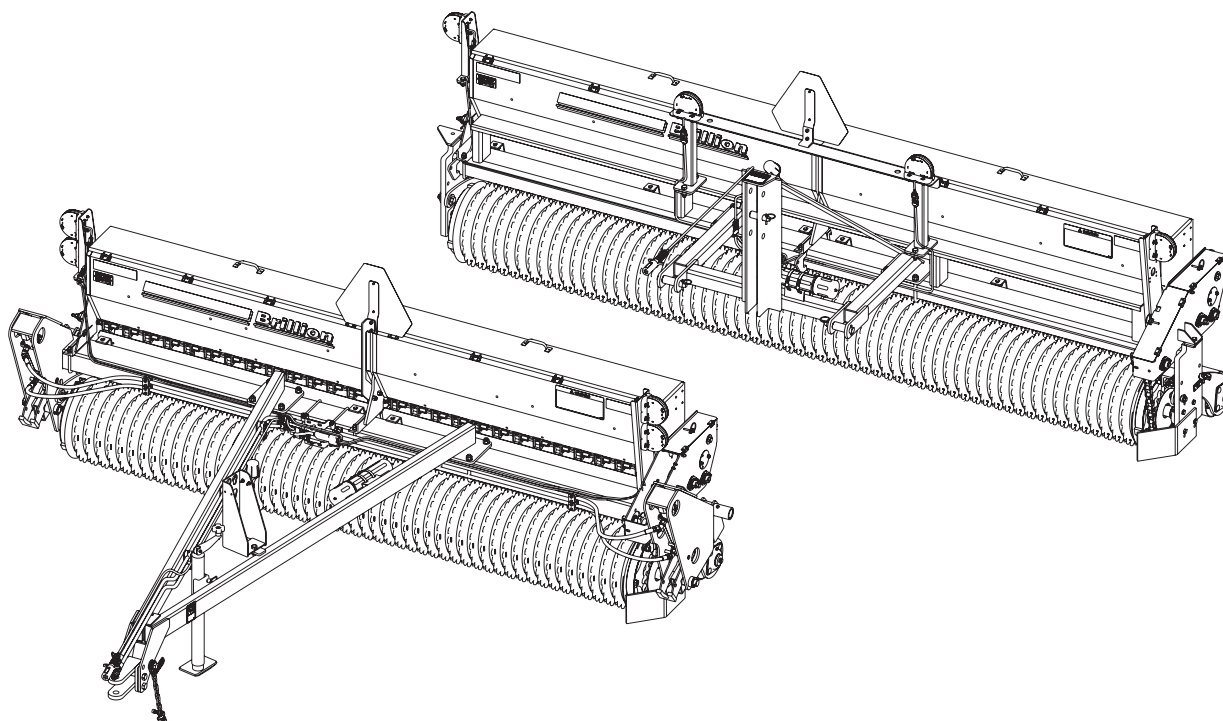




# **Turfmaker Seeder Models SL10/SL12 SLP8/SLP10/SLP12 Operator's Manual**



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**Manuals for Turfmaker Seeder,  
Models SL10/SL12 and SLP8/SLP10/SLP12**

Manual Number	Manual Type
1P342	Operator's Manual
1P341	Parts 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.**





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# Safety Information

## Introduction

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



### DANGER

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

### IMPORTANT

**Standard Turfmaker Seeders have difficulty metering varieties of fine or hard fescues, Turfmaker II will seed these mixtures.**

## Description of Unit

The Brillion Turfmaker Landscape Seeder provides precision seed metering and accurate seed depth placement, offering optimum germination. The SL Series Seeder utilizes a Mid-Size Seed Box with Micro-Meters, spaced 4-1/4" for an even better distribution of small grass and lawn seed varieties. Micro-Meters can be adjusted to permit precise metering with an infinite range of settings. Units are available in 3-PT Hitch and Drawbar.

## 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 change to assure top performance.
- Location reference: Right and Left designations in this manual are determined by facing the direction the machine will travel during field operation, unless otherwise stated.

## Owner Assistance

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

## Warranty Registration

Brillion Farm Equipment, by Landoll, shall have no warranty obligation unless each product is registered, within 10 days of retail purchase, using the Landoll Company, LLC Ag Products on-line registration process. Please refer to the Ag Products Policy and Procedures Manual, accessible at [www.landoll.com](http://www.landoll.com) for step by step instructions regarding product registration.

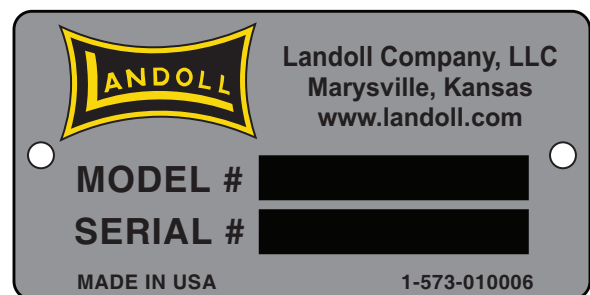
Enter your product information below for quick reference.

Refer to the ID Plate as shown in **Figure 1-1**. The ID Plate is located on the right front of the machine.

MODEL NUMBER

SERIAL NUMBER

DATE OF PURCHASE



**Figure 1-1: ID Plate**

## Safety

### NOTE

*Investigation has shown that nearly 1/3 of all farm accidents are caused by careless use of machinery. Insist that all people working with you or for you abide by all safety instructions.*

## Understanding Safety Statements

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

### NOTICE

**Special notice - read and thoroughly understand.**



### CAUTION

**Proceed with caution. Failure to heed caution may cause injury to person or damage product.**



### WARNING

**Proceed with caution. Failure to heed warning will cause injury to person or damage product.**



### DANGER

**Proceed with extreme caution. Failure to heed notice will cause injury or death to person and/or damage product.**

### NOTE

*You should read and understand the information contained in this manual and on the machine decals before you attempt to operate or maintain this equipment.*

- Examine safety decals and be sure you have the correct safety decals for the machine. **See Figure 1-3.**
- Order replacement decals through your Brillion dealer.
- Keep these signs clean so they can be observed readily. It is important to keep these decals cleaned more frequently than the machine. Wash with soap and water or a cleaning solution as required.
- Replace decals that become damaged or lost. Also, be sure that any new machine components installed during repair include decals which are assigned to them by the manufacturer.

- When applying decals to the machine, 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.



### DANGER

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

## Transporting Safety

### IMPORTANT

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

- When transporting the machine on a road or highway, use adequate warning symbols, reflectors, lights and slow moving vehicle sign as required. Slow moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- Do not tow a machine that, when fully loaded, weighs more than 1.5 times the weight of the towing vehicle.
- Carry reflectors or flags to mark tractor and implement in case of breakdown on the road.
- Do not transport 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.
- Avoid sudden stops or turns because the weight of the machine may cause the operator to lose control of the tractor.
- Use caution when towing behind articulated steering tractors; fast or sharp turns may cause the machine to shift sideways.
- Keep clear of overhead power lines and other obstructions when transporting. Know transport height and width of your machine. **See "Specifications" on Pages 5-1 and 5-2.**

## Safety Instructions for Towing Vehicles

The maximum travel speed is the lesser of

- The limit of the road conditions;
- The maximum specified ground speed;
  - for towing operations as indicated in this manual or SIS;
  - of the towed vehicle as indicated in its operator's manual, SIS, or information sign;
- The maximum ground speed of the towed equipment combination shall be limited to the lowest specified ground speed of any of the towed machines. This speed is the ground speed limitation.

**EXAMPLE:** If the tractor is capable of 25 mph, the first implement has a SIS for 19 mph, and the last implement's operator's manual states its specified ground speed is 15 mph, the towed equipment combination ground speed limitation is 15 mph.

## Attaching, Detaching and Storage

- Do not stand between the tractor and implement when attaching or detaching implement unless both are not moving.
- Before applying pressure to the hydraulic system, be sure all connections are tight and that hydraulic lines and hoses are not damaged.
- Completely raise machine and install transport locks. If desired to store lowered and on unpaved surface, place hardwood blocks under roller to keep off ground.
- Block implement so it will not roll when unhitched from the tractor.
- Relieve pressure in hydraulic lines before uncoupling hydraulic hoses from tractor.
- Use the Safety Chain to help control drawn machinery should it separate from the tractor drawbar.

### **NOTE**

*To relieve hydraulic pressure: Depending on tractor hydraulic system, some can be relieved by actuating control lever after engine is stopped. If tractor has electric over hydraulic controls, it may be necessary to move the control lever to the float position. **Refer to Tractor's Operator's Manual.***

*Wear protective gloves and safety glasses or goggles when working with hydraulic systems.*

## Maintenance Safety

- Block the machine so it will not roll when working on or under it.
- Transport Locks installed.
- Do not make adjustments or lubricate machine while it is in motion.
- Make sure all moving parts have stopped and all system pressure is relieved.
- Understand the procedure before doing the work. Use proper tools and equipment.

## Protective Equipment

- Wear protective clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection, such as earmuffs or earplugs.

## Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- 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.
- When removing and installing wheels use wheel-handling equipment adequate for the weight involved.

## Chemical Safety

Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil and property.

- Read chemical manufacturer's instructions and store or dispose of unused chemicals as specified. Handle chemicals with care and avoid inhaling smoke from any type of chemical fire.
- Store or dispose of unused chemicals as specified by the chemical manufacturer.

## Prepare for Emergencies

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

## High Pressure Fluid Safety

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.

- Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.
- Avoid the hazard by relieving pressure before disconnecting hydraulic lines.

### NOTE

*To relieve hydraulic pressure: Depending on tractor hydraulic system, some can be relieved by actuating control lever after engine is stopped. If tractor has electric over hydraulic controls, it may be necessary to move the control lever to the float position. **Refer to Tractor's Operator's Manual.***

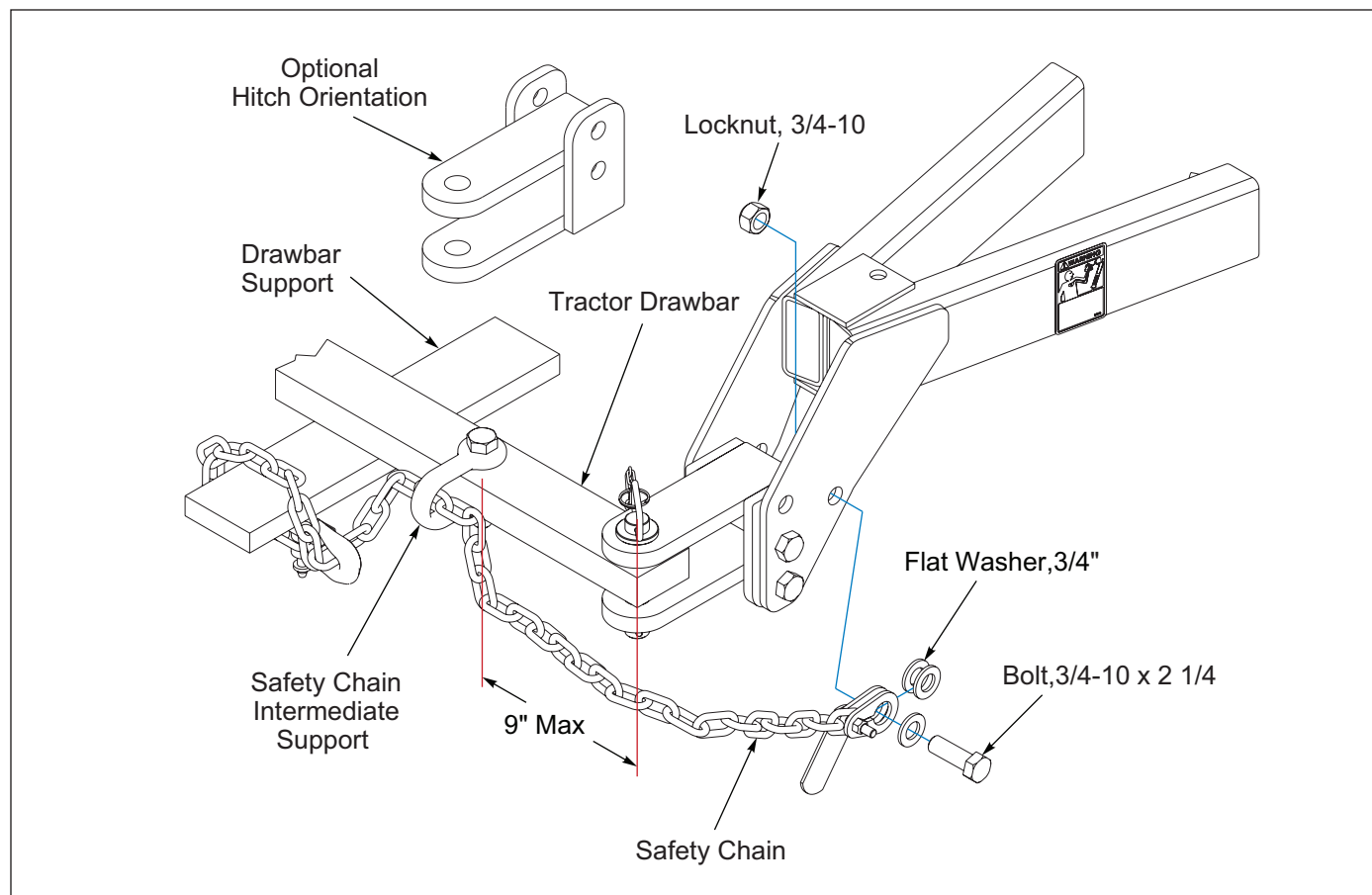
*Wear protective gloves and safety glasses or goggles when working with hydraulic systems.*

## Safety Chain

- Use the Safety Chain to help control drawn machinery should it separate from the Tractor Drawbar.
- Use a chain with a strength rating equal to or greater than the gross weight of towed machinery, in accordance with ASAE S338.2 specifications. If two or more machines are pulled in tandem, a larger chain may be required. Chain capacity must be greater than the total weight of all towed machines.

A second chain should be used between each implement.

- Attach the chain to the Tractor Drawbar Support or specified anchor location. Never attach the chain to an intermediate support. 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. **See Figure 1-2.** If the distance from the Drawbar Pin to either the front or rear chain attachment point exceeds 9 inches, intermediate chain support is required. **See Tractor Operator's Manual.**
- Replace chain if any links or end fittings are broken, stretched or damaged.
- Do not use a Safety Chain for towing.



**Figure 1-2: Safety Chain**



## Decals



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ITEM 2  
4K388



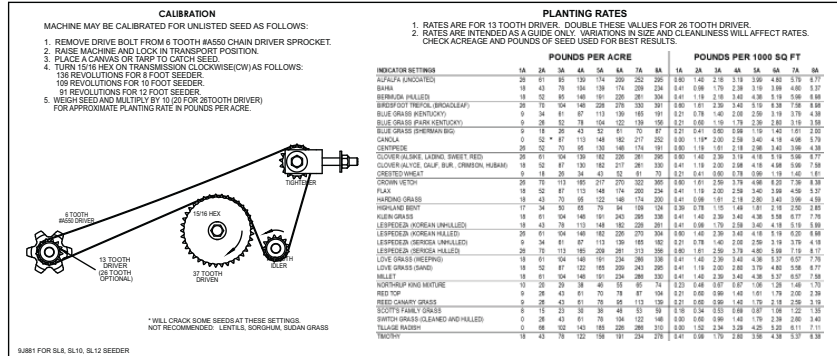
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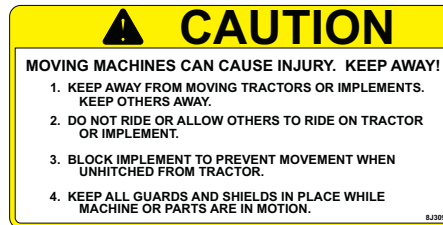
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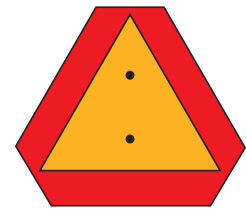
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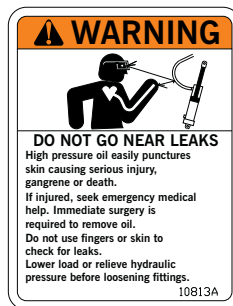
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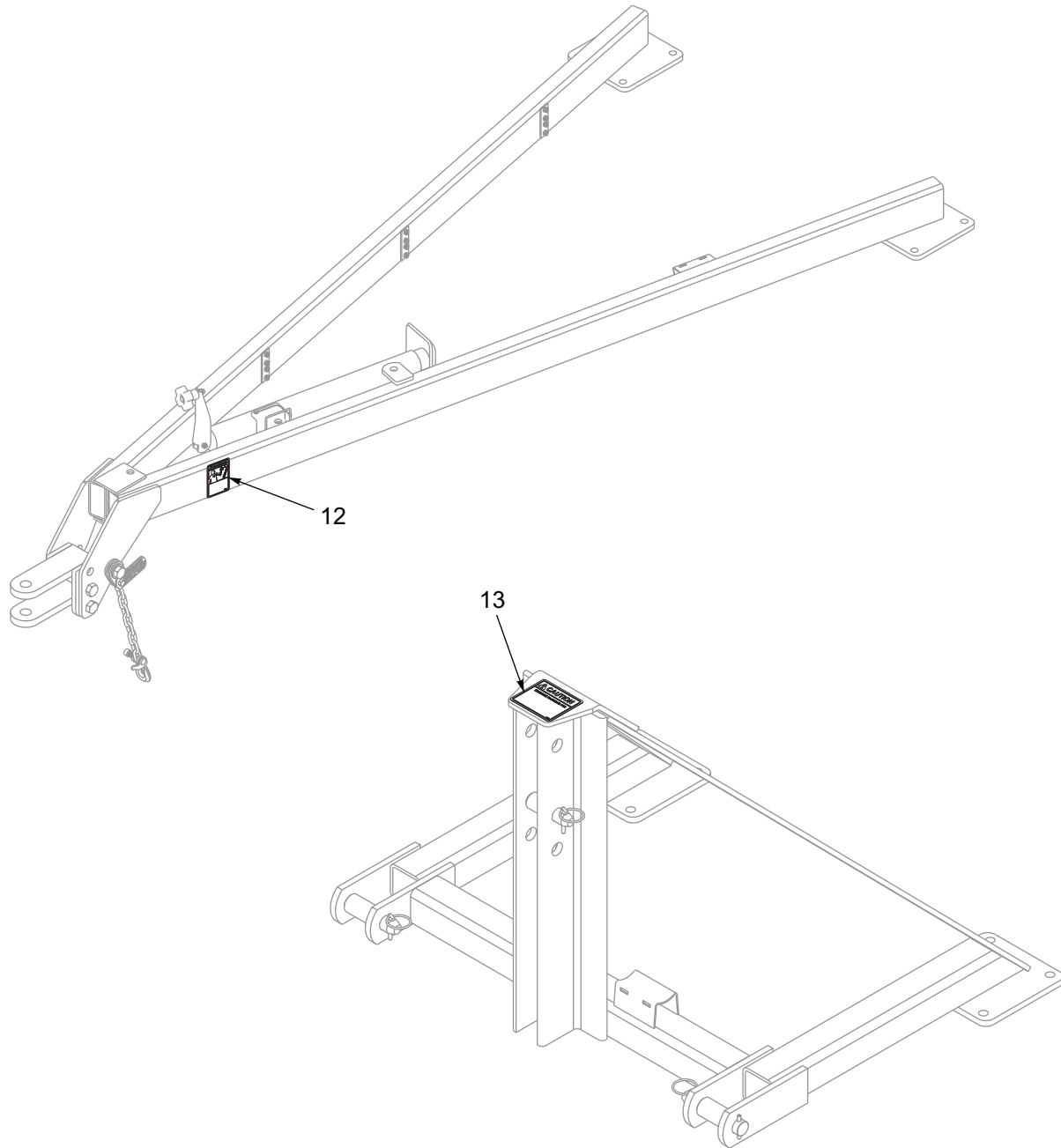


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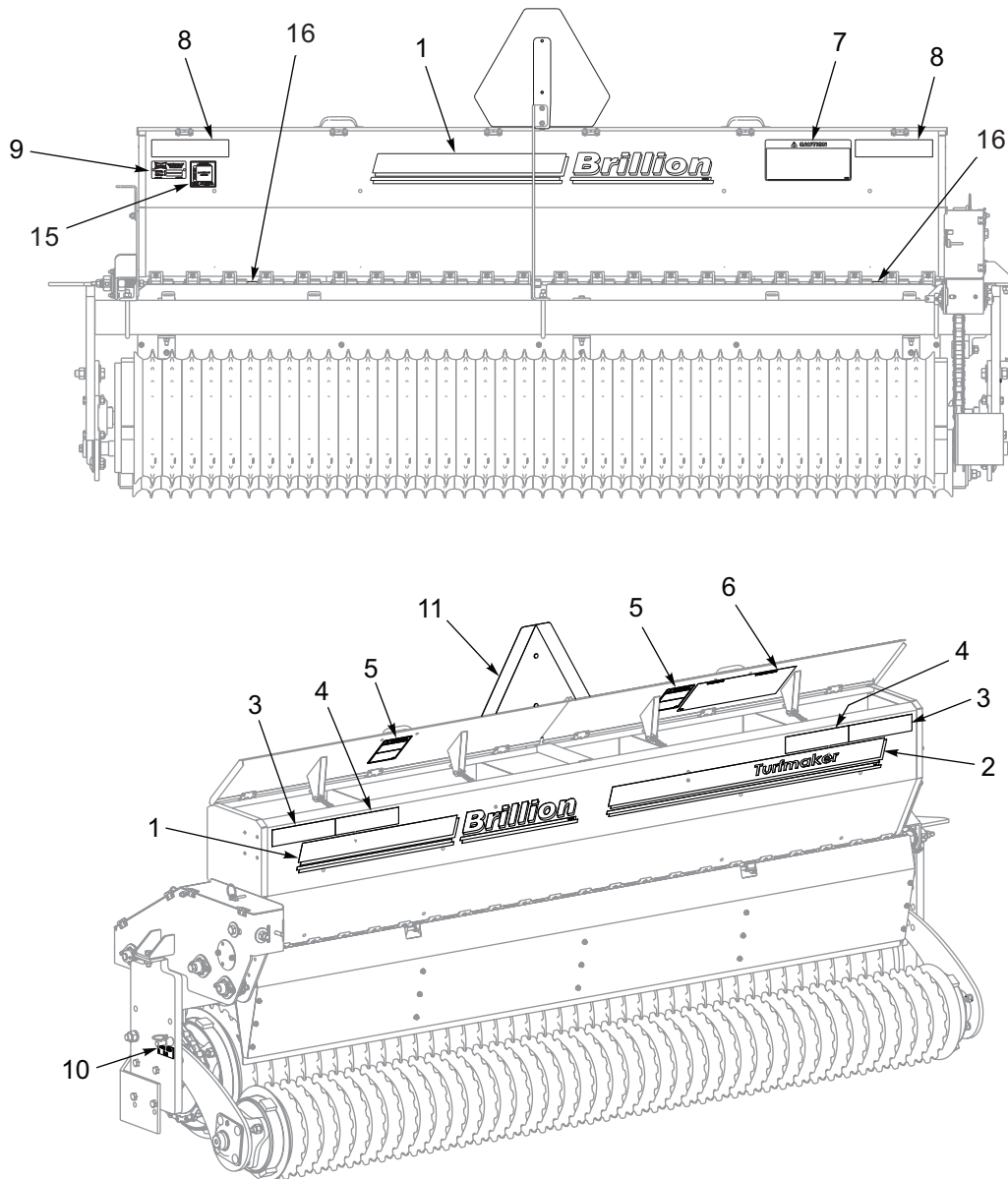
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### Figure 1-3: Decals



**Figure 1-4: Decal Placement, Hitch**





**Figure 1-1: Decal Placement, 8FT Model**

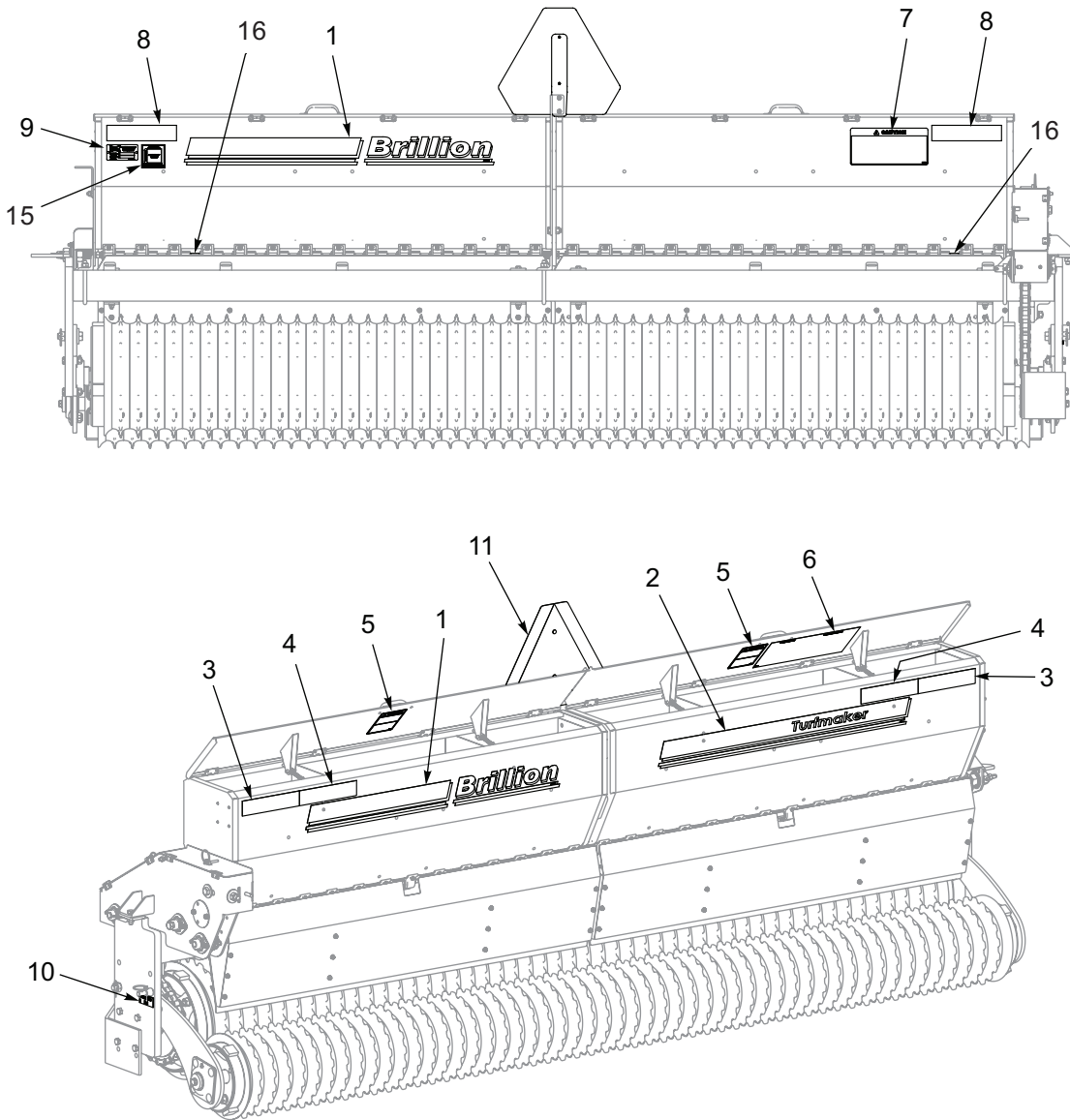
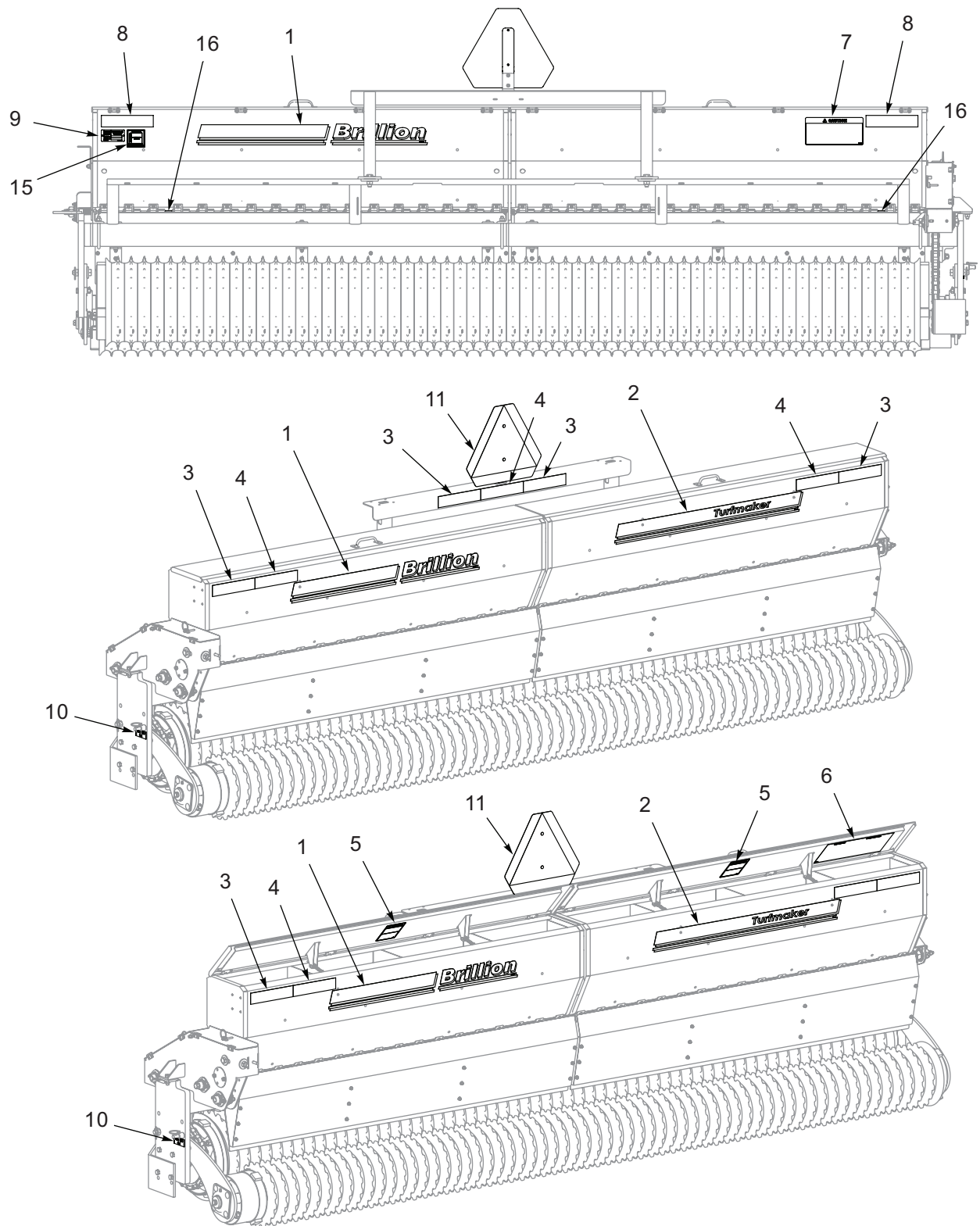


Figure 1-2: Decal Placement, 10FT Model



**Figure 1-3: Decal Placement, 12FT Model**

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Table provided for general use.

