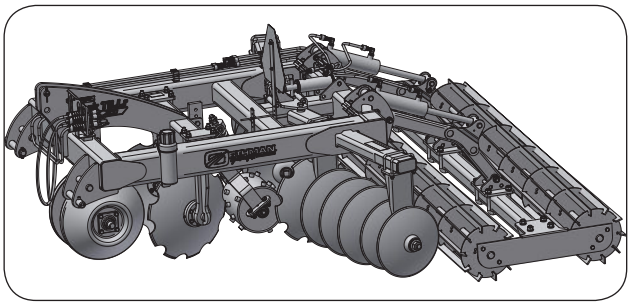


Residue Managment

500 Track-TILLr

Part No. L125-026

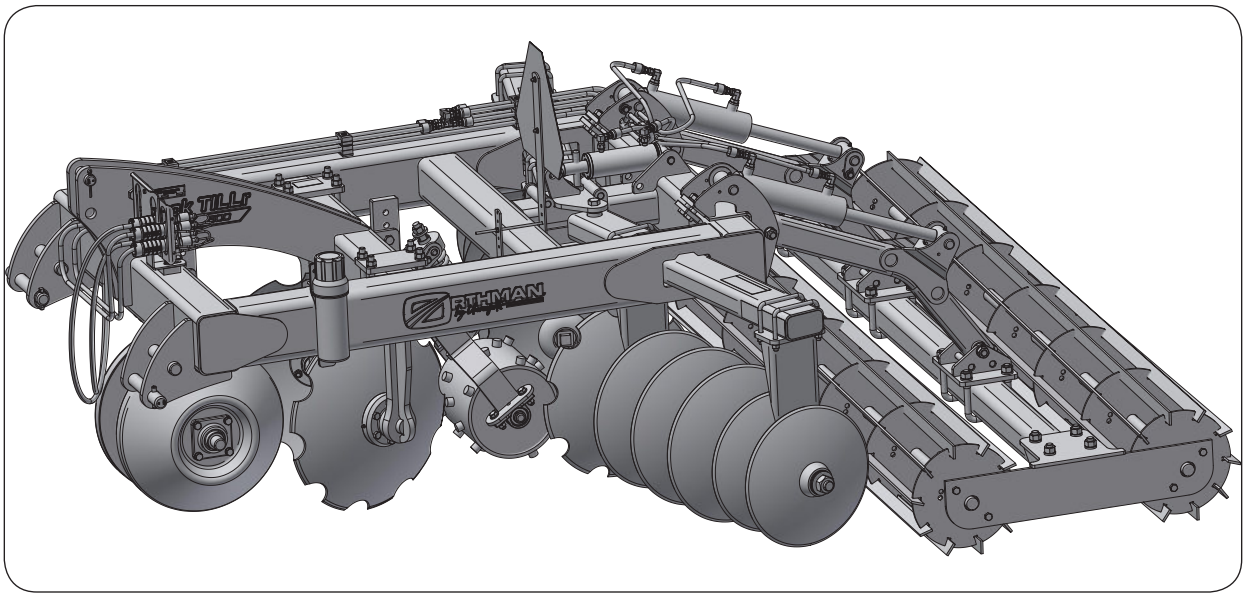
Foreword

This symbol identifies important safety messages. When you see it, read the message that follows and be alert to the possibility of personal injury.

Remember, safety instructions stated in this manual are for your protection. Read them carefully and follow them closely when working around or using this machine.

Read and study this manual completely before attempting to operate this implement. Take this manual to the field for handy reference when operating, adjusting, or servicing your machine.

When referenced, “Right-Hand” (RH) and “Left-Hand” (LH) side of the machine are determined by standing behind the machine and facing in the direction of travel.



Product Information

Please fill out and retain this portion for your records. All products manufactured by Unverferth Mfg. Co., Inc. are warranted to be free from material and workmanship defects for one full year from time of consumer delivery. Your local dealer will gladly assist you with any warranty questions.

The serial number plate is located as shown below.

Product _____

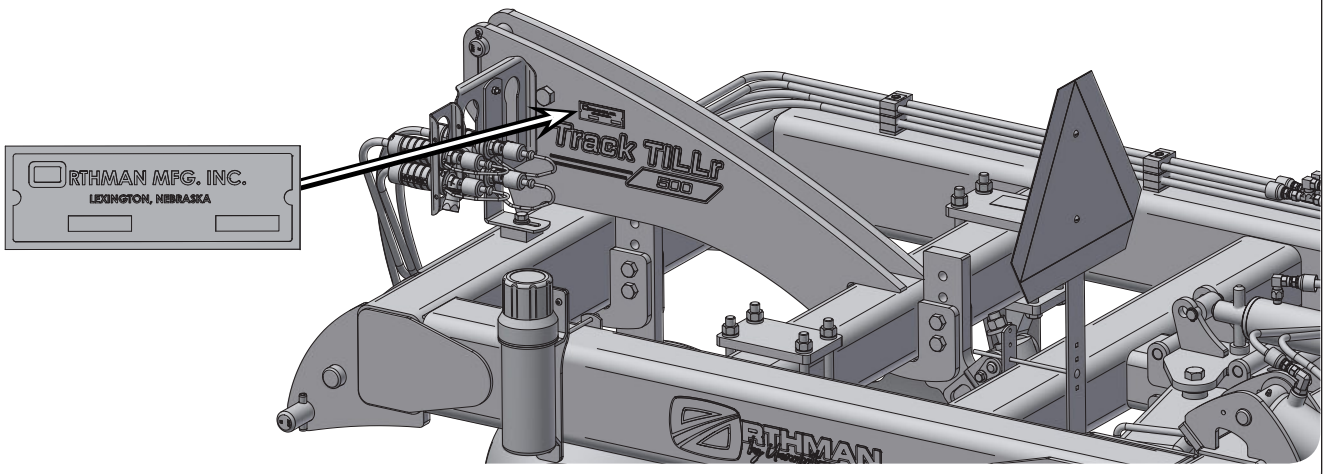
Serial Number _____

Date of Purchase _____

Dealer _____

City _____ State _____ Zip _____

Please supply this information when you have questions or when ordering repair or replacement parts. Your dealer needs this information to give you prompt, efficient service.



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SECTION I
Safety

General Hazard Information

No accident-prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

A large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it is on the highway, in the field, or in the industrial plant, can be safer than the person who is at the controls. If accidents are to be prevented--and they can be prevented--it will be done by the operators who accept the full measure of their responsibility.

It is true that the designer, the manufacturer, and the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that, “the best kind of a safety device is a careful operator.” We, at Unverferth Mfg. Co., Inc. ask that you be that kind of operator.

REMEMBER:

THINK SAFETY

A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT!

SIGNAL WORDS

DANGER

INDICATES AN EXTREMELY HAZARDOUS SITUATION OR ACTION THAT WILL RESULT IN SERIOUS INJURY OR DEATH.

WARNING

INDICATES A HAZARDOUS SITUATION OR ACTION THAT COULD RESULT IN SERIOUS INJURY OR DEATH.

CAUTION

INDICATES AN UNSAFE SITUATION OR ACTION THAT MAY RESULT IN PERSONAL INJURY.

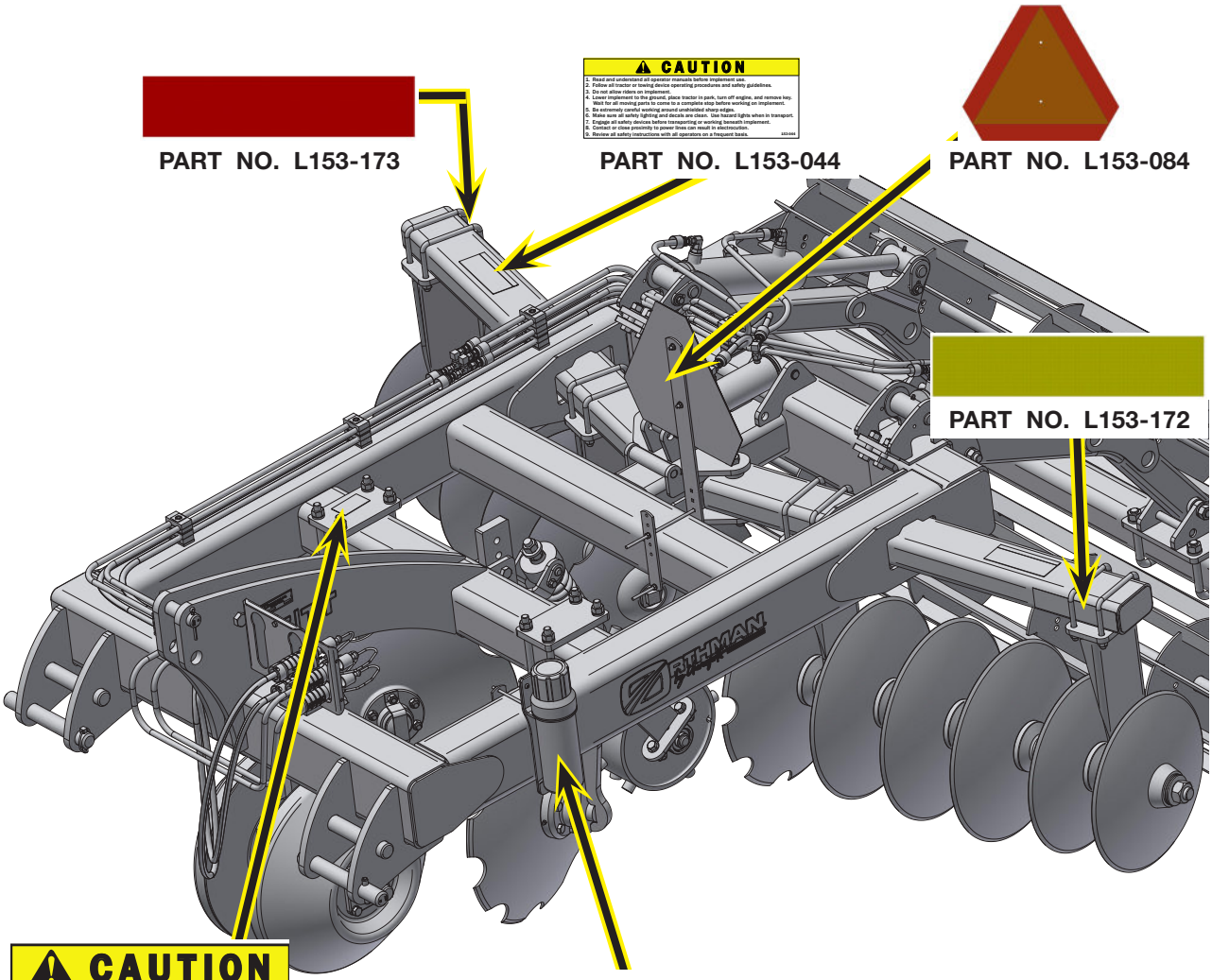
IMPORTANT

Is used for instruction on operating, adjusting, or servicing a machine.

Safety Decals

⚠ WARNING

- **REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW DECALS. THESE DECALS INFORM AND REMIND THE OPERATOR WITH OPERATIONAL INFORMATION AND SAFETY MESSAGES.**



Following Safety Instructions

- Read and understand this operator's manual before operating.

- All machinery should be operated only by trained and authorized personnel.
- To prevent machine damage, use only attachments and service parts approved by the manufacturer.
- Always shut tractor engine off and remove key before servicing.

- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc., that may become entangled in moving parts.
- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating machine or towing vehicle.

- Never attempt to operate implement unless you are in driver's seat.

Before Servicing or Operating

- Avoid working under an implement; however, if it becomes absolutely unavoidable, make sure the implement is safely blocked.

- Ensure that all applicable safety decals are installed and legible.
- When working around the implement, be careful not to be cut by sharp edges.
- Do not stand between towing vehicle and implement during hitching.
- Always make certain everyone and everything is clear of the machine before beginning operation.

During Operation

- Regulate speed to working conditions. Maintain complete control at all times.
- Never service or lubricate equipment when in operation.
- Use extreme care when operating close to ditches, fences, or on hillsides.
- Do not leave towing vehicle unattended with engine running.

Before Transporting

- Install transport locks before transporting.
- Check for proper function of all available transport lights. Make sure that all reflectors are clean and in place on machine. Make sure that the tractor's SMV emblem and SIS decal are visible to approaching traffic.

During Transport

- Comply with all laws governing highway safety when moving machinery.
- Use transport lights as required by all laws to adequately warn operators of other vehicles.
- Use good judgment when transporting equipment on highways. Regulate speed to road conditions and maintain complete control.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.

Pressurized Oil

- Relieve the hydraulic system of all pressure before adjusting or servicing. See hydraulic power unit manual for procedure to relieve pressure.

- High-pressure fluids can penetrate the skin and cause serious injury or death. Leaks of high-pressure fluids may not be visible. Use cardboard or wood to detect leaks in the hydraulic system. Seek medical treatment immediately if injured by high-pressure fluids.

- Hydraulic system must be purged of air before operating to prevent serious injury or death.

- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.

- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.

- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards and shields are installed correctly.

- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
  - End fittings damaged, displaced, or leaking.
  - Outer covering chafed/cut or wire reinforcing exposed.
  - Outer covering ballooning locally.
  - Evidence of kinking or crushing of the flexible part of a hose.

Preparing for Emergencies

- Keep a first aid kit and properly rated fire extinguisher nearby.

- Keep emergency numbers for fire, rescue, and poison control personnel near the phone.

Wearing Protective Equipment

- Wear clothing and personal protective equipment appropriate for the job.

- Wear steel-toed shoes when operating.

- Wear hearing protection when exposed to loud noises.

- Do not wear additional hearing impairing devices such as radio headphones, etc

SECTION II
Set Up

General Set Up Information

This section contains all of the instructions required for the complete assembly of the scraper.

For your safety, and the safety of others, use proper tools and equipment and always use safe working procedures. Refer to these instructions before starting any work on your machine.

IMPORTANT

- *The procedures for assembling this unit are intended for two or more people.*

For ease of assembly, install all hardware loosely until assembly is complete and then tighten according to “Torque Chart” in MAINTENANCE section unless otherwise specified.

⚠ WARNING

- **KNOW AND UNDERSTAND SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW "SAFETY" SECTION IN YOUR MANUAL IF NECESSARY.**
- **EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING THE IMPLEMENT.**
- **KEEP HANDS CLEAR OF PINCH POINT AREAS.**
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 5,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**
- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE THE MACHINE IS SECURELY BLOCKED.**
- **MOVING PARTS CAN CRUSH AND CUT. KEEP AWAY FROM MOVING PARTS.**

Basic Set Up

Due to shipping requirements and various dealer-installed options, some initial implement set up will be required after it arrives from the factory. Use the following procedures as needed for initial implement set up.

Hydraulic System

Check all hoses and cylinders for signs of leakage. Hoses should not be kinked, twisted or rubbing against sharp edges. Re-route or repair hoses as necessary. Refer to SAFETY section for additional information on safe repair and inspection of hydraulic components.

SMV Emblem & SIS Decal

Before the implement is used the reflective surface of the SMV must face rearward. This may require removal of film protecting the reflective surface or removing and reinstallation of the SMV.

When reinstalling the SMV make sure that it is mounted with the wide part of the SMV at the bottom. (Fig. 2-1)

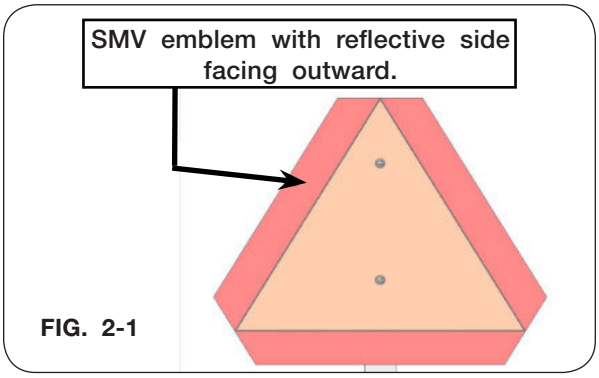


FIG. 2-1

Guide Wheel Set Up

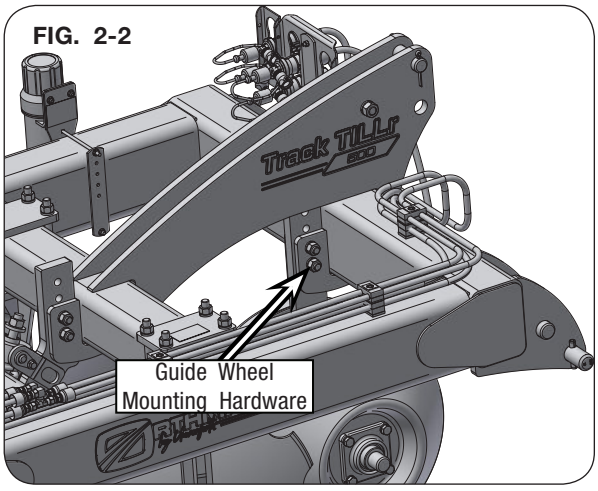
⚠ WARNING

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 500 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**
- **EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.**

NOTE: Due to shipping requirements, the guide wheel's factory setting is not set for operation. The guide wheel be adjusted one hole upward for optimum tillage results.

1. Remove the two capscrews and nuts from the guide wheel mounting shank. (Fig. 2-3)
2. Adjust the guide wheels one hole upward to achieve the base setting.
3. Re-Install the two capscrews and nuts into the guide wheel mounting shank. (Fig. 2-3)

FIG. 2-2



SECTION III
Operation

General Operation Information

WARNING

- **READ AND UNDERSTAND SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW "SAFETY" SECTION IN THIS MANUAL IF NECESSARY.**
- **CRUSHING CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT STAND BETWEEN TOWING VEHICLE AND IMPLEMENT WHEN HITCHING. ALWAYS ENGAGE PARKING BRAKE AND STOP ENGINE BEFORE INSERTING HITCH PINS OR SECURING LATCHES.**

Read this operation section thoroughly. Acquaint yourself with the adjustments required to obtain efficient and trouble-free operations.

