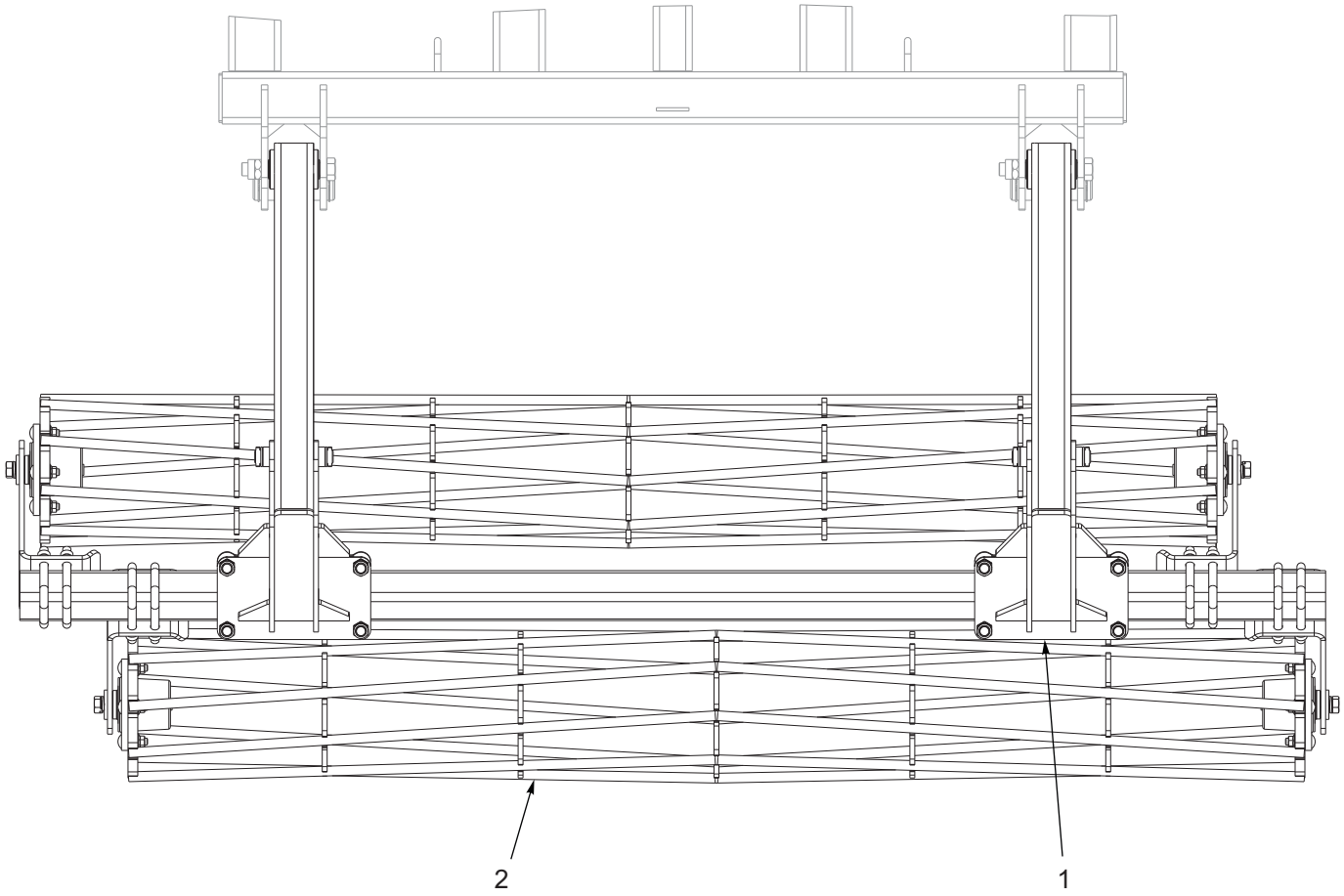


Figure 6-28: Conditioner Reel/Gangbar Assembly Single

Conditioner Reel/Gangbar Assembly Single

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	155545	COND-REEL/GANGBAR ASSY 97"	*	
--	156125	COND-REEL/GANGBAR ASSY 129"		*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8	8
2	1-654-010032-05	SCREW HEX CAP 3/4-10X2 GR8	4	4
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4
4	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	2	2
5	137943	SCREW,HEX CAP 1-8UNCX2-1/4GR5	2	2
6	140477	BEARING, DISC 1.775 ID ASSY102 **(INCLUDES ITEMS 17-21)**	2	2
7	140479	MOUNT, TRUNNION	4	4
8	140480	WASHER, TRUNNION	2	2
9	148337	ATTACHMENT DECAL, LANDOLL	1	1
10	153716	SHANK, STRAIGHT 3/4 X 2-1/2	2	2
11	154185	WASHER 3/8 THICK 1" ID	2	2
12	154186	WASHER FLAT TOP	2	2
13	154393	PLATE SHANK MOUNT	4	4
14	155544	GANGBAR WLDMT 107" REEL 97"	1	--
14	155594	GANGBAR, 139" REEL 129" WLDMT	--	1
15	155520	CONDITIONER REEL WLDMT 97"	1	--
15	156124	CONDITIONER REEL WLDMT 129"	--	1
16	6-102-010009	U-BOLT RIGID GA WHEEL	4	4
17	140464	BEARING, DISC 1.775 ID	1	1
18	140473	WASHER, BEARING	2	2
19	140475	CASTING, TRUNNION	1	1
20	140476	INTERNAL RETAINING RING	1	1
21	5000	ZERK FITTING 1/8NPT	1	1