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# Assembly



## CAUTION

Do Not Work On Or Under This Machine Unless Securely Blocked And Supported By A Hoist Or Tractor Or By Other Sufficient Means!



## WARNING

Do not attempt to lift heavy parts manually. Use a hoist or a fork lift to move these parts into position.

## NOTE

Refer to the repair parts manual 1P431 for identification of parts and for the approximate relationship of the parts in assembly. Your exact Seeder Model may vary slightly from the illustration.

To ensure 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.

## IMPORTANT

- If pre-assembled parts or fasteners are temporarily removed, remember where they go. It is best to keep parts separated.
- Check that all working parts move freely, bolts are tight and cotter pins spread.
- Refer to the Torque Table for proper torque values. Note the different torque requirements for bolts with lock nuts. **See “General Torque Specifications” on page 4-1.**

“Left” and “Right” refer to directions seen as if standing behind the machine and facing in the direction of forward travel.

## IMPORTANT

All harnesses must be firmly attached to machine frame members, so they don't sag or become torn loose by field debris. Use the tie wraps provided.

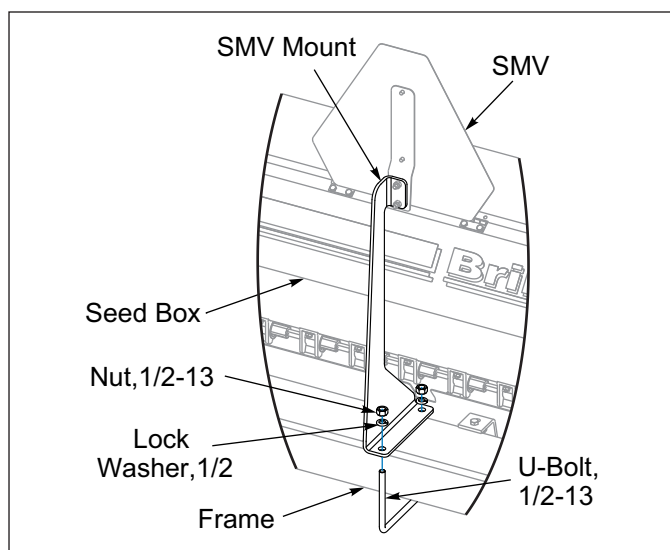
Check to be sure the harnesses at center of machine is slack enough so as not to be stretched or interfered with while rotating frame from transport to field working position and vice versa.

## 3-PT Hitch Seeder Assembly

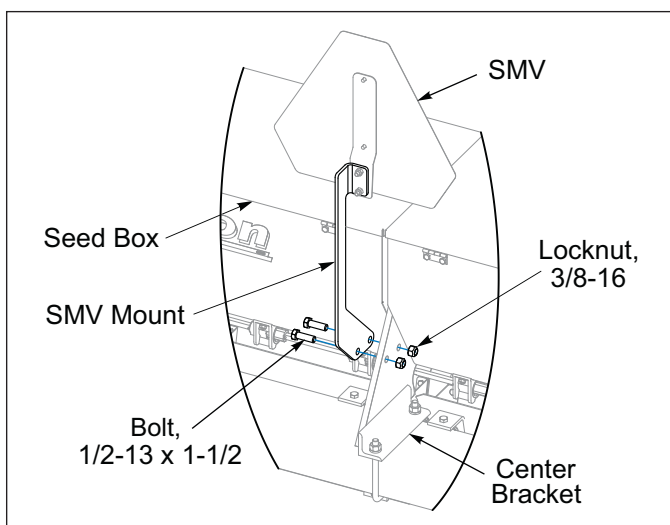
When shipped, seeder comes assembled except for Lights and 3-PT Hitch.

1. Support Seeder Assembly with a hoist or by similar means capable of supporting its weight without tipping.
2. Center 3-PT Hitch Assembly in relationship with the Seed Box Center Bracket. Attach 3-PT Hitch to Seeder Frame Tube with 5/8-11 U-Bolts, Lock Washers and Nuts. **See Figure 2-5.**
3. Install Manual Holder to 3-PT Hitch with Hose Clamps.
4. **8FT Seeders:** Install SMV Mount to Seed Box Frame with 1/2-13 U-Bolt, Lock Washers and Nuts. **See Figure 2-1.**

**10FT Seeders:** Install SMV Mount to Seed Box Center Bracket with 1/2-13 x 1-1/2 Bolts and Locknuts. **See Figure 2-2.**



**Figure 2-1: SMV Mount, 8FT**



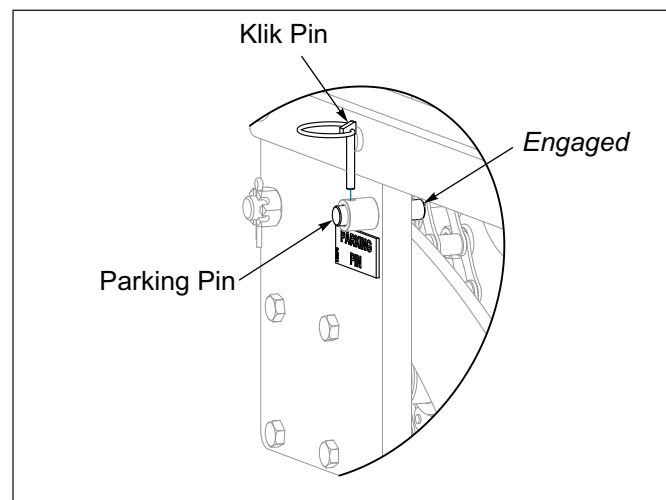
**Figure 2-2: SMV Mount, 10FT**



## CAUTION

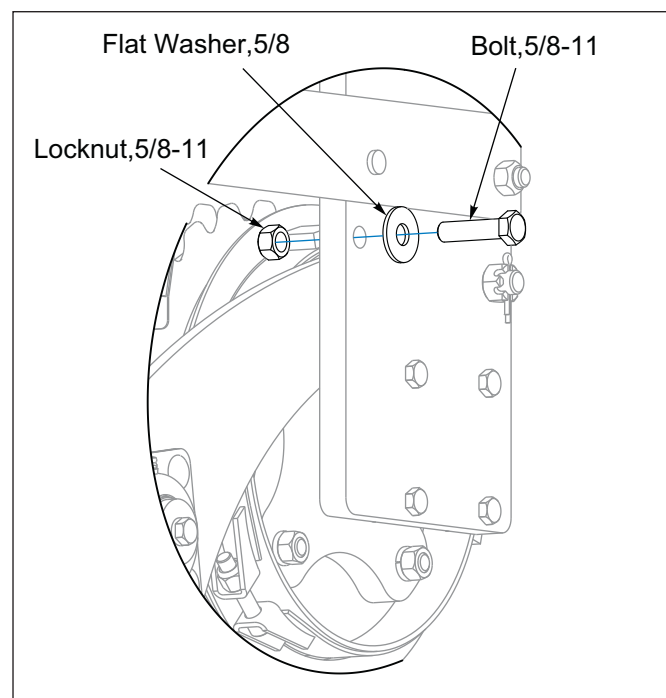
**Do not disengage pin unless seeder is fully attached to a tractor. Seeder may be rear-heavy and tip backward on frame.**

5. Be sure Parking Pin is locking Rear Roller down and raise the Seeder. **See Figure 2-3.**

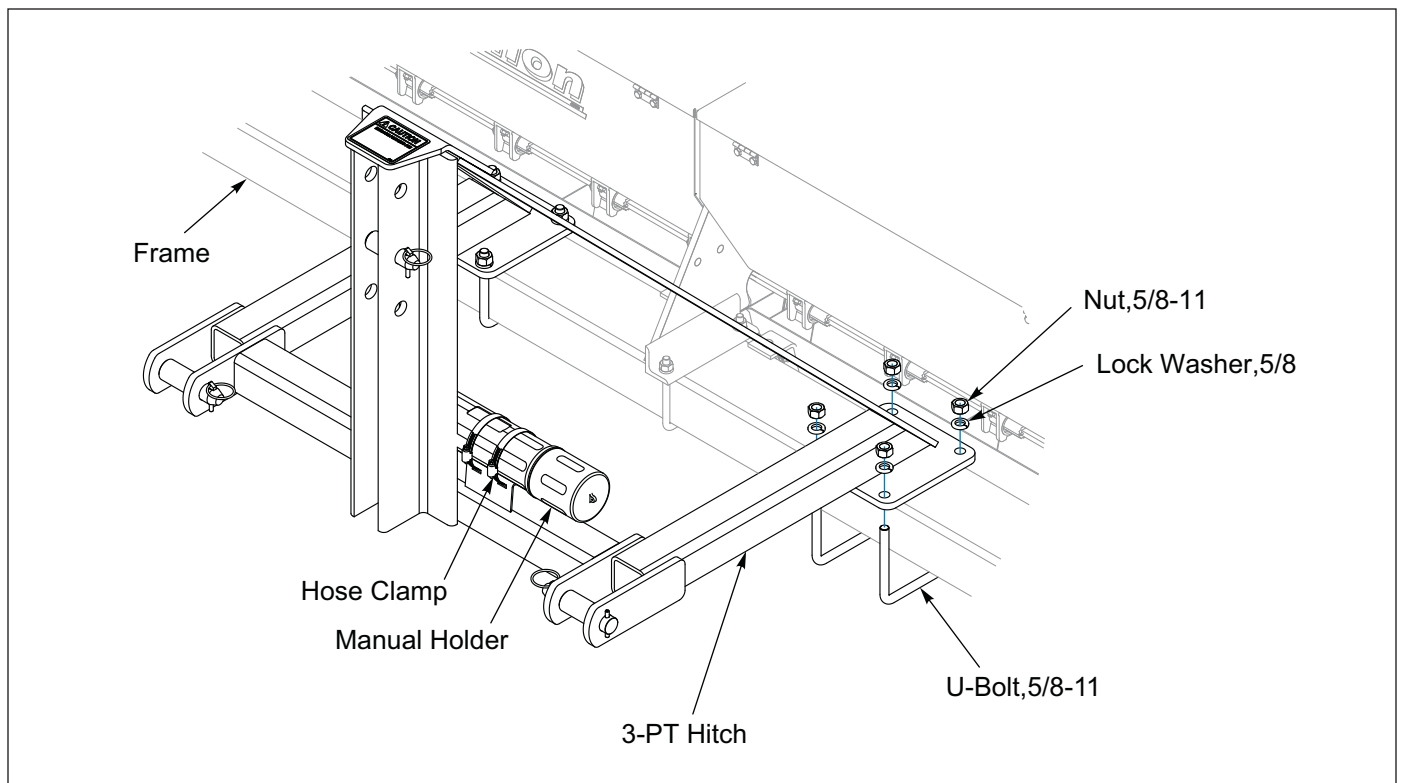


**Figure 2-3: Parking Pin Engaged**

6. On the right side of the Seeder Frame, in a similar position as the Parking Pin, remove the 5/8-11 Shipping Bolt that also locks the Rear Roller down. **See Figure 2-4.**



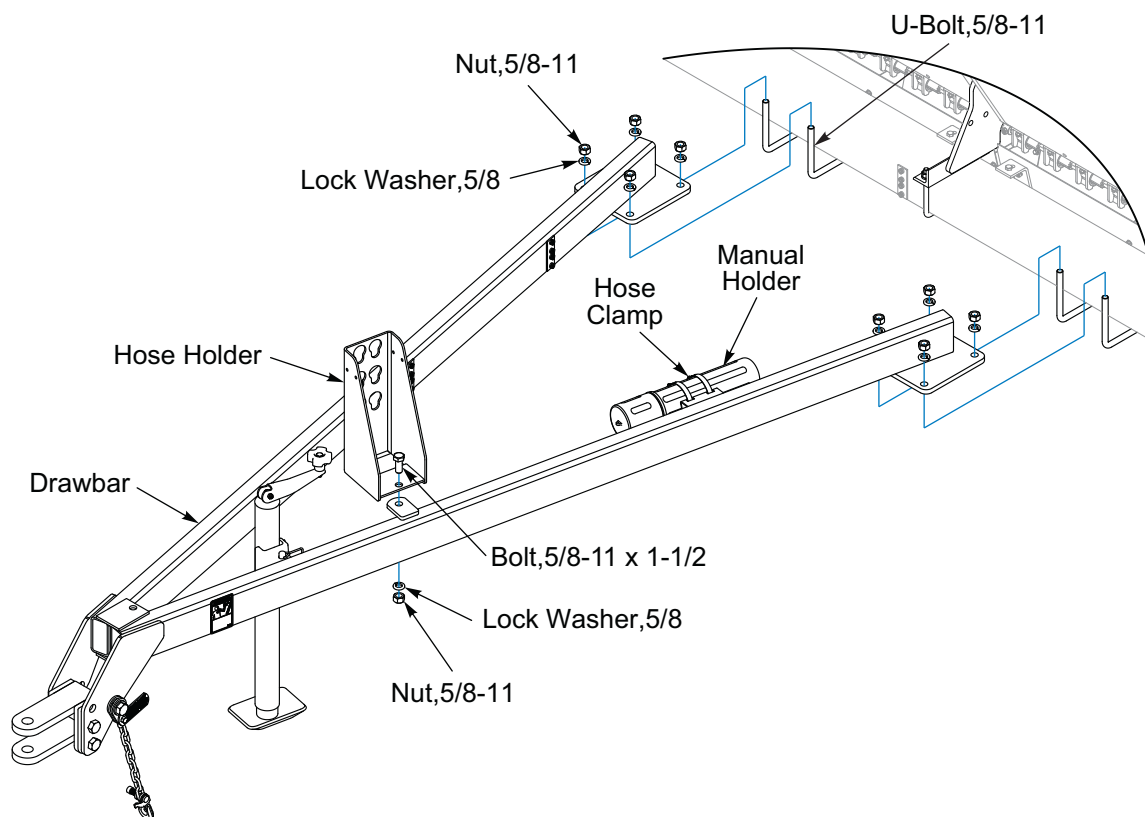
**Figure 2-4: Shipping Bolt**



**Figure 2-5: Attach 3-PT Hitch**

## **Pull Type Seeder Assembly**

1. Untie the two rolled up Drawbar Hydraulic Hoses near the center of the Frame Tube. Ensure the hoses are not interfering with where the Drawbar is to be attached.
2. Center Drawbar in relationship with the Seed Box Center Bracket. Attach Drawbar to Seeder Frame Tube with 5/8-11 U-Bolts, Lock Washers and Nuts. **See Figure 2-6.**
3. Attach the Hose Holder to the Drawbar with 5/8-11 x 1-1/2 Bolt, Lock Washer and Nut.
4. Install Manual Holder to Drawbar with Hose Clamps.
5. **8FT Seeders:** Install SMV Mount to Seed Box Frame with 1/2-13 U-Bolt, Lock Washers and Nuts. **See Figure 2-1.**  
**10FT Seeders:** Install SMV Mount to Seed Box Center Bracket with 1/2-13 x 1-1/2 Bolts and Locknuts. **See Figure 2-2.**
6. Apply anti-seize to Spindles and insert a Hub and Spindle Assemblies into each Wheel Arm. Secure with 1/2-13 x 3 Bolts and Locknuts. **See Figure 2-8.**



**Figure 2-6: Drawbar Installation**



## Tire and Wheel Installation



### WARNING

Use a torque wrench to assure proper torque. Insufficient torque can cause stud breakage and damage the wheel pilots. Over torque can stress the Bolts and strip the threads.

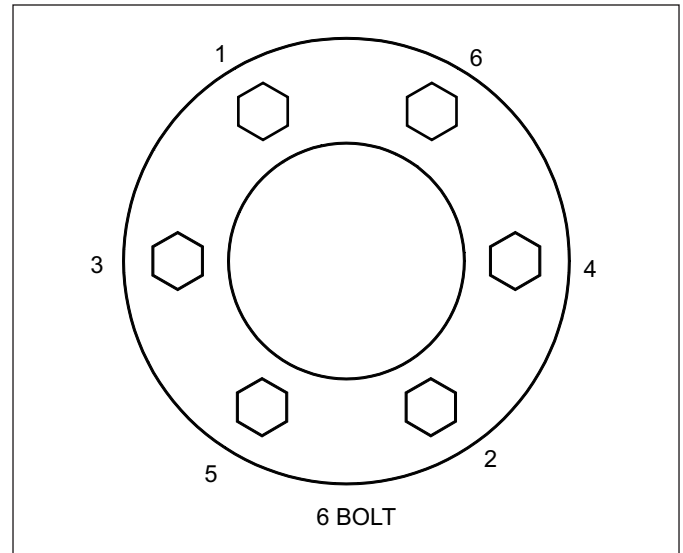
### NOTE

The tire/wheel assembly is mounted with the valve stem facing outward from Hub and Spindle.

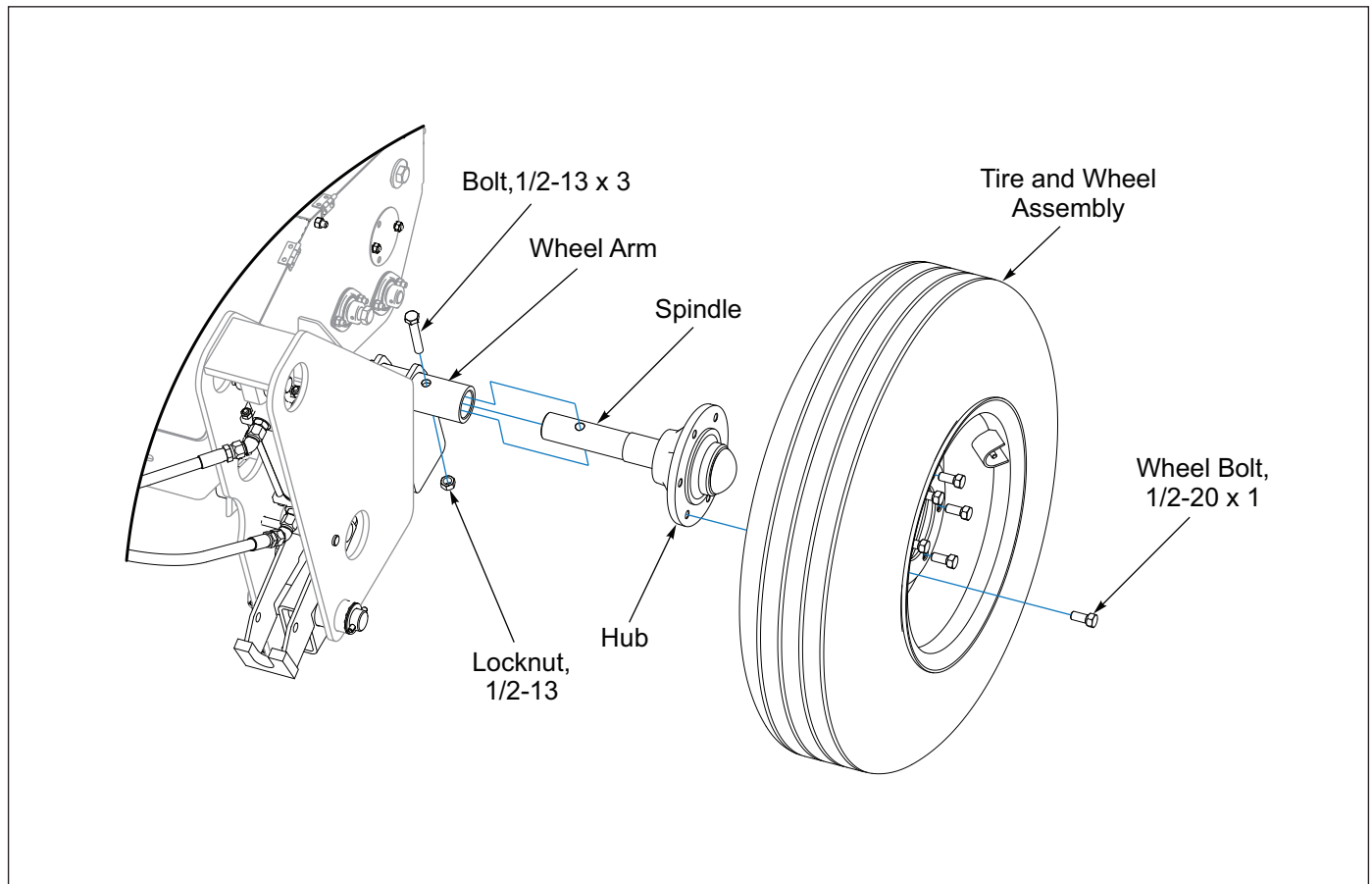
### IMPORTANT

Torque will drop after the first 10 hours of operation. Check the Wheel Bolts for proper torque after this interval and re-tighten them.

- The Seeder uses 9.5L-15, 8 Ply Rating Tires and should be inflated to 44 PSI.
- Install a Tire and Wheel Assembly onto each Hub with 1/2-20 x 1 Wheel Bolts and tighten Wheel Bolts to 50 Ft-Lbs using the sequence in **Figure 2-7**. Then tighten to a full torque of 80-85 Ft-Lbs.



**Figure 2-7: Tightening Sequence**



**Figure 2-8: Hub and Spindle**

# Hydraulic Installation



## WARNING

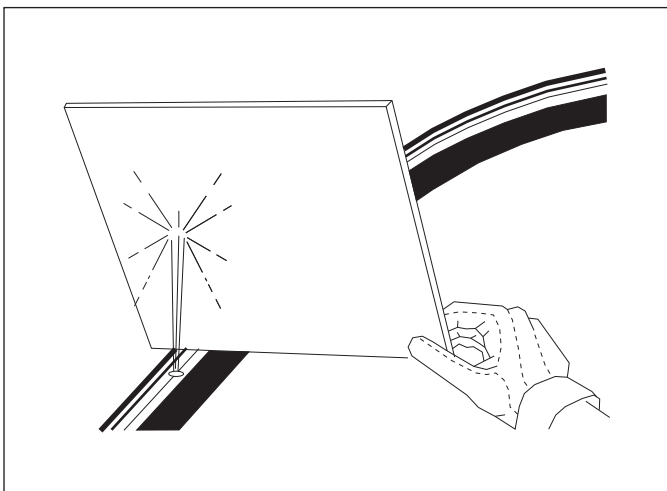
Escaping fluid under pressure can be nearly invisible and have enough force to penetrate the skin causing serious injury. Using a piece of cardboard, rather than your hands, to search for suspected leaks. (See Figure 2-9.) Wear protective gloves and safety glasses or goggles when working with hydraulic systems.

### Tightening Procedure for JIC 37 degree Swivel Female Nuts.

1. Check Fitting Flare and seat for defects.
2. Lubricate the connection.
3. Install Hydraulic Hoses without twists.
4. Hand Tighten until connections bottoms.
5. Using 2 wrenches to prevent twisting, rotate the Swivel Nut 2 wrench flats (1/3 turn).
6. For reassembly, follow the same procedure but tighten only 1 wrench flat (1/16 turn).

### Tightening Procedure for Swivel O-Ring Fittings.

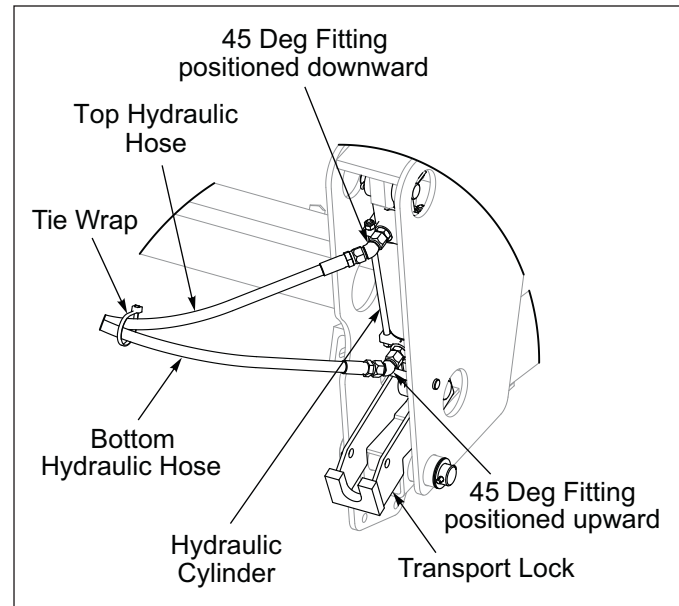
1. Lubricate O-Ring and install the Fitting until the Metal Washer which backs up the O-Ring contacts the face of the boss.
2. Orient the Fitting by turning counterclockwise up to 1 turn.
3. Tighten the Locknut using 50-60 Ft-Lbs of torque. See “Hydraulic Fitting Torque Specifications” on Page 4-2.