Preparing Tractor

WARNING

- **TRANSPORTING THE IMPLEMENT SIGNIFICANTLY CHANGES THE WEIGHT AND BALANCE OF YOUR TRACTOR. MAKE SURE THE TRACTOR IS PROPERLY BALLASTED.**
- **DO NOT EXCEED THE TRACTOR'S LIFT CAPACITY OR BALLAST RECOMMENDATIONS.**

Before operating implement, refer to tractor operator's manual for information concerning safe methods of operation, hydraulics, hitch adjustment, tire inflation, wheel adjustments, and tractor weights.

Check tractor brakes and transport lights. Make sure they are in proper working order.

Check tractor hydraulic oil reservoir and add oil if needed.

Secure the tractor 3-Point linkage so that it does not swing into the tractor tires or onto the hydraulic hoses.

Use front-end weights as needed to provide effective steering control and front-end stability. See your tractor operator's manual for recommendations on ballasting procedures.

Preparing Track-TILLr

Perform the service checks as outlined below. Repair or replace any damaged or worn parts before operating.

Bolts And Nuts

Before going to the field, check all hardware for tightness. Recheck all bolts for tightness, after the unit has been operated for several hours.

Pins

Before going to the field, check that all pins are in place and are in good condition. Replace any worn, damaged, or missing pins.

Check that locking hardware for pins are in place and tight.

Lubrication

Lubricate unit as outlined in MAINTENANCE section.

Track-TILLr Field Adjustments

WARNING

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 500 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**
- **EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.**

Guide Wheel Height Adjustment

For Guide Wheel Height Adjustent:

NOTE: The depth setting of the guide wheels determines tillage depth.

1. Remove the two capscrews and nuts from the guide wheel mounting shank. (Fig. 3-1)
2. Adjust the guide wheels upward for deeper tillage or downward for shallower tillage. (Fig. 3-2)
3. Re-Install the two capscrews and nuts into the guide wheel mounting shank. (Fig. 3-1)

NOTE: If the guide wheels are adjusted the track packer assmebly will also need to be adjusted.

FIG. 3-1

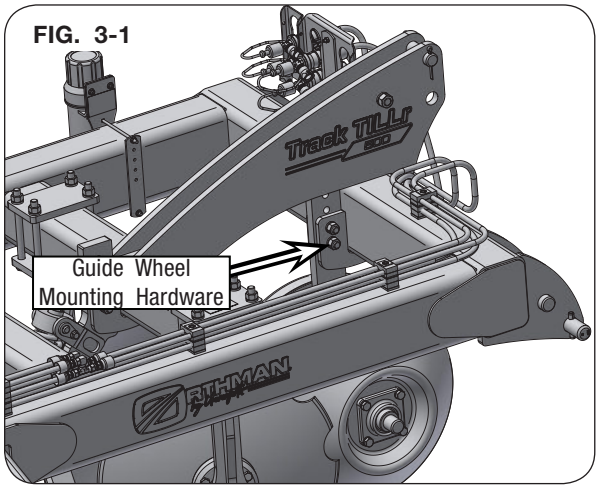
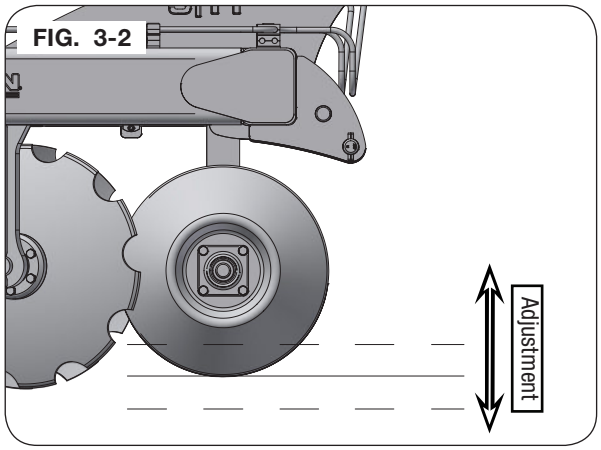


FIG. 3-2



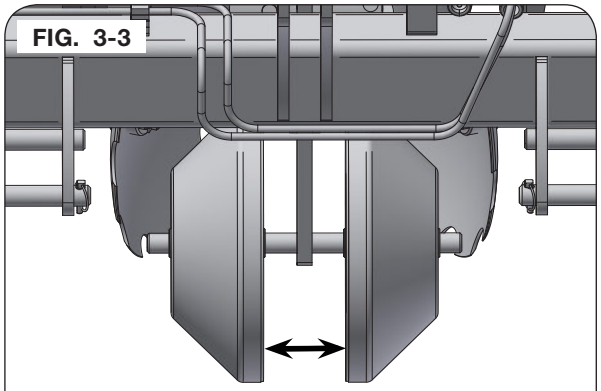
Track-TILLr Field Adjustments (continued)

For Guide Wheel Width Adjsutment:

NOTE: Guide wheels are set at 5.5” inside of wheel to inside of wheel from the factory but can be adjusted to accomodate other track widths.

1. Loosen guide wheel bearing set screws. (Fig. 3-3)
2. Move guide wheels to desired positions.
3. Tighten guide wheel set screws. (Fig. 3-3)

FIG. 3-3



Sidewall Buster Adjustment

NOTE: The sidewall buster discs should be set to allow them to break up the pivot track side wall and move the soil into the pivot track

1. Loosen the capscrews and nuts that hold the disk hangers mounts to the frame. (Fig. 3-4)
2. Slide the entire disc assembly inward for narrower pivot tracks or outward for wider pivot tracks. (Fig. 3-5)
3. Tighten the capscrews and nuts that hold the disk hanger mounts to the frame. (Fig. 3-5)

FIG. 3-4

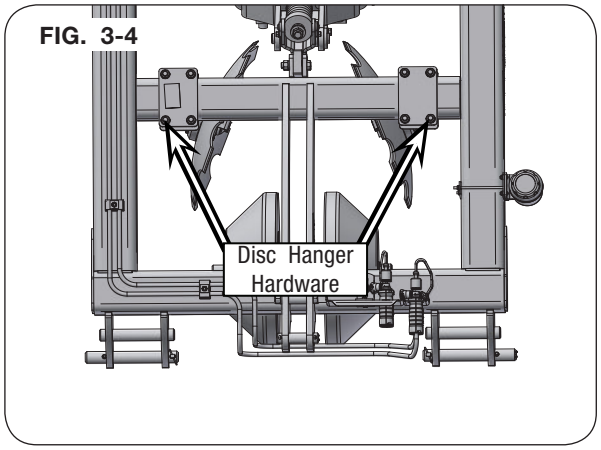
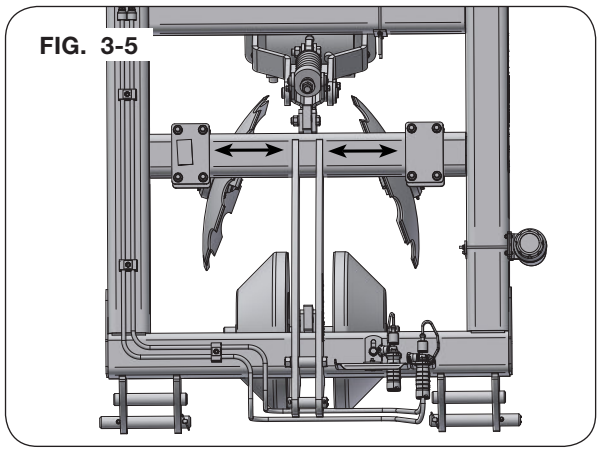


FIG. 3-5



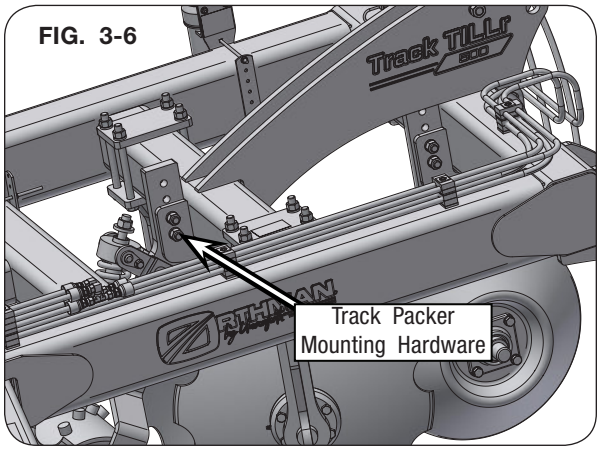
Track-TILLr Field Adjustments (continued)

To Adjust Track Packer Height:

NOTE: The track packer height should be adjusted in conjunction with adjustment of the guide wheel. When the guide wheel is adjusted upward, the track packer should also be adjusted upward in the same manner. The track packer down pressure may be adjusted to achieve an optimum base foundation within the pivot track.

1. Remove capscrews and nuts from the track packer mounting shank. (Fig. 3-6)
2. Move the track packer assembly up or down according to how the guide wheels have been adjusted.
3. Re-Install the capscrews and nuts into the track packer mounting shank and properly torque the hardware. (Fig. 3-6)

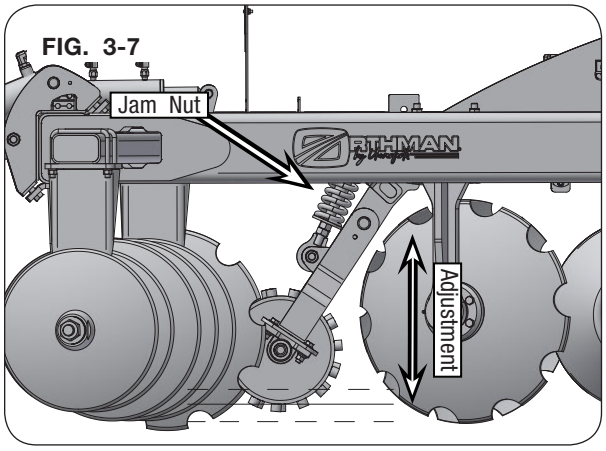
FIG. 3-6



To Adjust Track Packer Down Pressure:

1. Loosen jam nut at the bottom of the down pressure spring. (Fig. 3-7)
2. Use the tension nut to increase or decrease the track packer down pressure. Tightening the tension nut will increase down pressure, loosening the tension nut will decrease the down pressure. (Fig. 3-7)
3. Once the desired down pressure is found, tighten the jam nut. (Fig. 3-7)

FIG. 3-7



Track-TILLr Field Adjustments (continued)

Rear Disk Gang Adjustment

NOTE: The angle of the rear disc gangs may be adjusted when soil conditions demand more aggressive tillage.

1. Use the tractors hydrauliucs to adjust the rear disc gang angle if needed. The hydraulic angle adjustment system will allow for adjustment to be made while the implement is in operation.

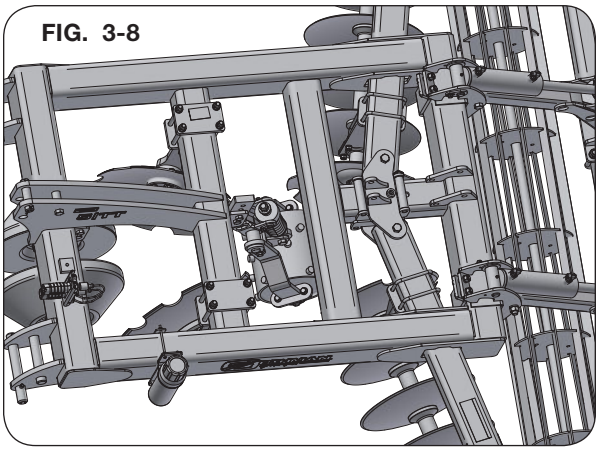


FIG. 3-8

Rear Conditioner Basket Adjustment

NOTE: The dual rear rolling basket down pressure may be adjusted to achieve an optimum tillage bed. If equipped, the hydraulic angle adjustment system will allow for adjustment to be made while the implement is in operation. Standard units have a spring to adjust the down pressure of the conditioner baskets.

1. Loosen jam nut at the bottom of the down pressure spring. (Fig. 3-9)

2. Use the tension nut to increase or decrease the conditioner basket down pressure. Tightening the tension nut will increase down pressure, loosening the tension nut will decrease the down pressure. (Fig. 3-9)

3. Once the desired down pressure is found, tighten the jam nut. (Fig. 3-9)

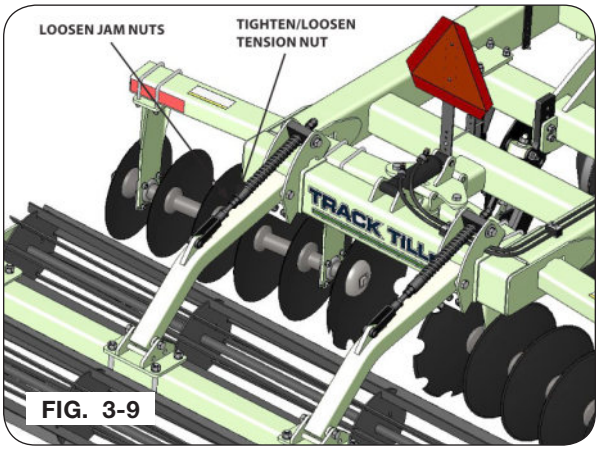


FIG. 3-9

Hitching to Tractor

WARNING

- **CRUSHING CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT STAND BETWEEN TOWING VEHICLE AND IMPLEMENT WHEN HITCHING. ALWAYS ENGAGE PARKING BRAKE AND STOP ENGINE BEFORE INSERTING HITCH PINS OR SECURING LATCHES.**

3 Point Hitch Tractor Connection

1. Back up tractor to the implement hitch. Place the tractor in park, turn off the engine, and remove the key before connecting the implement. Injury or death can result from being trapped between the tractor and implement.
2. Set tractor's three-point hitch lift links. Hitch lift links should be adjusted to the operating depth dimensions indicated in the tractor operator's manual.
3. Set tractor's three-point hitch lateral float pins. Lateral float pins should be placed in the lower holes to allow machine to "float" and follow the ground surface.
4. Connect the tractor's lower three-point hitch points to the lower hitch tug pins on the implement. (Fig. 3-16)
5. Adjust the tractor's upper three-point hitch point as necessary to connect the hitch point to the upper hitch pin on the implement. (Fig. 3-16)

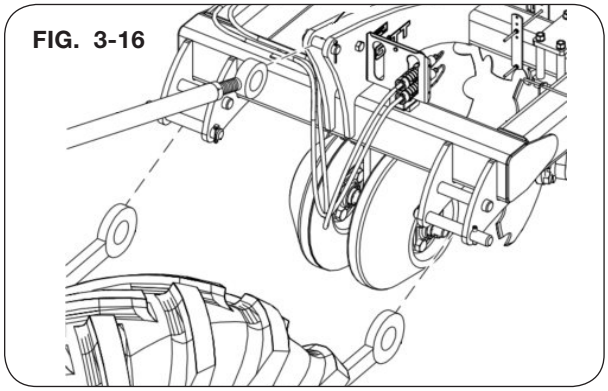


FIG. 3-16

Quick Hitch Tractor Connection

1. Back up tractor to the implement hitch. Place the tractor in park, turn off the engine, and remove the key before connecting the implement. Injury or death can result from being trapped between the tractor and implement.
2. Raise quick hitch latch handles. (Fig. 3-17)
3. Lower the rockshaft until the center link hook and quick-hitch hooks are lower than the implement hitch pins.

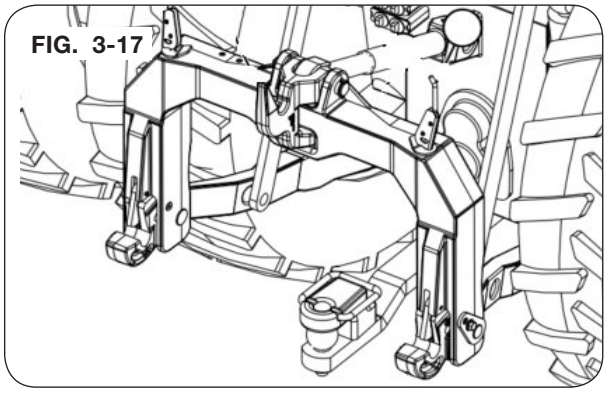


FIG. 3-17

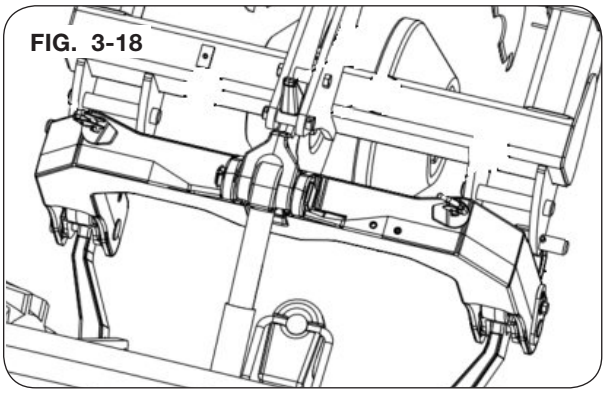
Transport and Field Positions

4. Slowly back the tractor towards the toolbar until the quick-hitch hooks are aligned with the implement hitch pins.

5. Raise the rockshaft until the center link hook and quick-hitch hooks engage with the implement hitch pins. (Fig. 3-18)

6. Push latch handles down to lock the quick-hitch to the implement.

FIG. 3-18



Transport Position:

Regulate speed to road conditions and maintain complete control.

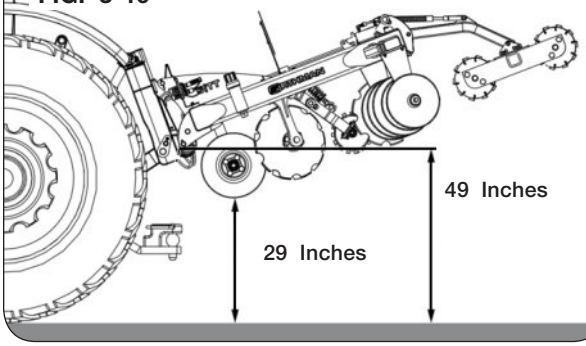
Be aware of obstructions above, below, and around the
implement when in operation or transport.