Reel Assembly Round Double



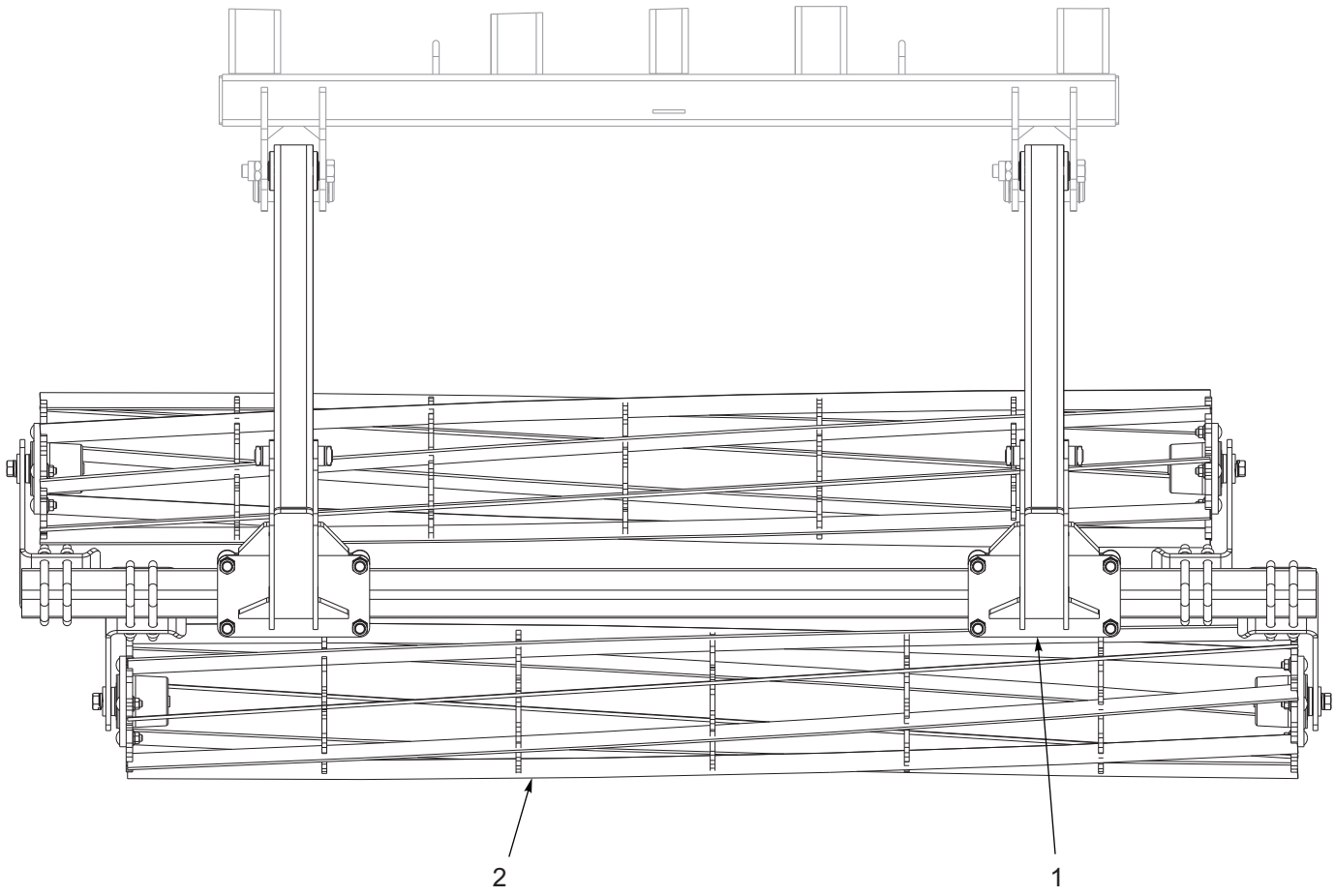
Double Round
Reel Assembly

Figure 6-29: Reel Assembly Round Double

Reel Assembly Round Double

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	231784	DOUBLE ROUND REEL ASSY, 1911-9	*	
--	231833	DOUBLE ROUND REEL ASSY,1911-11		*
1	-----	REEL ARM ASSEMBLY-SPRING **(SEE PAGE 6-53)**	1	1
1	-----	REEL ARM ASSEMBLY-HYDRAULIC **(SEE PAGE 6-55)**	1	1
2	204417	DOUBLE REEL ASSY, 90/90 **(SEE PAGE 6-57)**	1	--
2	204419	DOUBLE REEL ASSY, 120/120 **(SEE PAGE 6-57)**	--	1

Reel Assembly Flat Double



Double Flat
Reel Assembly

Figure 6-30: Reel Assembly Flat Double

Reel Assembly Flat Double

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	231786	DOUBLE FLAT REEL ASSY, 1911-9	*	
--	231835	DOUBLE FLAT REEL ASSY,1911-11		*
1	-----	REEL ARM ASSEMBLY-SPRING **(SEE PAGE 6-53)**	2	2
1	-----	REEL ARM ASSEMBLY-HYDRAULIC **(SEE PAGE 6-55)**	2	2
2	209630	DOUBLE FLAT REEL ASSY 90/90 **(SEE PAGE 6-59)**	1	--
2	209632	DOUBLE FLAT REEL ASSY 120/120 **(SEE PAGE 6-59)**	--	1