**Figure 2-9: Leak Detection**

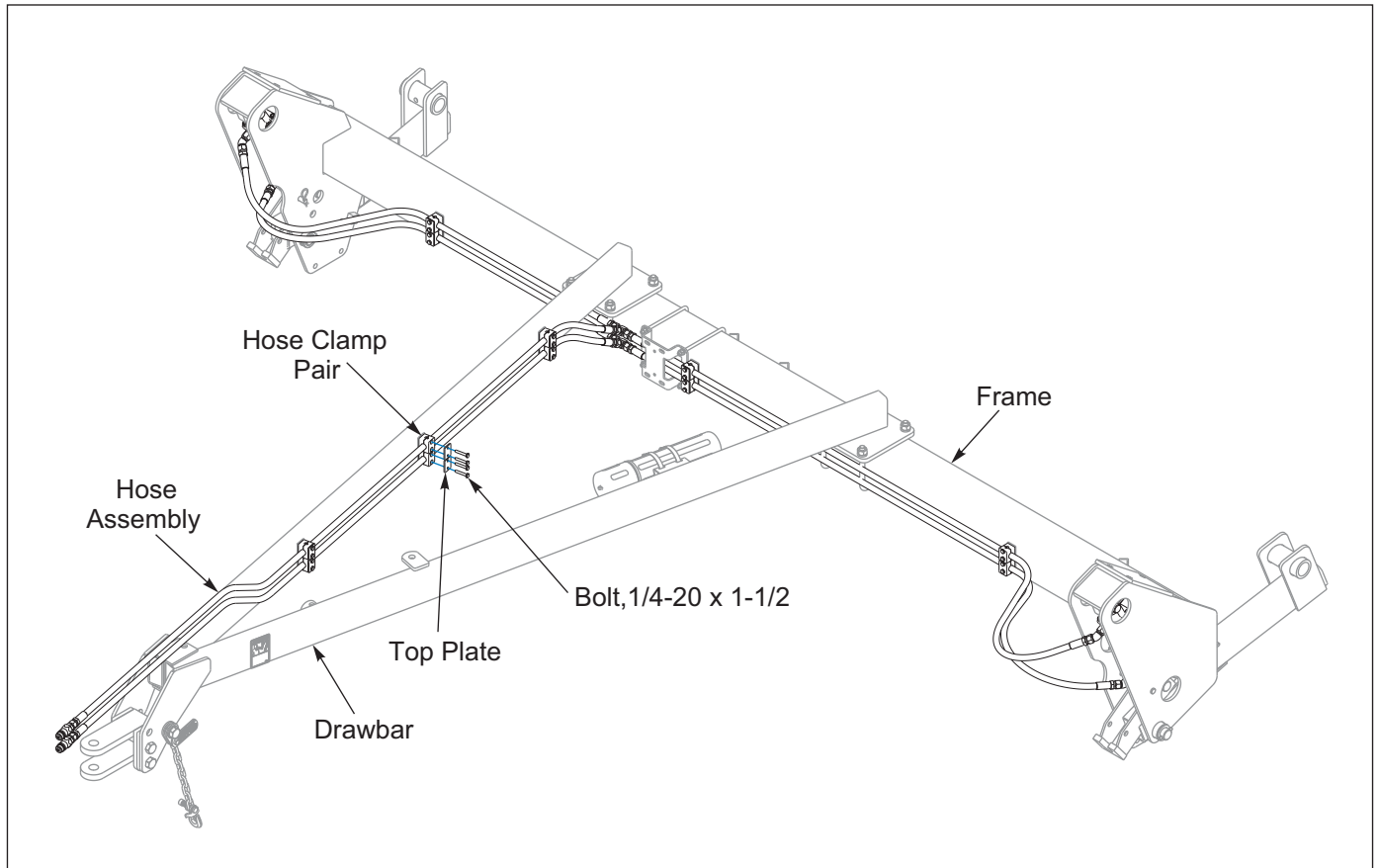
### Hydraulic Assembly

1. Restrictors installed in Cylinder Ports, connect 45 Degree Fitting so they are free to swivel. Connect top Hydraulic Hose to the Cylinder Base and bottom Hydraulic Hose to the Cylinder Rod End. Position the Hydraulic Hoses so that the Cylinder Base End points downward and the Cylinder Rod End points upward. Merge Hydraulic Hoses together and Tie Wrap them together about 12 inches from the Hose End. See **Figure 2-10**. Be sure that the Hoses cannot sag and make contact with the Front Roller Wheels.



**Figure 2-10: Cylinder Fittings Positioning**

2. Route the Drawbar Hydraulic Hoses along Drawbar toward the Tractor. Secure Hoses to Drawbar with Hose Clamp Pairs, Top Plate and 1/4-20 x 1-1/2 Bolt. See **Figure 2-11**.



**Figure 2-11: Drawbar Hydraulic Hoses**

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Table provided for general use.

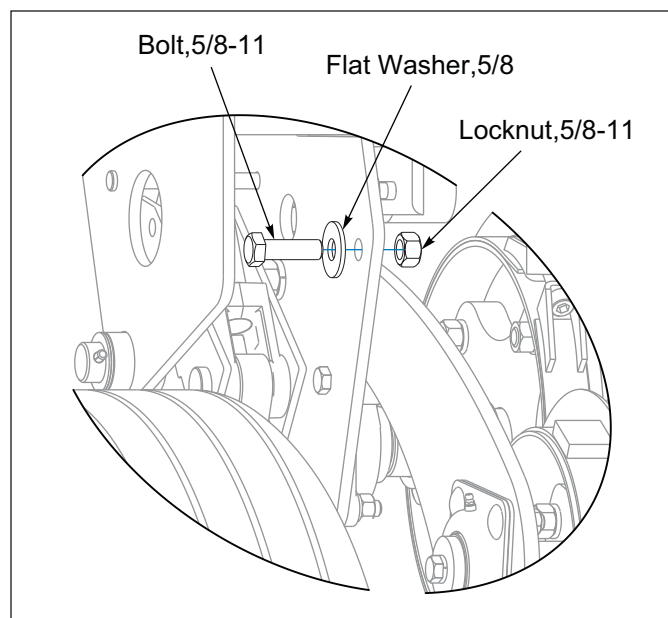
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## Purge the Hydraulic Lift System

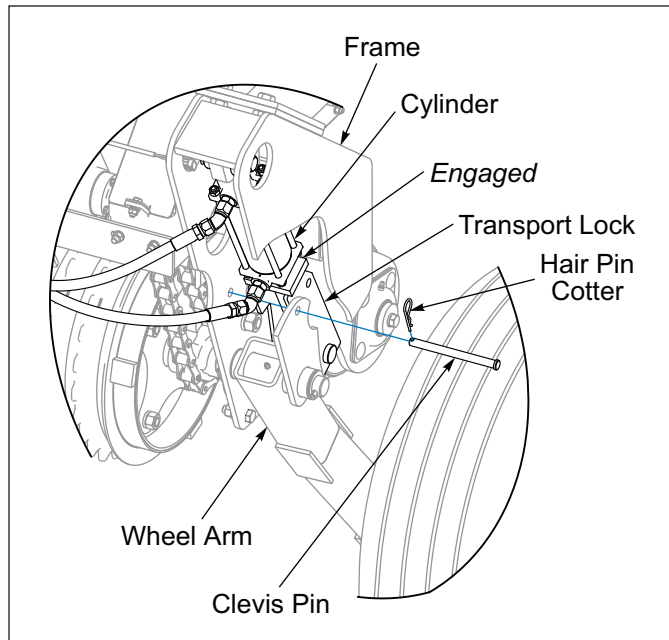
The Hydraulic system is not filled with oil and should be purged of air before transporting and field operations.

**Lift Circuit approximate oil requirement: 0.4 gallons.**

1. Carefully Hitch the Seeder to the Tractor and connect the Hydraulic Lift Hoses.
2. Check to make sure the tractor hydraulic reservoir is full of the manufacturer's recommended oil.
3. Slowly raise the machine until both Lift Cylinders are fully extended. Lower and raise the Seeder to verify that both Cylinders are working throughout the stroke. Fully extend the Lift Cylinders and continue to hold the lever until both Cylinder Rod movement stops. Raise/Lower Seeder 5 times to purge air from the system.
4. Do Not loosen any Hydraulic Hoses or Fittings.
5. Recheck Tractor Reservoir to make sure it is within operating limits.
6. Raise the Seeder and install Transport Locks. **See Figure 2-12.**
7. Remove from the RH and LH Frame End Plate the 5/8-11 Shipping Bolts that locks the Rear Roller Arms Down. **See Figure 2-13.**



**Figure 2-13: Shipping Bolt**



**Figure 2-12: Transport Lock Engaged**

## Warning Lamp Installation, 8FT and 10FT

### NOTE

8FT 3-PT model is shown, 8FT Drawbar and 10FT 3-PT and Drawbar models are similar. **See Figure 2-15.**

1. Attach longer Light Bracket to the Transmission housing located on the left side of the seeder, with 3/8-16 x 1-1/2 Bolts, Lock Washers and Nuts.
2. Attach Amber Lamp to the upper portion of the longer Light Bracket with 1/4-20 x 1-1/4 Bolts and Locknuts.
3. Attach a Red Lamp below the Amber Lamp using 1/4-20 x 1-1/4 Bolts and Locknuts. Ensure Red Lamp lenses faces rearward.
4. On the right side of the Seeder attach the shorter Light Bracket to the Angle Bracket with 1/2-13 x 1-1/4 Bolts, Lock Washers and Nuts.
5. Attach Amber Lamp to the upper portion of the Light Bracket with 1/4-20 x 1-1/4 Bolts and Locknuts.
6. Attach a Red Lamp below the Amber Lamp with 1/4-20 x 1-1/4 Bolts and Locknuts. Ensure Red Lamp lenses faces rearward.
7. Attach the Flasher Control Module to the Module Bracket with 1/4-20 x 1-1/2 Bolts and Locknuts. **See Figure 2-14.**

### IMPORTANT

**Cords are marked Yellow Tape for Left and Green Tape for Right.**

8. Lay out the Lamp Harness along the Seeder Frame, Cords with Yellow Tape Left and Cords with Green Tape Right. Connect the Harness to the Flasher Control Module 6-Prong Connector.
9. Route the left and right cords along the front of the Frame Tube up to the outer Light Brackets. Connect the 2-Prong Connector to the Amber Lamps and the 3-Prong Connector to the Red Lamps.
10. Lay out the 7-Pin Harness along the 3-PT Hitch or Drawbar with the 4-Prong Connector towards the Seeder. 3-PT Hitch, route the 4-Prong Connector Cord through the Frame Loop to the Module. Drawbar, route the 7-Pin Harness along the Drawbar, through the Hose Support up to the Tractor. Connect 7-Pin Harness 4-Prong Connector to the Flasher Control Module.
11. Bundle and secure excess Cords to the Module Bracket with Tie Wraps. Along the Seeder Frame, secure Harness Cords with Tie Wraps to the frame end plate slots, Slotted Tabs and Hydraulic Hoses. Bundle and secure 7-Pin Harness to the Drawbar Hydraulic Hoses or 3-PT Hitch Frame Slots allowing enough Harness length to reach the Tractor Socket.

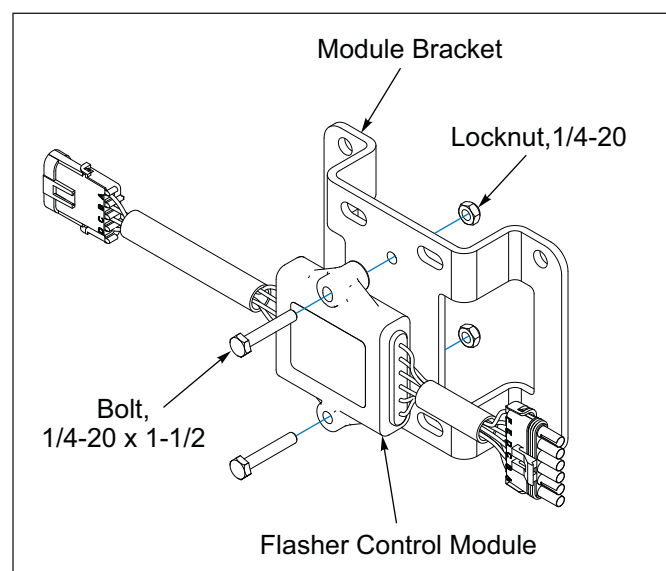
### IMPORTANT

**All Harnesses must be firmly attached to Machine Frame members or Hydraulic Hoses so they do not sag or become torn loose by field debris.**

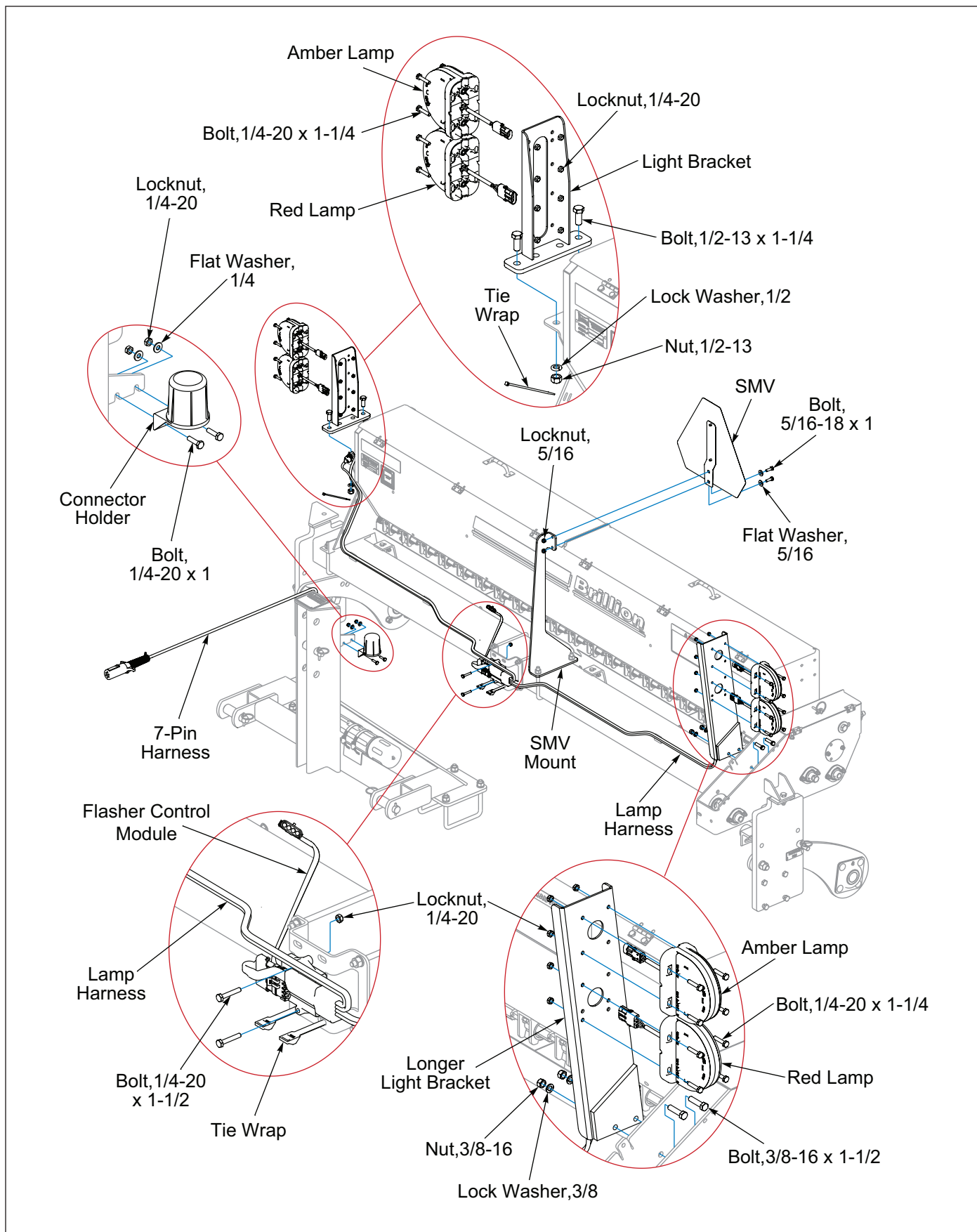
12. Attach the SMV sign to the SMV Mount located on the center on the Front Frame with 5/16-18 x 1 Bolts, Flat Washers, and Locknuts.
13. Attach the Connector Holder to the 3-PT Hitch or Drawbar Hose Holder with 1/4-20 x 1 Bolts, Flat Washers, and Locknuts.

### NOTE

*The 7-Pin Plug on the other end of the 7-Pin Harness connects to the Tractor Socket when in use. When not in use, it can be stored in the Connector Holder on the Drawbar Hose Holder or 3-PT Hitch. Allow enough Harness length to reach Tractor Socket and roll or fold up excess and secure to Drawbar Hydraulic Hoses or 3-PT Hitch.*



**Figure 2-14: Flasher Control Module and Bracket**



**Figure 2-15: Warning Lamp Installation, 8FT 3-PT**



# Warning Lamp Installation, 12FT

## **NOTE**

*12FT Drawbar model is shown, 3-PT models similar.*

1. Attach a Red Lamp at each end of the Light Bar and insert the Red Lamp Cord into the Light Bar cutout. Secure Red Lamp to Light Bar with 1/4-20 x 1-1/2 Bolts and Locknuts. **See Figure 2-17.**
2. Attach longer Light Bracket to the Transmission located on the left side of the Seeder, with 3/8-16 x 1-1/2 Bolts, Lock Washers and Nuts.
3. Attach Amber Lamp to the outside of the Light Bracket with 1/4-20 x 1-1/4 Bolts and Locknuts.
4. On the right side of the Seeder, attach the shorter Light Bracket to the Angle Bracket with 1/2-13 x 1-1/4 Bolts, Lock Washers and Nuts.
5. Attach an Amber Lamp to the upper portion of the Light Bracket with 1/4-20 x 1-1/4 Bolts and Locknuts.
6. Attach the Flasher Control Module to the Module Bracket with 1/4-20 x 1-1/2 Bolts and Locknuts. **See Figure 2-16.**

## **IMPORTANT**

**Cords are marked Yellow Tape for Left and Green Tape for Right.**

7. Lay out the Lamp Harness along the Seeder Frame Tube, Cords with Yellow Tape Left and Cords with Green Tape Right. Connect the Harness to the Flasher Control Module 6-Prong Connector.
8. Route the left and right cords along the front of the Frame Tube. Route the 3-Prong Connector Cords into the Light Bar vertical tube openings up to the Red Lamps and connect. Continue routing the 2-Prong Connector Cord along the front of the frame, up the outer Light Bracket to the Amber Lamps and connect.
9. Lay out the 7-Pin Harness along the 3-PT Hitch or Drawbar with the 4-Prong Connector towards Seeder. 3-PT Hitch, route the 4-Prong Connector Cord through the Frame Loop to the Module. Drawbar, route the 7-Pin Harness along the Drawbar, through the Hose Support up the Tractor. Connect 7-Pin Harness 4-Prong Connector to the Flasher Control Module.
10. Bundle and secure excess Cords to the Module Bracket with Tie Wraps. Along the Seeder Frame, secure Harness Cords with Tie Wraps to the frame end plate slots, Slotted Tabs and Hydraulic Hoses. Bundle and secure 7-Pin Harness to the Drawbar Hydraulic Hoses or 3-PT Hitch Frame Slots allowing enough Harness length to reach the Tractor Socket.

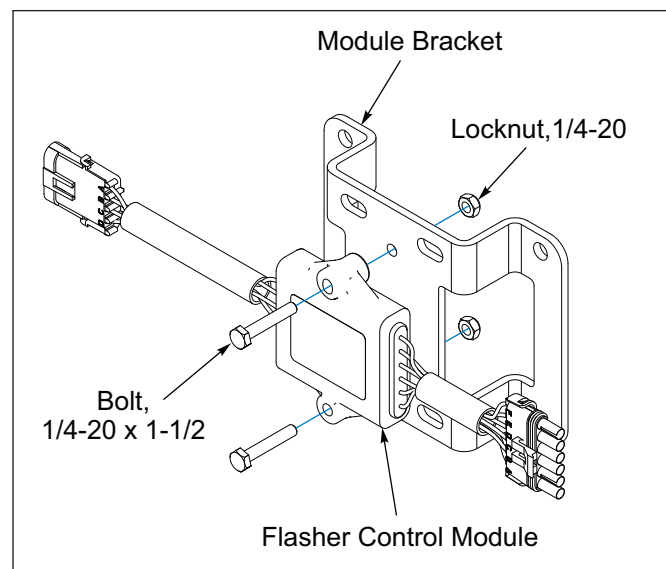
## **IMPORTANT**

**All Harnesses must be firmly attached to Machine Frame members or Hydraulic Hoses so they do not sag or become torn loose by field debris.**

11. Attach the SMV sign to the SMV Mount located on the center on the Light Bar with 5/16-18 x 1 Bolts, Flat Washers, and Locknuts.
12. Attach the Connector Holder to the Drawbar Hose Holder or 3-PT Hitch with 1/4-20 x 1 Bolts, Flat Washers, and Locknuts.

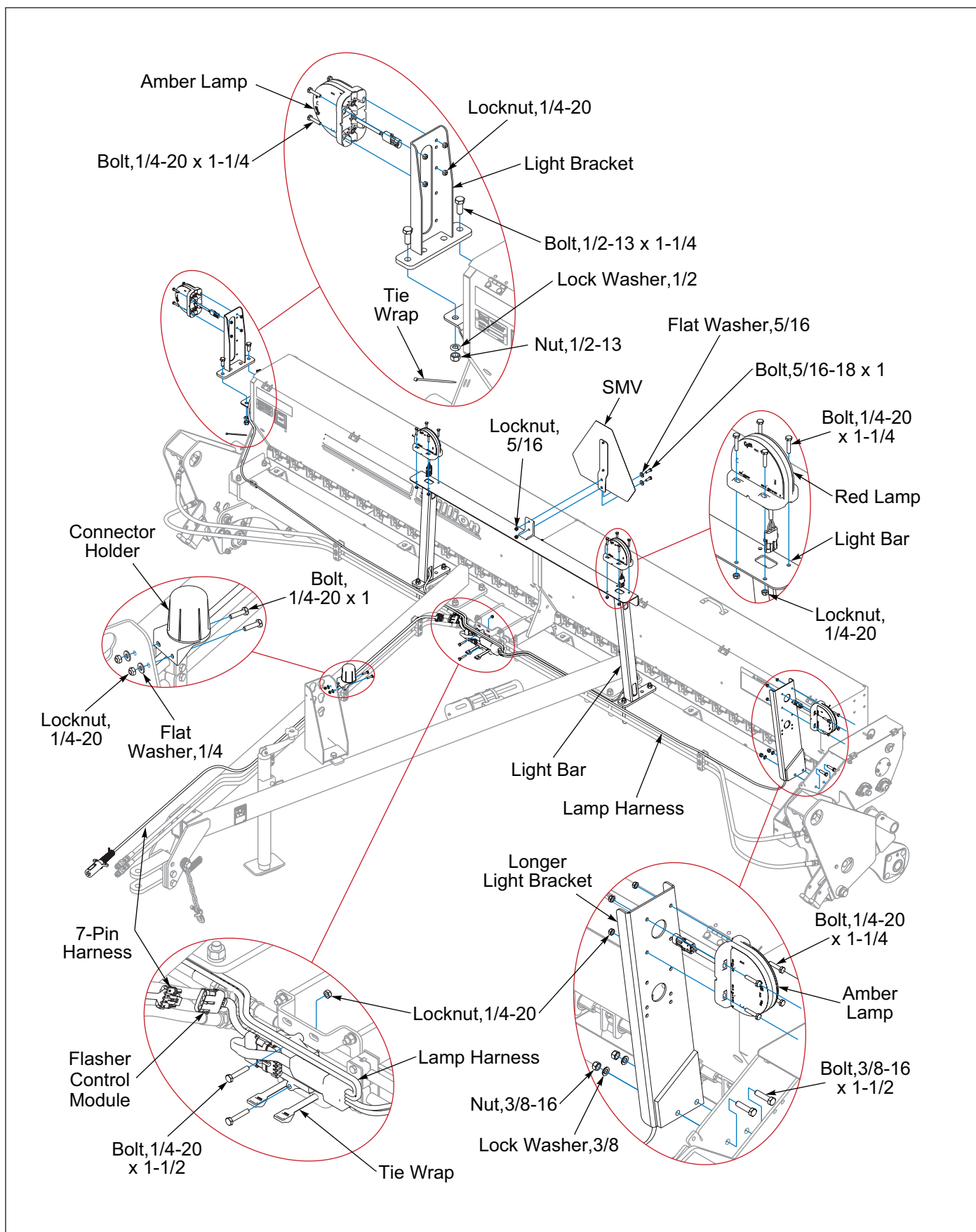
## **NOTE**

*The 7-Pin Plug on the other end of the 7-Pin Harness connects to the Tractor Socket when in use. When not in use, it can be stored in the Connector Holder on the Drawbar Hose Holder or 3-PT Hitch. Allow enough Harness length to reach Tractor Socket and roll or fold up excess and secure to Drawbar Hydraulic Hoses or 3-PT Hitch.*



**Figure 2-16: Flasher Control Module and Bracket**





**Figure 2-17: Warning Lamp Installation, 12FT Drawbar**

# Acre Meter Kit - Optional

P/N 5K745 - Transmission w/o Clutches

## NOTE

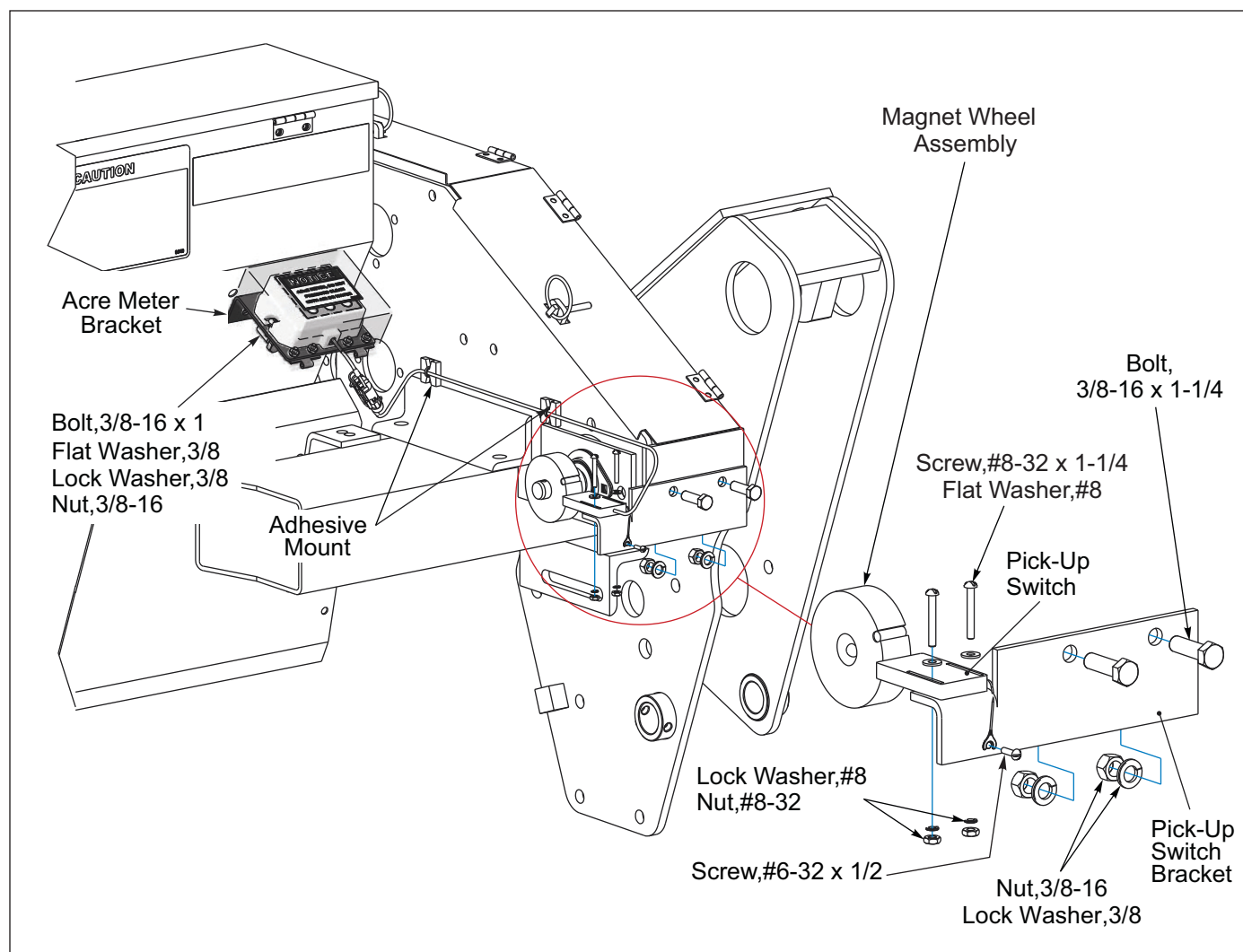
The Acre Meter Kit consists of three main parts, the Acre Meter, the Pick-Up Switch and the Magnet Wheel Assembly. The Acre Meter Assembly is mounted on the left side of the Front Seed Box.