Connect the implement to the tractor hitch.

Raise the tractor hitch to its highest point. The hitch should have a minimum of 49 inches of clearance from the ground surface. (Fig. 3-19)

The guide wheels should have a minimum of 29 inches of clearance from the ground surface. (Fig. 3-19)

FIG. 3-19



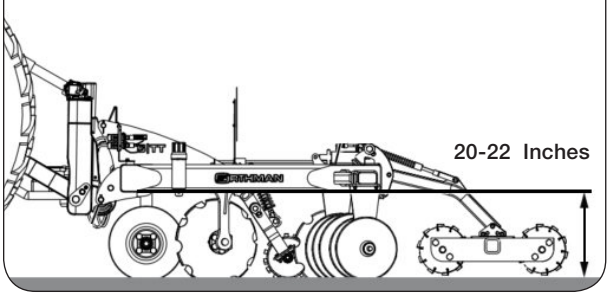
Field Position:

Disengage transport locking devices and cylinder stops after transport

Guide wheels should be set to allow the equippment to operate at an approximate height of 20-22 Inches of clearance from the ground surface to the bottom of the implement frame. (Fig. 3-20)

Choice of attaching hole on the tractor end of the top link can affect implement rear lift height and angle. Refer to tractor operators manual for adjustment information.

FIG. 3-20



SECTION IV
Maintenance

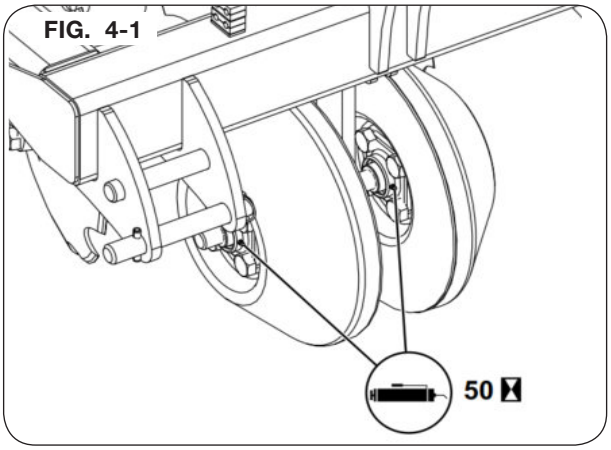
Lubrication

Grease all zerks on the 5|TT TRACK TILLr using a high-quality, multi-purpose grease. Follow the recommended hourly service intervals illustrated below.

Lubrication Service Intervals		
	# of Grease Points	Interval (Hours)
Inner Guide Wheel Bearing	2	50
Outer Guide Wheel Bearing	2	50
Sdie Wall Buster Disc Bearing	2	50
Disc Gang Bearing	4	50
Disc Gang Cylinder	2	10
Rolling Basket Cylinder (2 used)	4	10
Rolling Basket Bearing	4	50

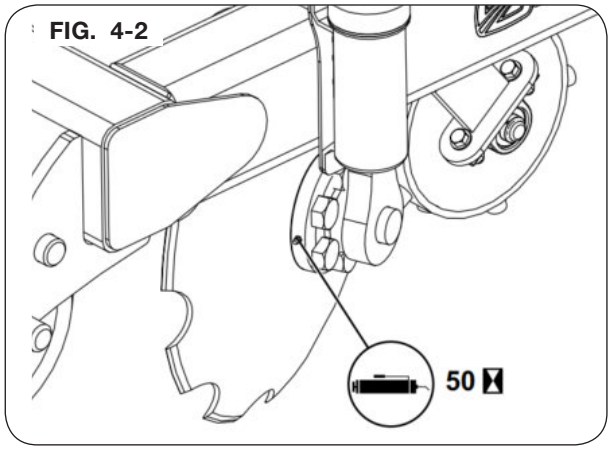
Inner & Outer Guide Wheel Grease Locations

FIG. 4-1



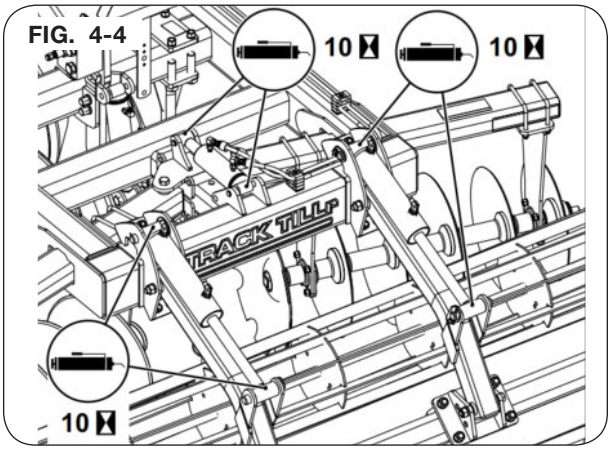
Side Wall Buster Disc Grease Locations

FIG. 4-2



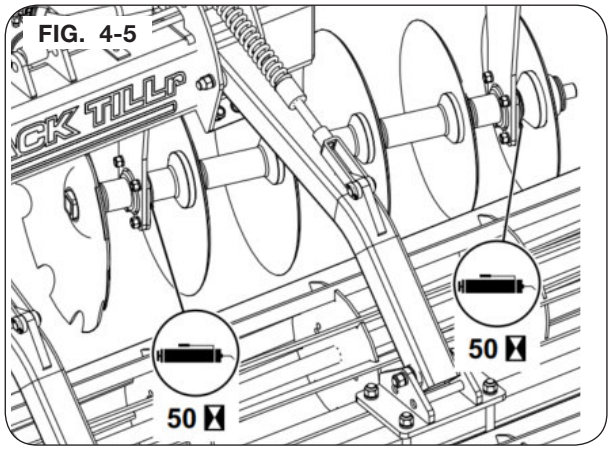
Disc Gang Clylinder & Rolling Basket Cylinder Grease Locations

FIG. 4-4



Disc Gang Grease Locations

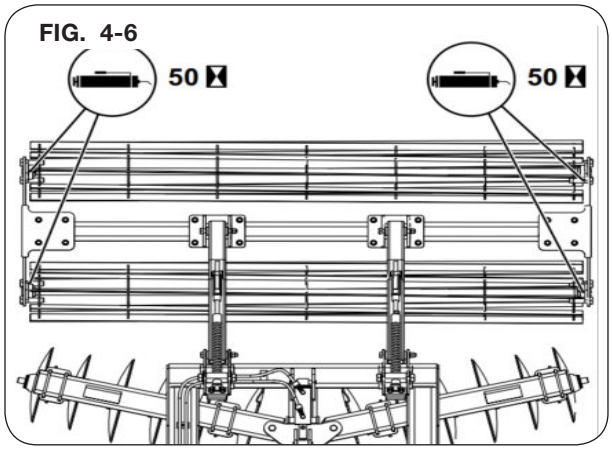
FIG. 4-5



Lubrication (continued)

Rolling Basket
Grease Locations

FIG. 4-6



Purging Hydraulic System

⚠ WARNING

- **RELIEVE THE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING. SEE THE HYDRAULIC POWER UNIT OPERATOR'S MANUAL FOR PROPER PROCEDURES.**
- **HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.**

1. Purge air from system as follows:

   A. Clear all personnel and objects from the area, including where the machine will have full range of motion during the hydraulic movement.

   B. Pressurize the system and maintain the system at full pressure for at least 5 seconds after the cylinder rods stop moving. Check that all cylinders have fully extended or retracted.

   C. Check oil reservoir in the hydraulic power source and refill as needed.

   D. Pressurize the system again to reverse the motion of step B. Maintain pressure on the system for at least 5 seconds after the cylinder rods stop moving. Check that all cylinders have been fully extended or retracted.

   E. Check for hydraulic oil leaks using cardboard or wood. Tighten connections according to directions in the Torque Specifications in the MAINTENANCE section.

   F. Repeat steps in B, C, D, and E 10-12 times.

Guide Wheel Disassembly and Assembly

⚠ WARNING

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY OW]] INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 3,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

1. Park the implement on a firm, level surface and un-hitch from tractor.
2. Use safe lifting and load holding devices rated at 3,000 lbs. to support the weight of your implement.
3. Remove capscrews and nuts from guide wheel mounting shank and remove guide wheel assembly from the implement. (Fig. 4-7)
4. Loosen the inner and outer bearing set screws. Remove the guide wheels and bearings.
5. Remove the capscrews and lock washers from the guide wheels and bearings. (Fig. 4-8)
6. Inspect parts for wear or damage and replace if neccesary.
7. Install bearings onto guide wheels. Tighten the cap screws and lock washers. (Fig. 4-8)
8. Install the guide wheel and bearing assembies onto the guide wheel mounting shank.
9. Set the guide wheels to the desired width, then tighten the bearing set screws.
10. Install the guide wheel assembly onto the implement, then install and tighten the capscrews and nuts. (Fig. 4-7)

NOTE: The guide wheels are set at 5.5” from inside to inside of the guide wheels from the factory but can be adjusted if needed.

FIG. 4-7

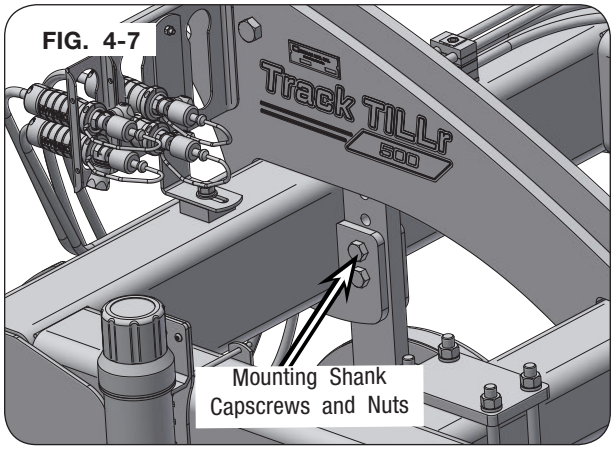
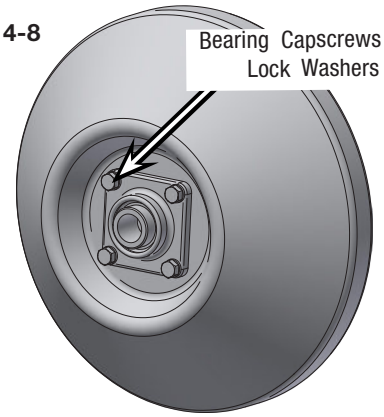


FIG. 4-8



Side Wall Buster Disc Disassembly and Assembly

WARNING

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 3,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

IMPORTANT

- *Remove only one disc assembly at any given time in the following procedure.*

1. Park the implement on a firm, level surface and un-hitch from tractor.
2. Use safe lifting and load holding devices rated at 3,000 lbs. to support the weight of your implement.
3. Remove the nuts and lock washers from the mounting capscrews. (Fig. 4-9)
4. Remove the disc assembly and mounting plate.
5. Remove the lock nuts, hub cap protecting strap, hub washer, and disc. (Fig. 4-10)
6. Inspect parts for wear or damage and replace if neccesary.
7. Install the disc, hub washer, hub cap protecting strap, and tighten lock nuts. (Fig. 4-10)
8. Install disc assembly and mount plate onto the implement frame with the capscrews, lock washers and nuts. (Fig. 4-9)

FIG. 4-9

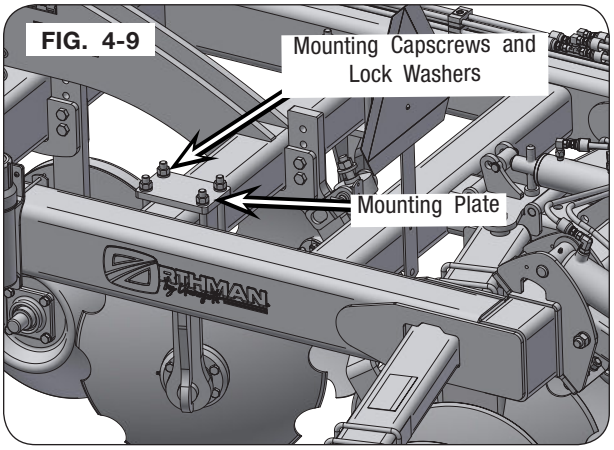
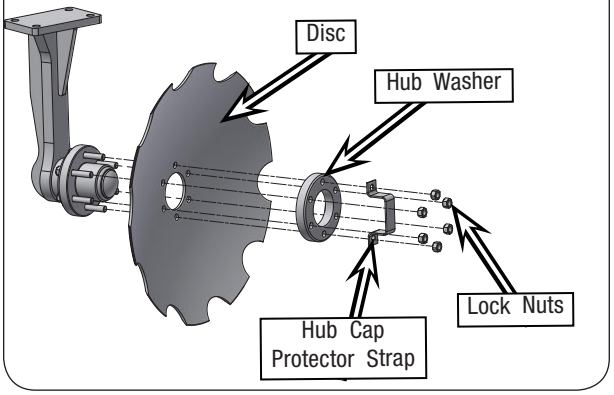


FIG. 4-10



Side Wall Buster Hub Adjustment and Replacement

IMPORTANT

- *Do not allow dirt and debris to contaminate the hub and its internal components. Neglecting to do so could result in failure of the hub and its components due to excessive wear.*

1. Check the disc hub and bearing for looseness or wobble by gripping the ends of the disc. Rotate and laterally push and pull on the side wall buster disc. A tight hub will have no wobble and will rotate smoothly with a slight resistance.

2. If there is wobble in the hub, the hub must be tightened to the spindle. To do this, remove the hub cap protector strap and the hub cap. Remove the cotter pin and tighten the slotted nut. The nut should be torqued to 40-45 foot-pounds. Increase the tightness to reinsert the cotter pin (Fig. 4-11).

3. After tightening, retest the hub for wobble by repeating Step #1. If wobble still exists, continue with the following guidelines.

IMPORTANT

- *When tightening slotted nut onto spindle, rotate hub back and forth so that flats do not form on bearings.*

4. Turn the disc and feel for any roughness in the rotation. Also, check the base of the hub to see if the seal is intact and in position. If either problem exists, the hub must be dismantled, cleaned, inspected for damage, and repacked with grease. Refer to the following guidelines for this procedure (Fig. 4-11).

   A. Remove the disc, hub cap protector strap, and hub cap. Remove the cotter pin securing the slotted nut.

IMPORTANT

- *When removing the hub and its components, be sure to keep them free of debris and dirt. Failure to do so will result in contamination of hub and bearing failure.*

   B. Unscrew the nut and carefully remove the hub from the spindle.

   C. Remove the components, clean, and inspect for any damage or wear. If even the slightest imperfection exists, replace the component(s). Once the hub is dismantled, always replace the bearings and seals.

Side Wall Buster Hub Adjustment and Replacement

IMPORTANT

- *Always replace the seals if dismantling the hub. Failure to do so could result in premature failure of hub and its components.*

D. Replace any damaged parts before reassembling the components. Be sure to remove any debris or dirt and repack bearings with an SAE approved hub grease.

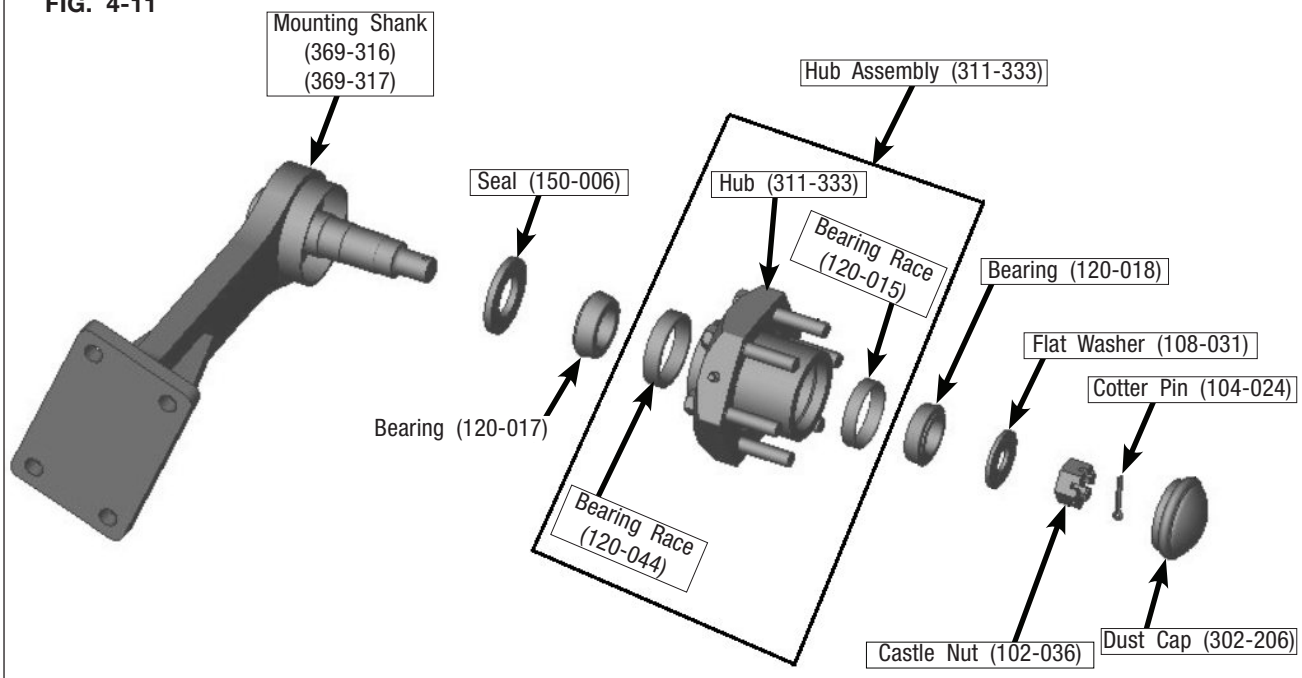
E. After reassembling the hub, position the slotted nut back onto the spindle and torque to 40-45 foot-pounds. Slightly tighten the nut to align slot (in nut) with the closest cotter pin hole and install the cotter pin. (Fig. 4-11).