Reel Assembly Spring Double

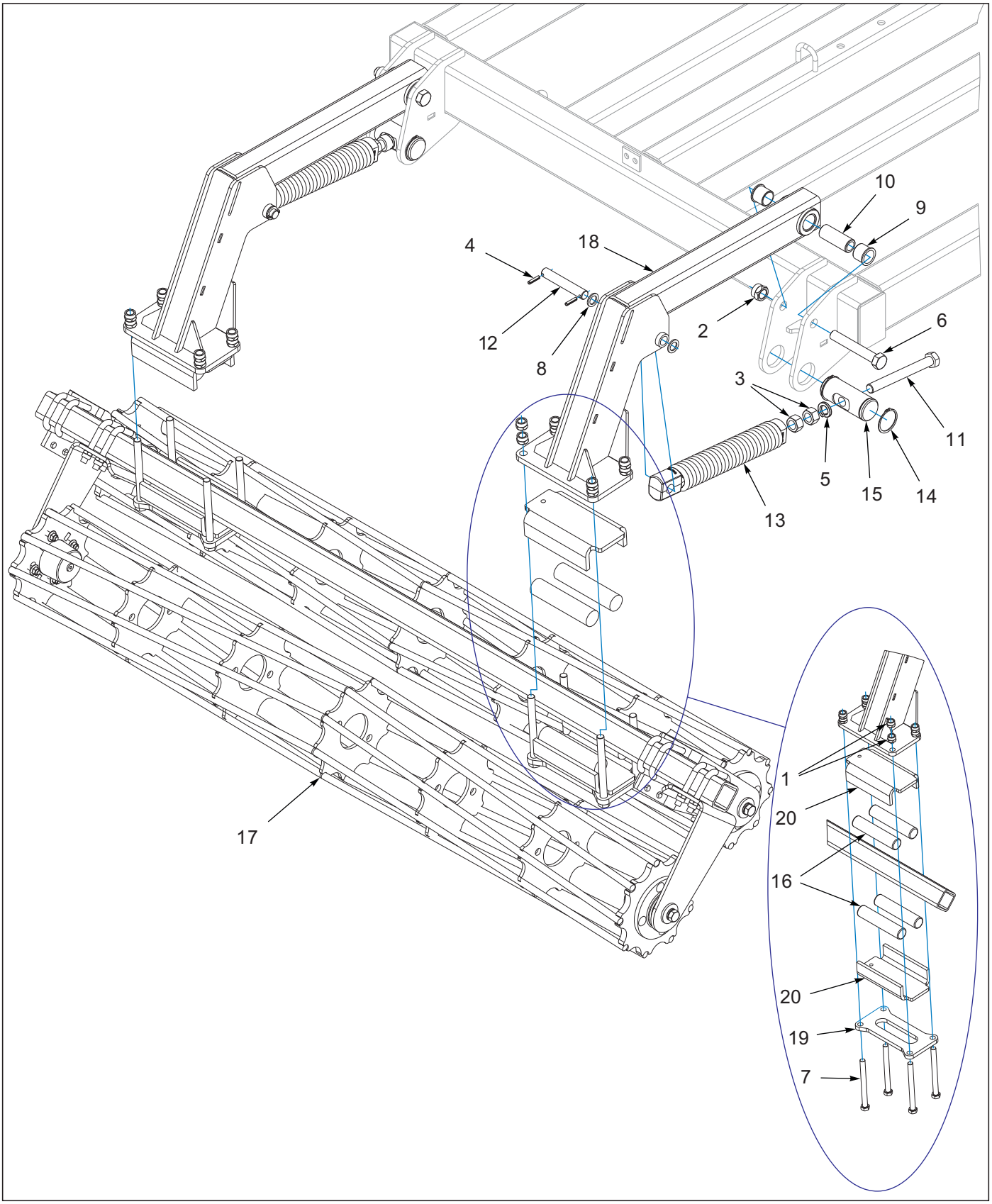


Figure 6-31: Reel Assembly Spring Double

Reel Assembly Spring Double

ITEM	PART NUMBER	DESCRIPTION	QTY
--	231784	DOUBLE ROUND REEL ASSY, 1911-9	
--	231786	DOUBLE FLAT REEL ASSY, 1911-9	
--	231833	DOUBLE ROUND REEL ASSY,1911-11	
--	231835	DOUBLE FLAT REEL ASSY,1911-11	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
3	1-512-010007-14	NUT, HEX 1-8 GR2 ZP	4
4	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	4
5	1-861-010034-21	WASHER, LKG HEL SPRG 1IN	2
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	2
7	107491	SCREW,HEX CAP,3/4-10X8-1/2,GR8	8
8	117957	MACHINERY BUSHING,ZINC PLATED	4
9	140599	BEARING, FLANGE 1-1/2	4
10	152209	BUSHING, PIVOT 1-1/2	2
11	152210	BOLT, ADJ, 1 X 9	2
12	154392	PIN,PIVOT	2
13	158795	SPRING ASSY, 17"	2
14	158896	SNAP RING, 2-1/2 SHAFT	4
15	158897	PIN, ADJUSTMENT	2
16	203525	SPRING-TORSION, RUBBER, 1-3/4	8
17	----	DOUBLE REEL ASSY **(SEE PAGE 6-57 ROUND OR SEE PAGE 6-59 FLAT)**	1
18	204505	ARM WLDMT DOUBLE REEL	2
19	204510	PLATE GANGBAR MOUNT	2
20	204511	TUBE, CLAMP	4