## IMPORTANT

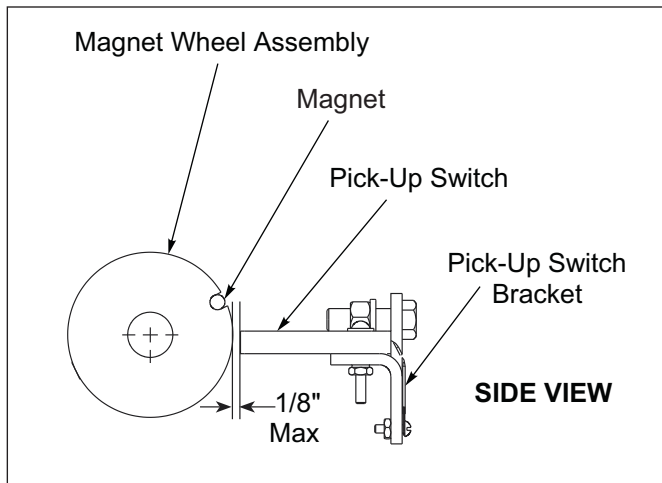
**Alignment of the Pick-Up Switch and the Magnet Wheel Assembly is critical. Improper alignment will cause the Acre Meter to record acres erratically or not at all.**

1. Use the Acre Meter Bracket as a guide and drill two 13/32" holes into the left Seed Box.
2. Attach the Acre Meter Bracket to the Seed Box with 3/8-16 x 1 Bolts, Lock Washers and Nuts. **See Figure 2-18.**

3. Attach the Pick-Up Switch Bracket to the front of the Transmission with 3/16 x 1-1/4 Bolts, Lock Washers and Nuts.
4. Attach the Pick-Up Switch to the top of the Pick-Up Switch Bracket/Mount with two #8-32 x 1-1/4 Machine Screws, Flat Washers, Lock Washers and Nuts. Do not tighten Screws at this time.
5. Press the Magnet Wheel Assembly onto the Transmission Shaft until it is vertically centered with the Pick-Up Switch.
6. Adjust the Pick-Up Switch and Pick-Up Switch Bracket so the centerline of the Magnet Wheel Assembly and Pick-Up Switch are horizontally and vertically aligned with maximum 1/8" between the Magnet Wheel Assembly and Pick-Up Switch. Tighten all Screws. **See Figures 2-19.**



**Figure 2-18: Electronic Acre Meter**

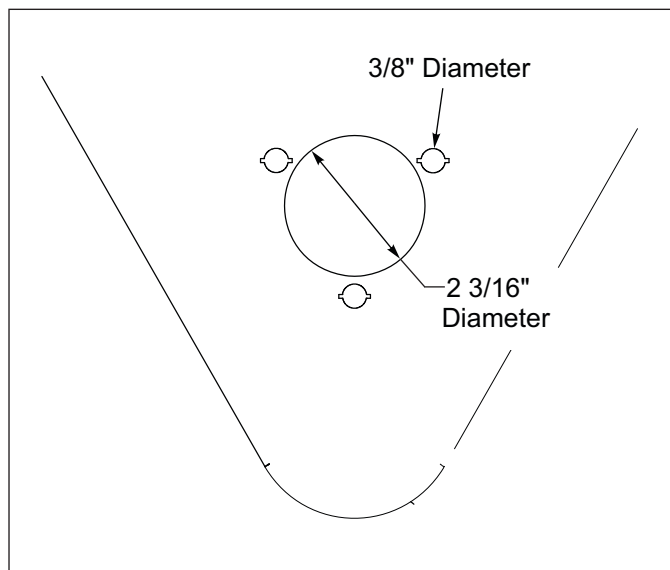


**Figure 2-19: Pick-Up Switch Detail**

7. Attach the Pick-Up Switch Ground Wire to the small hole in the Pick-Up Switch Bracket with a #6-32 x 1/2 Screw, removing paint under the wire connector to assure a good electrical ground connection.
8. Connect the Extension Harness into the Acre Meter Cord.
9. Route the cord from the Acre Meter down the front of the Seed Box to the Pick-Up Switch and connect the mating plugs.
10. Securely fasten the wire to the Seed Box and Transmission with the Adhesive Mounting Plates and tie wraps to prevent the Cords from becoming entangled or rubbing moving parts.
11. Program the Acre Meter. **See “Loup Acre Meter Kit - Optional (After 05/15/2012)” on Page 3-13.**

## Agitator Kit - Optional

1. Remove knock-outs for 3/4" flange bearings. These are located at each end and center of Seed Box assembly. Hole patterns are as shown below:



**Figure 2-20: Hole Patterns**

**8FT Models - See Figure 2-22.**

**10FT Models - See Figure 2-23.**

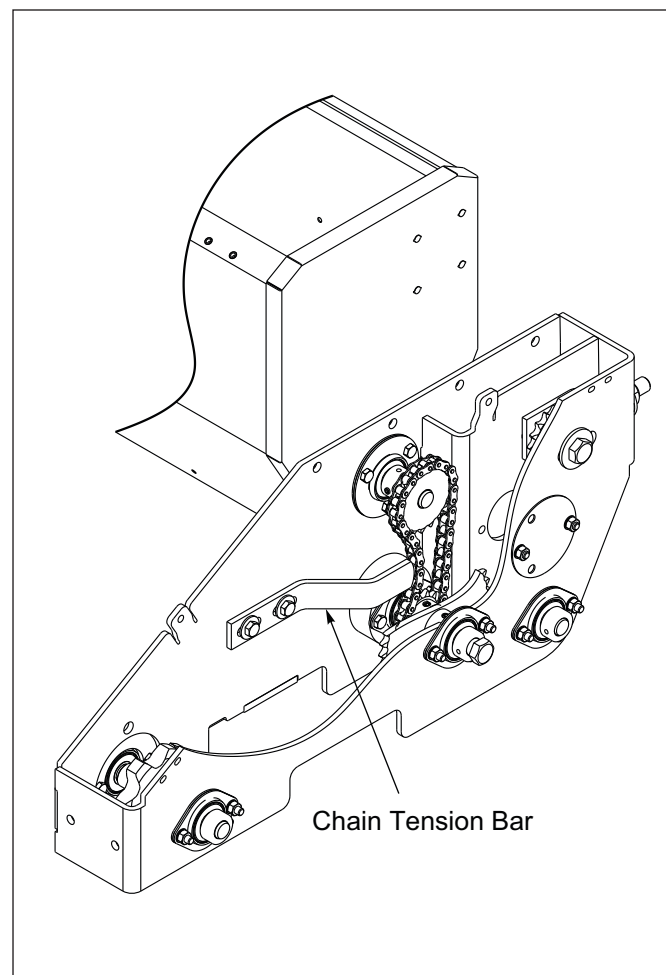
**12FT Models - See Figure 2-24.**

2. Install bearings and 1/4" thick spacer at left end of Seed Box. Secure with three 5/16-18 x 1-1/2 Bolts, Lock Washers and Nuts.
3. Install left end Shaft Agitator and 19 Tooth Sprocket:  
**8FT 3K436, 3/4 x 5-1/4" is a three hole pin.**  
**10FT 1K197, 3/4 x 5-1/4" is a two hole pin.**  
**12FT 1K197, 3/4 x 5-1/4" is a two hole pin.**

End of shaft with the hole 3/4 inch from the end is for the sprocket and slotted pin. Align sprocket with unused lower sprocket already in transmission.

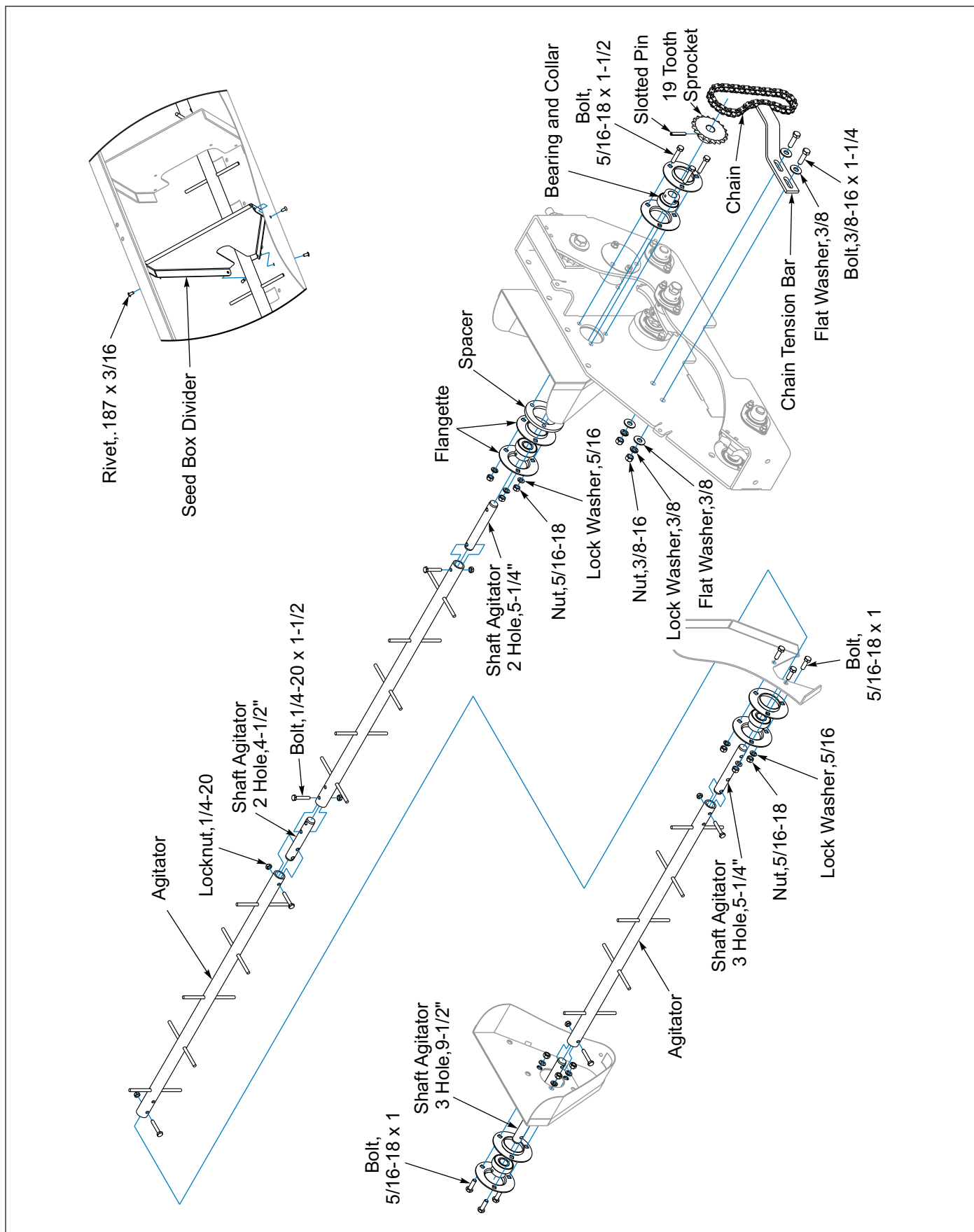
4. Install one of the agitators (they are all the same per kit) on the left shaft. Secure with 1/4-20 x 1-1/2 Bolt and Locknut.
5. Install one of the center shafts in the agitator from Step 4.
6. Install the second agitator. Secure with 1/4-20 x 1-1/2 Bolt and Locknut.
7. Install center bearing and shaft. Secure center bearing with three 5/16-18 x 1-1/2 Bolts, Lock Washers and Nuts. Secure shaft with 1/4-20 x 1-1/2 Bolt and Locknut.
8. Complete assembly in a similar manner for the right hand box.

9. Tighten locking collars in direction of rotation (counter-clockwise when viewed from the right end of machine).
10. Rotate agitator assembly to be sure it turns freely.
11. Install drive chain. Long ends of the connector pins for both chains should point away from each other to prevent interference.
12. Check chain tension bar to be sure it aligns very closely with chain. Bend slightly if needed and install using 3/8-16 x 1-1/4 Bolts, Flat Washers, Lock Washers and Nuts. **See Figure 2-21.**
13. Adjust chain tension so both strands of chain are nearly taut.



**Figure 2-21: Chain Tension Bar**

14. Install Seed Box dividers, secure with .187 x 3/16 rivets.



**Figure 2-22: 8FT Agitator**

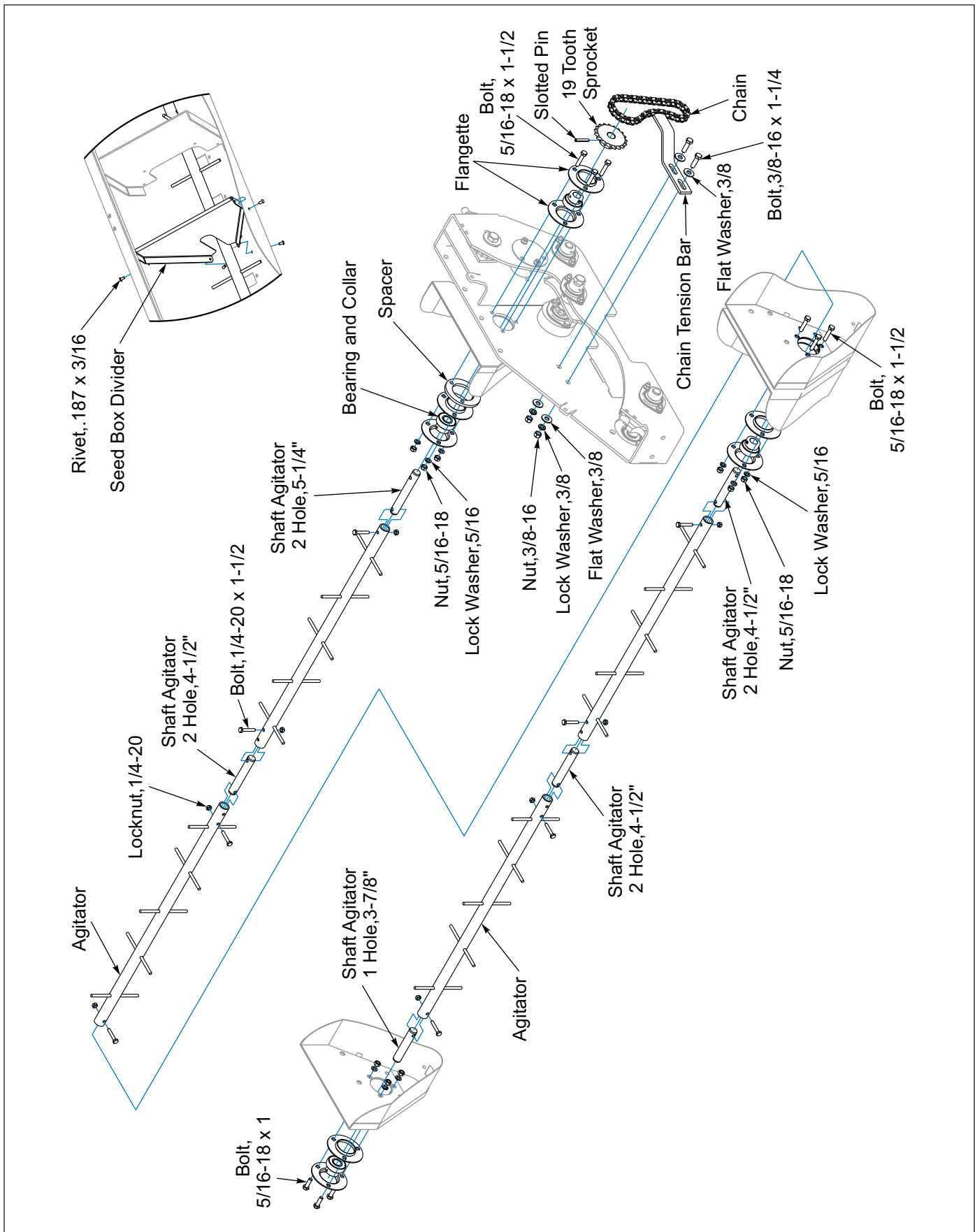
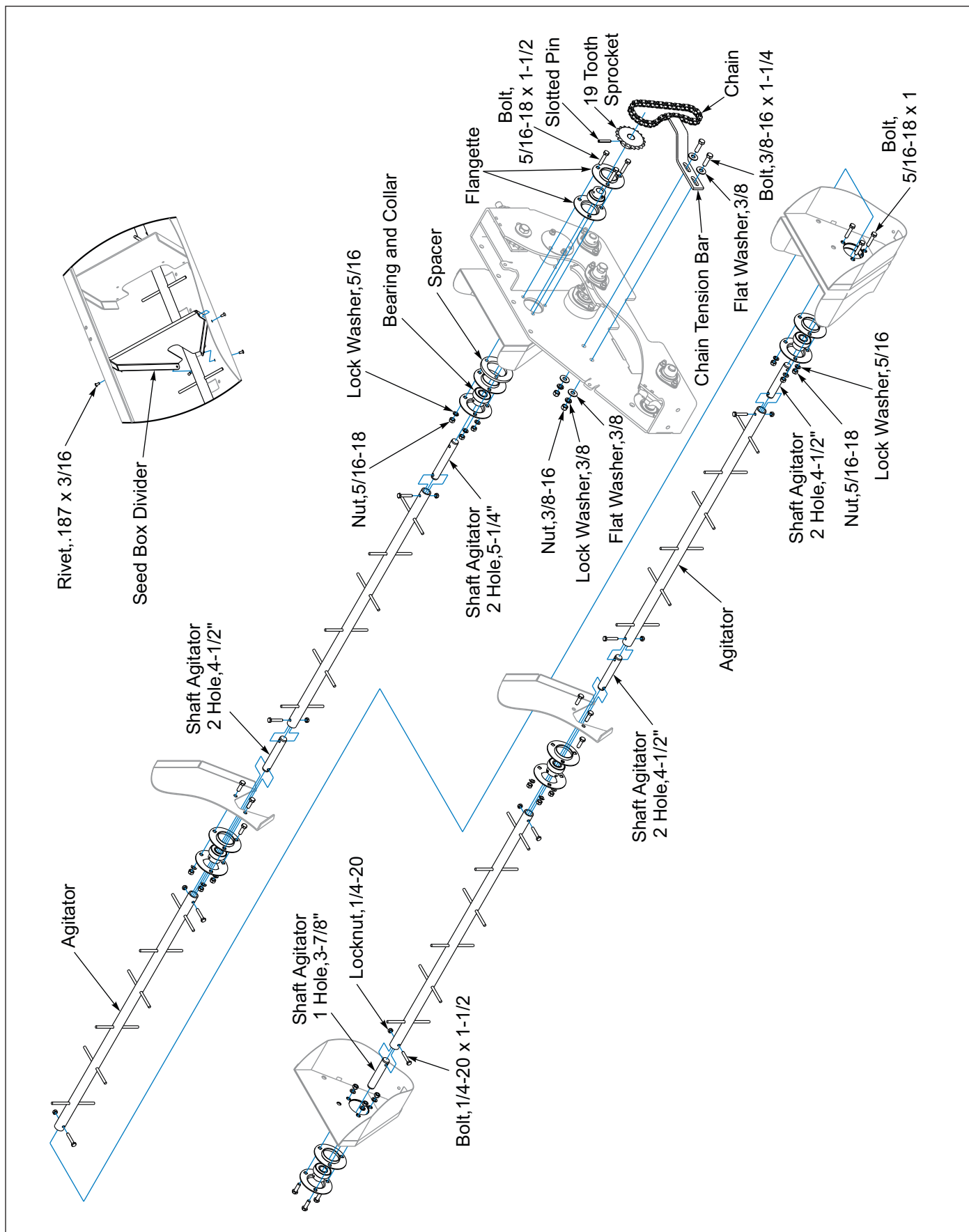


Figure 2-23: 10FT Agitator





**Figure 2-24: 12FT Agitator**

# Scraper Kit, Tube Mounted - Optional

## IMPORTANT

Cannot be used with Coil Tine Track Remover Kit.

## NOTE

If Seeder has been used, check Front Roller Assembly Wheels that they are tight to one another before installing Scraper Kit. See “Front and Rear Roller Adjustment” on Page 4-5.

1. Lower implement onto level ground.
2. Position and assemble the Brackets with the 4-Hole Plate approximately as dimensioned on the front of the Seeder Frame Tube. See Figures 2-30 and 2-31. Secure with 1/2-13 x 4-1/2 x 7-1/2 U-Bolts and Flanged Locknuts.

## NOTE

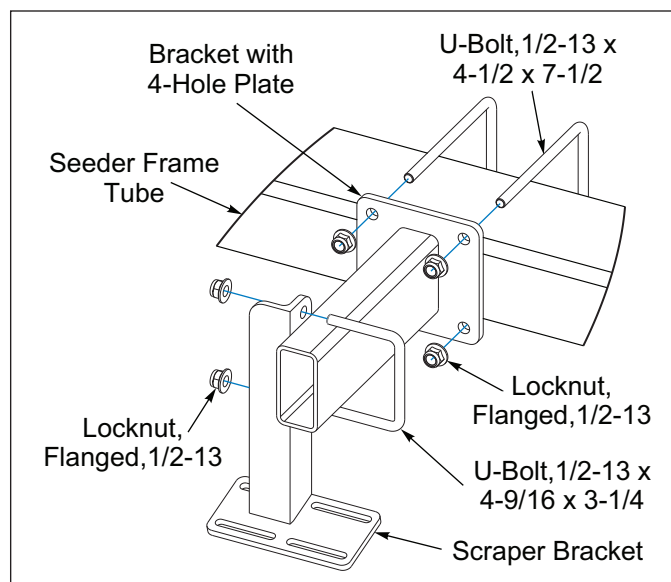
Scraper Brackets should be positioned per application. Use Figures 2-30 and 2-31 only as a reference.

- **12FT Machines with Drawbar Braces:**  
Mount the Brackets with the 4-Hole Plate to the Drawbar Brace Plates with the Drawbar Brace Hardware. See Figure 2-26.
- **3rd Bracket:**  
10FT and 12FT Models require a 3rd Bracket that is to be installed on the Seeder Frame Tube left of center in a place that clears the Drawbar or 3-PT Hitch. See Figure 2-27.

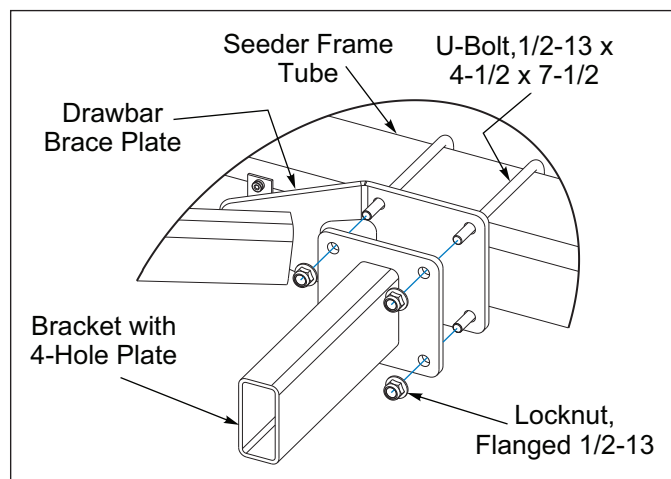
## NOTE

S-Tine Tire Track Remover Kit can be used with Scraper Kit. Do Not mount the outer Brackets with the 4-Hole Plate to the front of the Seeder Frame Tube. Attach the outer Scraper Bracket Angle to the Tire Track Remover Kit S-Tine Bracket Tube with a 1/2-13 x 4-9/16 x 3-1/4 U-Bolt and Flange Locknuts. See Figure 2-28.

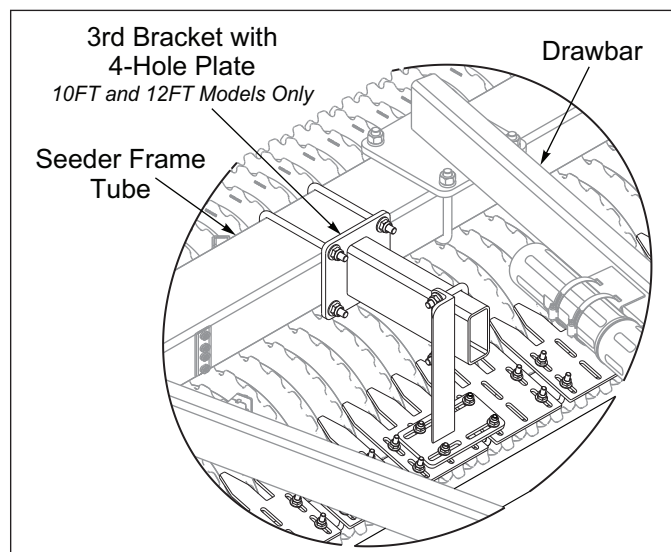
3. Attach the Scraper Brackets to the Bracket Tube with a 1/2-13 x 4-9/16 x 3-1/4 U-Bolt and Flange Locknuts. Do Not tighten at this time. See Figure 2-25.



**Figure 2-25: Scraper Brackets**

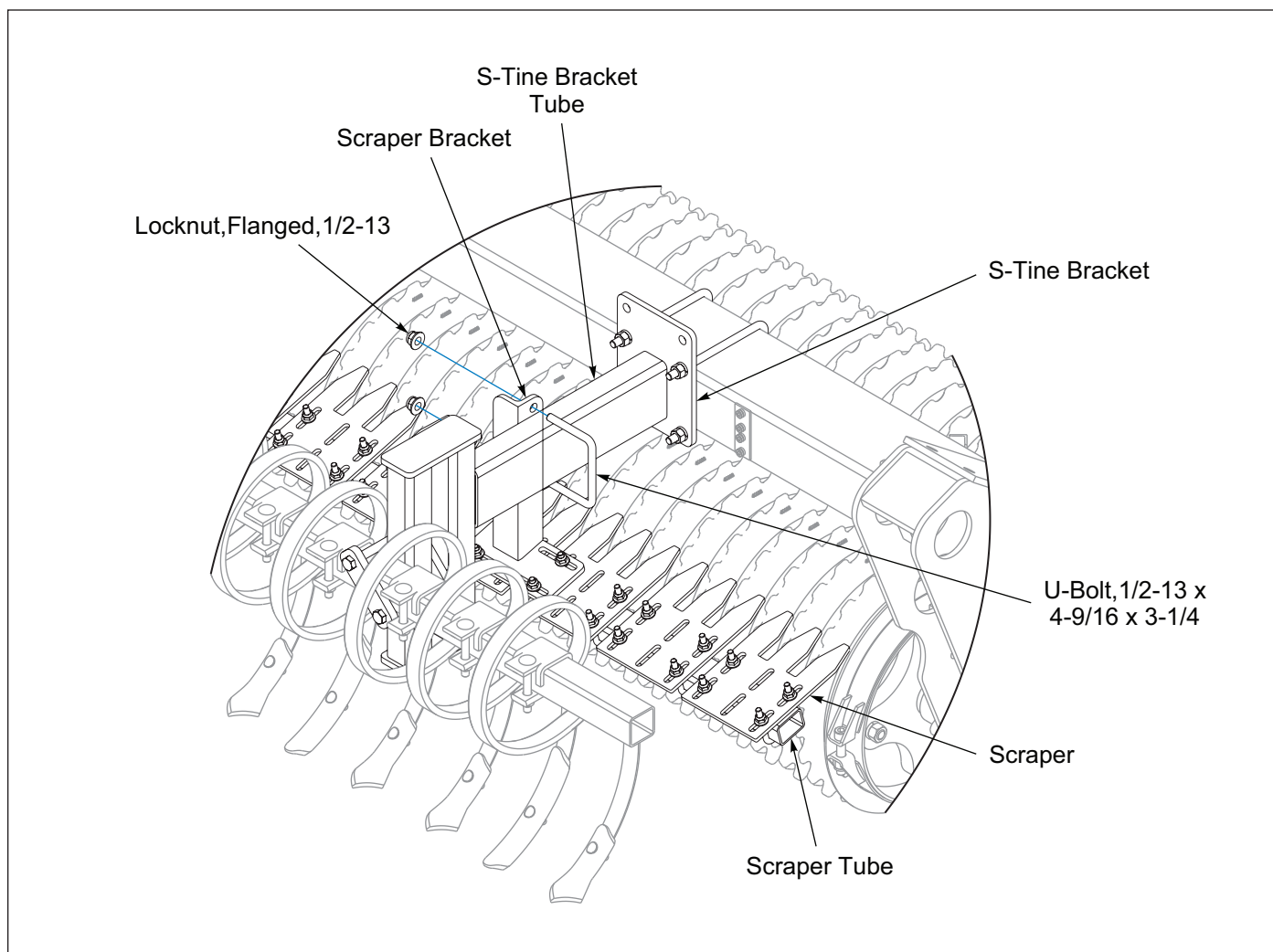


**Figure 2-26: 12FT Drawbar with Braces**



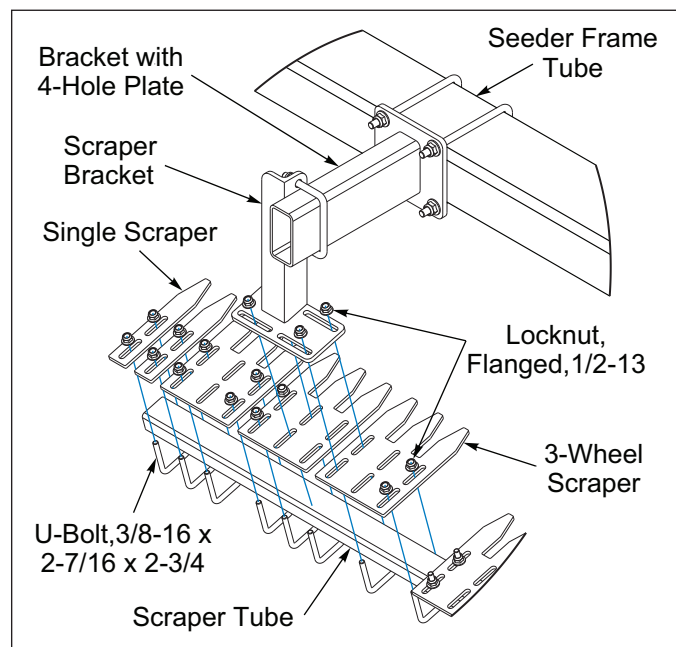
**Figure 2-27: 3rd Bracket Placement - 10' & 12'**