IMPORTANT

- *Rotate sided wall buster disc hub when torquing slotted nut. Doing this will prevent flats from forming on bearings.*

G. Reinstall the hub cap, hub cap protector strap, and disc.

FIG. 4-11



Track Packer Disassembly and Assembly

⚠ WARNING

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 3,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

1. Park the implement on a firm, level surface and un-hitch from tractor.

2. Use safe lifting and load holding devices rated at 3,000 lbs. to support the weight of your implement.

3. Remove the capscrews, nuts, and lock washers from the track packer mounting shank then remove the track packer assembly from the implement frame. (Fig. 4-12)

4. Remove the capscrews and pins from the upper side of the tension assembly then remove the capscrew and nut from the bottom side of the tension assembly. (Fig. 4-13)

5. Remove the tension assembly from the track packer assembly.

NOTE: The spring tension assembly is standard, optional hydraulic cylinder can also be used.

6. Remove the pin, capscrew and mounting shank from the track packer assmebly. (Fig. 4-13)

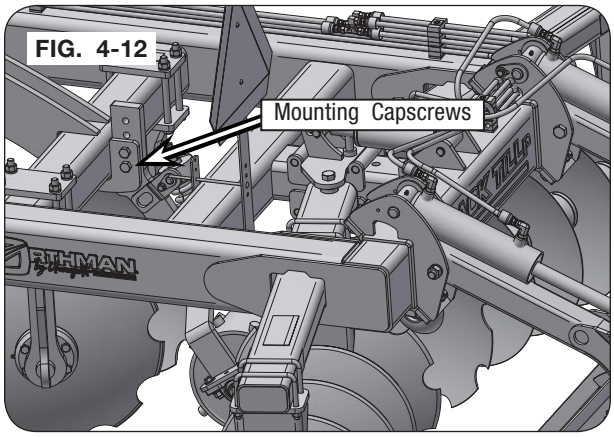


FIG. 4-12

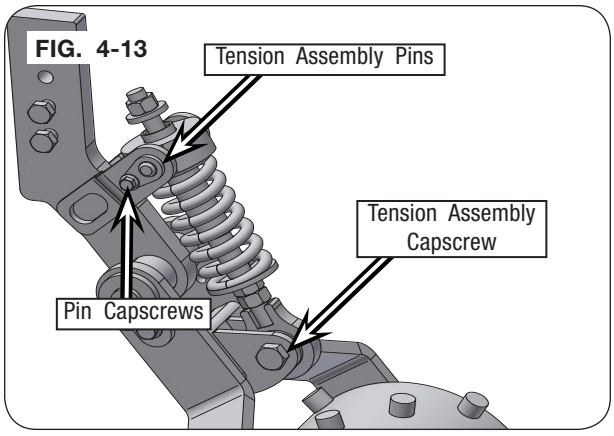


FIG. 4-13

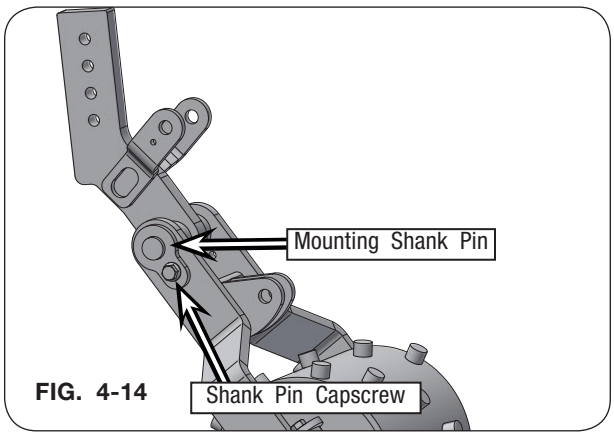
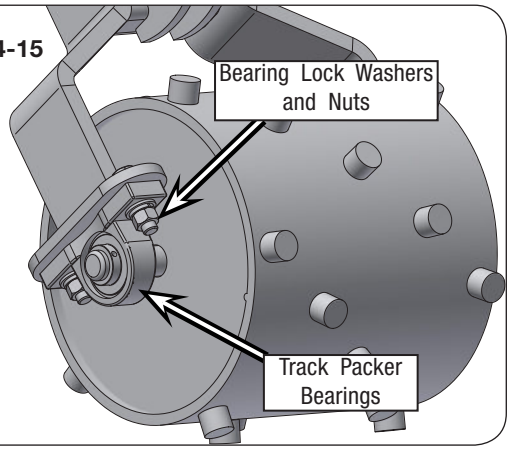


FIG. 4-14

Track Packer Disassembly and Assembly (Continued)

7. Remove the capscrews, lock washers, and nuts from the bearings. (Fig. 4-15)
8. Loosen the bearing set screws and remove the bearings from the roller. (Fig. 4-15)
9. Inspect parts for wear or damage and replace if neccesary.
10. Install bearings onto the roller and leave the bearing set screws loose. (Fig. 4-15)
11. Install the capscrews, flat washers, lock washers, and nuts into the bearings, then tighten the bearing set screws. (Fig. 4-15)
12. Install the pin and capscrew into the fork mount and mounting shank. (Fig. 4-14)
13. Install the tension assembly along with the cap screw and nut on the lower side of the tesion assembly. Install the pins and capscrews on the upper side of the tension assembly. (Fig. 4-13)
14. Install the track packer assembly onto the implement frame along with the cap screws, lock washers, and nuts in the mounting shank. (Fig. 4-12)

FIG. 4-15



Rear Disc Gang Disassembly and Assembly

⚠ WARNING

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 3,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

IMPORTANT

- *Remove only one disc gang from a side at any given time in the following procedure.*

1. Park the implement on a firm, level surface and un-hitch from tractor.
2. Use safe lifting and load holding devices rated at 3,000 lbs. to support the weight of your implement.
3. Remove the U-bolts, nuts and lock washers from the disc gang hangers, then remove the disc gang from the implement frame. (Fig. 4-16)
4. Remove the lock nut and washers from the disc gang rod. (Fig. 4-17)
5. Remove the bumper washer, outer 16” disc, and spacer from the disc rod. (Fig. 4-17)
6. Remove the disc gang hanger and bearing, then remove the carriage bolts, lock nuts and washers from the disc gang hanger bearing. (Fig. 4-18)

FIG. 4-16

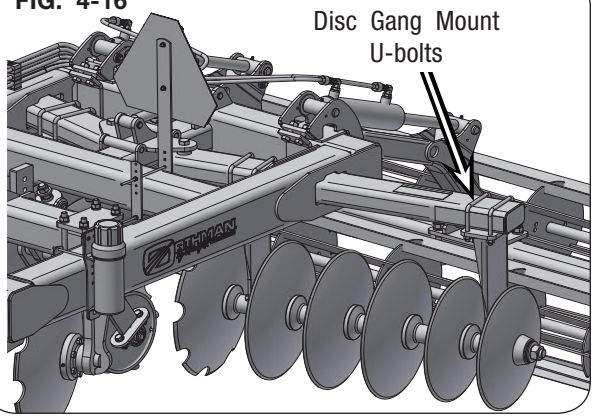


FIG. 4-18

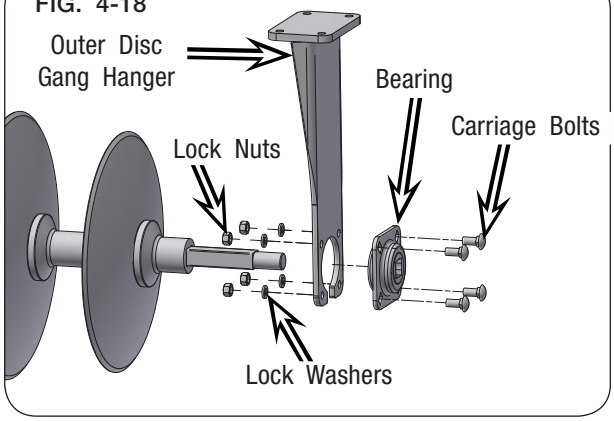
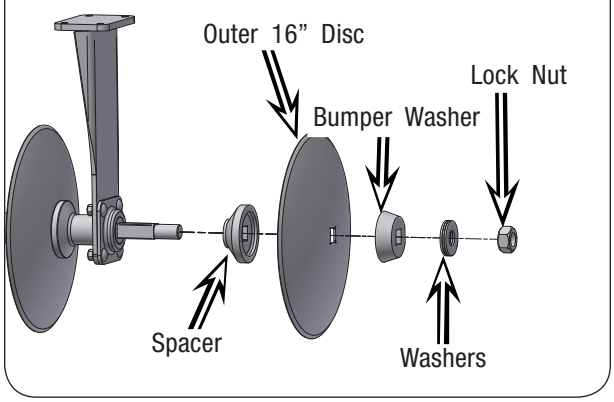


FIG. 4-17



Rear Disc Gang Disassembly and Assembly (Continued)

7. Remove the outer 16” disc, all three 18” discs, and their spacers. (Fig. 4-19)

8. Remove the inner disc gang hanger and bearing, then remove the carriage bolts, lock washers and nuts from the disc gang hanger bearing. (Fig. 4-20)

7. Remove the spacer, notched disc and bumper washer. (Fig. 4-21)

8. Inspect parts for wear or damage and replace if neccesary.

9. Install the spacer, bumper washer and notched disc onto the disc gang rod. (Fig. 4-21)

10. Install the spacer and inner bearing onto the disc gang rod, then intsall the inner disc gang hanger, carriage bolts, lock washers and nuts. (Fig. 4-20)

11. Install the spacers, three 18” discs, and the inner 16” disc. (Fig. 4-19)

12. Install the spacer and outer bearing onto the disc gang rod, then install the outer disc gang hanger, carriage bolts, lock washers, and nuts. (Fig. 4-18)

13. Install the spacer, outer 16” disc, and bumper washer. (Fig. 4-17)

14. Install the washers and lock nut onto the outside of the disc gang rod. (Fig. 4-17)

45. Install the disc gang assembly onto the implement frame. Install the u-bolts, lock washers and nuts. (Fig. 4-16)

FIG. 4-19

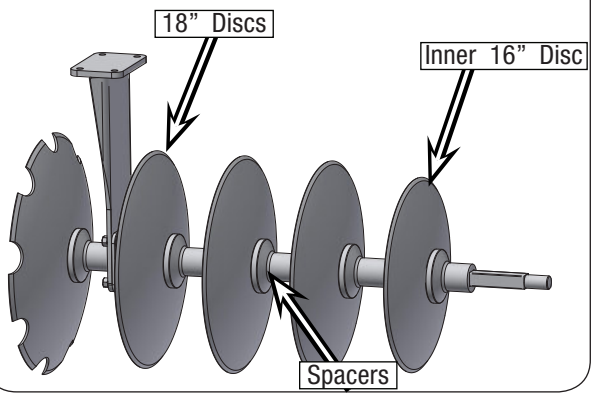


FIG. 4-20

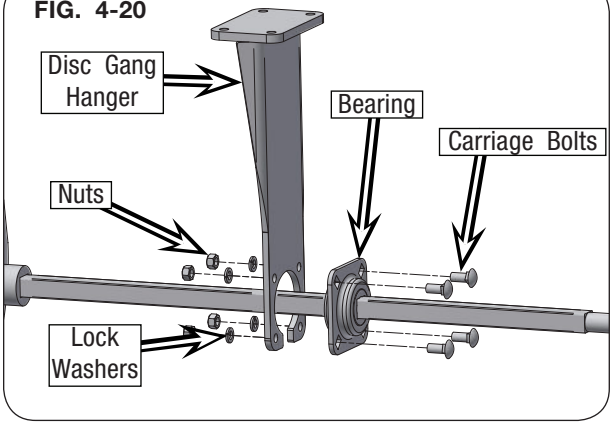
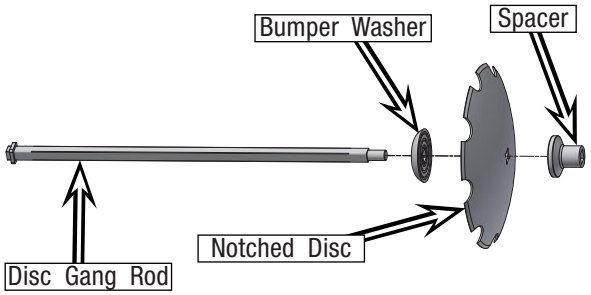


FIG. 4-21



Conditioner Basket Disassembly and Assembly

⚠ WARNING

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 3,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

1. Park the implement on a firm, level surface and un-hitch from tractor.
2. Use safe lifting and load holding devices rated at 3,000 lbs. to support the weight of your implement.
3. Remove conditioner basket assembly from mount arms.
4. Remove U-bolts, lock washers, and nuts from the baskets ends, then remove the basket cross tube. (Fig. 4-22)
5. Remove the basket end capscrews, then remove the basket ends from the conditoner baskets. (Fig. 4-23)
6. Loosen bearing set screws and remove the bearing from the conditioner baskets. (Fig. 4-24)
7. Inspect parts for wear or damage and replace if neccesary.
8. Install the basket bearings and leave the set screws loose. (Fig. 4-24)
9. Install the basket ends and capscrews onto the conditoner baskets. (Fig. 4-23)
10. Install the basket cross tube, u-bolts, lock washers, and nuts. (Fig. 4-22)
11. Tighten the bearing set screws and install the conditioner basket assembly onto the mount arms.

FIG. 4-22

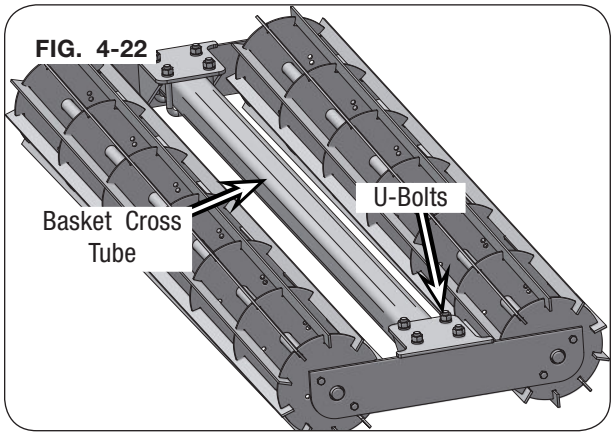


FIG. 4-23

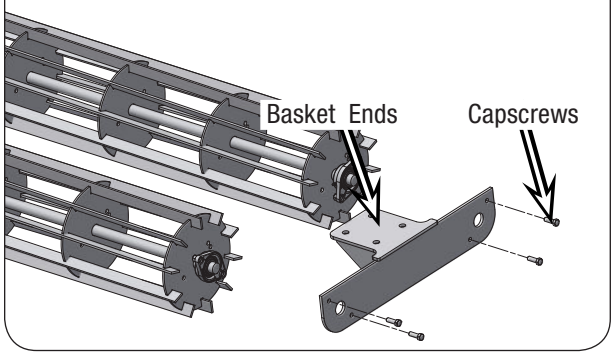
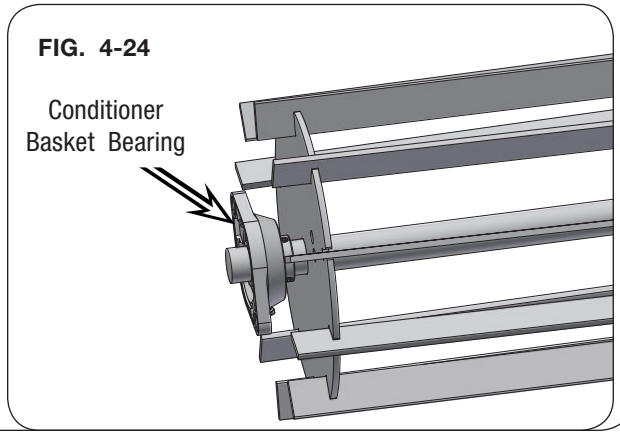


FIG. 4-24



Conditioner Basket Mount Arm Disassembly and Assembly

⚠ WARNING

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 3,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

1. Park the implement on a firm, level surface and un-hitch from tractor.
2. Use safe lifting and load holding devices rated at 3,000 lbs. to support the weight of your implement.
3. Remove the conditioner basket assembly from the mount arms.
3. Remove capscrews, nuts and lock washers from the arm mount and mount strap, then remove the mount arm assembly. (Fig. 4-25)
4. Remove the tension assembly from the mount arm.

NOTE: Spring tension assembly is standard equipment, hydraulic option is available.

5. Remove the capscrews, bushings, lock washer, and nuts from the upper and lower side of the mount arm. (Fig. 4-26)
6. Inspect parts for wear or damage and replace if neccesary.
7. Install the capscrews, bushings, lock washer, and nuts from the upper and lower side of the mount arm. (Fig. 4-26)
8. Install the tension assembly onto the mount arm.
9. Install the mount arm onto the implement frame using the mount plate, capscrews, lock washers, and nuts. (Fig. 4-25)
10. Install the conditioner basket assembly onto the mount arm assemblies.