Reel Assembly Hydraulic Double

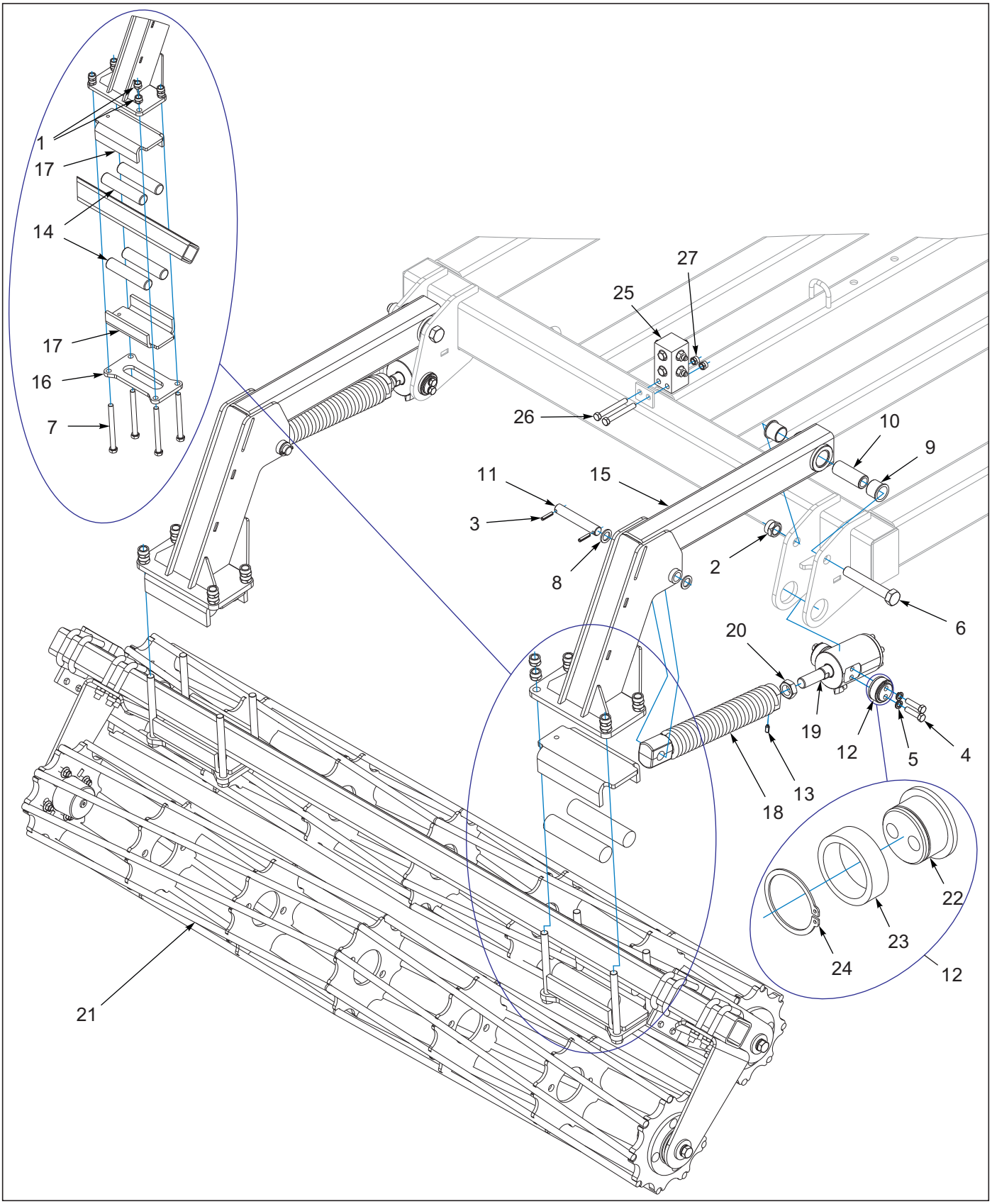


Figure 6-32: Reel Assembly Hydraulic Double

Reel Assembly Hydraulic Double

ITEM	PART NUMBER	DESCRIPTION	QTY
--	231785	HYD DBL RD REEL ASSY, 1911-9	
--	231787	HYD DBL FLAT REEL ASSY, 1911-9	
--	231834	HYD DBL RD REEL ASSY,1911-11	
--	231836	HYD DBL FLAT REEL ASSY,1911-11	
1	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	16
2	1-512-010005-19	NUT 1-8 HEX SLF-LOCKING GRB	2
3	1-647-010004236	SPRING PIN,SLOTTED 5/16X1-1/2	4
4	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	8
5	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	8
6	100829	SCREW,HEX CAP,1-8X6-1/2,GR5	2
7	107491	SCREW HX CP 3/4-10X8-1/2 GR8	8
8	117957	MACHINERY BUSHING,ZINC PLATED	4
9	140599	BEARING, FLANGE 1-1/2	4
10	152209	BUSHING, PIVOT 1-1/2	2
11	154392	PIN,PIVOT	2
12	198320	ASSY, TRUNION MOUNT 1-1/4"	4
13	1P444	SET SCREW, 3/8-16 X 3/4 NYLON	2
14	203525	SPRING-TORSION, RUBBER, 1-3/4	8
15	204505	ARM WLDMT DOUBLE REEL	2
16	204510	PLATE GANGBAR MOUNT	2
17	204511	TUBE, CLAMP	4
18	206652	SPRING ASSY 17" 1-1/8 THD	2
19	206671	CYL ASM 2-1/2X2-1/2ST1-1/8THDS **(SEE PAGE 6-33)**	2
20	206675	NUT, 1-1/8 -12 UNF, Z/P GR 2	2
21	----	DOUBLE REEL ASSY **(SEE PAGE 6-57 ROUND OR SEE PAGE 6-59 FLAT)**	2
22	191924	TRUNION, CYLINDER	4
23	191925	TRUNION, BEARING	4
24	188530	SNAP RING, 2 SHAFT	4
25	141594	MANIFOLD, HYDRAULIC 16 PORT	1
26	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
27	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2