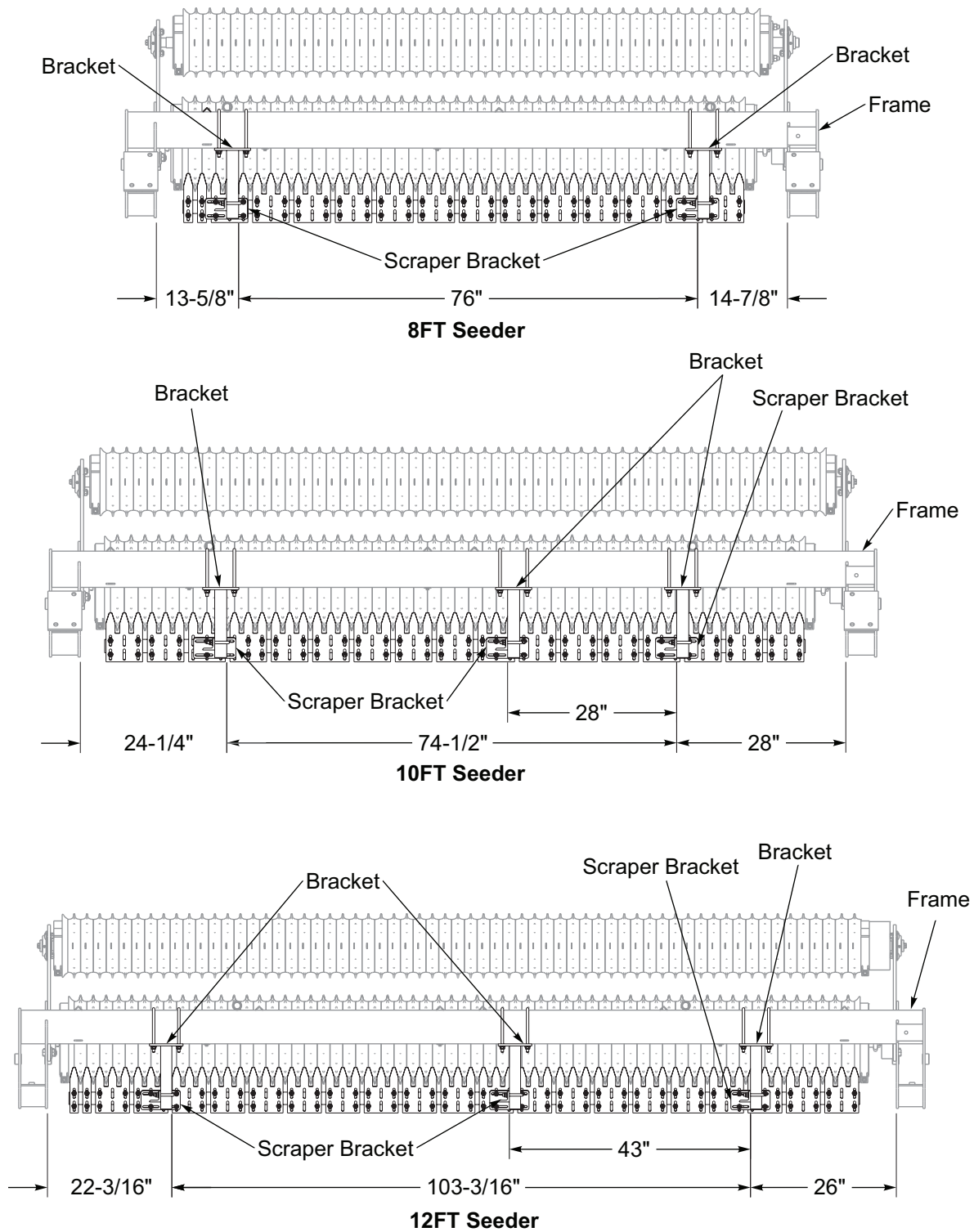


**Figure 2-28: Tube Mounted Scrapers with S-Tine Tire Track Remover**

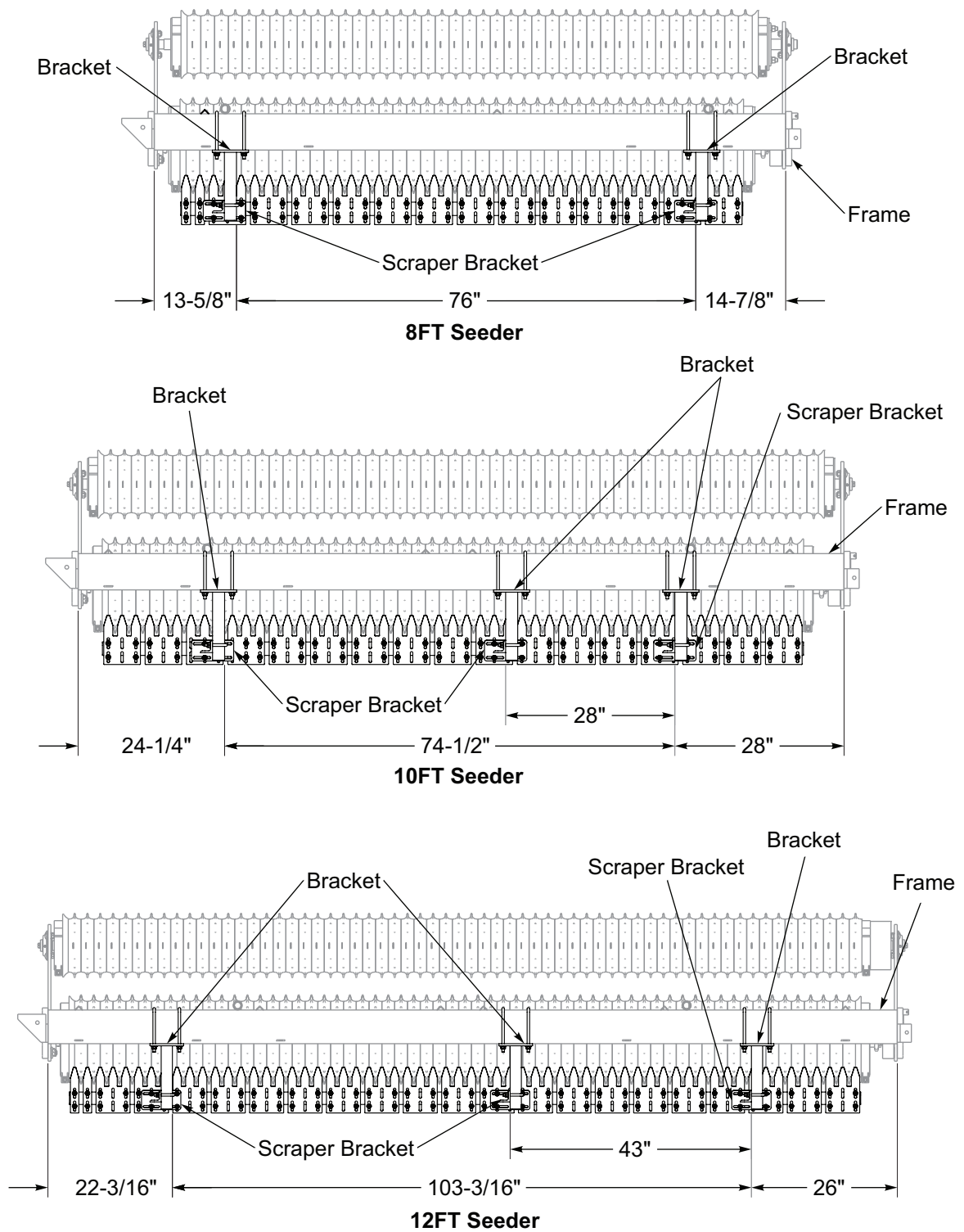
4. Center Scraper Tube with the Seeder Front Roller.
5. Center the Scrapers between the Roller Wheels and attach them to the top of the Scraper Tube in the outer slots with 3/8-16 U-Bolts and Flange Locknuts. Attach the Single Scrapers to the end of the Scraper Tube as needed.
6. Align the Scraper Brackets Slotted Plate to the appropriate Scrapers and attach with the Scraper 3/8-16 Hardware. **See Figure 2-29.** It may be necessary to use the center pair and an outer pair of slots in the Scraper to attach the Scraper Bracket to the Scraper and Tube Assembly. **See Figures 2-30 and 2-31.**
7. Move the Scraper Bracket on the Bracket with 4-hole Plate Tube until the Scrapers are close enough to the Roller Wheels to be functional but without interference, about 3/16" to 1/4" gap between the Scraper and Roller Wheel.
8. Tighten all 1/2-13 Hardware. Adjustment may be required after use.



**Figure 2-29: Scraper Assembly**



**Figure 2-30: Scraper Mounting Dimensions - Pull-Type**



**Figure 2-31: Scraper Mounting Dimensions - 3PT Hitch**

## **S-Tine Tire Track Remover Kit - Optional**

### **IMPORTANT**

S-Tines should not be operated any deeper than necessary to remove Tractor Tire Tracks. Wet soil will stick to the Front Roller Wheels. As the S-Tine draft load is increased the S-Tines may deflect back and make contact with the Front Roller and break.

### **NOTE**

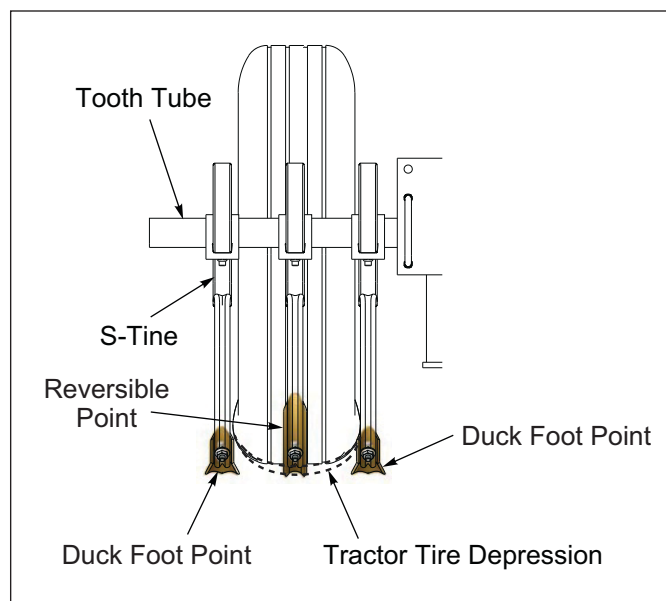
*S-Tine Tire Track Remover Kit includes six S-Tines. Additional S-Tines can be purchased and installed or fewer S-Tines can be used.*

*S-Tine Brackets and S-Tines should be positioned per application. Use **Figure 2-34** only as a reference.*

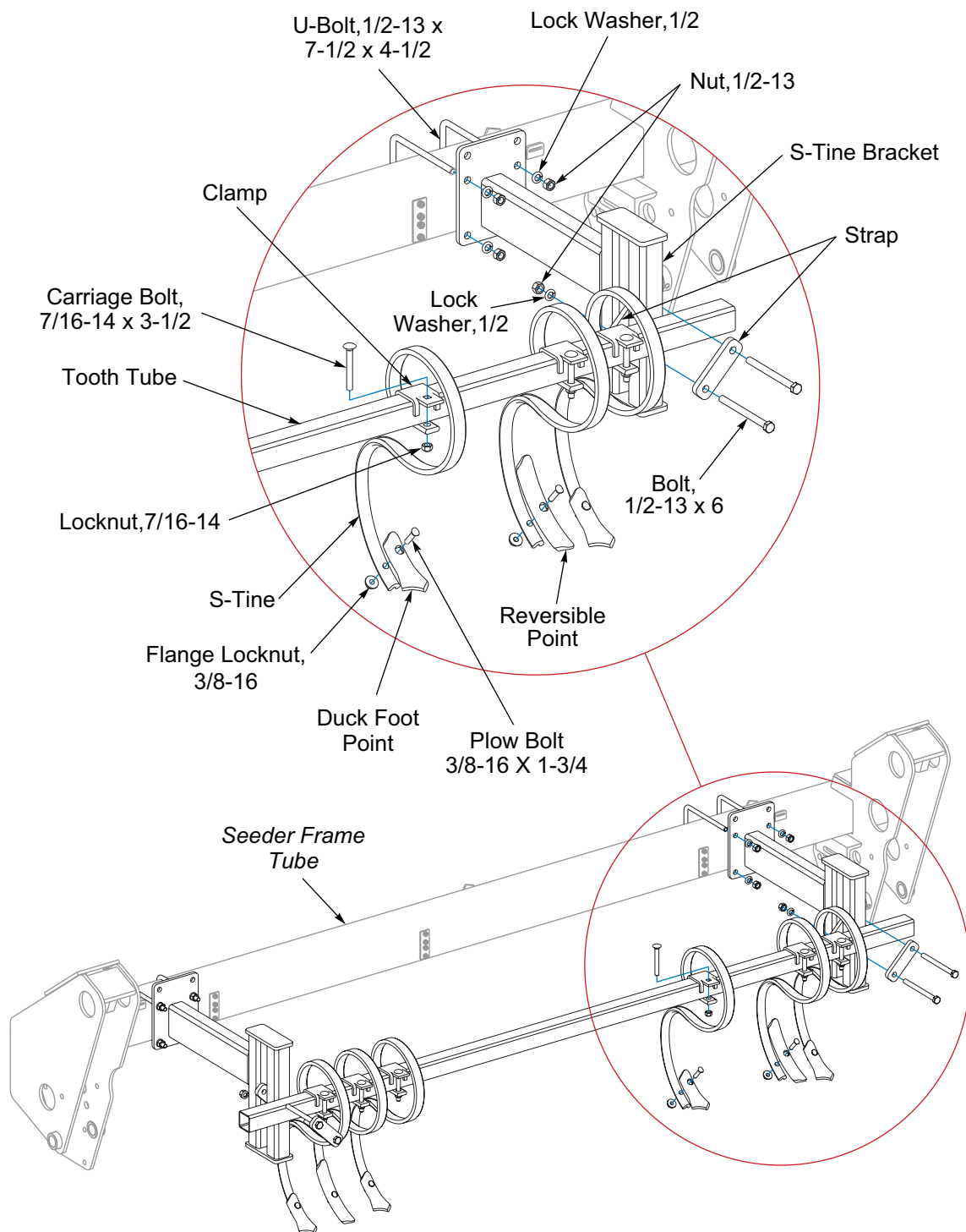
1. Center and position the S-Tine Brackets in relationship with the center of the Drawbar or 3-PT Hitch to the front of the Seeder Frame Tube. **See Figure 2-34.** Secure S-Tine Brackets to the Seeder Frame Tube with 1/2-13 x 7-1/2 x 4-1/2 U-Bolts, Lock Washers and Nuts. **See Figure 2-33.**
2. Center the Tooth Tube between the S-Tine Brackets and attach with Straps, 1/2-13 x 6 Bolts, Lock Washers and Nuts.
3. Attach the S-Tines onto the Tooth Tube in the desired position to cover the Tractor Tire Tracks with Clamps, 7/16-14 x 3-1/2 Carriage Bolts and Locknuts.
4. Assemble the Points to the S-Tines. The suggested pattern is to assemble the Reversible Point onto the center S-Tine and a Duck Foot Point on the S-Tine on either side of the center S-Tine with 3/8-16 x 1-3/4 Plow Bolt and Flanged Locknut. **See Figure 2-32.**

### **NOTE**

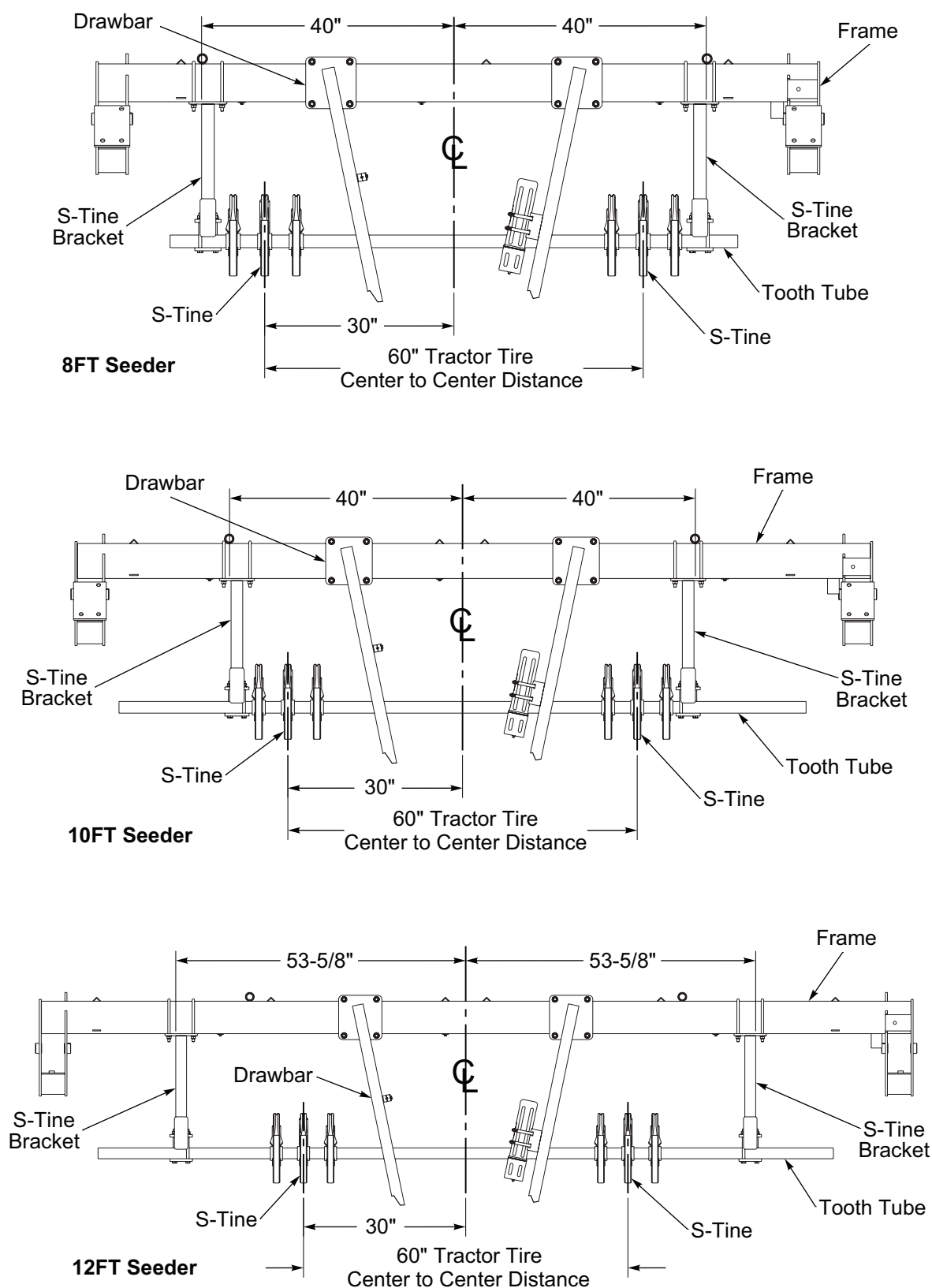
*Scraper Kit can be used with the S-Tine Tire Track Remover. Attach the outer Scraper Bracket Angle to the S-Tine Bracket Tube. Outer Scraper Kit Brackets with the 4-Hole Plate are not used. **See Figure 2-28.** It may be necessary to adjust the Scraper Brackets on the Scraper Assembly for proper positioning of the Scrapers to the Front Roller Wheels.*



**Figure 2-32: S-Tine Point Position**



**Figure 2-33: S-Tine Track Remover Kit - Optional**



**Figure 2-34: S-Tine Mounting Dimensions**

## TABLE OF CONTENTS

Table provided for general use.

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## Coil Tine Track Remover Kit - Optional

### **IMPORTANT**

#### **Cannot be used with the Scraper Kit**

1. Slide the Coil Tines onto the Round Bar so that the straight leg is frontward. **See Figure 2-35.**
2. Mount an Arm Weldment and a Coil Tine to the Round Bar second hole from the right end and the third hole from the left end with 3/8-16 x 3 Bolts, Flat Washers, Lock Washers and Nuts.
3. Mount the Coil Tines to the Round Bar with 3/8-16 x 2-1/2 Bolts, Flat washers, Lock Washers and Nuts.
4. Position the Brackets on the Seeder Frame Tube and attach with 1/2-13 U-Bolts, Lock Washers and Nuts. **Do not** tighten at this time.
5. Attach the Adjusting Angles to Brackets with Lock Screws. Secure the Adjusting Angles vertically to the Brackets with a 1/2 x 1-1/4 Clevis Pin and Hair Pin Cotter.
6. Attach the Arm Weldment to the Adjusting Angles with 1/2-13 x 1-3/4 Bolts and Locknuts. Tighten the Locknuts to allow free side to side swinging.
7. Center each Coil Tine Track Remover Assemble behind the Tractor Tires. Tighten the Bracket U-Bolts on the Seeder Frame Tube.
8. On each Coil Tine Track Remover Assemble, attach a Chain End Link to an Adjusting Angles with 3/8 x 1-1/4 Bolt, Flat Washer, Lock Washer and Nut. Drape the chain across to the other Adjusting Angle and place the Chain in the Adjusting Angle Slot ensure that the chain.

The vertical position can be changed by removing the Clevis Pins and Lock Screws and moving the Adjusting Angles up or down.

To inactivate the Coil Tines, remove the 1/2 x 1-1/4 Clevis Pins and loosen the Lock Screws. Swing the Coil Tine Bar Assembly upward and sideways. Hold Coil Tine Bar Assembly in place by wrapping the Chain under the Round Bar and placing the Chain into the Adjusting Angle Slot. Re-tighten the Lock Screws. Insert Clevis Pin into Adjusting Angle for storage.



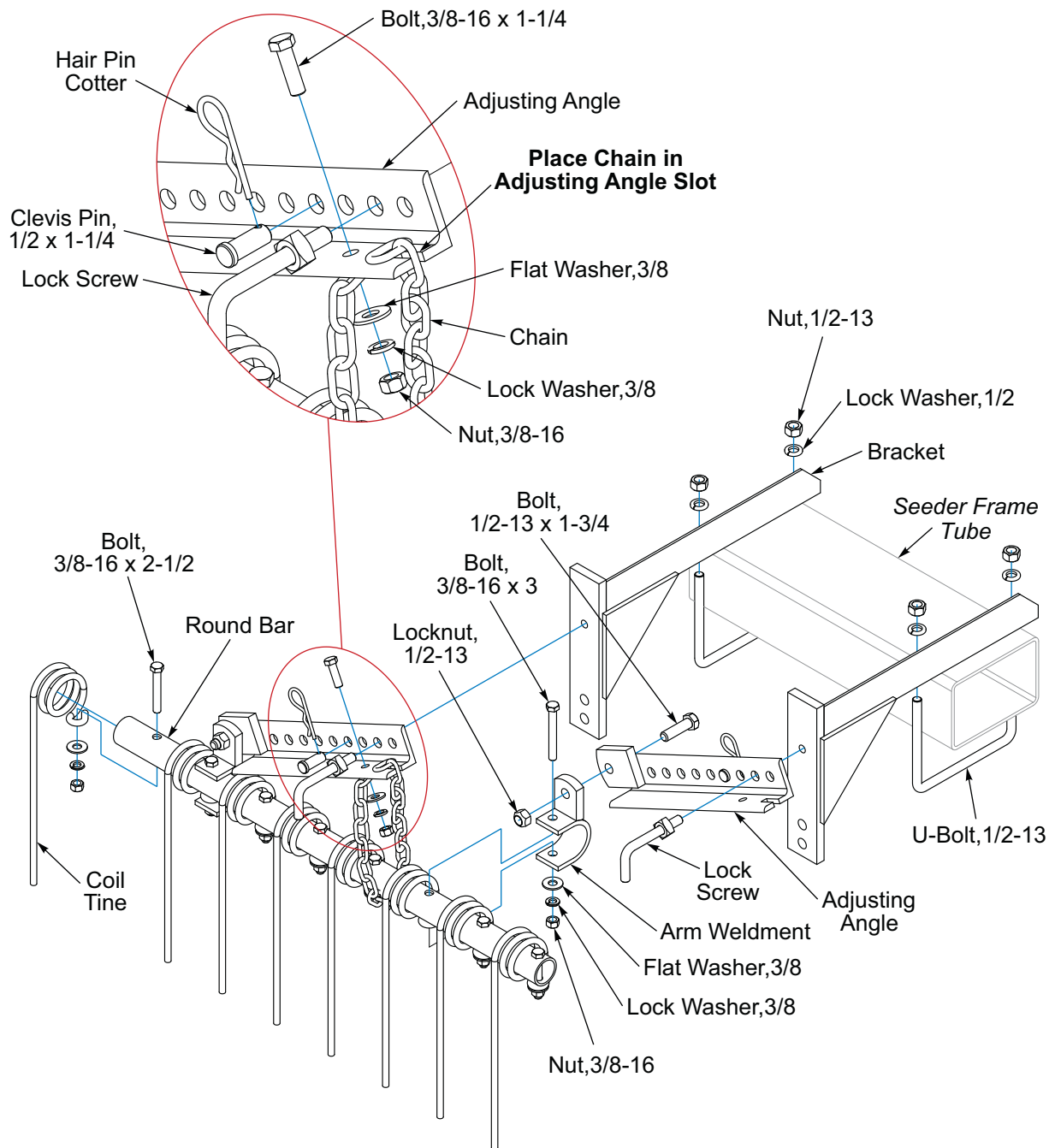
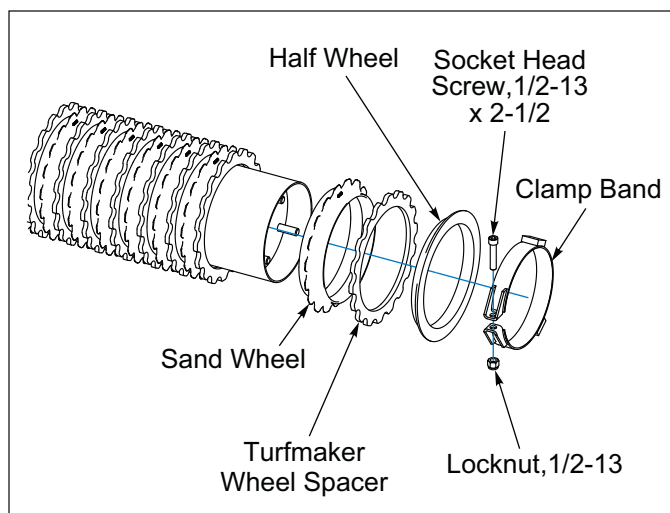


Figure 2-35: Coil Tine Track Remover - Optional

## Turfmaker Sprockets - Optional

Turfmaker Sprockets provide extra traction in certain soil types. See your Landoll/Brillion dealer for more information.

1. Position the Turfmaker Wheel Spacer between each 4C689 Sand Wheel. **See Figure 2-36.**
2. At the end of the process slide a Half Wheel onto the axle next to the last Wheel Spacer.
3. Slide the Clamp Band over the axle and next to the Half Wheel.
4. Insert 1/2-13 Socket Head Screw into Clamp Band, secure with Locknut.
5. Make sure the sprocket does not bind.



**Figure 2-36: Turfmaker Sprockets**

# Operation

**DANGER**

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

**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.

**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**

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 Turfmaker - Alfalfa Seeder is available as a Pull-Type or 3-PT mounted version.

- A Pull-Type seeder is equipped to be pulled by a tractor with a drawbar, no clevis.
- A 3-PT mounted seeder is compatible with CAT 2 Free Link, CAT 2 Quick Coupler and CAT 3 Narrow Quick Coupler.