FIG. 4-25

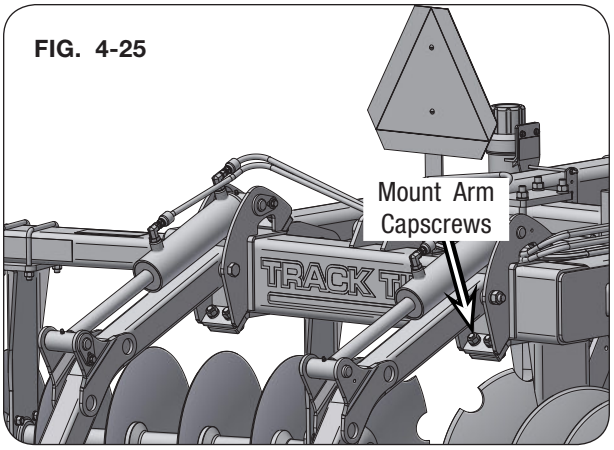
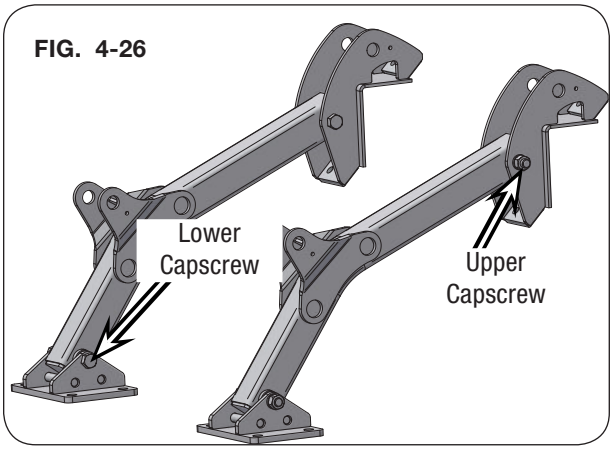


FIG. 4-26



Storage

Your implement is an important investment. Spend a little time to protect it from destructive rust and corrosion. You will be repaid in longer service life and better performance.

Do the following before placing the implement in storage:

1. Remove dirt and trash which could cause rusting.
2. Repaint any chipped or scraped areas.
3. Coat all earth moving surfaces with grease or suitable rust preventative.
4. Inspect for damage or worn parts, replace before next season.
5. Store implement inside, away from livestock.
6. Block up implement to keep tires and ground tools off ground.
7. Replace all worn, torn or faded decals and reflectors.

Trouble Shooting

PROBABLE CAUSE	CORRECTION
CYLINDER WILL NOT HOLD IN POSITION	
Seals leaking internally.	Remove and replace seal kit.
TILLAGE DEPTH NOT CORRECT	
Guide Wheel not properly adjusted.	Adjust Guide Wheel up for deeper tillage.
	Adjust Guide Wheel down for shallower tillage.
IMPLEMENT LEAVING TOO LARGE OF A BERM	
Conditioner Baskets not properly adjusted.	Adjust Conditioner Basket until desired result is achieved.
PIVOT TRACK SIDEWALL NOT BEING BROKEN	
Sidewall Buster Disc not properly adjusted.	Adjust Sidewall Buster Disc in or out until issue is resolved.
MACHINE WILL NOT OPERATE PROPERLY WITH TRACTOR HYDRAULICS	
Hoses are not plugged into the tractor properly.	Refer to SET UP section and tractor operator manual.
GREASE ZERK WILL NOT TAKE GREASE	
Grease zerk is plugged.	Remove and replace grease zerk.
The pin is frozen.	Remove and replace the pin.

Complete Torque Chart

Capscrews - Grade 5

NOTE:

- Grade 5 capscrews can be identified by three radial dashes on the head.
- For wheel torque requirements, refer to Wheels and Tires.
- Tighten U-bolts evenly and equally to have the same number of threads exposed on each end.

SIZE	FOOT POUNDS	NEWTON METERS
1/4-20 1/4-28	8-10 9-11	11-13 12-15
5/16-18 5/16-24	15-17 17-19	20-23 23-26
3/8-16 3/8-24	25-28 28-31	34-38 38-42
7/16-14 7/16-20	40-45 45-50	54-61 61-68
1/2-13 1/2-20	62-68 68-75	84-92 92-102
9/16-12 9/16-18	90-98 100-110	122-133 134-148
5/8-11 5/8-18	120-135 124-137	162-183 168-186
3/4-10 3/4-16	200-220 210-230	270-300 285-310
7/8-9 7/8-14	330-350 360-380	425-475 460-515
1-8 1-14	500-525 540-560	675-710 730-760
1 1/8-7 1 1/8-12	600-635 665-700	815-860 920-950
1 1/4-7 1 1/4-12	850-895 940-990	1150-1215 1275-1340
1 3/8-6 1 3/8-12	1125-1175 1280-1335	1525-1590 1735-1810
1 1/2-6 1 1/2-12	1500-1560 1685-1755	2035-2115 2285-2380

IMPORTANT

- *Follow these torque recommendations except when specified in text.*

Complete Torque Chart (continued)

Capscrews - Grade 8

NOTE:

- Grade 8 capscrews can be identified by six radial dashes on the head.
- For wheel torque requirements, refer to Wheels and Tires.
- Tighten U-bolts evenly and equally to have the same number of threads exposed on each end.

SIZE	FOOT POUNDS	NEWTON METERS
5/16-18 5/16-24	20-22 21-23	27-30 28-31
3/8-16 3/8-24	35-39 36-41	47-53 49-55
7/16-14 7/16-20	54-58 55-60	73-78 75-80
1/2-13 1/2-20	82-88 94-99	110-120 125-135
9/16-12 9/16-18	127-134 147-155	170-180 199-210
5/8-11 5/8-18	160-170 165-175	215-230 225-235
3/4-10 3/4-16	280-295 330-365	380-400 445-495
7/8-9 7/8-14	410-430 420-440	555-580 570-595
1-8 1-14	630-650 680-700	850-880 920-950
1 1/8-7 1 1/8-12	900-930 930-950	1220-1260 1260-1290
1 1/4-7 1 1/4-12	1250-1300 1280-1320	1695-1760 1735-1790

IMPORTANT

- *Follow these torque recommendations except when specified in text.*

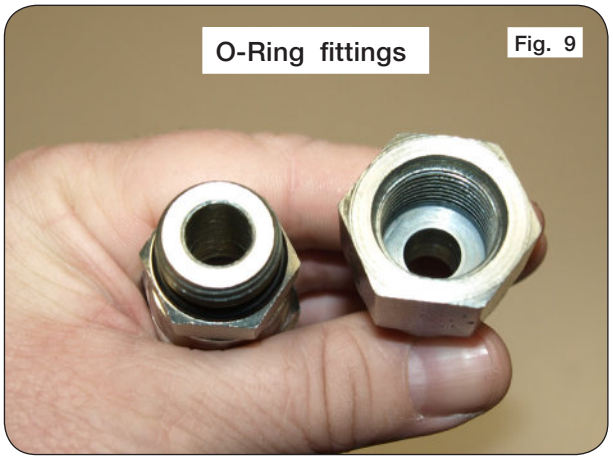
Hydraulic Fittings – Torque and Installation

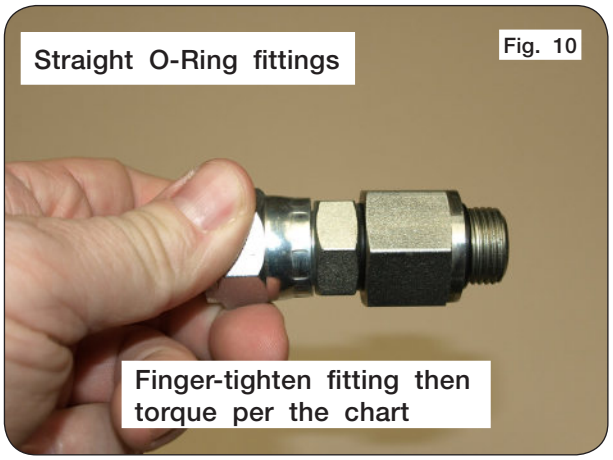
Tightening O-Ring Fittings

1. Inspect components for damage or contamination. Do not connect any other type of fitting to an O-ring fitting.
2. For adjustable fittings, insure the jam nut and washer are fully backed up.
3. Lubricate the O-ring and threads on the fitting.
4. Turn the fitting into the port until it is finger tight.
5. For adjustable fittings, set in the desired position.
6. Using a wrench, torque the fitting to the value in the below table. For adjustable fittings the jam nut will be tightened.

Note: Never use a power tool to install a fitting.

Dash Size	Thread Size	Straight Stud Torque (Ft-Lbs)	Adjustable Stud Torque (Ft-Lbs)
-5	1/2-20	14-19	10-14
-6	9/16-18	18-24	12-16
-8	3/4-16	27-43	20-30
-10	7/8-14	36-48	30-36
-12	1-1/16-12	65-75	44-54
-14	1-3/16-12	75-99	53-70
-16	1-5/16-12	85-123	59-80
-20	1-5/8”-12	115-161	75-100
-24	1-7/8”-12	125-170	105-125





Hydraulic Fittings – Torque and Installation

Tightening JIC Fittings

1. Inspect all components for damage or contamination. Do not connect any other type of fitting to a JIC fitting.

2. Lubricate the threads.

3. Turn the fitting into the port until it bottoms out.

4. Use one wrench on the fixed hex on the hose to prevent twisting and a second on the swivel. Tighten the fitting another 60 degrees (or one flat)

Note: Never use a power tool to install a fitting

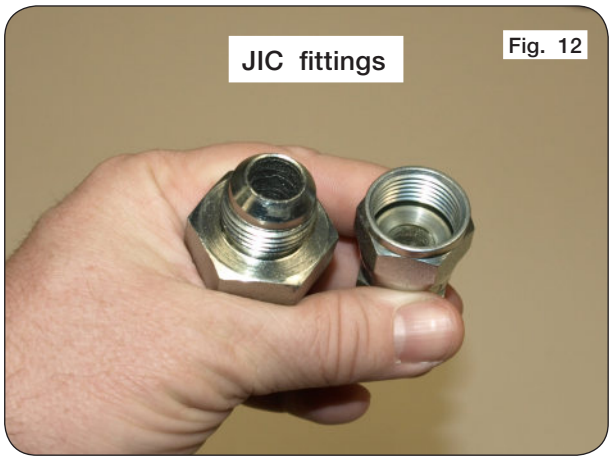


Fig. 12

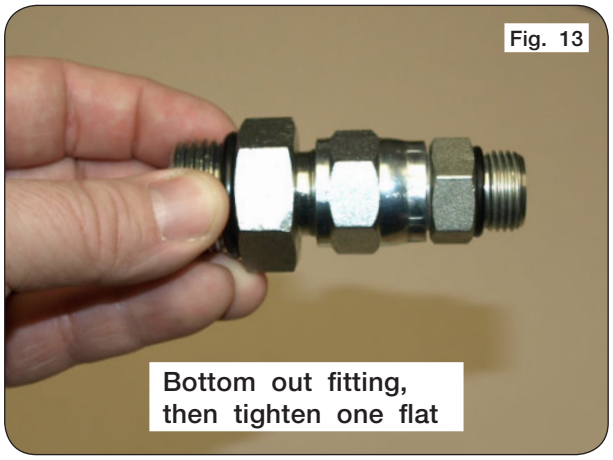


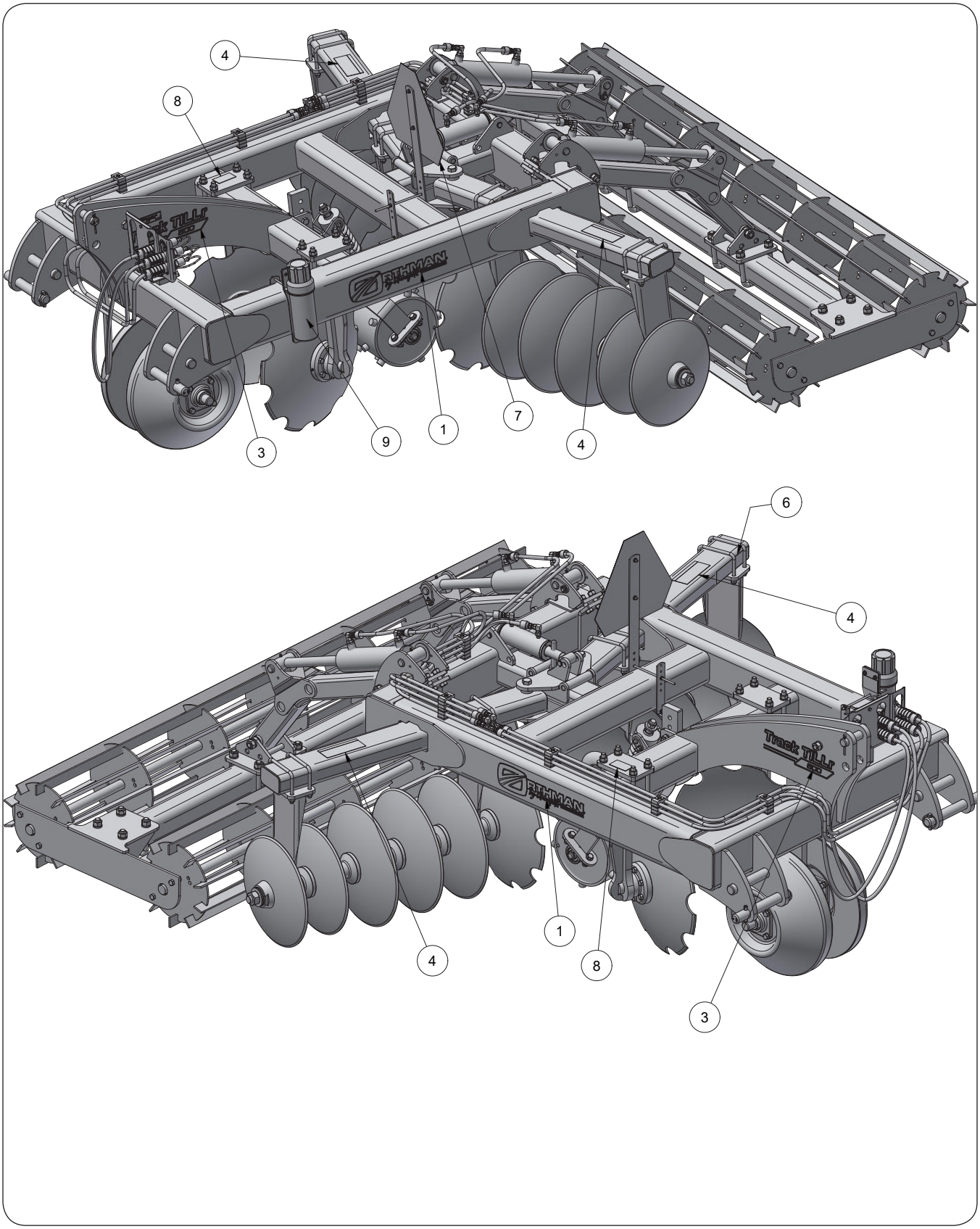
Fig. 13

Notes

SECTION V
Parts

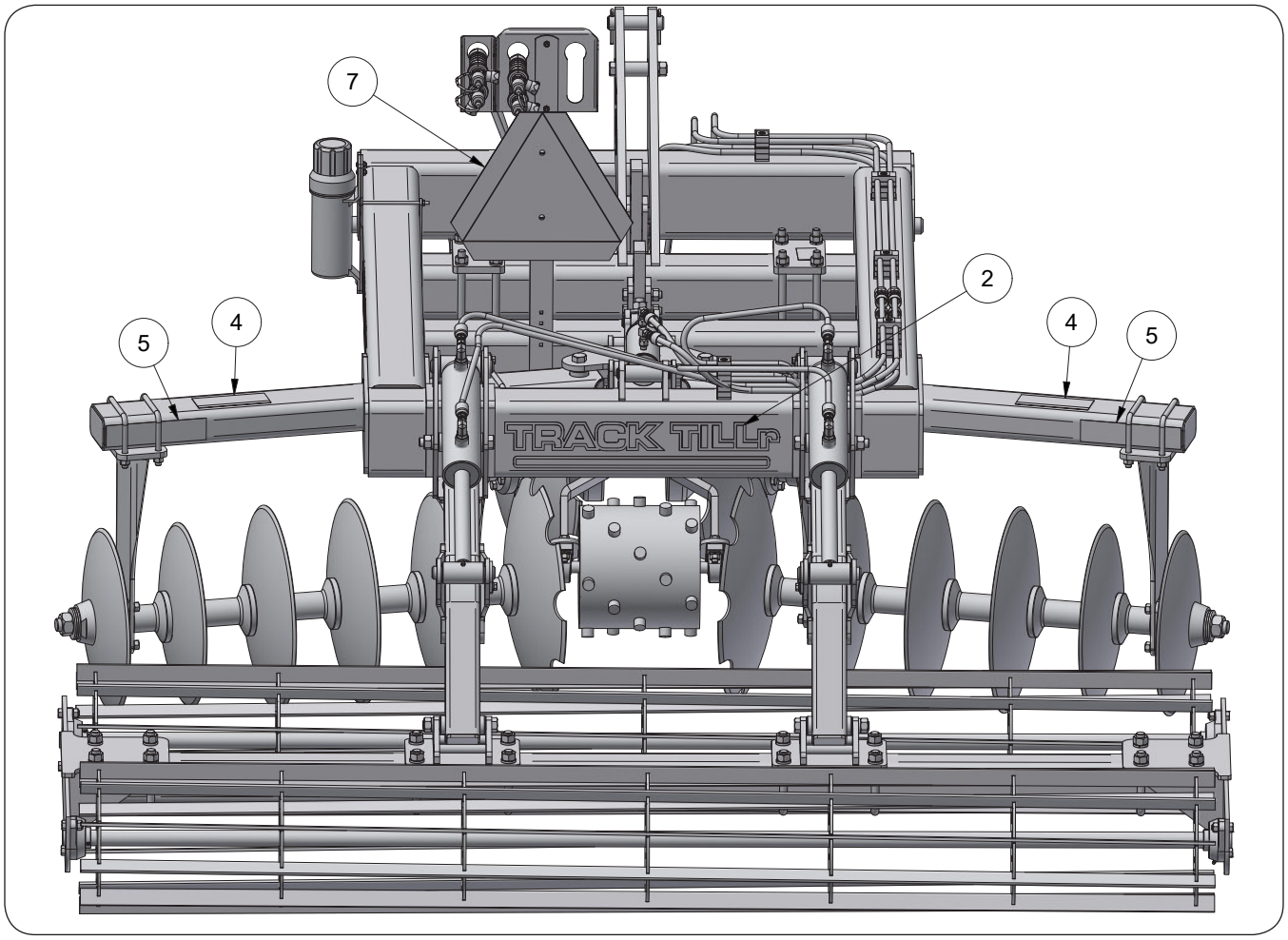
Decals

Please visit www.unverferth.com/parts/ for the most current parts listing.