Reel Assembly Double

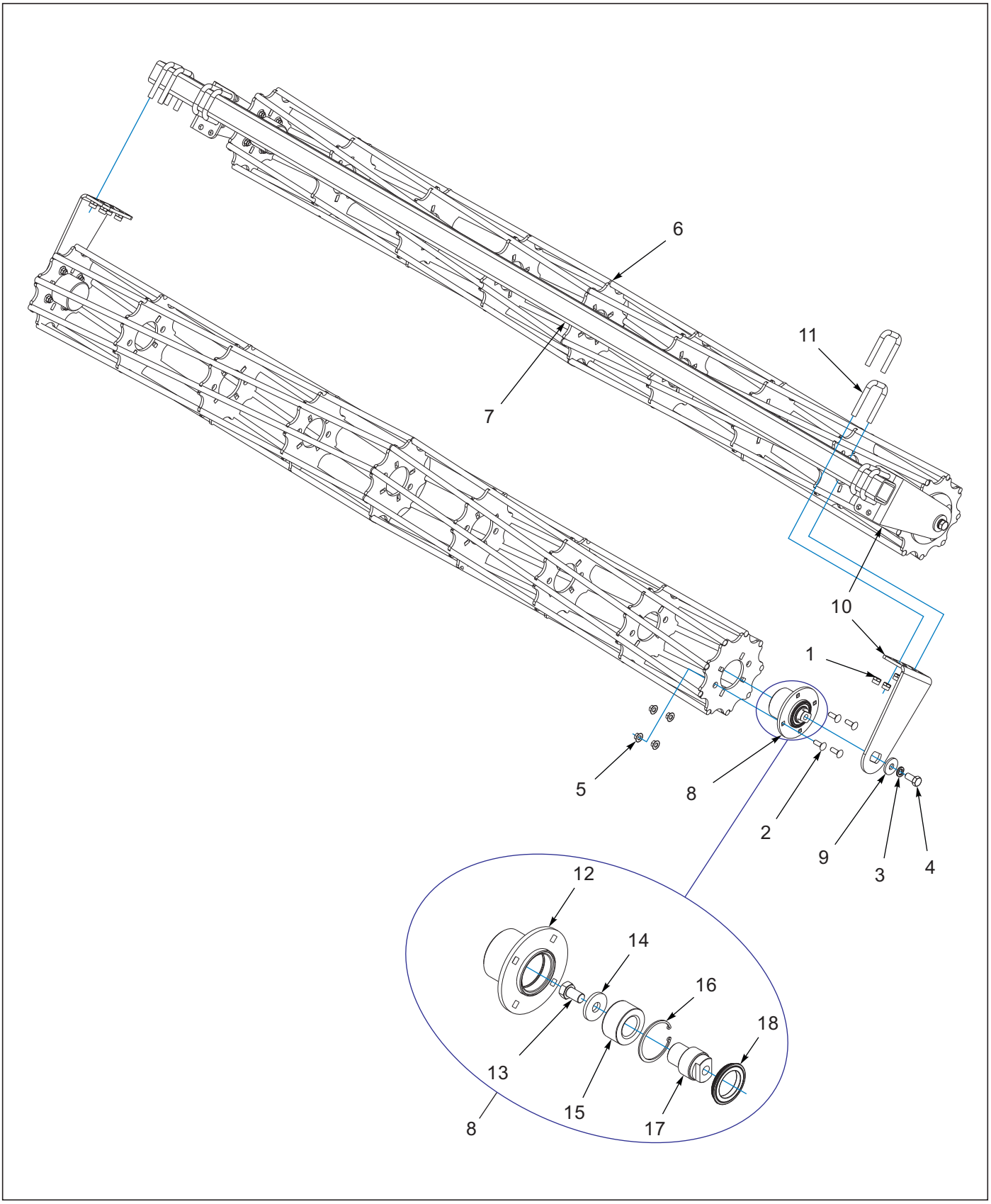


Figure 6-33: Reel Assembly Double

Reel Assembly Double

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	204417	DOUBLE REEL ASSY, 90/90	*	
--	204419	DOUBLE REEL ASSY, 120/120		*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16
2	1-654-010070-03	SCREW RDHD SQNK1/2-13X1-1/2	16	16
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4
4	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	4	4
5	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16
6	225125	REEL WLDMT, 12 DIA X 90" RD	2	--
6	225127	REEL WLDMT, 12 DIA X 120" RD	--	2
7	190956	GANG BAR, DOUBLE REEL 100 L	1	--
7	190958	GANG BAR, DOUBLE REEL 130L	--	1
8	200222	HUB ASSY REEL	4	4
9	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4
10	204400	BEARING MOUNT, REEL	4	4
11	8-102-010012	U BOLT	8	8
12	200221	HUB WLDMT REEL	1	1
13	129263	SCREW HEX CAP 3/4-10 X 1-1/4	1	1
14	200259	WASHER, 3/4 HEAVY - 2-1/4	1	1
15	174526	BEARING, DOUBLE TAPER RLLR	1	1
16	174532	INTERNAL SNAP RING	1	1
17	200218	SPINDLE REEL BEARING	1	1
18	185757	SEAL, MAINT FREE HUB HSL	1	1