## Tractor Preparation for Attaching 3-PT Hitch Seeder

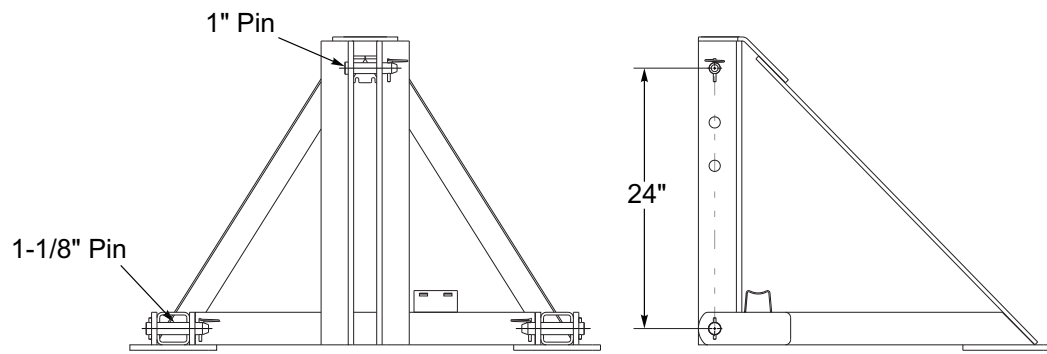
1. Brillion 8, 10, and 12 Foot 3-PT Seeders are designed to be pulled with Category 2 Free Link and Category 2 or 3N Quick Hitch Coupler. **See Figure 3-1.** Be sure Tractor's Hitch Capacity is not exceeded by the Laden Mass of the Seeder. **Refer to Tractor Operator's Manual.**
2. Be sure Tractor is properly ballasted. A minimum 25% of Tractor and Equipment Laden Mass must be on Tractor Front Wheels in transport position to maintain stability. Calculate the Loaded Seeder Mass. **See "Specifications" on Page 5-1.** (Seeder weight plus the seed box capacity with desired seed.) **Refer to Tractor Operator's Manual.**
3. Check the Tractor tire inflation levels to ensure that they are properly inflated for the additional Laden Seeder Mass. Refer to the Tractor Operator's Manual. Be sure not to over ballast and exceed Tractor Tire Capacity.
4. Set Tractor 3-PT Lower Links to allow lateral (torsional) float. **Refer to Tractor Operator's Manual.** If left rigid, your Brillion Seeder may not follow ground contours resulting in poor germination.
5. Set Lift Rod length long enough to ensure Seeder can float downward in the case of a furrow or waterway. Lower Links should be the same height, leveling your Brillion Seeder side to side. Fine adjustments may need to be made after hookup is completed. **Refer to the Tractor Operator's Manual.**
6. Attach Seeder to the Tractor's 3-PT Free Link or Quick Coupler using the appropriate size pins and bushings. Be sure to use the hardware provided and is in good working order. **See Figure 3-1.**
7. **Refer to the Tractor Operator's Manual** for Quick Hitch Operation.



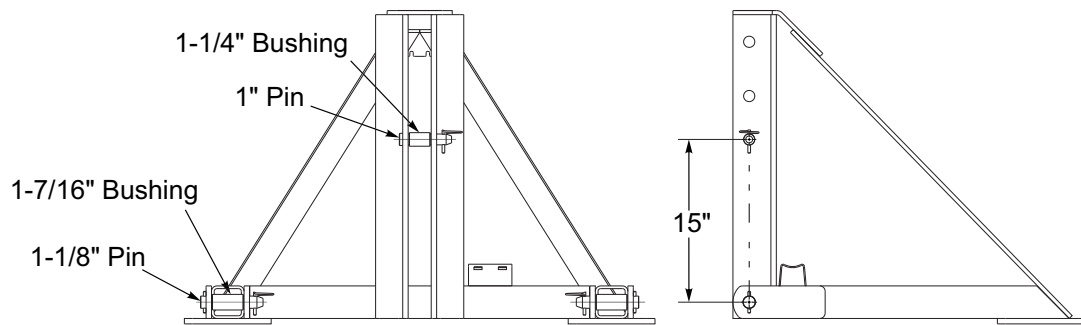
## DANGER

**Do not allow any bystanders to stand between the tractor and the machine while backing up to the machine.**

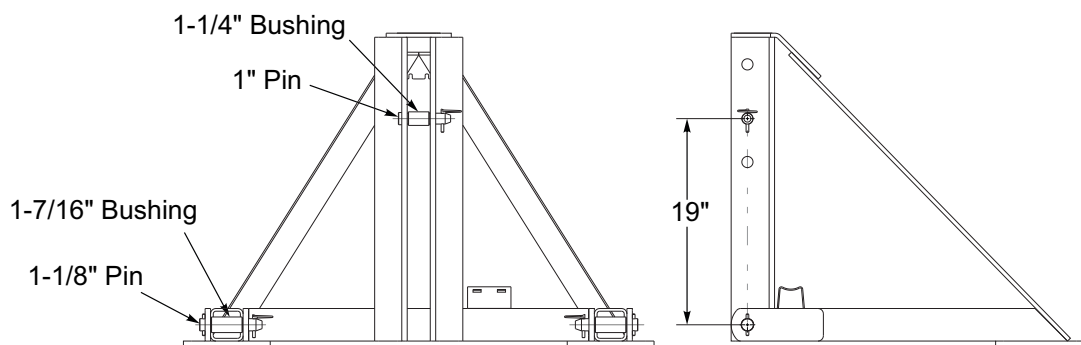
8. Connect 7-Pin Connector to Tractor Outlet, routing cable by avoiding pinch points.
  - Make sure the tractor has a good clean receptacle, free of dirt and corrosion.
  - Make sure the 7-Pin Connector is inserted ALL the way in. With tighter fitting pins, operator may think the Connector is all the way in, but really isn't.
  - Make sure the tractor receptacle cover latches over the keyway on the 7-Pin Connector to hold the Connector in place.
  - If an operator plugs in the 7-Pin Connector, but the lights do not seem to work right, check the above items to make sure there is a good connection with the 7-Pin Connector.
9. Raise seeder. Remove Parking Pin. **See Figure 3-3.** Adjust or lock tractor sway stabilizers if equipped, centering the Seeder with the Tractor. **Refer to the Tractor Operator's Manual.**
10. Lower Seeder, if necessary level Seeder side to side (laterally) by adjusting Lift Rod length. Level Seeder front to back by adjusting the Tractor Upper Link length as required. **Refer to the Tractor Operator's Manual.**



**Category 2 Free Link**



**Category 2 Quick Coupler**



**Category 3 Narrow Quick Coupler**

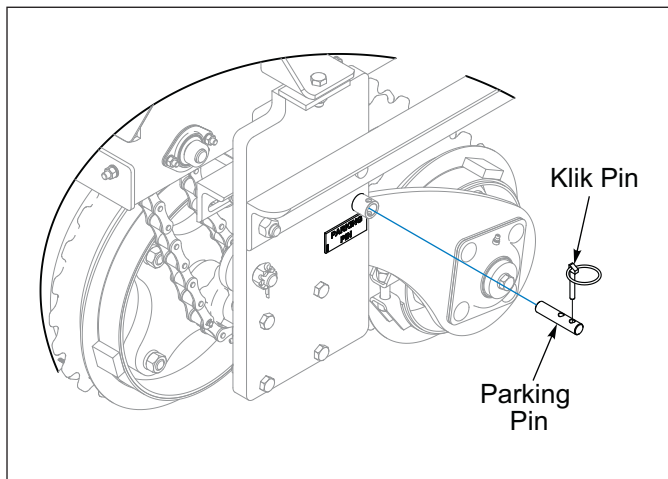
**Figure 3-1: 3-PT Hitch**

## Attaching/Detaching 3-PT Hitch Seeder



### WARNING

To prevent the machine from tipping backward on the frame, disengage parking pin only when the seeder is fully attached to the tractor. Be sure to observe the following sequences.



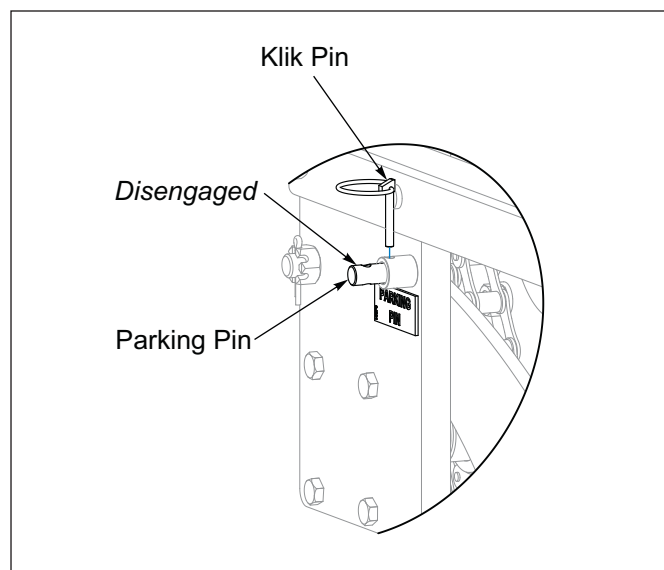
**Figure 3-2: Parking Pin**

Hooking Up the Seeder:

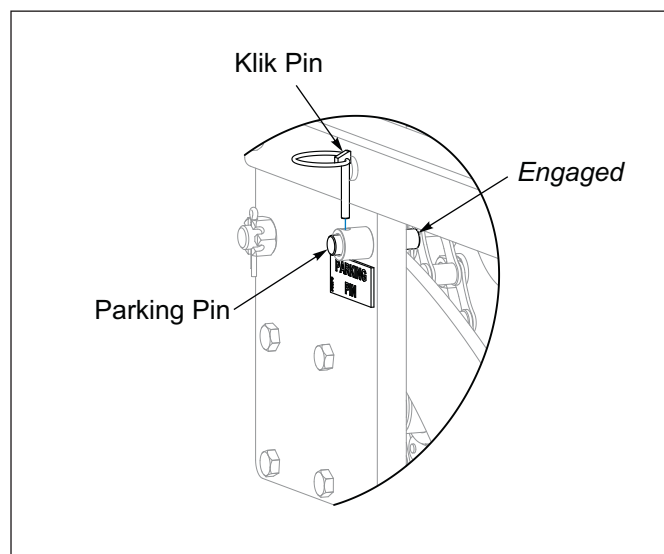
1. Attach Seeder to the Tractor.
2. Raise Seeder. Remove the Klik Pin, pull the Parking Pin into the outer position, replace the Klik Pin. **See Figures 3-2 and 3-3.**

Unhooking the Seeder:

1. With Seeder raised, remove the Klik Pin, push in the Parking Pin, replace the Klik Pin. **See Figures 3-2 and 3-4.**
2. Disconnect the Tractor from Seeder, lower Seeder.



**Figure 3-3: Parking Pin Disengaged**



**Figure 3-4: Parking Pin Engaged**

## Tractor Preparation for Attaching Pull Type Seeder



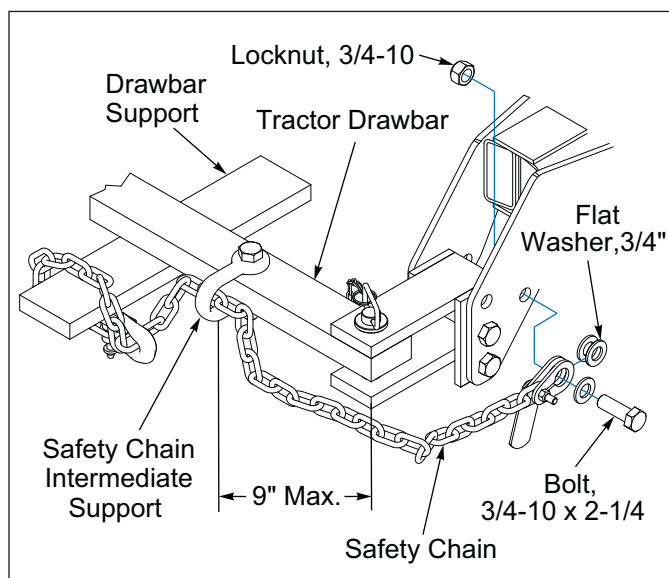
### DANGER

**Do not allow any bystanders to stand between the tractor and the machine while backing up to the machine.**

1. Align the Tractor Drawbar with the machine. Raise or lower the Drawbar, as needed, using the Jack. Attach the unit with proper size Hitch Pin and Safety Clip.
2. Always move the Jack to the transport position 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 from coming loose. **See Figure 3-5.**

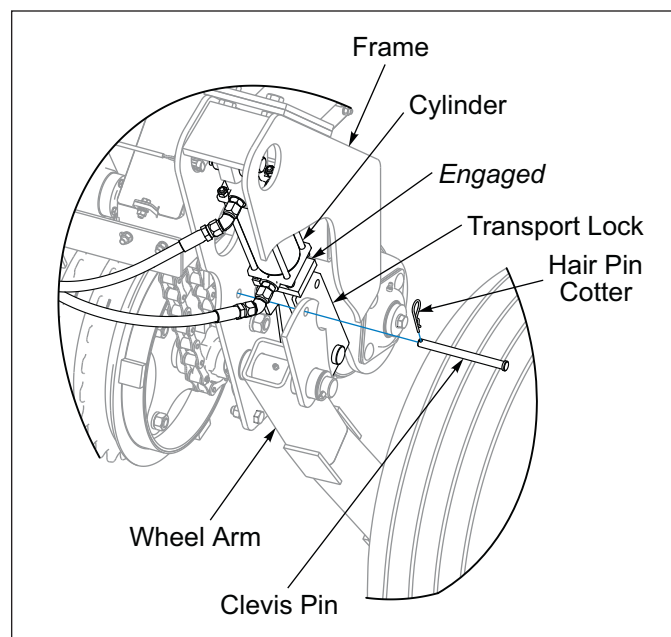
### IMPORTANT

**If the Clevis Pin is not installed, the Transport Lock may bounce up and cause significant damage to the Cylinder and Hydraulic Fittings.**



**Figure 3-5: Safety Chain**

5. If Transport Locks are not engaged, fully extend the Hydraulic Lift Cylinders and rotate Transport Locks in the engaged position over the Cylinder Rods. Secure with the Clevis Pins and Hairpin Cotter Pins. **See Figure 3-6.**



**Figure 3-6: Transport Lock Engaged**

6. Connect the 7-Pin Connector to Tractor Outlet, routing cable by avoiding pinch points.
  - Make sure the Tractor has a good clean Receptacle, free of dirt and corrosion.
  - Make sure the 7-Pin Connector is inserted ALL the way in. With tighter fitting pins, operator may think the Connector is all the way in, but really isn't.
  - Make sure the Tractor Receptacle Cover latches over the keyway on the 7-Pin Connector to hold the Connector in place.
  - If an operator plugs in the 7-Pin Connector, but the lights do not seem to work right, check the above items to make sure there is a good connection with the 7-Pin Connector.

## Attaching/Detaching Pull Type Seeder

Attaching the Seeder for Field Operations:

Seeder parked lowered

1. Attach Seeder to the Tractor.
2. Raise the Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks in the engaged position over the Cylinder Rod. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-6.**
3. Raise and rotate Drawbar Jack to stored position before setting the machine in motion.
4. Transport the Seeder to the area to be seeded.
5. Disengage each Transport Lock so that the Transport Lock rests on the Wheel Arm. Insert the Clevis Pin in front of the Transport Lock. **See Figure 3-7.**

*Seeder parked raised*

1. Attach Seeder to the Tractor.
2. Raise and rotate Drawbar Jack to stored position before setting the machine in motion.
3. If not already done, raise Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks in the engaged position over the Cylinder Rod. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-6.**
4. Transport the Seeder to the area to be seeded.
5. Disengage each Transport Lock so that the Transport Lock rests on the Wheel Arm. Insert the Clevis Pin in front of the Transport Lock. **See Figure 3-7.**

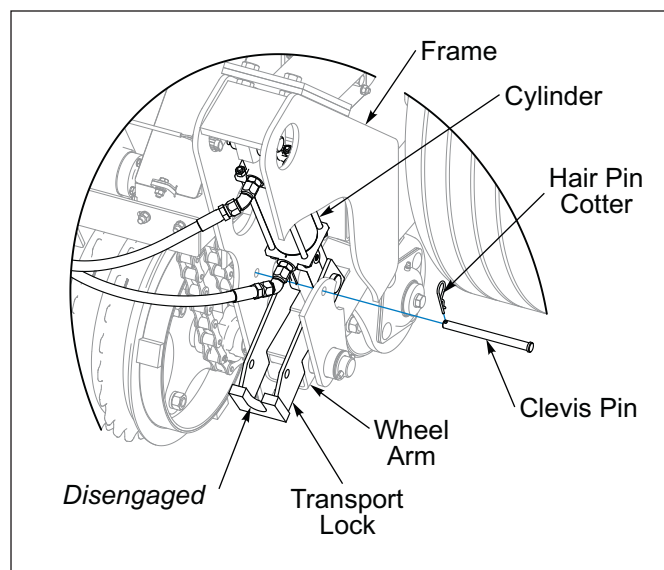
### Detaching the Seeder:

*Parking Seeder lowered*

1. Raise the Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks to the stored position. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-7.**
2. Lower Seeder, relieve pressure from Hydraulic Hoses.
3. Rotate and Lower Drawbar Jack.
4. Disconnect the Tractor from Seeder.

*Parking Seeder raised*

1. Raise the Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks to the engaged position. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-6.**
2. Relieve pressure from Hydraulic Hoses.
3. Rotate and lower Drawbar Jack.
4. Disconnect the Tractor from Seeder.



**Figure 3-7: Transport Lock Disengaged**

## General Operation

1. The minimum horsepower requirements are typically 6-8 horsepower per foot. This will vary widely due to speed, moisture, and types of soils. Local dealers can help in making recommendations for your areas. For 3-PT Hitch Models size tractor by 3-PT Hitch Capacity.
2. Operating speed is typically 4-6 mph. Excessive speed can result in undesirable germination, seeder bouncing, or other unpredictable results. Reduce speed in rocky conditions to prevent wheel breakage.



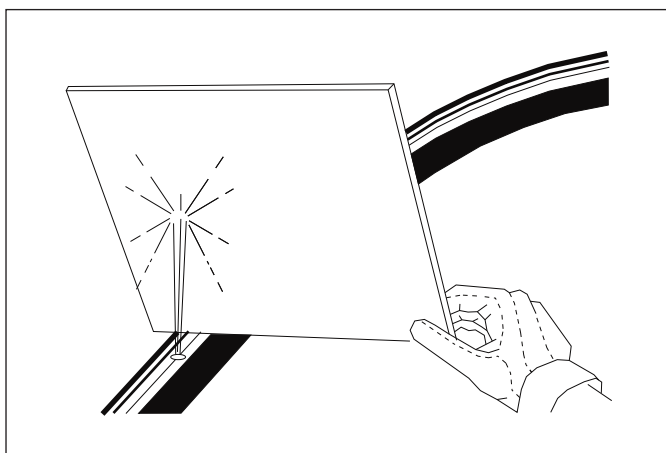
## Hydraulic Lift System

The Drawbar Seeder is equipped with a Hydraulic Lift System to raise and lower the unit in the field.



### WARNING

Escaping hydraulic fluid can cause serious personal 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 3-8.) Keep all components (cylinders, hoses, fittings, etc.) in good repair.



**Figure 3-8: Hydraulic Leak Detection**

If the Hydraulic System is not filled with oil it should be purged of air before transporting and field operations.

1. Carefully hitch the Seeder to the Tractor and connect the Hydraulic Lift Hoses.
2. Check to make sure the Tractor Hydraulic Reservoir is full of the manufacturer's recommended oil.
3. If the Transport Locks are engaged, raise the Seeder and disengage the Transport Locks. **See Figure 3-7.**
4. Slowly raise the machine until both Lift Cylinders are fully extended. Lower and raise the unit to verify that both Cylinders are working throughout the stroke. Fully extend the Lift Cylinders and continue to hold the lever until both Cylinder Rods movement stops. Raise/Lower machine 5 times to purge air from the system.
5. Do not loosen any Hoses or Fittings.
6. Recheck Tractor Reservoir to make sure it is within operating limits.
7. Raise the Seeder and install Transport Locks. **See Figure 3-6.**

**Lift Circuit approximate oil requirement: .4 gallons.**

# Seed Box Seed Rate Adjustment



## WARNING

- To Prevent damage to seed meters, do not apply excessive force to adjusting nuts. This is especially important when closing meters as seed in flutes can be pinched between cut-off and washer in seed cup.
- Do not close meters more than 1/8" when there is seed in the meters without rotating the seed shaft to prevent damage to the rotating washers and retainer rings in the seed meters.
- Do not attempt to open meters more than 1". (Feed rolls could become disengaged from washer in the seed cup.)

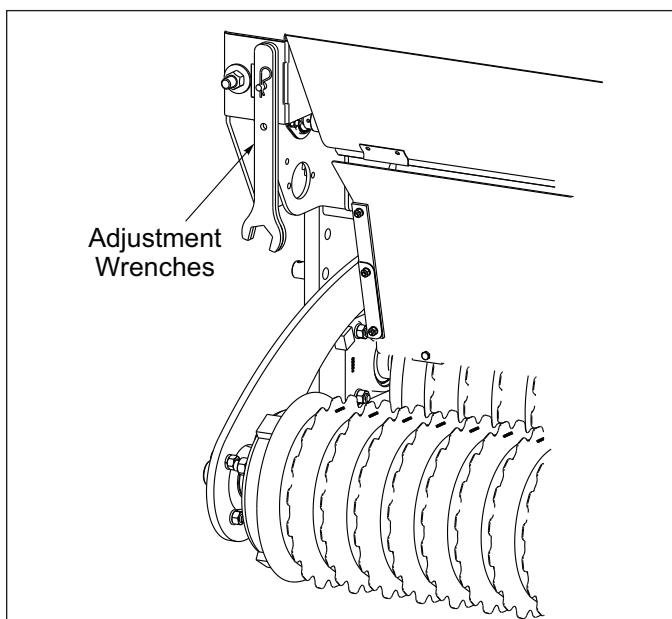
## NOTE

To avoid Seed Meter damage, if there is seed in the Meters, decrease rate in small increments. Decrease rate no more than one nut revolution and rotate Seed Shaft to purge seed from Meters. Continue adjustment as needed.

## NOTE

Before filling with seed be sure Seed Shaft turns freely and Seed Meters are free of any foreign matter.

Wrenches for adjustment are stored on a Pin at the back of the Transmission. See Figure 3-9.



**Figure 3-9: Adjustment Wrenches**

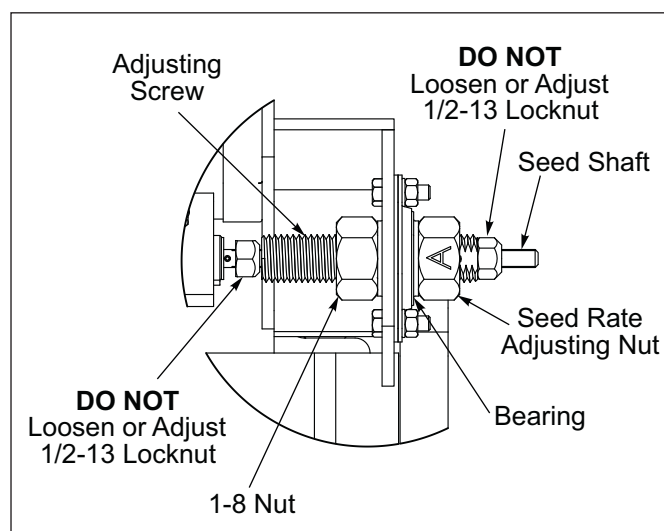
## IMPORTANT

If equipped, the Clutch must be disengaged when Seed Shafts are turned manually for Calibration.

Seed Rate Charts specific to Seeder Model are located inside the Seed Box Cover and in this manual. See **Figure 3-11**. It should be used as a general guide only. Based upon your Seeder Model.

Because of seed variation, a more accurate rate can be determined by turning the 15/16" Hex Nut on the Transmission to calibrate the Seeder. See **"Calibration for Unlisted Seeds"** on Page 3-10.

On the right side, the Seed Rate for the Seed Meters can be set by adjusting the Seed Rate Adjusting Nut and Adjusting Screw. See **Figure 3-9**.



**Figure 3-10: Seed Box Seed Rate Adjustment**

## IMPORTANT

Do Not Loosen or Adjust the 1/2-13 Locknut. See **Figure 3-10**.

1. To **increase** the rate of seeding, loosen the 1-8 Nut and Seed Rate Adjusting Nut with supplied wrenches. Back the 1-8 Nut away from the Bearing. Set the Seed Rate Adjusting Nut appropriate letter with the Adjusting Screw corresponding number for the desired Seed Rate. Tighten the 1-8 Nut up to the Bearing.
2. To **decrease** the rate of seeding, loosen the 1-8 Nut and Seed Rate Adjusting Nut with supplied wrenches. Set the Seed Adjusting Nut appropriated letter with the Adjusting Screw corresponding number for the desired Seed Rate. Tighten the 1-8 Nut up to the Bearing.

Seed Meters discharge to the front of the machine to aid the operator in determining proper operation. In addition, reflective amber decals are placed on the seed shaft to indicate rotation.

## PLANTING RATES

1. RATES ARE FOR 13 TOOTH DRIVER. DOUBLE THESE VALUES FOR 26 TOOTH DRIVER.
2. RATES ARE INTENDED AS A GUIDE ONLY. VARIATIONS IN SIZE AND CLEANLINESS WILL AFFECT RATES. CHECK ACREAGE AND POUNDS OF SEED USED FOR BEST RESULTS.

INDICATOR SETTINGS	POUNDS PER ACRE								POUNDS PER 1000 SQ FT							
	1A	2A	3A	4A	5A	6A	7A	8A	1A	2A	3A	4A	5A	6A	7A	8A
ALFALFA (UNCOATED)	26	61	95	139	174	209	252	295	0.60	1.40	2.18	3.19	3.99	4.80	5.79	6.77
BAHIA	18	43	78	104	139	174	209	234	0.41	0.99	1.79	2.39	3.19	3.99	4.80	5.37
BERMUDA (HULLED)	18	52	95	148	191	226	261	304	0.41	1.19	2.18	3.40	4.38	5.19	5.99	6.98
BIRDSFOOT TREFOIL (BROADLEAF)	26	70	104	148	226	278	330	391	0.60	1.61	2.39	3.40	5.19	6.38	7.58	8.98
BLUE GRASS (KENTUCKY)	9	34	61	87	113	139	165	191	0.21	0.78	1.40	2.00	2.59	3.19	3.79	4.38
BLUE GRASS (PARK KENTUCKY)	9	26	52	78	104	122	139	156	0.21	0.60	1.19	1.79	2.39	2.80	3.19	3.58
BLUE GRASS (SHERMAN BIG)	9	18	26	43	52	61	70	87	0.21	0.41	0.60	0.99	1.19	1.40	1.61	2.00
CANOLA	0	52	*	87	113	148	182	217	0.00	1.19*	2.00	2.59	3.40	4.18	4.98	5.79
CENTPEDE	26	52	70	95	130	148	174	191	0.60	1.19	1.61	2.18	2.98	3.40	3.99	4.38
CLOVER (ALSIKE, LADINO, SWEET, RED)	26	61	104	139	182	226	261	295	0.60	1.40	2.39	3.19	4.18	5.19	5.99	6.77
CLOVER (ALYCE, CALIF., CRIMSON, HUBAM)	18	52	87	130	182	217	261	330	0.41	1.19	2.00	2.98	4.18	4.98	5.99	7.58
CRESTED WHEAT	9	18	26	34	43	52	61	70	0.21	0.41	0.60	0.78	0.99	1.19	1.40	1.61
CROWN VETCH	26	70	113	165	217	270	322	365	0.60	1.61	2.59	3.79	4.98	6.20	7.39	8.38
FLAX	18	52	87	113	148	174	200	234	0.41	1.19	2.00	2.59	3.40	3.99	4.59	5.37
HARDING GRASS	18	43	70	95	122	148	174	200	0.41	0.99	1.61	2.18	2.80	3.40	3.99	4.59
HIGHLAND BENT	17	34	50	65	79	94	109	124	0.39	0.78	1.15	1.49	1.81	2.16	2.50	2.85
KLEIN GRASS	18	61	104	148	191	243	295	338	0.41	1.40	2.39	3.40	4.38	5.58	6.77	7.76
LESPEDEZA (KOREAN UNHULLED)	18	43	78	113	148	182	226	261	0.41	0.99	1.79	2.59	3.40	4.18	5.19	5.99
LESPEDEZA (KOREAN HULLED)	26	61	104	148	182	226	270	304	0.60	1.40	2.39	3.40	4.18	5.19	6.20	6.98
LESPEDEZA (SERICEA UNHULLED)	9	34	61	87	113	139	165	182	0.21	0.78	1.40	2.00	2.59	3.19	3.79	4.18
LESPEDEZA (SERICEA HULLED)	26	70	113	165	209	261	313	356	0.60	1.61	2.59	3.79	4.80	5.99	7.19	8.17
LOVE GRASS (WEEPING)	18	61	104	148	191	234	286	338	0.41	1.40	2.39	3.40	4.38	5.37	6.57	7.76
LOVE GRASS (SAND)	18	52	87	122	165	209	243	295	0.41	1.19	2.00	2.80	3.79	4.80	5.58	6.77
MILLET	18	61	104	148	191	234	286	330	0.41	1.40	2.39	3.40	4.38	5.37	6.57	7.58
NORTHUP KING MIXTURE	10	20	29	38	46	55	65	74	0.23	0.46	0.67	0.87	1.06	1.26	1.49	1.70
RED TOP	9	26	43	61	70	78	87	104	0.21	0.60	0.99	1.40	1.61	1.79	2.00	2.39
REED CANARY GRASS	9	26	43	61	78	95	113	139	0.21	0.60	0.99	1.40	1.79	2.18	2.59	3.19
SCOTT'S FAMILY GRASS	8	15	23	30	38	46	53	59	0.18	0.34	0.53	0.69	0.87	1.06	1.22	1.35
SWITCH GRASS (CLEANED AND HULLED)	0	26	43	61	78	104	122	148	0.00	0.60	0.99	1.40	1.79	2.39	2.80	3.40
TILLAGE RADISH	0	66	102	143	185	226	266	310	0.00	1.52	2.34	3.29	4.25	5.20	6.11	7.11
TIMOTHY	18	43	78	122	156	191	234	278	0.41	0.99	1.79	2.80	3.58	4.38	5.37	6.38

Figure 3-11: Seed Rate Chart

### NOTE

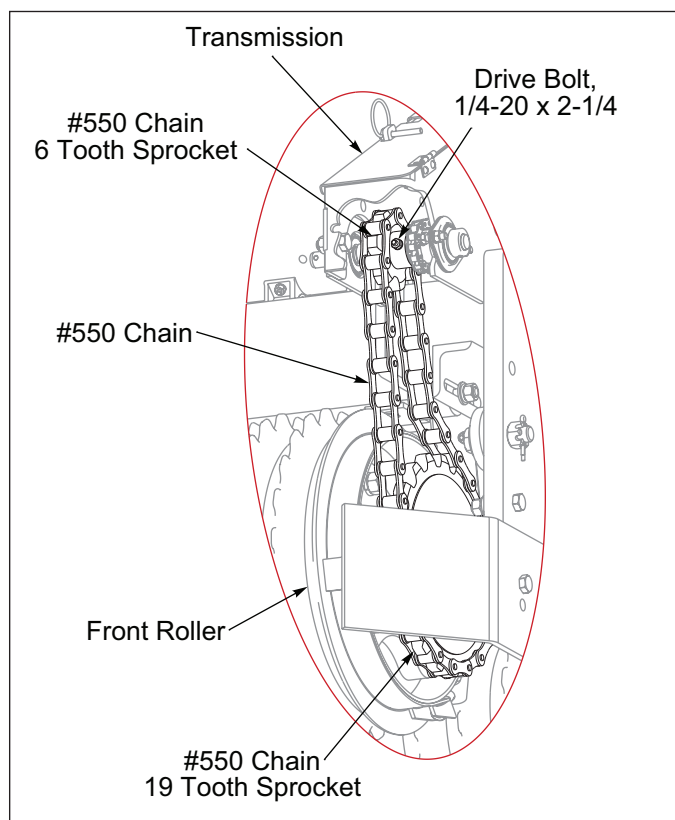
Brillion assumes no liability pertaining to seeding rates achieved with this seeder. Rates listed are general in nature and should be used as starting points only. Seed varieties and blends listed represent those calibrated through in-house test meters. Variations in actual rates may be realized due to differences in seed lots. For accurate rates with seeds being used, follow the calibration instructions listed on the seed chart inside the box cover or refer to the Operator's Manual. *The information listed in the above seed charts is subject to change without notice.*

## Transmission Drive Bolt

### NOTE

#550 Chain connects Front Roller #550 Chain 6 Tooth Sprocket with Transmission #550 Chain 13 Tooth Sprocket.