Decals

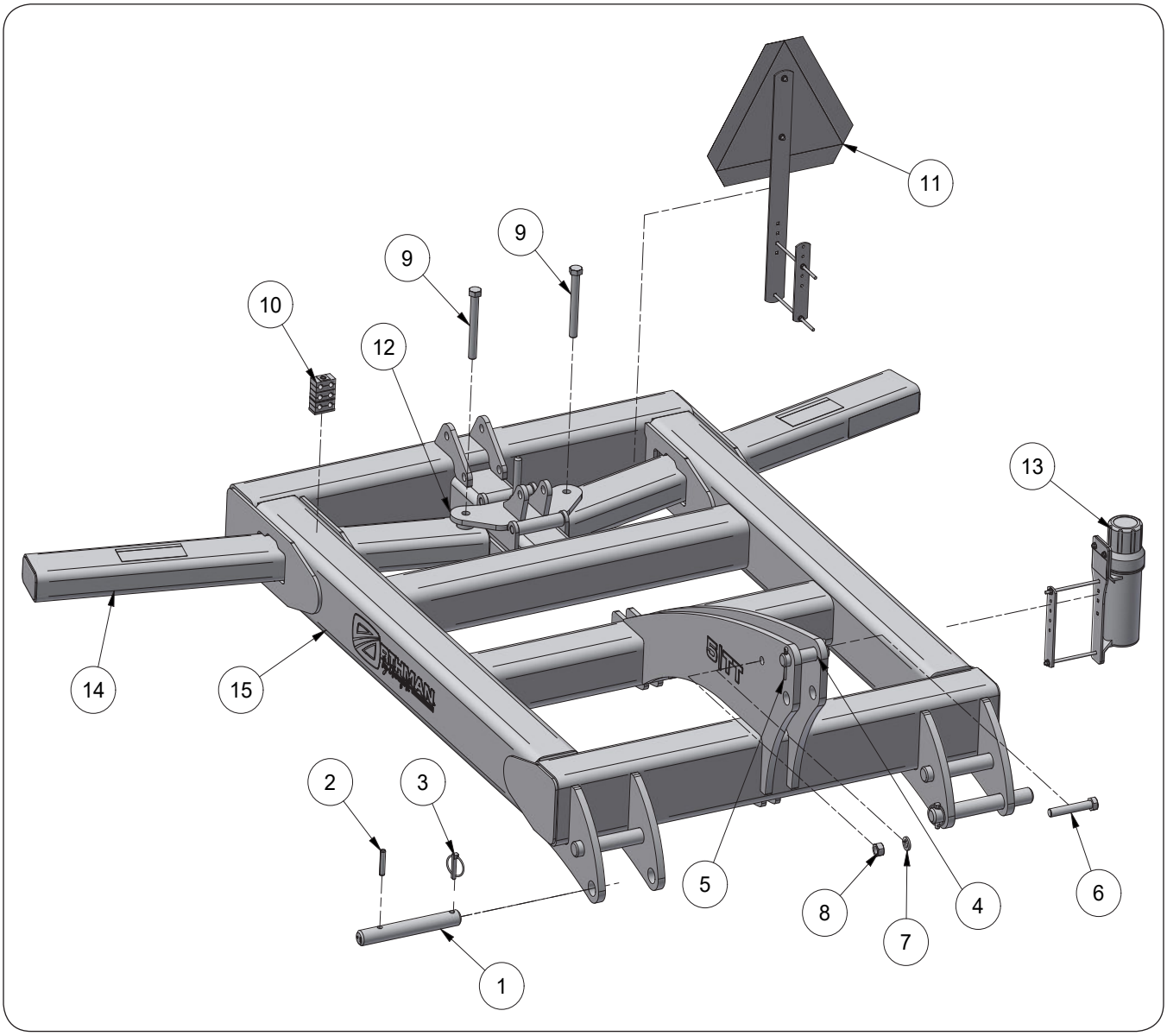
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L153-430	Decal, Orthman by Unverferth	2	
2	L153-478	Decal, Track Tillr	1	
3	L153-1011	Decal, Track Tillr 500	2	
4	L153-044	Decal, Important, Check List	2	
5	L153-173	Decal, Red Reflective	2	
6	L153-172	Decal, Amber Reflective	1	
7	L153-084	SMV Sign	1	
8	L153-045	Decal, Caution, Sharp Edges	1	
9	L153-101	Decal, Important, Owners Manual	1	

Main Frame Components

Please visit www.unverferth.com/parts/ for the most current parts listing.



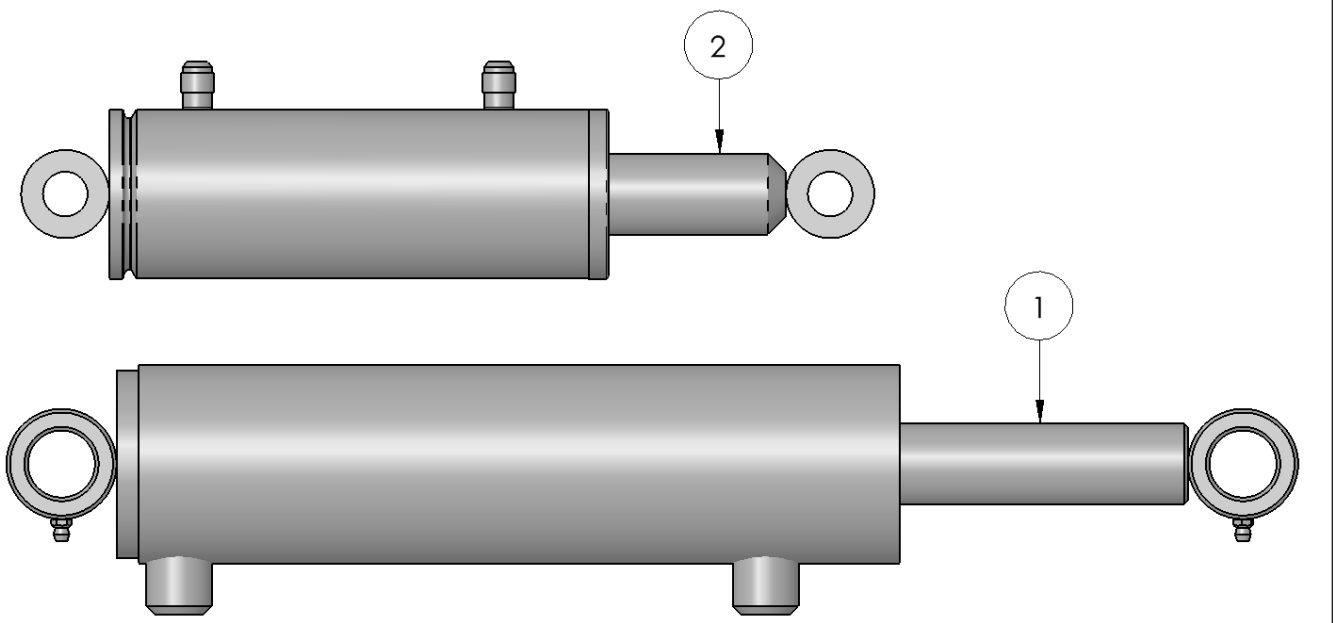
Main Frame Components

Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L302-592	Lower Hitch Pin	1	
2	L104-102	Roll Pin 1/2" x 2 1/2"	1	
3	L104-036	Lynch Pin	1	
4	L302-591	Center Mast Pin	1	
5	L104-022	Cotter Pin	2	
6	L100-164	Capscrew 3/4"-10 UNC x 4 1/2" Grade 5	1	
7	L108-022	Lock Washer 3/4"	1	
8	L102-009	Hex Nut 3/4"-10 UNC Grade 5	1	
9	L100-169	Capscrew 3/4"-10 UNC x 6 1/2" A325	2	
10	L152-679	Hydraulic Line Clamp	5	
11	L635-413	SMV Sign	1	
12	L369-393	Disc Gang Slide	1	
13	L600-591	Manual Enclosure	1	
14	L369-320	Disc Gang Mount	2	
15	L369-451	Track Tillr Frame	1	

Cylinders

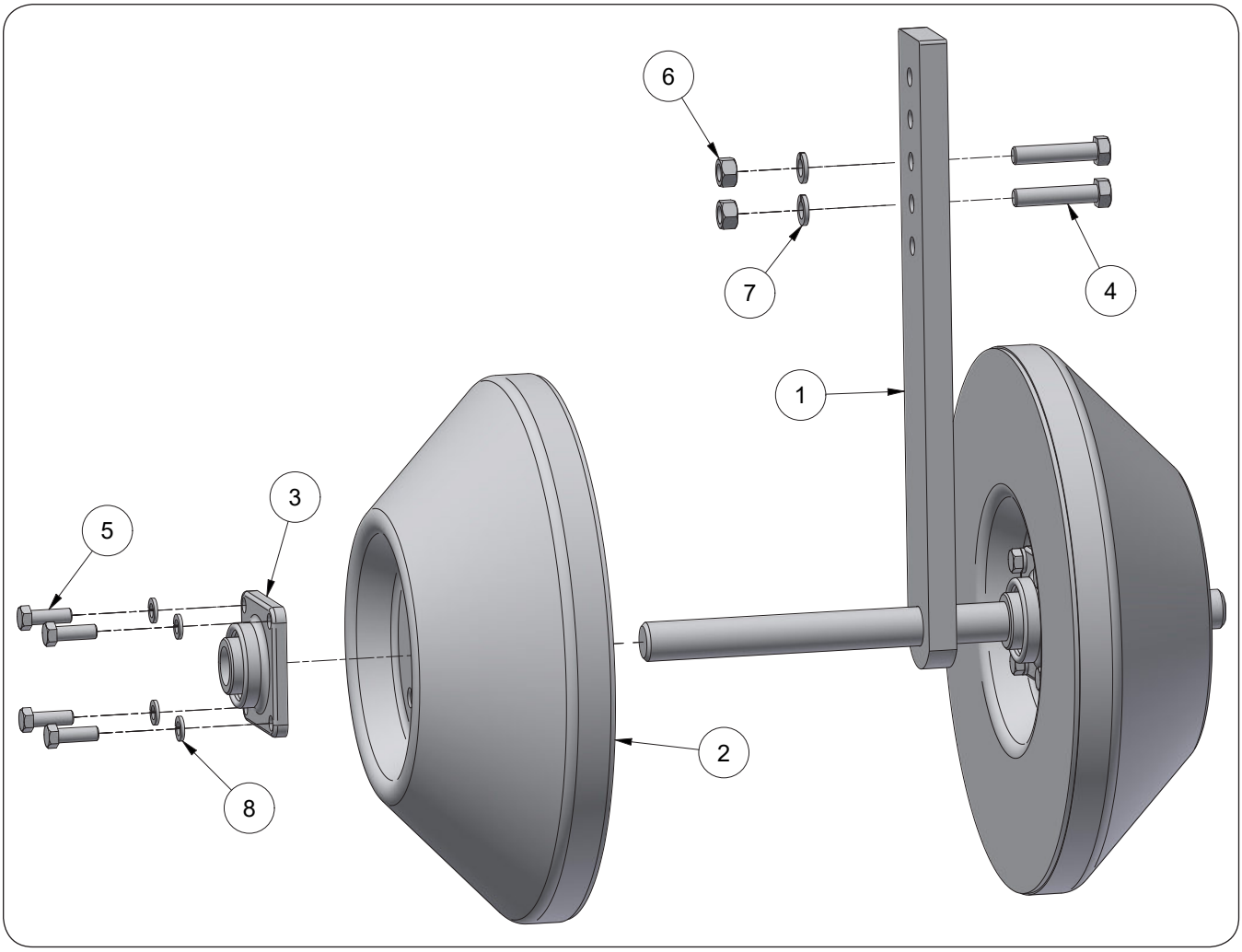
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L194-333	Hydraulic Cylinder 3" x 8"	1	(Optional)
	L194-439	Seal Kit	-	
2	L194-593	Hydraulic Cylinder 2 1/2" x 4"	2	(Optional)
	L194-602	Seal Kit	-	

Guide Wheel Components

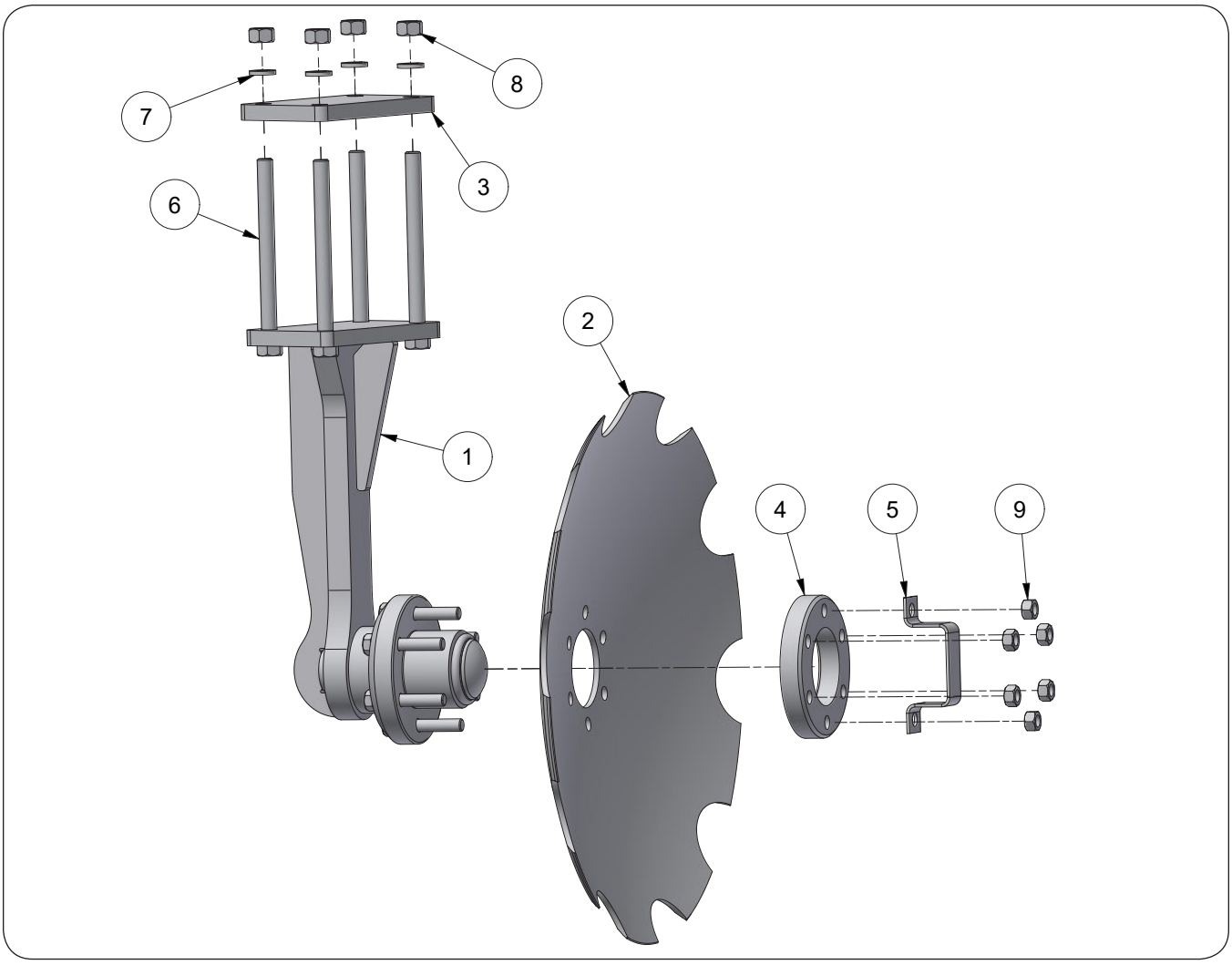
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L369-351	Guide Wheel Mounting Shank	1	
2	L369-358	Guide Wheel	2	
3	L120-293	Bearings	4	
4	L100-138	Capscrew 5/8"-11UNC x 3" Grade 5	2	
5	L100-116	Capscrew 1/2"-13UNC x 1 1/2" Grade 5	16	
6	L108-020	Lock Washer 1/2"	16	
7	L108-021	Lock Washer 5/8"	2	
8	L102-008	Hex Nut 5/8"-11UNC Grade 5	2	