Reel Assembly Flat Double

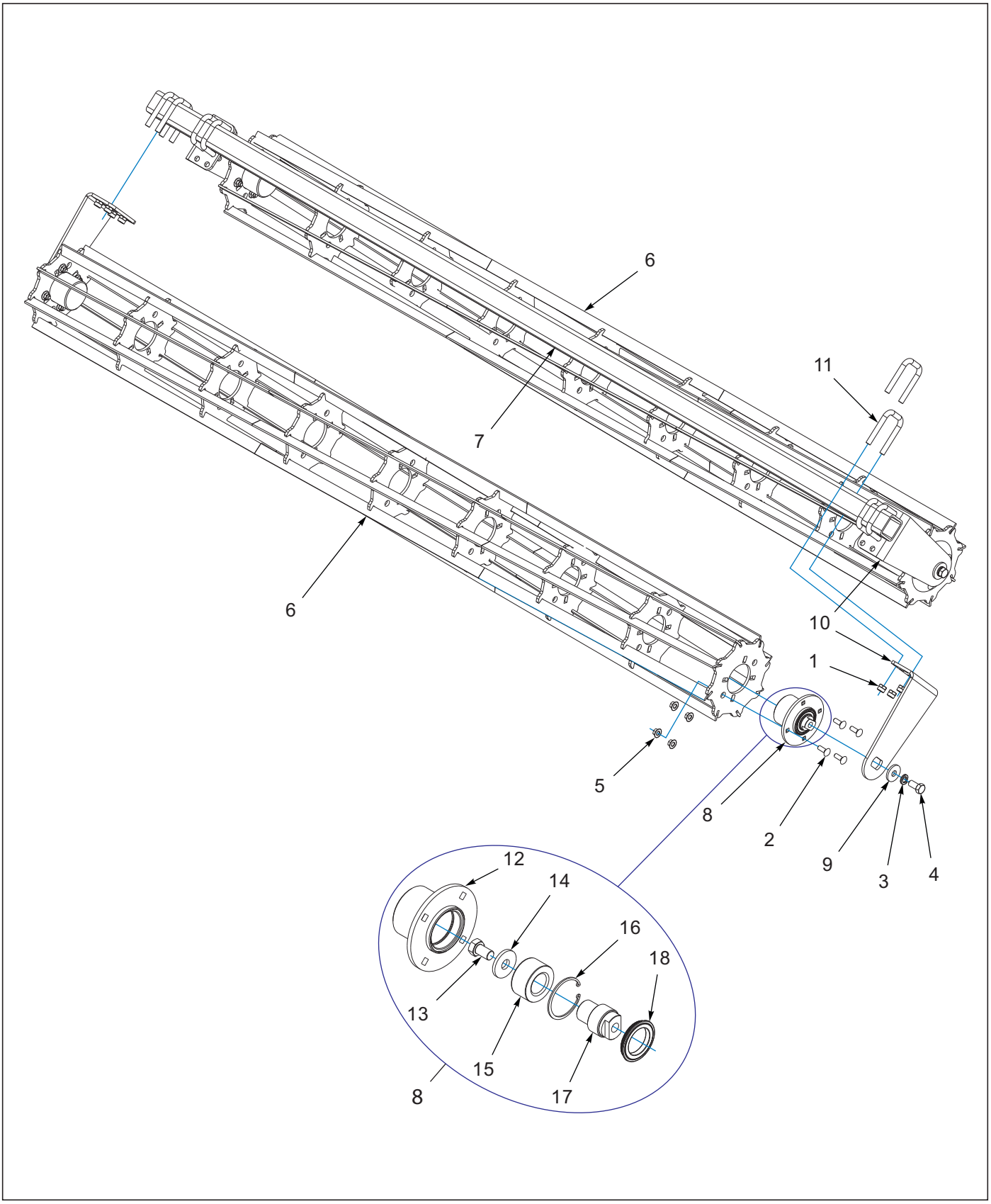


Figure 6-34: Reel Assembly Flat Double

Reel Assembly Flat Double

ITEM	PART NUMBER	DESCRIPTION	QTY	
--	209630	DOUBLE FLAT REEL ASSY 90/90	*	
--	209632	DOUBLE FLAT REEL ASSY 120/120		*
1	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	16	16
2	1-654-010070-03	SCREW RDHD SQNK1/2-13X1-1/2	16	16
3	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	4	4
4	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	4	4
5	172509	NUT,1/2-13 WIDE FLNG TOP LCK F	16	16
6	200298	REEL WLDMT 12" DIA X 90" FLAT	2	--
6	209641	REEL, 12 DIA X 120" FLAT WLDMT	--	2
7	190956	GANG BAR, DOUBLE REEL 100 L	1	--
7	190958	GANG BAR, DOUBLE REEL 130L	--	1
8	200222	HUB ASSY REEL	4	4
9	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4
10	204400	BEARING MOUNT, REEL	4	4
11	8-102-010012	U BOLT	8	8
12	200221	HUB WLDMT REEL	4	4
13	129263	SCREW HEX CAP 3/4-10 X 1-1/4	4	4
14	200259	WASHER, 3/4 HEAVY - 2-1/4	4	4
15	174526	BEARING, DOUBLE TAPER RLLR	4	4
16	174532	INTERNAL SNAP RING	4	4
17	200218	SPINDLE REEL BEARING	4	4
18	185757	SEAL, MAINT FREE HUB HSL	4	4