Transmission Drive Bolt (1/4-20 x 2-1/4) from the #550 Chain 13 Tooth Sprocket, must be removed for Calibration and can also be removed if it is desired to use the Seeder as a Pulverizer, Rollers only. (The Acre Meter will not register when the Bolt is removed). **See Figure 3-12.**



**Figure 3-12: Transmission Drive Bolt**

## Calibration for Unlisted Seeds

Brillion/Landoll assumes no liability pertaining to Seeding Rates achieved with this Seeder. Rates listed are general in nature and should be used as starting points only. Seed varieties and blends listed represent those calibrated through in-house test meters.

Variations in actual rates may be realized due to differences in Seed Lots. **For accurate rates with seeds being used, follow the Calibration Instructions listed on the Seed Chart inside the Seed Box Cover.**

### NOTE

*The information listed in the Seed Charts is subject to change without notice.*

### IMPORTANT

**Rates are for the 13 Tooth Driver. Double these values for the 26 Tooth Driver. See Figure 3-11.**

**Front Seed Box may be Calibrated for Unlisted Seed as follows.**

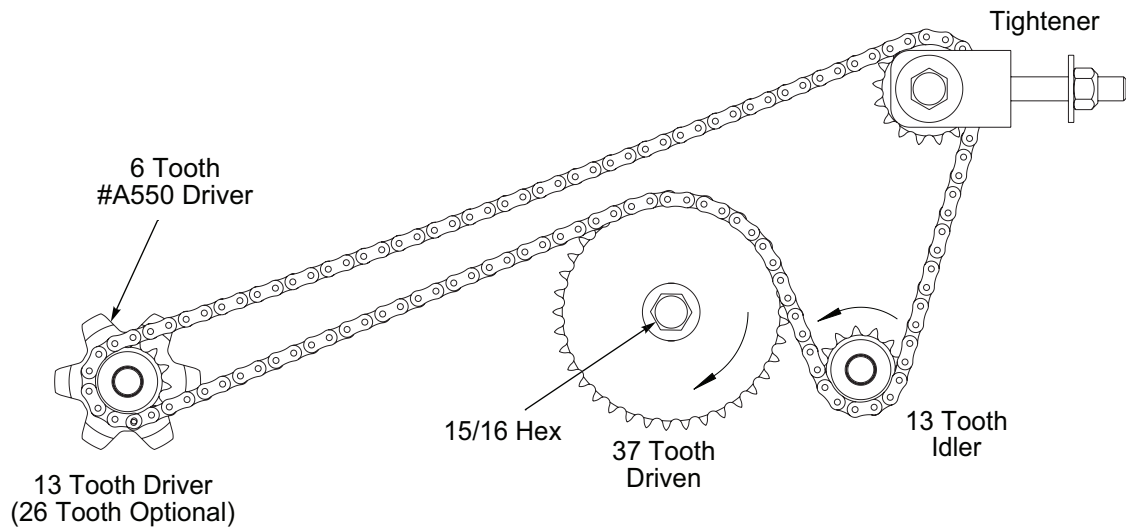
1. Remove Transmission Drive Bolt (1/4-20 x 2-1/4) from the #550 Chain 6 Tooth Sprocket. **See Figure 3-12.**
2. Raise Seeder and install Transport Locks. **See Figure 3-6.**
3. Close Rear Seed Box openings if they contain Seed.
4. Place a Canvas or Tarp under the Machine to catch Seed.
5. Turn 15/16 Hex on Transmission Shaft Clockwise(CW). **See Figure 3-13.**

**8FT Seeder:** Use 136 turns if you follow Step 6. *Reference, the Seed Shaft rotates 1,360 Revolutions per Acre Seeded with 13 Tooth Driver.*

**10FT Seeder:** Use 109 turns if you follow Step 6. *Reference, the Seed Shaft rotates 1,090 Revolutions per Acre Seeded with 13 Tooth Driver.*

**12FT Seeder:** Use 91 turns if you follow Step 6. *Reference, the Seed Shaft rotates 910 Revolutions per Acre Seeded with 13 Tooth Driver.*

6. Weigh Seed (lbs) and Multiply by 10 (20 for 26 Tooth Driver) for approximate Planting Rate in Pounds per Acre.

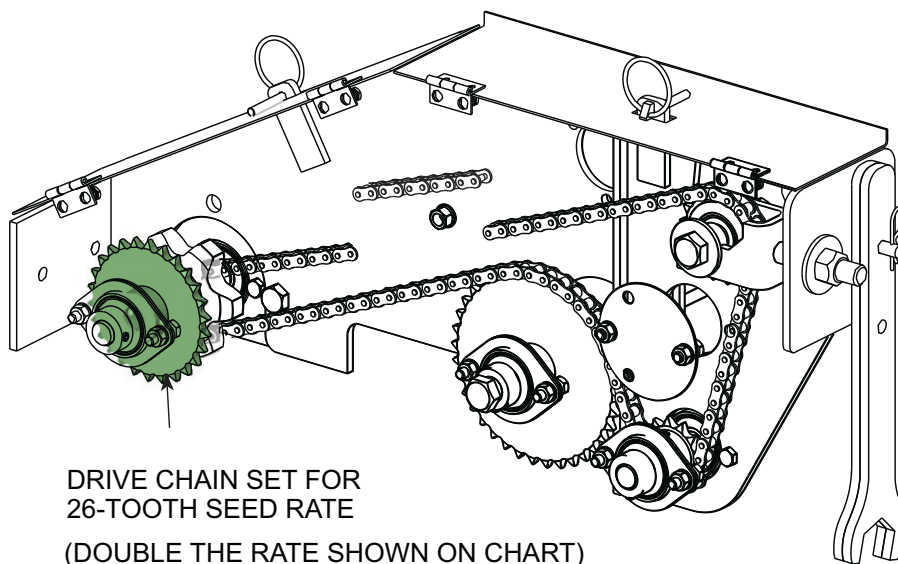
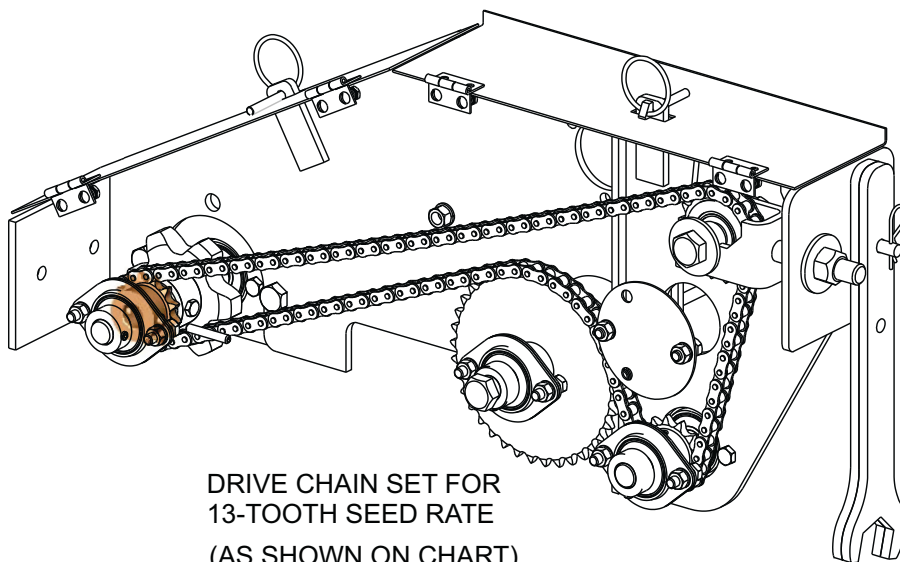


**Figure 3-13: Transmission Drive**

## Speed-Up Kit - Optional

Seed rates can be doubled by using a 26-Tooth Sprocket and following the procedure below:

1. Loosen and remove #550 and #40 Drive Chains.
2. Remove 1/4 x 2 1/4 Capscrew, Lock Washer, and Nut from #55 (large) Sprocket Hub on Front Transmission Shaft.
3. Remove Roll Pin from #40 (small) Sprocket Hubs on the Front Transmission Shaft.
4. Remove the Locking Collar from left side of the Front Transmission Shaft.
5. Remove Bearing Bolts from right side of the Front Transmission Shaft.
6. Move the shaft far enough to the right to remove the 13 Tooth Sprocket.
7. Install the new 26 Tooth Sprocket.
8. Replace all items (except #40 chain) in reverse order.
9. Add extra links to #40 chain.
10. Adjust chain tension. **See Figure 3-14.**



**Figure 3-14: Speed-Up Kit**



# Loup Acre Meter Kit - Optional (After 05/15/2012)

## **IMPORTANT**

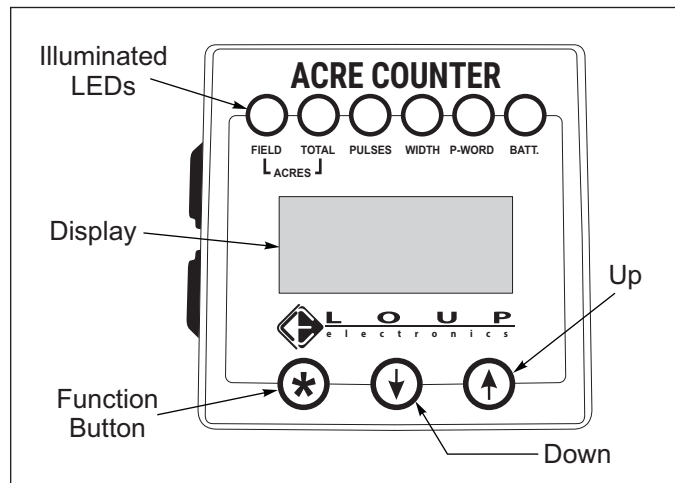
**Acre Meter is dust and splash resistant, under no circumstances should this unit be submerged in any conductive, corrosive, or flammable liquid. At no time use high pressure water or air to clean it, as this can damage the unit.**

## Settings for Loup Acre Meters

The battery operated Acre Meter operates in one of two modes.

1. In sleep mode, the display is blank and the counter is accumulating acres. Sleep mode will be entered if a button is not pressed for 20 seconds.
2. In entry mode, the display is on, and the operator can enter values. To get into entry mode, press the **\*/FUNC** button. If you continue to press the **\*/FUNC** button, the acre counter will cycle through the functions that it can perform. The LEDs above the display indicate which function is selected.

**The available functions are:** Field Acres, Total Acres, Pulses per 400 feet, Width, Password and Low Battery. **See Figure 3-15.**



**Figure 3-15: Acre Meter**

## Field Acres

Press the **\*/FUNC** button until the “**FIELD**” LED is lit. The digits indicate the acres covered since the field acre counter was cleared.

To clear the field acre count, press the **UP** and **DOWN** buttons simultaneously for two seconds. If a password has been entered, you will not be able to clear the total acre count. Field acres will count in tenths of an acre up to 9999.9 acres.

## Total Acres

Press the **\*/FUNC** button until the “**TOTAL**” LED is lit. The digits indicate the acres covered since the total acre counter was cleared.

To clear the total acre count, press and hold the **UP** and **DOWN** buttons for two seconds. If a password has been entered, you will not be able to clear the total acre count. Total acres will count from .1 to 99999 acres.

## Pulses Per 400 Feet

Press the **\*/FUNC** button until the “**PULSES**” LED is lit. The number in the display indicates how many pulses are generated for every 400 feet driven. There are two methods to enter the pulses per 400 feet:

1. If you know the number, select it using the **UP** and **DOWN** buttons. When you press the **\*/FUNC** button, the Acre Counter will accept the number in the display as the new pulses per 400 feet. **See Table 3-1.**
2. If you do not know the pulses per 400 feet, press and hold the **UP** and **DOWN** buttons until the “0” appears in the display. The “**PULSES**” LED will blink. The acre counter is now counting shaft rotations. Enter the cab, lower seeder, and drive 400 feet. Press the **\*/FUNC** button to wake up the acre counter. The “**PULSES**” LED will light. The number displayed is the pulses per 400 feet. Press the **\*/FUNC** button to accept the setting.

If a password is set, you will not be able to adjust the pulses.

## Width

Press the **\*/FUNC** button until the “**WIDTH**” LED is lit. The number displayed is the length of your machine in feet.

To adjust the width, press the **UP** and **DOWN** buttons. If a password has been entered, you will not be able to adjust the width.

The width can be adjusted from .1 to 99.9 feet, in tenths of a foot.

## Password

The password function allows you to protect the total acre count, pulses per 400 feet, and width settings with a password. This stops anyone from accidentally changing those settings. When the acre counter is shipped, the password is disabled. You can modify the pulses per 400 feet and machine width at any time.

Press the **\*/FUNC** button until the “**PASS**” LED is lit. The digits will display the word “**Ent**” or “**dis**”.

**If the display shows “dis”.** The password is disabled. The total acre count, pulses/400 feet, width, and password settings can be adjusted using the **UP** and **DOWN** buttons. The password can also be changed using the **UP** and **DOWN** buttons.

**If the display shows “Ent”:** You must enter your password using the **UP** and **DOWN** buttons. When your password is displayed, press the **\*/FUNC** button to test the password. If the password is correct, you will be able to change the acre counter settings. The password will be viewable until the acre counter enters sleep mode. When the acre counter is in entry mode again, you will have to re-enter the password to change settings.

If the password is not correct, you will not be able to change the acre counter settings. When the **“PASS”** function is selected again, **“Ent”** will appear in the display.

## Changing the Password

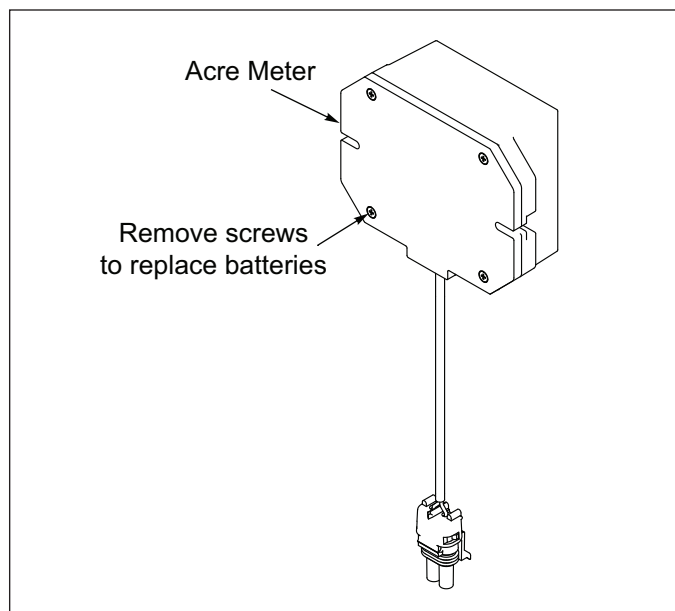
Select a new password using the **UP** and **DOWN** buttons. Press the **\*/FUNC** button until the word **“Set”** appears in the display. Release the **\*/FUNC** button. The number in the display is your new pass code. Make sure you record this number. Press and hold the **\*/FUNC** button until the word **“dis”** appears in the display.

If the password is forgotten, it can be disabled by removing the batteries. The password is intended for rental units. It is recommended that a seal be affixed to the rear plate of the acre counter to determine if the settings have been tampered with.

## Battery Replacement

The battery operated acre counter uses 3 AA batteries. The **“BATT”** LED will light when the batteries require replacement. Remove the acre counter from the machine and undo the 4 screws on the back of the case. **See Figure 3-16.** This will separate the housing from the rear plate. Replace the batteries with 3 high quality AA alkaline batteries.

**See “Acre Meter Troubleshooting” on Page 4-9.**



**Figure 3-16: Battery Replacement**

# Loup Acre Meter Kit - Optional (Before 05/15/2012)

## Settings

- When the meter is set to “count” mode in pulses screen, meter will register only magnetic wheel revolutions.
- The meter must be in sleep mode (blank screen) to calculate acres or to count pulses.
- The count screen must have a value other than zero (0000) to scroll to other modes or screens.
- To reset the FIELD ACRES screen to zero (0000), press the **UP** and **DOWN** buttons simultaneously.

## To Program Meter

1. Press the **Function (FUNC)** button to scroll to pulses screen.
2. Enter the number of pulses using the up or down buttons for the model listed in the chart. **See Table 3-2.**
3. Press **FUNC** to set the pulses. (If screen goes blank before you press **FUNC**, repeat steps 1 and 2).
4. Press **FUNC** to scroll to the width screen.
5. Enter the width of seeder using the **UP** or **DOWN** buttons for the model listed in the chart. **See Table 3-2.**
6. Press **FUNC** to set the width. (If screen goes blank before you press **FUNC**, repeat steps 4 and 5).
7. Press **FUNC** to scroll through the screens to check that the correct pulses and width have been entered.

## To Enter Password

1. Press **FUNC** to scroll to password screen.
2. Pick a numeric password and enter it by using the **UP** or **DOWN** buttons, until your password is displayed.
3. Press **FUNC** to set password; screen will show **“(set)”**. Record number - it is required if you decide to disable password.
4. Let screen go blank - password is now entered.
5. Press **FUNC** to scroll to the password screen it will show **“Ent”**. If the screen does not show **“Ent”**, repeat steps 2, 3 and 4.

## To Disable Password

1. Press **FUNC** to scroll to the password screen it will show **“Ent”**.
2. Use **UP** or **DOWN** button to enter password (number).
3. Press **FUNC** to scroll around to pass screen again. Number entered in step 2 will appear.
4. Press **UP** or **DOWN** button to enter 0.
5. Press **FUNC**; **(dis)** will appear. Password is now disabled.



**Table 3-1: Acre Meter Settings (After 05/15/2012)**

MODEL				PULSES	WIDTH
SSPT604				22	5.0
SSP4	SS4			44	4.0
SSP5				44	5.0
SSP6				44	6.0
SSP8	SSBP8	SS8	SSB8	58	8.0
SSP10	SSBP10	SS10	SSB10	58	10.0
SSP12	SSBP12	SS12	SSB12	58	12.0
SSP16		SS16		45	16.0
SSP108	SS108			58	8.0
SSP110	SS110			58	10.0
SSP112	SS112			58	12.0
SSP208/2081	SS208/2081			58	8.0
SSP210/2101	SS210/2101			58	10.0
SSP212/2121	SS212/2121			58	12.0
SSP308/3081	SS308/3081			29	8.0
SSP310/3101	SS310/3101			29	10.0
SSP312/3121	SS312/3121			29	12.0
SLP8	SL8			314	8.0
SLP10	SL10			314	10.0
SLP12	SL12			314	12.0
SLP204/2041	SLPB204/2041			128	4.0
SLP206/2061	SLPB206/2061			128	6.0
SLP304/3041	SLPB304/3041			64	4.0
SLP306/3061	SLPB306/3061			64	6.0
LSP5				128	5.0
LSP6				128	6.0
LSS6				128	6.0
SLP208/2081	SLPB208/2081	SL208/2081	SLB208/2081	116	8.0
SLP210/2101	SLPB210/2101	SL210/2101	SLB210/2101	116	10.0
SLP212/2121	SLPB212/2121	SL212/2121	SLB212/2121	116	12.0
SLP308/3081	SLPB308/3081	SL308/3081	SLB308/3081	58	8.0
SLP310/3101	SLPB310/3101	SL310/3101	SLB310/3101	58	10.0
SLP312/3121	SLPB312/3121	SL312/3121	SLB312/3121	58	12.0
BOS4F1	BOS4S1	BOSB4F1	BOSB4S1	45	4.0
BOS6F1	BOS6S1	BOSB6F1	BOSB6S1	45	6.0
BPS6	BPSB6			51	6.0
GLP643	SSLP643			69	5.0
4620-24				45	24.0
4630-36				per Seeder	36.0
X19-27	XL28-36	XXL38-46		90	per Model
WFP23-37	WFP38-52			90	per Model

**Table 3-2: Acre Meter Settings (Prior to 05/15/2012)**

MODEL				PULSES	WIDTH
SSP T604				293	5
SSP4		SS4		578	4
SSP5				578	5
SSP6		SS6		578	6
SSP8		SS8		764	8
SSP10		SS10		764	10
SSP12		SS12		764	12
SSP108		SS108		760	8
SSP110		SS110		760	10
SSP112		SS112		760	12
SSP208	SSP2081	SS208	SS2081	764	8
SSP210	SSP2101	SS210	SS2101	764	10
SSP212	SSP2121	SS212	SS2121	764	12
SSP308		SS308		382	8
SSP310		SS310		382	10
SSP312		SS312		382	12
SLP8		SL8		4147	8
SLP10		SL10		4147	10
SLP12		SL12		4147	12
SLP204	SLP2041			1690	4
SLP206	SLP2061			1690	6
SLP304	SLP3041			845	4
SLP306	SLP3061			845	6
LSP5				1690	5
LSP6				1690	6
LSS6				1690	6
SLP208	SLP2081	SL208	SL2081	1528	8
SLP210	SLP2101	SL210	SL2101	1528	10
SLP212	SLP2121	SL212	SL2121	1528	12
SLP308	SLP3081	SL308	SL3081	764	8
SLP310	SLP3101	SL310	SL3101	764	10
SLP312	SLP3121	SL312	SL3121	764	12
BOS4F1	BOS4S1	BOS6F1	BOS6S1	600	4
BOSB4F1	BOSB4S1	BOSB6F1	BOSB6S1	600	6
BPS6	BPSB6			679	6
GLP643		SSLP643		917	5

## Transporting the Seeder

1. Check and follow all federal, state, and local requirements before transporting the Seeder.
2. The Seeder should be transported only by tractor required for field operation. The machine weight should not exceed more than 1.5 times the tractor weight. Maximum transport speed for the Seeder is 20 mph.



### CAUTION

**Excessive speed may result in loss of control of the tractor and machine, reduced braking ability, or failure of the machine tire or structure. Do not exceed the machines 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 machines.

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.

4. 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 machine load carrying capabilities.
5. A Safety Chain is provided with the implement to insure safe transport.
  - 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.
  - Attach the Safety Chain to the tractor drawbar. **See Figure 1-2.** 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.
  - 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.

6. Before transporting:

- Know the height and width of the implement being towed. Markers, tanks, attachments, etc. can increase the height and width of the implement.



### DANGER

**Stay away from power lines when transporting, extending implement. Electrocutation can occur without direct contact.**

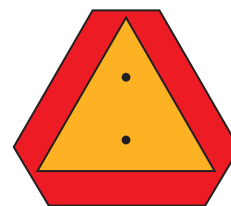
- Check to see that the tractor hitch capacity is rated to carry the weight of the Seeder Hitch. **Refer to Tractor Operator's Manual.**
- Use provided pins that properly fits the Lift Arms or Quick Hitch and Implement Hitch.
- Clean all Hydraulic Couplings and attach to tractor remotes.
- Connect Basic Clutch Switch Box or Brillion Elite Mini Monitor System to tractor.
- Connect the Safety Warning Lights 7-Pin Plug into tractor 7-Pin outlet, routing cord by avoiding pinch points.
- Fully raise the Seeder Hydraulic Lift or 3-PT Hitch.
- Make sure Transport Locks are installed and secured with Clevis Pins and Hair Pin Cotteners. **See "Transport Lock Engaged" on Page 3-5.**



### WARNING

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

- Check all tires for proper inflation, and that lug nuts are properly torque. **See "Tires" on Page 4-3.**
- Verify that all warnings lights, SMV sign, reflectors, and safety decals are clearly visible and functioning properly.
- 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. **See Figure 3-17.**



**Figure 3-17: SMV Sign**

## TABLE OF CONTENTS

Table provided for general use.

[illegible]

## Maintenance

## General Torque Specifications

(rev. 4/97)

This chart provides tightening torques for general purpose applications when special torques are not specified on process or drawing. Assembly torques apply to plated nuts and capscrews assembled without supplemental lubrication (as received condition). They do not apply if special graphite moly-disulfide or other extreme pressure lubricants are used. When fasteners are dry (solvent cleaned) add 33% to as received condition torque. Bolt head identification marks indicate grade and may vary from manufacturer to manufacturer. Thick nuts must be used on Grade 8 capscrews. Use value in [ ] if using prevailing torque nuts.

## TORQUE SPECIFIED IN FOOT POUNDS

UNC SIZE	SAE Grade 2	SAE Grade 5	SAE Grade 8	UNC SIZE	SAE Grade 2	SAE Grade 5	SAE Grade 8
1/4-20	4 [5]	6 [7]	9 [11]	1/4-28	5 [6]	7 [9]	10 [12]
5/16-18	8 [10]	13 [13]	18 [22]	5/16-24	9 [11]	14 [17]	20 [25]
3/8-16	15 [19]	23 [29]	35 [42]	3/8-24	17 [21]	25 [31]	35 [44]
7/16-14	24 [30]	35 [43]	55 [62]	7/16-20	27 [34]	40 [50]	60 [75]
1/2-13	35 [43]	55 [62]	80 [100]	1/2-20	40 [50]	65 [81]	90 [112]
9/16-12	55 [62]	80 [100]	110 [137]	9/16-18	60 [75]	90 [112]	130 [162]
5/8-11	75 [94]	110 [137]	170 [212]	5/8-18	85 [106]	130 [162]	180 [225]
3/4-10	130 [162]	200 [250]	280 [350]	3/4-16	150 [188]	220 [275]	320 [400]
7/8-9	125 [156]	320 [400]	460 [575]	7/8-14	140 [175]	360 [450]	500 [625]
1-8	190 [237]	408 [506]	680 [850]	1-14	210 [263]	540 [675]	760 [950]
1-1/8-7	270 [337]	600 [750]	960 [1200]	1-1/8-12	300 [375]	660 [825]	1080 [1350]
1-1/4-7	380 [475]	840 [1050]	1426 [1782]	1-1/4-12	420 [525]	920 [1150]	1500 [1875]
1-3/8-6	490 [612]	1010 [1375]	1780 [2225]	1-3/8-12	560 [700]	1260 [1575]	2010 [2512]
1-1/2-6	650 [812]	1460 [1825]	2360 [2950]	1-1/2-12	730 [912]	1640 [2050]	2660 [3325]

## METRIC:

Coarse thread metric class 10.9 fasteners and class 10.0 nuts and through hardened flat washers, phosphate coated, Rockwell "C" 38-45. Use value in [ ] if using prevailing torque nuts.