Sidewall Buster Components

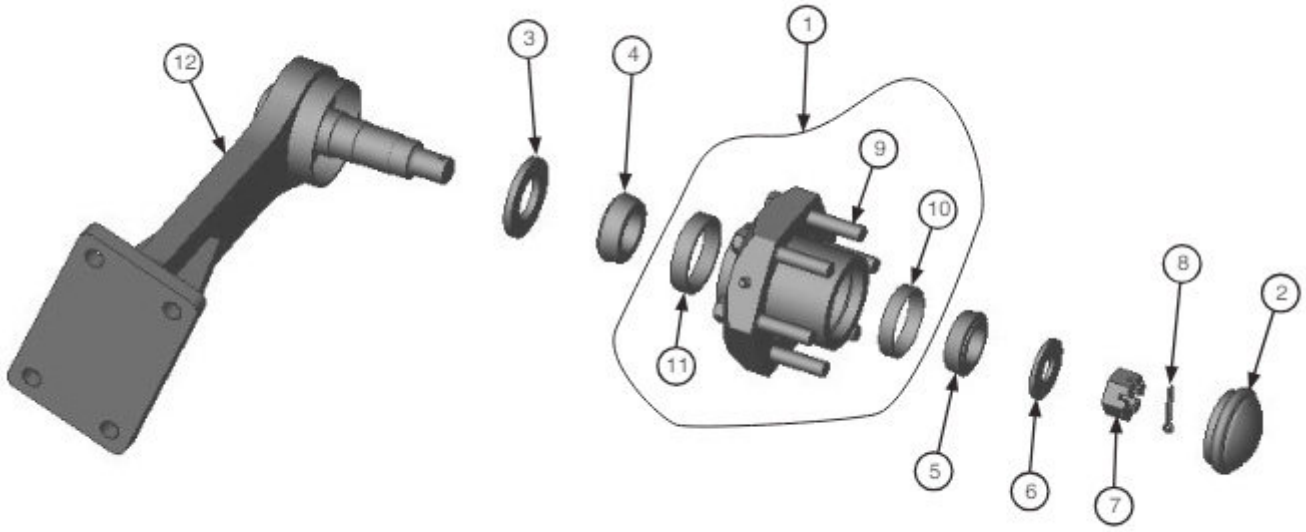
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L369-315	LH Spindle Hub Assembly	1	
	L369-314	RH Spindle Hub Assembly	1	
2	L311-343	Notched Disc	2	
3	L369-319	Mounting Plate	2	
4	L311-335	Hub Plate	2	
5	L311-347	Hub Cap Retainer	2	
6	L100-147	Capscrew 5/8"-11UNC x 7 1/2" Grade 5	8	
7	L108-021	Lock Washer 5/8"	8	
8	L102-008	Hex Nut 5/8"-11UNC Grade 5	8	
9	L102-028	Hex Nut 1/2"-13UNC Grade 5	12	

Sidewall Buster Hub and Shank Components

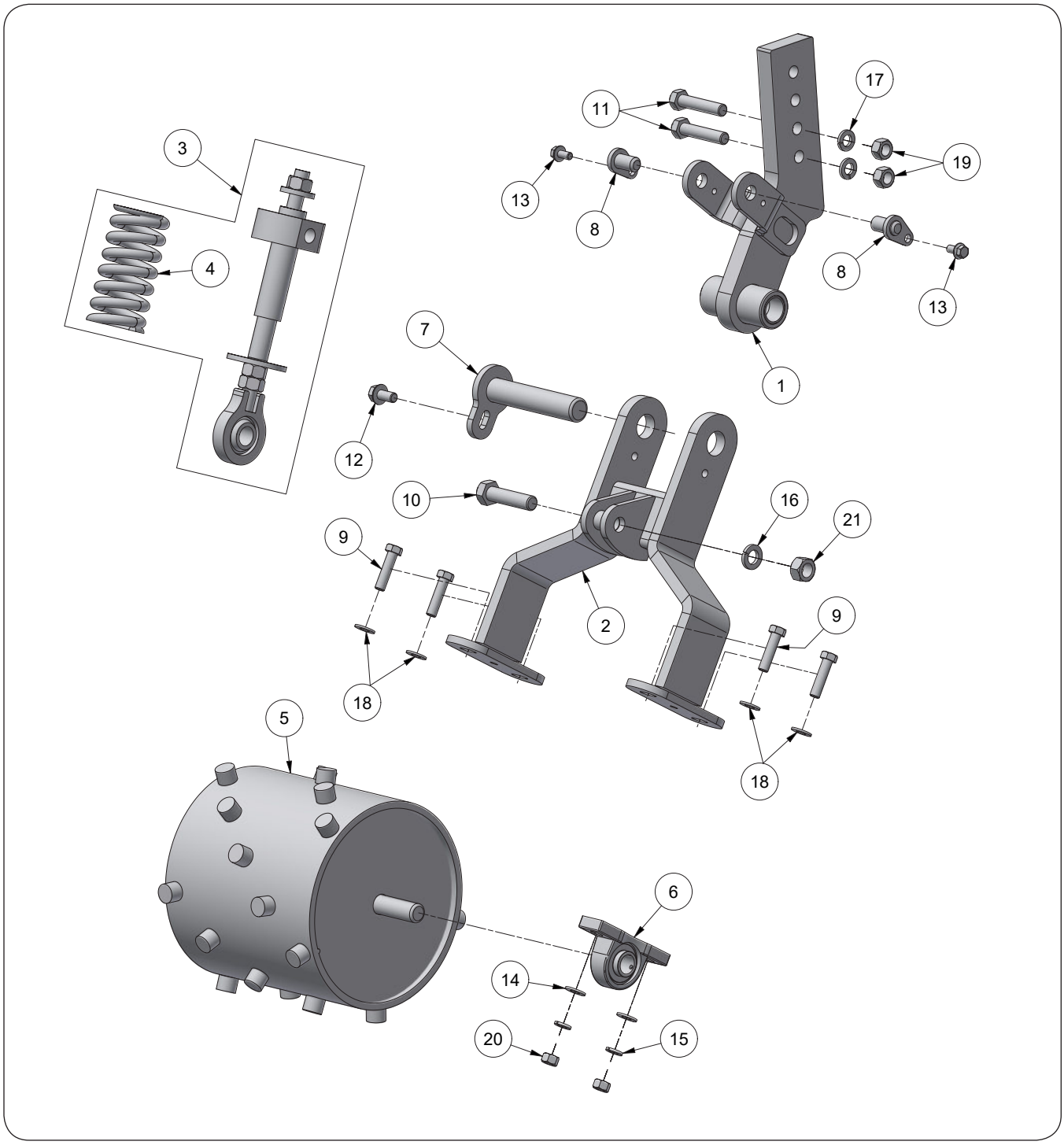
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L311-333	Hub	2	Includes Items 9-11
2	L302-206	Dust Cap	2	
3	L150-006	Seal	2	
4	L120-017	Bearing	2	
5	L120-018	Bearing	2	
6	L108-031	Flat Washer 7/8"	2	
7	L102-036	Castle Nut 7/8"	2	
8	L104-024	Cotter Pin	12	
9	L100-122	Capscrew 1/2" x 3"	2	
10	L120-015	Bearing Race	1	
11	L120-044	Bearing Race	1	
12	L369-316	RH Shank	1	
	L369-317	LH Shank	1	

Track Packer Components

Please visit www.unverferth.com/parts/ for the most current parts listing.



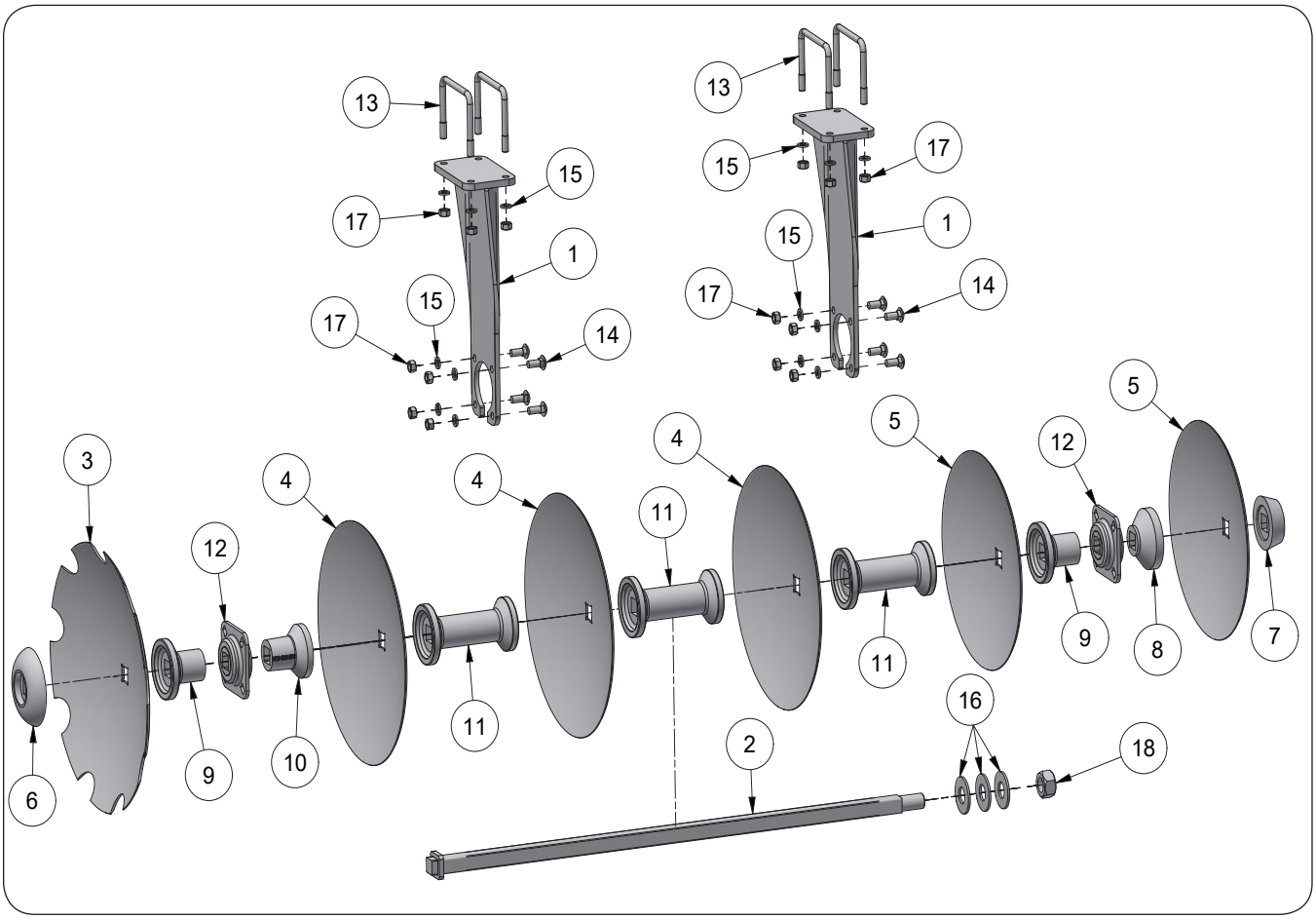
Track Packer Components

Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L369-331	Mounting Shank	1	
2	L369-332	Mounting Fork	1	
3	L356-834	Tension Assembly	1	
4	L148-105	Spring	1	
5	L369-333	Roller	1	
6	L120-217	Bearing	2	
7	L369-334	Pin	1	
8	L356-847	Pin	2	
9	L100-118	Capscrew 1/2"-13UNC x 2" Grade 5	4	
10	L100-159	Capscrew 3/4"-10UNC x 2 3/4" Grade 5	1	
11	L100-138	Capscrew 5/8"-11UNC x 3" Grade 5	2	
12	L100-305	Capscrew 1/2"-13UNC x 1" Grade 8	1	
13	L100-629	Capscrew 3/8" x 3/4" Grade 5	2	
14	L108-011	Flat Washer 1/2"	4	
15	L108-020	Lock Washer 1/2"	4	
16	L108-022	Lock Washer 3/4"	1	
17	L108-021	Lock Washer 5/8"	2	
18	L108-011	Flat Washer 3/4"	4	
19	L102-008	Hex Nut 5/8"-11UNC Grade 5	2	
20	L102-007	Hex Nut 1/2"-13UNC Grade 5	4	
21	L102-009	Hex Nut 3/4"-10UNC Grade 5	1	

Disc Gang Components

Please visit www.unverferth.com/parts/ for the most current parts listing.



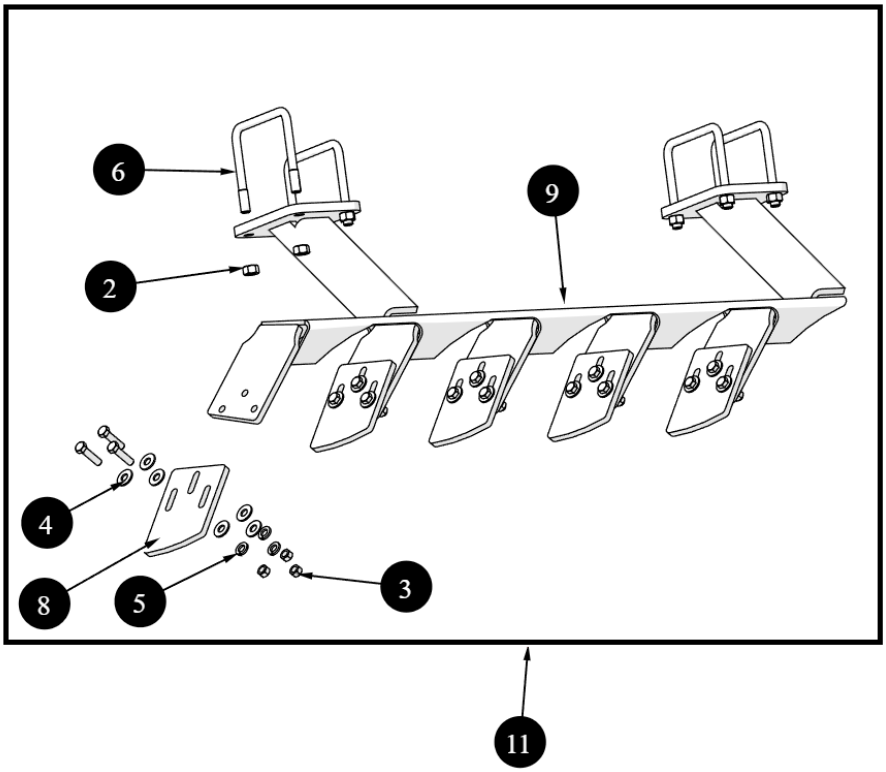
Disc Gang Components

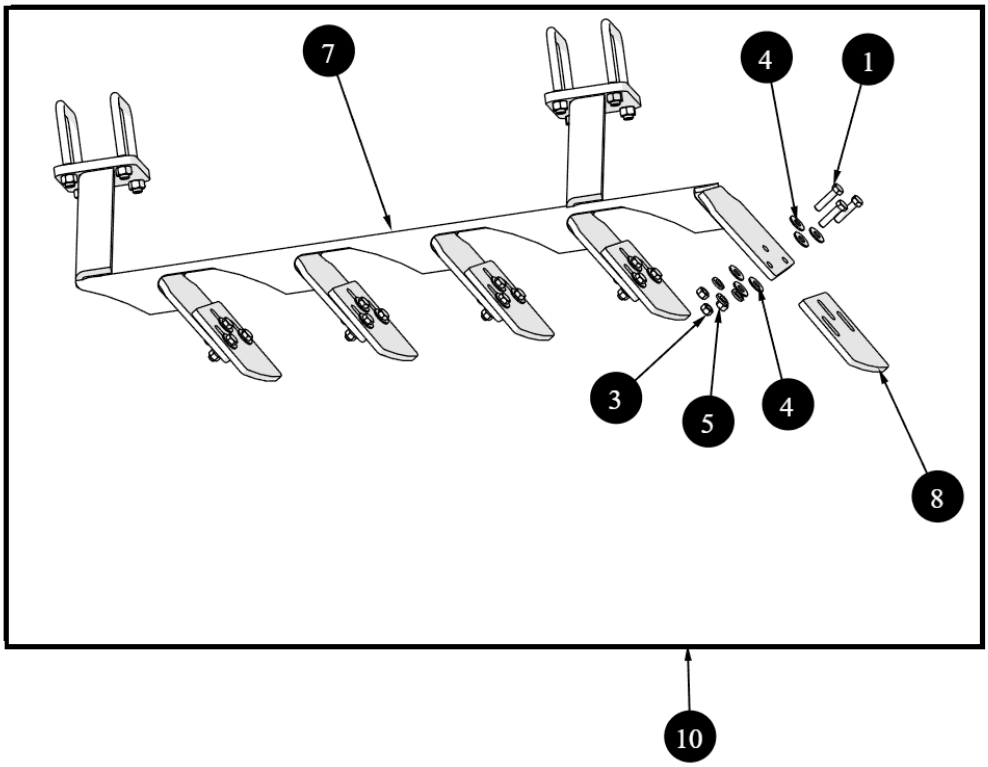
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L369-370	Disc Gang Hanger	4	
2	L369-375	Disc Gang Rod	2	
3	166-078	Notched Disc	2	
4	L166-077	18" Disc	6	
5	L166-076	16" Disc	4	
6	L166-072	Bumper Washer	2	
7	L166-074	Bumper Washer	2	
8	L166-073	Spacer	2	
9	L166-071	Spacer	6	
10	L166-091	Spacer	2	
11	L166-070	Spacer	6	
12	L120-292	Bearing	4	
13	L315-208	U-Bolt 1/2" x 3" x 5"	8	
14	L100-012	Carriage Bolt 1/2"-13UNC x 1 1/4" Grade 5	16	
15	L180-020	Lock Washer 1/2"	32	
16	L108-076	Flat Washer 1 1/8"	6	
17	L102-007	Hex Nut 1/2"-13UNC Grade 5	32	
18	L102-206	Hex Nut 1 1/8" Grade 5	2	

Disc Gang Scraper Components

Please visit www.unverferth.com/parts/ for the most current parts listing.