Reel Hydraulic Assembly

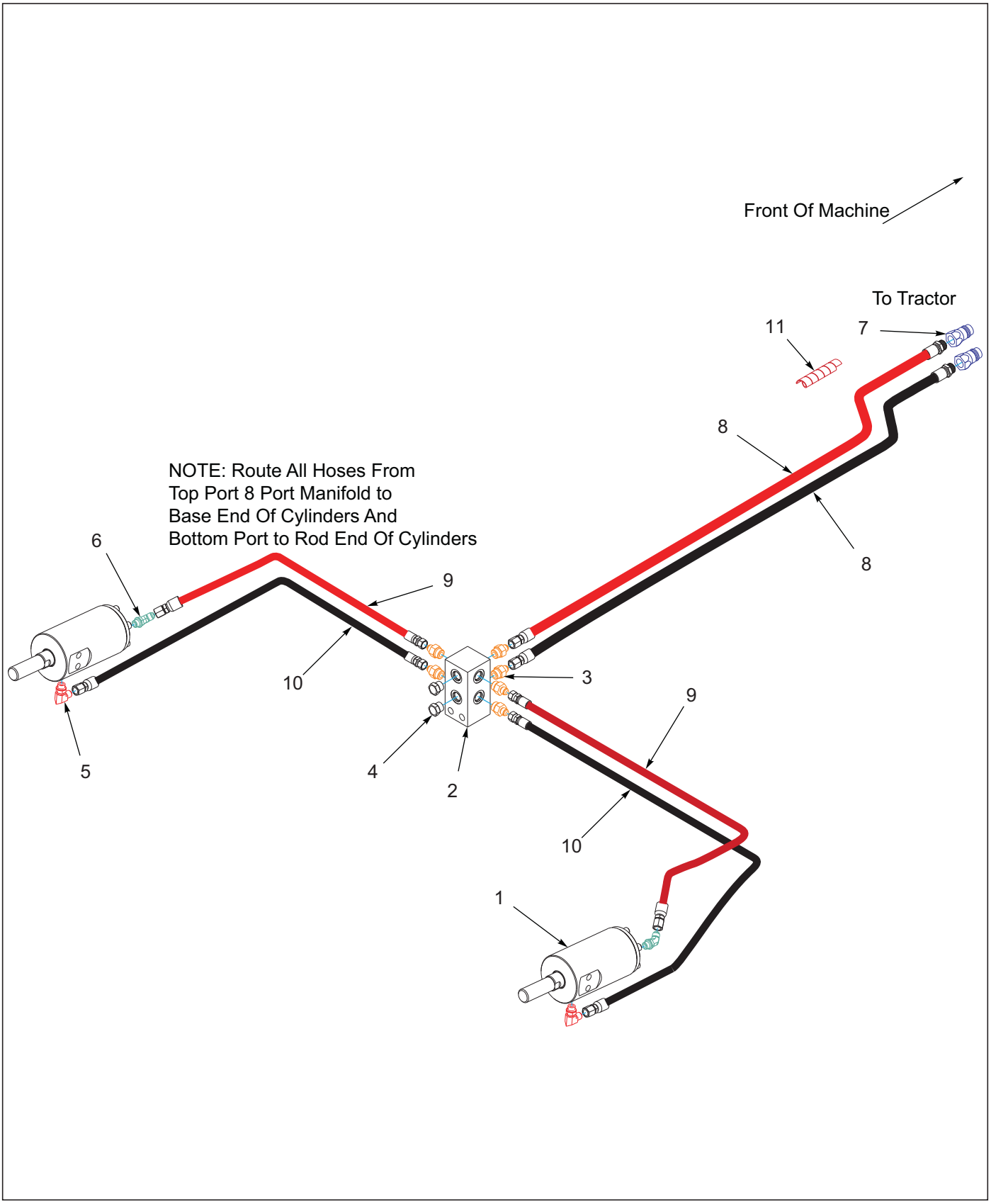


Figure 6-35: Reel Hydraulic Assembly

Reel Hydraulic Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	206598	CYL 2-1/2X1-1/2 ST1-1/8THD ASM **(USED WITH SINGLE REEL)** **(SEE PAGE 6-32)**	4
1	206671	CYL 2-1/2X2-1/2ST1-1/8THDS ASM **(USED WITH DOUBLE REEL)** **(SEE PAGE 6-33)**	4
2	2-474-010022	MANIFOLD HYDRAULIC, 8 HOSE	1
3	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	6
4	1-007-010025	PLUG, 3/4-16 O-RING BOSS	2
5	2062-6-6S	ADAPTER, 90, #6SAE X #6 JIC	2
6	2061-6-6S	ADAPTER, 45, #6 O-RING-TUBE	2
7	141828	COUPLER,MALE 3/4-16 O-RING	2
8	231840	HOSE ASSY,3/8X238 #6JIC X #8OR	2
9	224663	HOSE ASSY, 1/4 X 38 #6 JIC STR	2
10	232464	HOSE ASSY, 1/4X44 #6 JIC STR	2
11	172973	HOSE WRAP, RED	1

Spare Tire Assembly

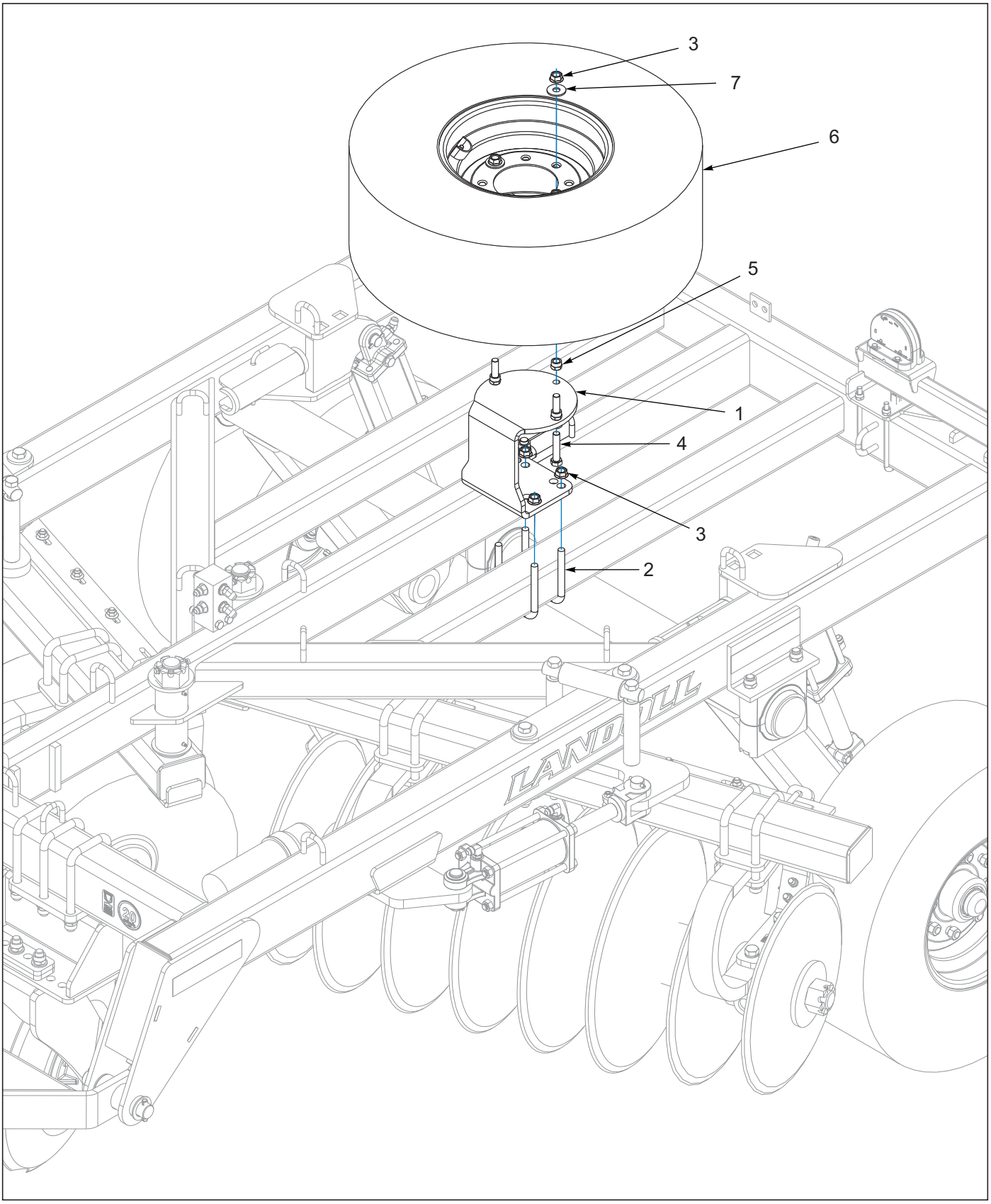


Figure 6-36: Spare Tire Assembly

Spare Tire Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	211422	SPARE ASSY,320 TIRE 8-BOLT 4X4	
1	208213	MOUNT, TIRE 8-BOLT	1
2	6-102-010009	U-BOLT RIGID GA WHEEL	2
3	29SFFL 5811	NUT,FLANGE HEAD LOCK5/8-11UNC	7
4	164147	SCREW HX CAP5/8-11X3 2-1/2THD	3
5	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	3
6	184708	TIRE ASSY,320/70R15,8 BOLTWHL	1
7	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	3

Table provided for general use.