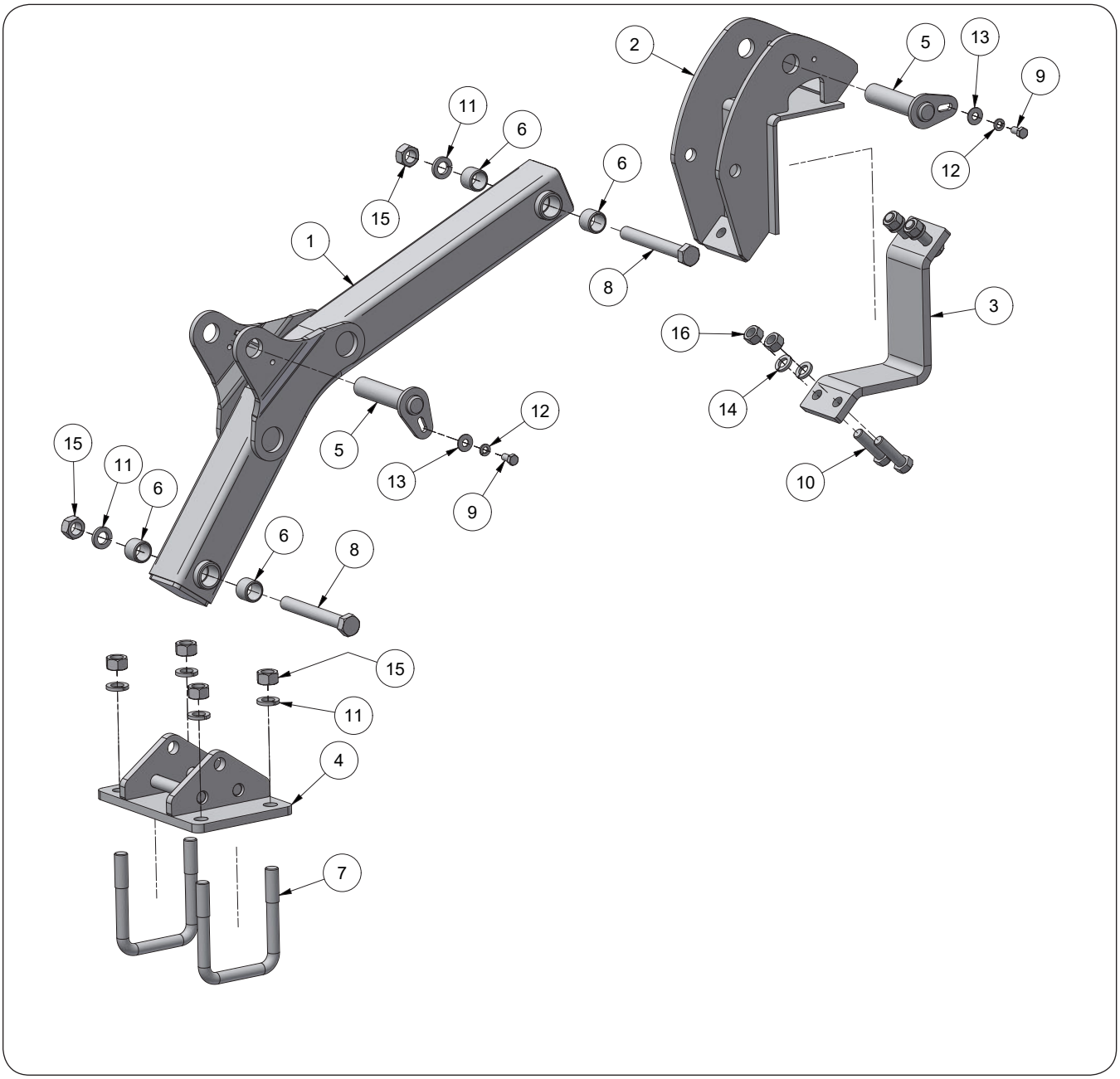
Disc Gang Scraper Components

Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	L100-109	Capscrew 3/8"-16UNC x 1 1/2" Grade 5	30	
2	L102-007	Nut 1/2"-13UNC Grade 5	16	
3	L102-134	Nut 3/8"-16UNC	30	
4	L108-007	Flat Washer 3/8"	60	
5	L108-019	Lock Washer 7/16"	30	
6	L315-208	U-Bolt 1/2" x 3" x 5"	8	
7	L369-470	Disc Scraper Mount RH	1	
8	L369-472	Disc Scraper	10	
9	L369-477	Disc Scraper Mount LH	1	
10	L369-476	Disc Gang Scraper Assembly RH	1	
11	L369-478	Disc Gang Scraper Assembly LH	1	

Conditioner Basket Mount Arm Components

Please visit www.unverferth.com/parts/ for the most current parts listing.



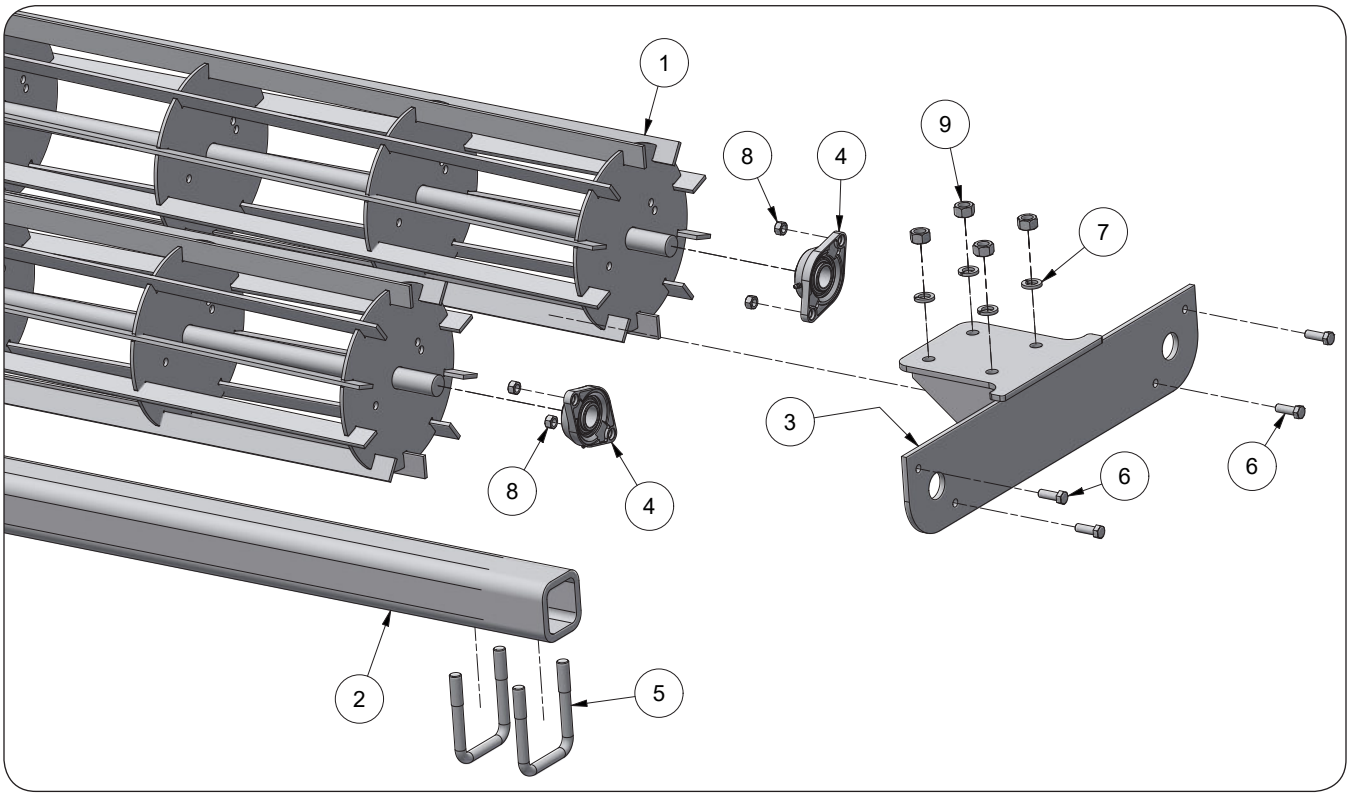
Conditioner Basket Mount Arm Components

Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	L369-385	Arm	2	
2	L369-380	Arm Mount	2	
3	L302-148	Mounting Strap	2	
4	L386-771	Basket Mount Plate	2	
5	L369-495	Pin	4	
6	L134-138	Bushing	8	
7	L150-091	U-Bolt 3/4" x 4" x 4"	4	
8	L100-167	Capscrew 3/4"-10UNC x 6" Grade 5	4	
9	L100-105	Capscrew 3/8" x 3/4" Grade 5	2	
10	L100-134	Capscrew 5/8"-11UNC x 2 1/4" Grade 5	4	
11	L108-022	Lock Washer 3/4"	12	
12	L108-018	Lock Washer	4	
13	L108-007	Flat Washer	4	
14	L108-021	Lock Washer 5/8"	8	
15	L102-009	Hex Nut 3/4"-10UNC Grade 5	12	
16	L102-008	Hex Nut 5/8"-11UNC Grade 5	8	
17	L386-781	Spring Tension Assembly	2	Not Shown Includes Items 18-23
18	L386-786	Clevis	2	Includes Pin
19	L356-864	Bushing	2	
20	L356-866	Mount	2	
21	L102-018	Jam Nut	2	
22	L386-782	Threaded Rod 3/4"	2	
23	L361-003	Spring	2	

Conditioner Basket Components

Please visit www.unverferth.com/parts/ for the most current parts listing.



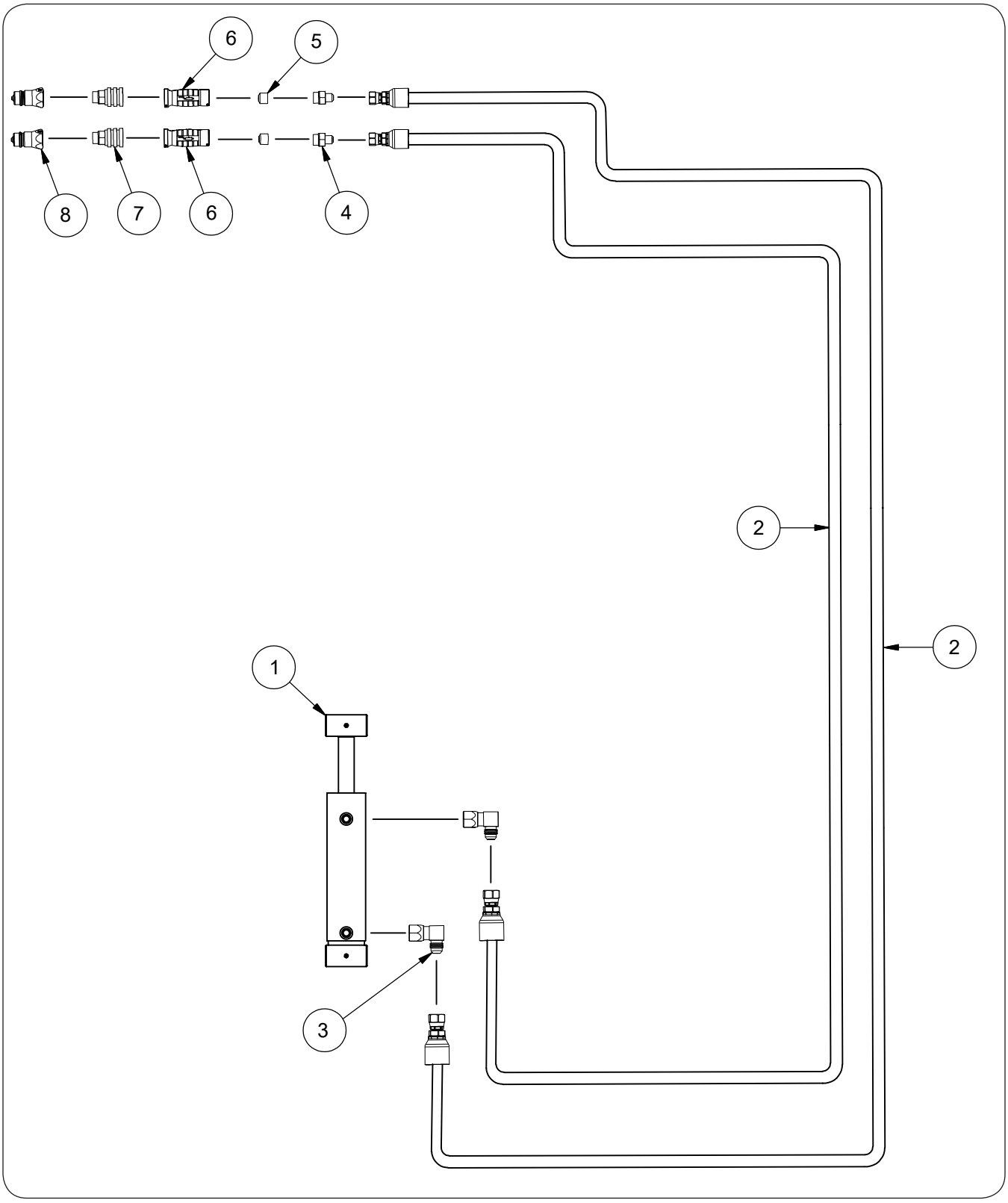
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L386-905	Rolling Basket	2	
2	L386-914	Rolling Basket Cross Tube	1	
3	L386-908	Basket Ends	2	
4	L120-295	Bearing	4	
5	L150-091	U-Bolt 3/4" x 4" x 4"	4	
6	L100-116	Capscrew 1/2"-13UNC x 1 1/2" Grade 5	8	
7	L108-022	Lock Washer 3/4"	8	
8	L102-028	Lock Nut 1/2"-13UNC Grade 5	8	
9	L102-009	Hex Nut 3/4"-10UNC Grade 5	8	

Notes

Please visit www.unverferth.com/parts/ for the most current parts listing.

Hydraulic Hoses and Fittings - Rear Disc Gang Option

Please visit www.unverferth.com/parts/ for the most current parts listing.



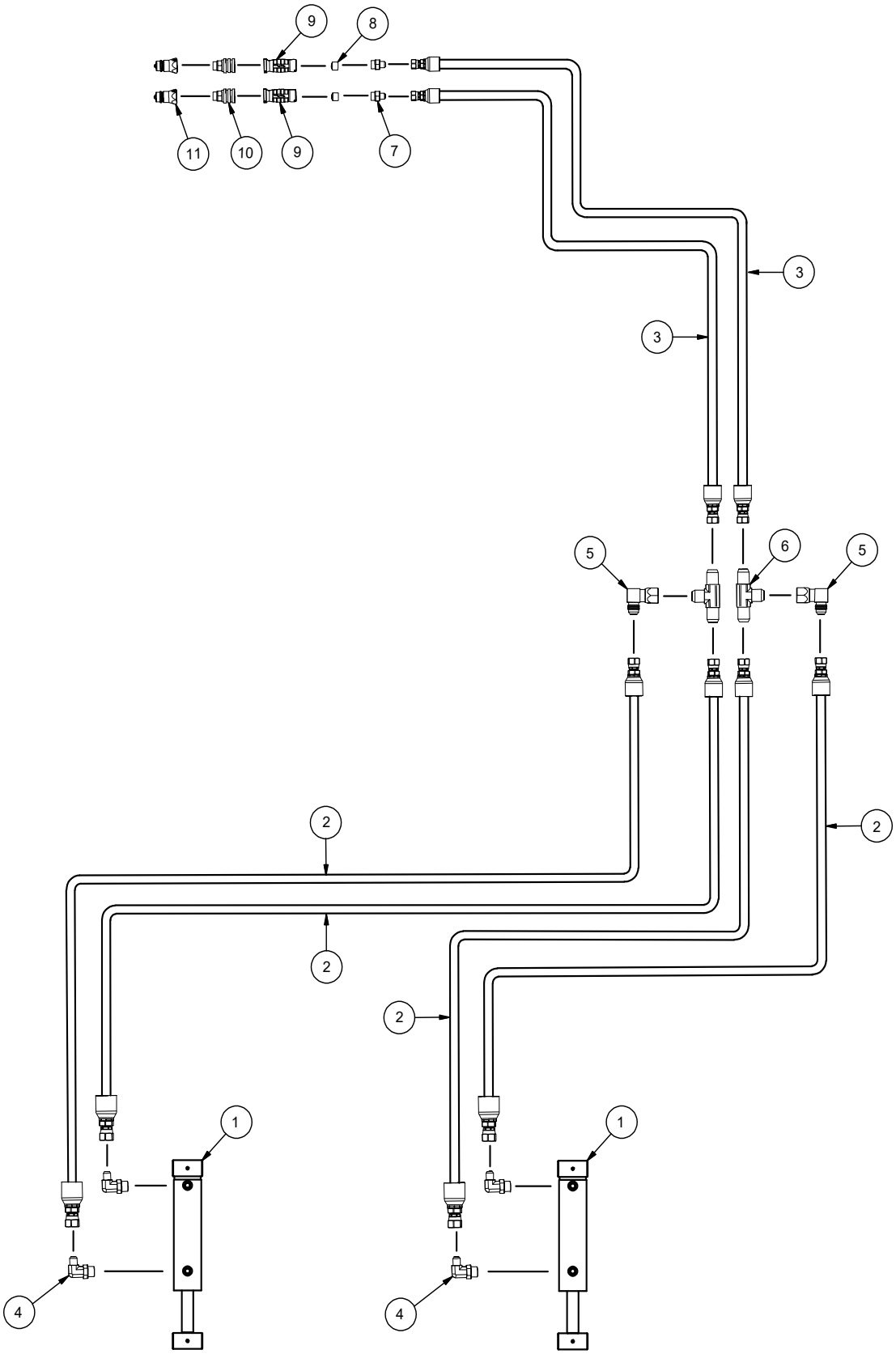
Hydraulic Hoses and Fittings - Rear Disc Gang Option

Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L194-593	Hydraulic Cylinder	1	
2	L196-454	Hydaulic Hose	2	
3	L198-058	90 Degree Fitting	2	
4	L340-520	Adapter	2	
5	L340-070	Restrictor	2	
6	L198-226	Hose Grip	1	
	L198-224	Hose Grip	1	
7	L198-313	Adapter	2	
8	L140-092	ISO Tlp 3/4”-16	2	

Hydraulic Hoses and Fittings - Conditioner Basket Option

Please visit www.unverferth.com/parts/ for the most current parts listing.



Hydraulic Hoses and Fittings - Conditioner Basket Option

Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	L194-333	Hydraulic Cylinder	2	
2	L196-882	Hydraulic Hose	4	
3	L196-141	Hydrauliuc Hose	2	
4	L198-064	90 Degree Fitting 3/4"-16 Male - 9/16"-18 Male	4	
5	L198-058	90 Degree Fitting	2	
6	L198-203	T Fitting	2	
7	L340-520	Adapter	2	
8	L340-070	Restrictor	2	
9	L198-226	Hose Grip	1	
	L198-224	Hose Grip	1	
10	L198-313	Adapter	2	
11	L140-092	ISO Tlp 3/4"-16	2	

Unverferth
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