NOTES:

Chapter 7

Glossary

For clarity this glossary of industry standard abbreviations and their definitions are provided.

A

ASM . . . . . Assembly

B

BATT . . . . . .Battery
BHSC . . . . . Button Head Socket Cap
BLK . . . . . .Black

C

CB . . . . . .Carriage Bolt
CONN . . . . . Connector
CRG . . . . . Carriage
CTSK . . . . . Countersunk
CTWT . . . . . .Counterweight
CVR . . . . . Cover
CYD . . . . . .Cylinder

D

DBL . . . . . .Double
DIA . . . . . Diameter

E

ENCLSD . . . . . .Enclosed

F

FHCS . . . . . .Flanged Head Cap Screw
FHHCS . . . . . Flanged Hex Head Cap Screw
FL OR **FLG** . . . . . .Flange
FLT . . . . . Flat

G

GA . . . . . .Gauge

H

HHCS . . . . . .Hex Head Cap Screw
HCS . . . . . High Carbon Steel
HD . . . . . .Head
HLCL . . . . . Helical
HCSKT . . . . . .Hex Socket
HSFC . . . . . Hex Socket Flat Countersunk
HYD . . . . . Hydraulic

I

ID . . . . . Inside Diameter

L

LH . . . . . .Lefthand
LKG OR **LOCK** . . . . . .Locking
LWR . . . . . .Lower

M

MANF . . . . . Manifold
MNT . . . . . .Mount

N

NRW . . . . . Narrow
- - - - - . . . . . Not Serviced Separately

O

OD . . . . . .Outside Diameter
OHG . . . . . Overhead Guard
ORFS OR **ORS** . . . . . O-Ring Seal
ORP OR **ORB** . . . . . .O-Ring Boss

P

P-STEER . . . . . .Power Steering
PTFE . . . . . .Polytetrafluoroethylene (Teflon)

R

RH . . . . . Righthand
RND . . . . . Round

S

SER . . . . . Series
SHCS . . . . . Socket Head Cap Screw
SHLD . . . . . Shield
SKT . . . . . Socket
SLFLKG . . . . . Selflocking
SOC . . . . . Socket
SPDT . . . . . Single Pole Double Throw
SPR . . . . . Spring
SQ . . . . . Square
SRTD . . . . . Serrated
SSCR . . . . . Setscrew
SST . . . . . Stainless Steel
STD . . . . . Standard

U

UPR . . . . . Upper

W

WHL . . . . . Wheel
WLD OR **WLDMT** . . . . . Weldment

Chapter 8

Index

Numerics

T

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone #: 800-423-4320 or 785-562-5381 **Fax #: 888-527-3909**
Order online: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model number and serial number, is located on the front of the frame ***See Figure 9-1***.

SERIAL NUMBER

The following information will help decode the XX-XXX serial number.

19H2500100 = xxmyyssssss

QR CODE DECAL

The 1911 series QR code decal, may be scanned to link you to the most current manuals, located on the front of the frame. ***See Figure 9-1.***

xx	= model series (i.e. 19 for Filloll)
m	= month of manufacture (ex. “H” means October. The letter I is not used.)
yy	= year manufactured (ex. “25” means 2025)
sssss	= Sequential number used to track warranty and service information.

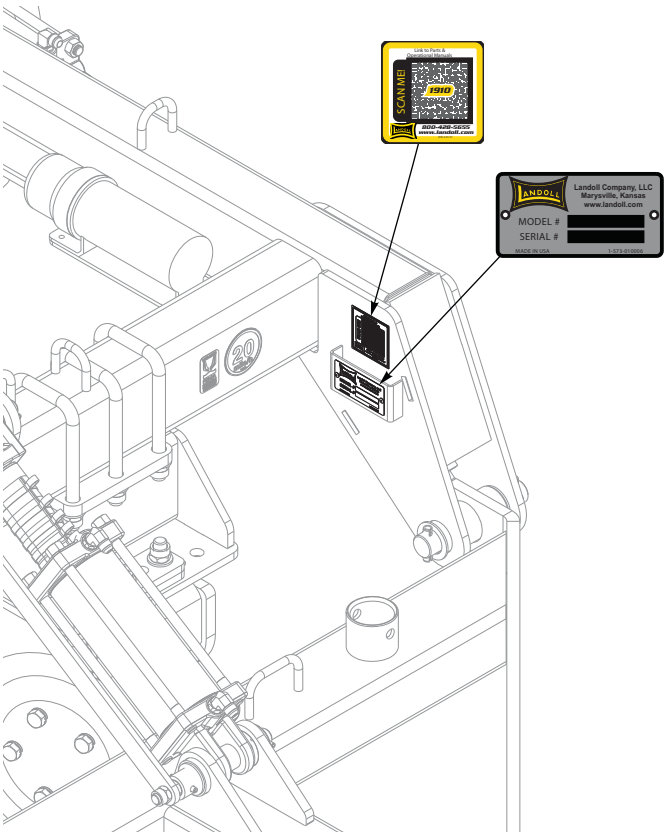


Figure 9-1: Data Plate and QR Code Location

Manuals for 1911 Filloll

Manual Number	Manual Type
F-1183	Operator’s, Part’s Manual

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
02/07/2025	F-1183	New Manual
04/08/2025	F-1183-2504	Initial Release

Equipment from Landoll Company, LLC is built to exacting standards ensured by ISO 9001:2015 registration at all Landoll manufacturing facilities.

Model 1911

Filloll

Operator's/Part's Manual

Re-Order Part Number F-1183

LANDOLL COMPANY, LLC
1900 North Street
Marysville, Kansas 66508
(785) 562-5381
800-428-5655 ~ WWW.LANDOLL.COM