Nominal thread diameter (mm)	Newton Meters (Standard Torque)	Foot Pounds (Standard Torque)	Nominal Thread Diameter (mm)	Newton Meters (Standard Torque)	Foot Pounds (Standard Torque)
6	10 [14]	7 [10]	20	385 [450]	290 [335]
7	16 [22]	12 [16]	24	670 [775]	500 [625]
8	23 [32]	17 [24]	27	980 [1105]	730 [825]
10	46 [60]	34 [47]	30	1330 [1470]	990 [1090]
12	80 [125]	60 [75]	33	1790 [1950]	1340 [1450]
14	125 [155]	90 [115]	36	2325 [2515]	1730 [1870]
16	200 [240]	150 [180]	39	3010 [3210]	2240 [2380]
18	275 [330]	205 [245]			

# Hydraulic Fitting Torque Specifications

## 37 degree JIC, ORS, &ORB (REV. 10/97)

This chart provides tightening torques for general purpose applications when special torques are not specified on process or drawing. Assembly torques apply to plated nuts and capscrews assembled without supplemental lubrication (as received condition). They do not apply if special graphite moly-disulfide or other extreme pressure lubricants are used. When fasteners are dry (solvent cleaned) add 33% to as received condition torque. Bolt head identification marks indicate grade and may vary from manufacturer to manufacturer. Thick nuts must be used on Grade 8 capscrews. Use value in [ ] if using prevailing torque nuts.

### TORQUE SPECIFIED IN FOOT POUNDS

#### PARKER® BRAND FITTINGS

Dash Size	37 Deg. JIC	O-ring (ORS)	O-ring boss
-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
-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

#### GATES® BRAND FITTINGS

Dash Size	37 Deg. JIC	O-ring (ORS)	O-ring boss
-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	-----	-----

#### AEROQUIP® BRAND FITTINGS

Dash Size	37 Deg. JIC	O-ring (ORS)	O-ring boss
-4	11-12	10-12	14-16
-5	15-16	-----	16-20
-6	18-20	18-20	24-26
-8	38-42	32-35	50-60
-10	57-62	46-50	75-80
-12	79-87	65-70	125-135
-14	-----	-----	160-180
-16	108-113	92-100	200-220
-20	127-133	125-140	210-280
-24	158-167	150-165	270-360

## Fasteners

Before operating your Brillion machine, check all hardware for tightness. Use the Tightening Torque Table as a guide. **See Page 4-1.**

After a few hours of use, check entire machine and tighten any loose nuts or bolts. Daily or periodic checks should be made thereafter.

When replacing bolts, be sure to use fasteners of equal grade.

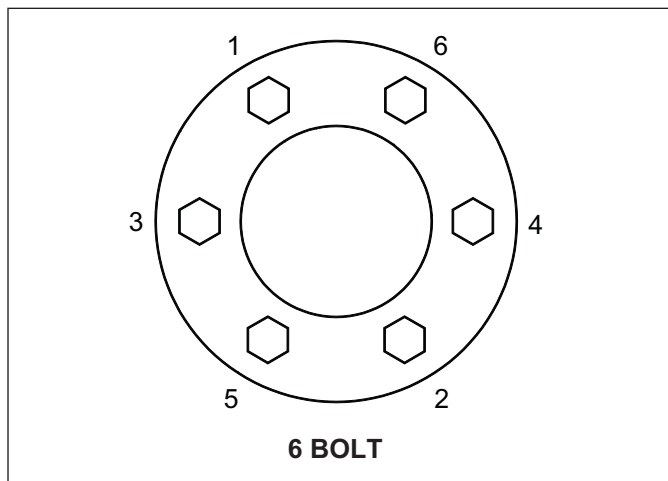
## Tires

### Seeder recommended Tire Size:

9.5L-15 - 8 Ply Rating

### Tire Inflation Pressure: 44 PSI

When Re-Installing 1/2-20 x 1 Wheel Bolts tighten to 50 Ft-Lbs. using the sequence in **See Figure 4-1**. Then tighten to full torque of 80-85 Ft-Lbs.



**Figure 4-1: Tightening Sequence**

## Wheel Hub Bearing Maintenance

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 and Slotted Nut.
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. Install the inner bearing into the hub and install the grease seal. Use a driver to install the seal, to avoid damaging the outer edge of the seal. Drive the seal squarely into the hub to avoid any seal distortion.

### **NOTE**

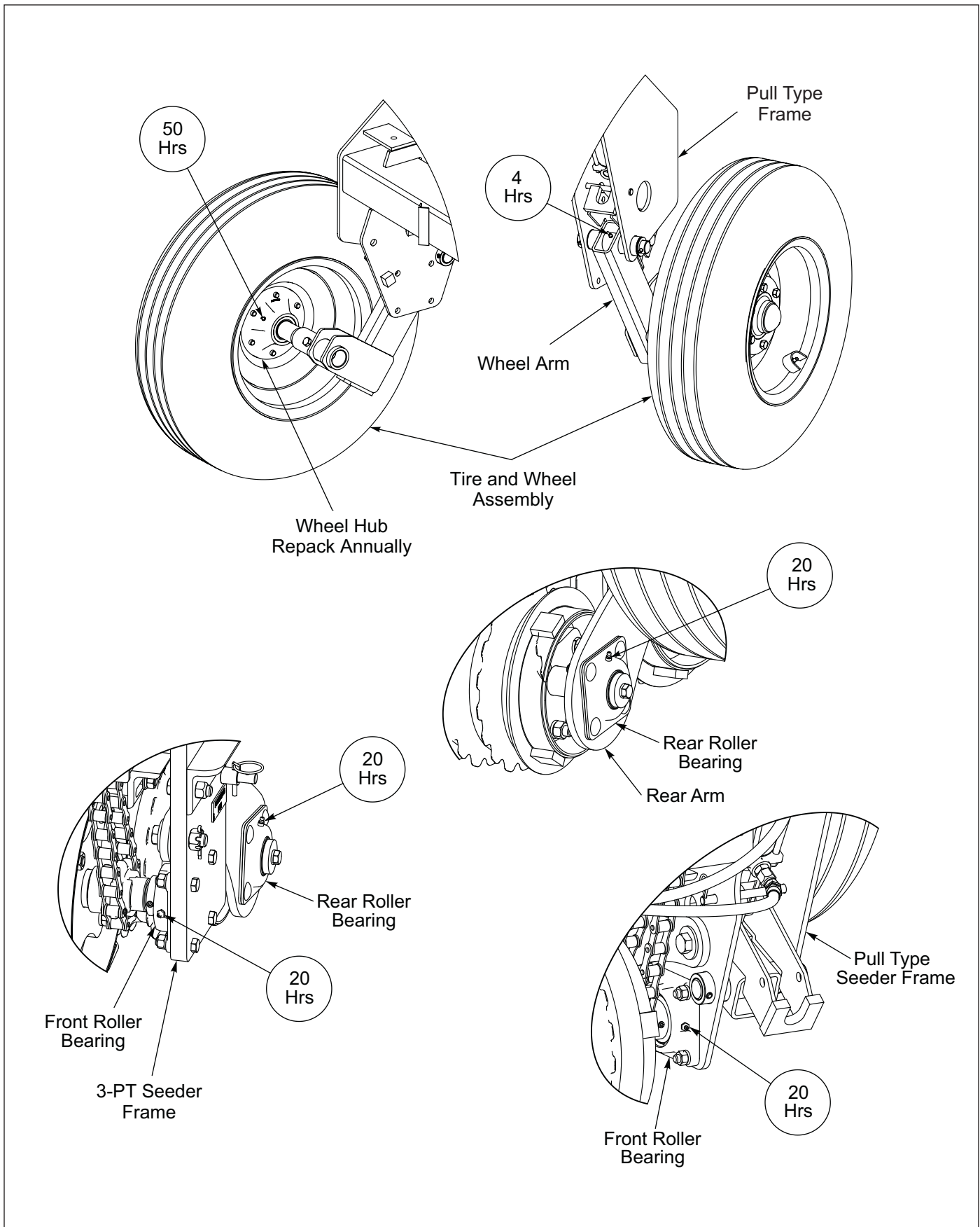
*The Single Lip Seals should point away from the Hub to keep contaminants out and allow grease to pass.*

7. Slide the hub, bearing, and seal onto a clean spindle.
8. Install the Outer Bearing Cone 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. Install a new Cotter Pin and re-install the Hub Cap.

## Lubrication

- Oil Roller Chains periodically.
- Seeder has Greaseable Bearings on the ends of the Front and Rear Rollers and should be greased every 20 hrs. **See Figure 4-2.**
- Pull Type Seeders Wheel Arm pivot point should be greased every 4 hrs.
- Grease Wheels Hubs every 50 hrs.
- When the machine is not used for some time, exposed portions of the Hydraulic Cylinder Rods must be cleaned and covered with a thick coat of grease to prevent corrosion, which will damage the seal.



**Figure 4-2: Lube Points**



# Hydraulic Maintenance

## IMPORTANT

Lower the Seeder to the ground, and relieve hydraulic pressure before attempting to service any hydraulic component.



## WARNING

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. Wear protective gloves and safety glasses or goggles when working with Hydraulic System.

1. Check the tractor hydraulic fluid level per tractor owner's manual and after any leakage. Check fluid level with the Hydraulic Cylinders in the extended position.
2. If a Hydraulic Cylinder leaks, disassemble the parts to determine the cause of the leak. Any time a Hydraulic 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 Brillion dealer.
3. Check all Hydraulic Hoses weekly. Look for binding or cracking. Replace all worn or defective parts immediately.
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. **See Figure 3-6.** 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 3-7.**

## Front and Rear Roller Adjustment

### NOTE

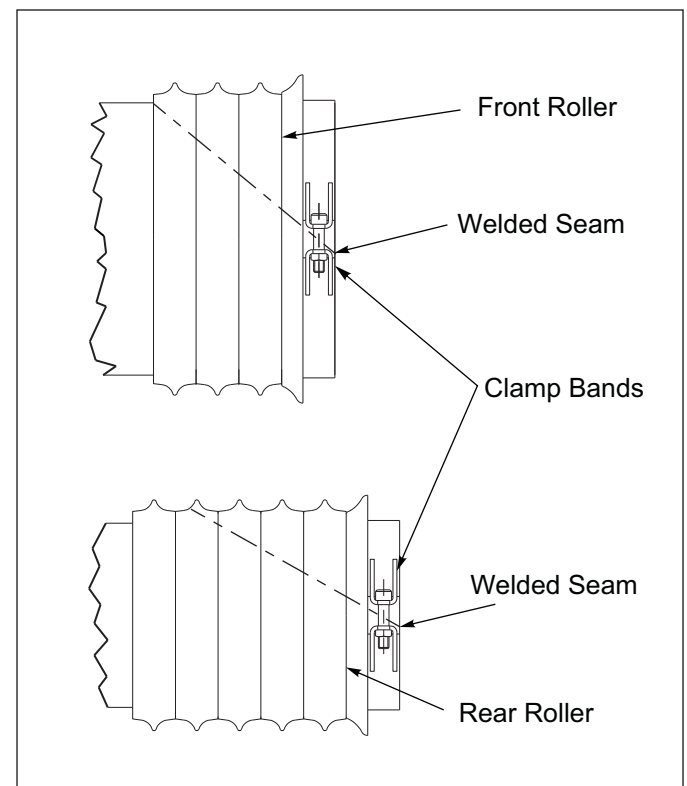
Failure to position the Clamp Band Socket Head Bolt (Clamp Band open section) over the Roller Drum weld seam will cause Clamp Band to loosen and slide.

After an initial run of 5-10 hours, check the Front and Rear Roller Assemblies to ensure that the Wheels are tight to one another and that the Clamp Bands are tight. If not, slide the Roller Wheels tight together and adjust the Roller Clamp Bands per **Roller Adjustment Procedure**.

Tighten the Clamp Band Socket Head Bolt (Clamp Band open section) over Roller Drum weld seam to 75 Ft-Lbs. Thereafter check Front and Rear Roller Assemblies every 50-100 hours.

### Roller Adjustment Procedure

1. Adjust the Front Roller Wheels first. Loosen Clamp Bands and slide the Roller Wheels snug against each other, centering the entire assembly under the Deflector.
2. Position the Clamp Band Socket Head Bolt (Clamp Band open section) over the weld seam on the Roller Drum. **See Figure 4-3.**
3. Slide the Clamp Band against the End Wheel on each end of the Roller and tighten the Clamp Band Bolt to 75 Ft-Lbs.
4. Adjust the Rear Roller Wheels in the same manner as you adjusted the Front Roller Wheels except, start at the center of the Rear Roller and align the peaks of the Rear Roller Wheels with the valleys of the Front Roller Wheels as best as possible. This will provide the best alignment of worn Roller Wheels and maximize seed germination.

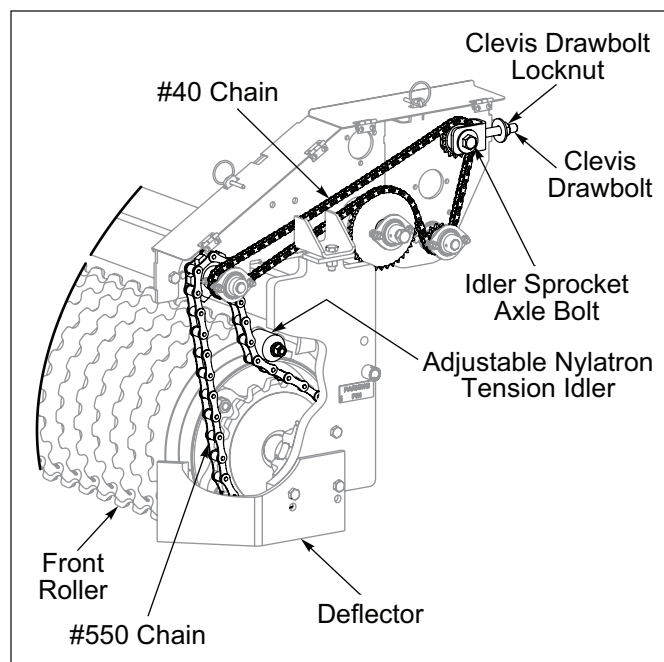


**Figure 4-3: Roller Adjustment**

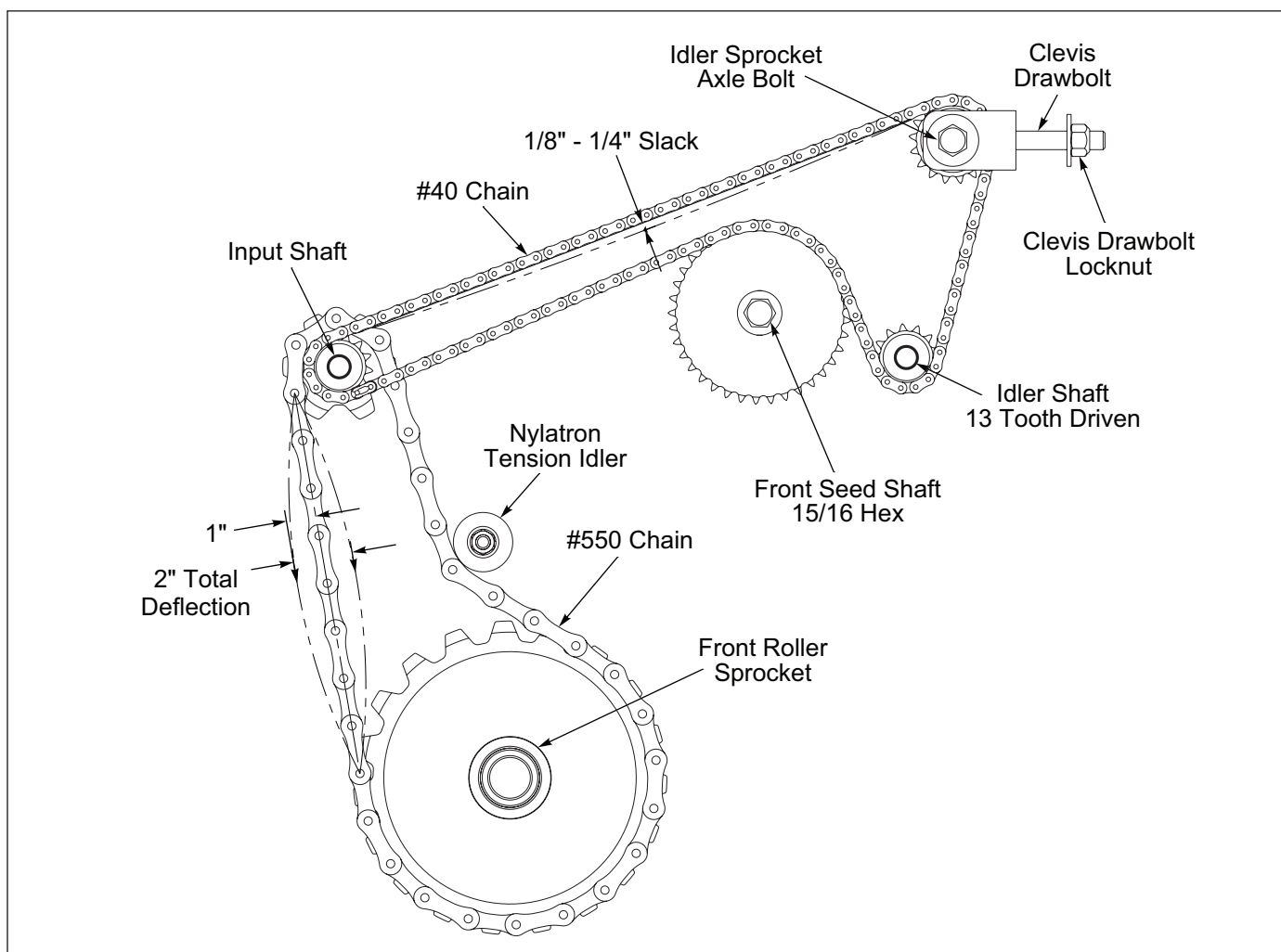
## Chain Tension

To adjust the Transmission Chain, loosen the 5/8" Idler Sprocket Axle Bolt and then adjust the Clevis Drawbolt Locknut to obtain about 1/8"-1/4" sag. Re-tighten Idler Sprocket Axle Bolt. Be careful not to over-tighten this chain. **See Figures 4-4 and 4-5.**

Adjust the #550 Chain between the Front Roller and Transmission by adjusting the Nylatron Tension Idler to allow approximately 2" of Total Chain Deflection.



**Figure 4-4: Loosen Idler Bolt**



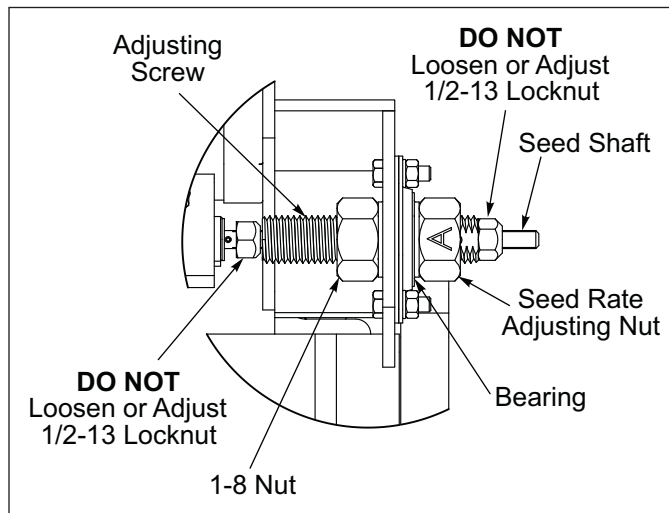
**Figure 4-5: Chain Tension**

# Seed Meter Adjustment

## **IMPORTANT**

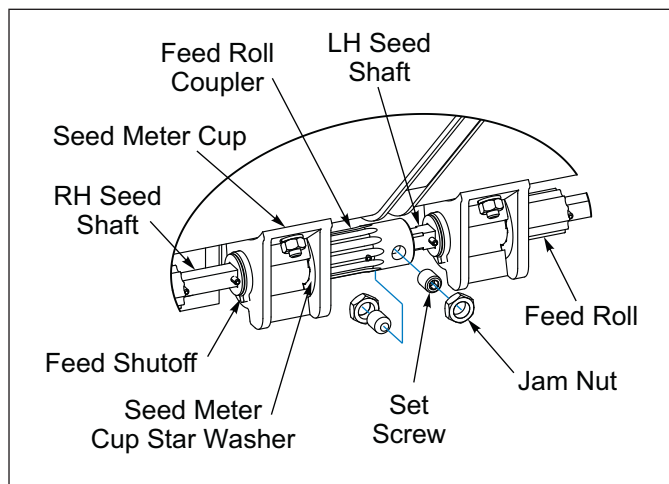
All the Seed Meters **MUST BE CLOSED!** It may be necessary to individually adjust Seed Meter Cups.

All Seed Meters must be set the same to ensure uniform seeding. To check, set the Seed Rate Adjusting Nut to 0-A. The "A" on the Seed Rate Adjusting Nut is positioned over the "0" (the nut covers half of the "0") and snug against the Bearing. **See Figure 4-6.**



**Figure 4-6: Seed Box Seed Rate Adjustment**

All Seed Meters should be closed. Seed Meter Feed Shutoff against Seed Meter Cup Star Washer in Seed Meter Cup. **See Figure 4-7.** If not, there are three adjustments to make as needed.

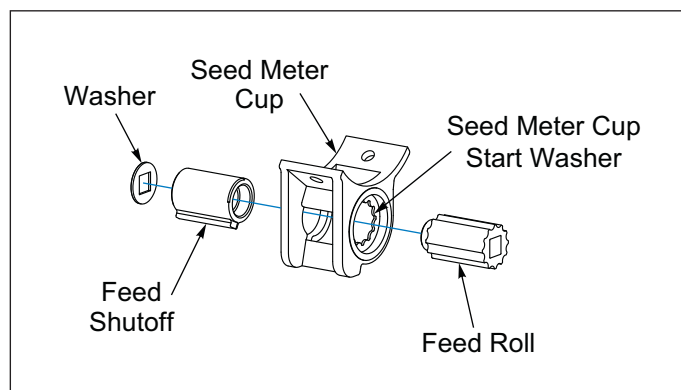


**Figure 4-7: Seed Shaft Coupler**

## **IMPORTANT**

Ensure the Seed Shaft can turn freely without any binding when the Seed Meters are open or closed after servicing.

1. 1/2-13 Locknuts on both ends of the Adjusting Screw are used to adjust all Seed Meters the same amount. **See Figure 4-6.** To adjust Seed Meters to be closed at "0A", loosen 1/2-13 Locknuts and set Adjusting Screw to "0A". Slide Seed Shaft to close all Seed Meters. Tighten 1/2-13 Locknuts against Adjusting Screw.
2. Seed Box Feed Roll Coupling which joins the left and right Seed Shafts changes Seed Meters on the left Seed Box in comparison with Seed Meters on the right Seed Box. To adjust Feed Roll Coupling, loosen Jam Nuts and Set Screws on Coupling RH Seed Shaft is treaded into Coupling. Turn RH Seed Shaft threading it in or out as needed to equalize Seed Meters. Re-tighten Set Screws against flat side on Seed Shaft, re-tighten Jam Nuts. **See Figure 4-7.**
3. Individual Seed Meter Cups can be adjusted as required. Adjustments can be made by loosening the 1/4-20 x 5/8 Machine Screws that mount the Seed Meter Cup to the Seed Box. Adjust the affected Seed Meter Cup so the Feed Shutoff is against the Seed Meter Cup Star Washer in the Seed Meter Cup (closed). Be sure the Feed Roll stays engaged in the Seed Meter Cup Star Washer. **See Figure 4-8.**



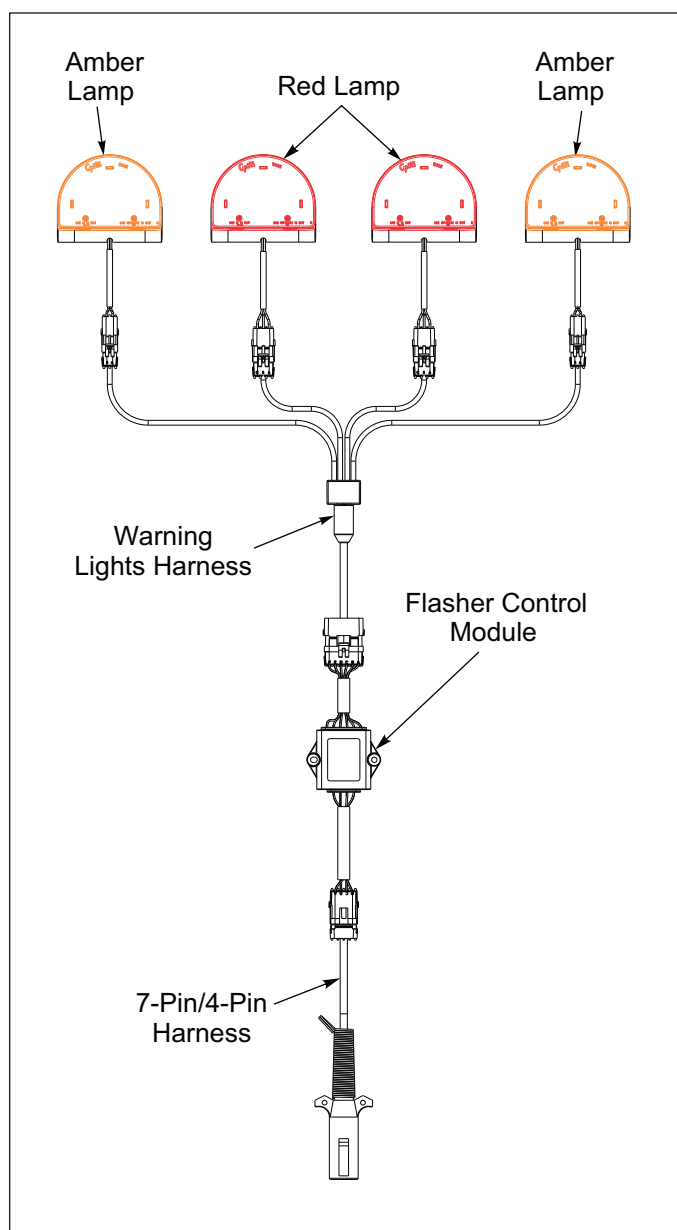
**Figure 4-8: Small Seed Meter**

## Warning Lamps

When plugging in the Lamp 7-Pin Warning Lamp Connector:

1. Make sure the Tractor has a good clean Receptacle, free of dirt and corrosion.
2. Make sure the 7-Pin Connector is inserted ALL the way in. With tighter fitting pins, operator may think the Connector is all the way in, but it really isn't.
3. Make sure the Tractor Receptacle Cover latches over the keyway on the 7-Pin Connector to hold the Connector in place.

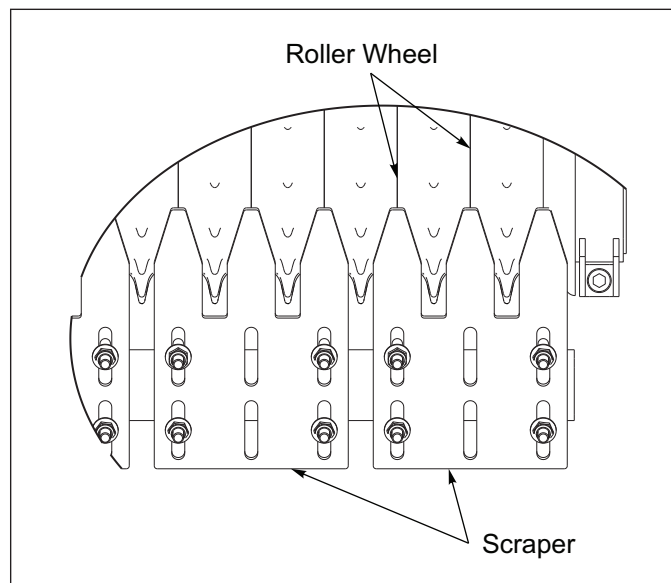
If an operator plugs in the 7-Pin Connector, but the lights Do Not seem to work right, check the above items to make sure there is a good connection with the 7-Pin Connector.



**Figure 4-9: Warning Lamps**

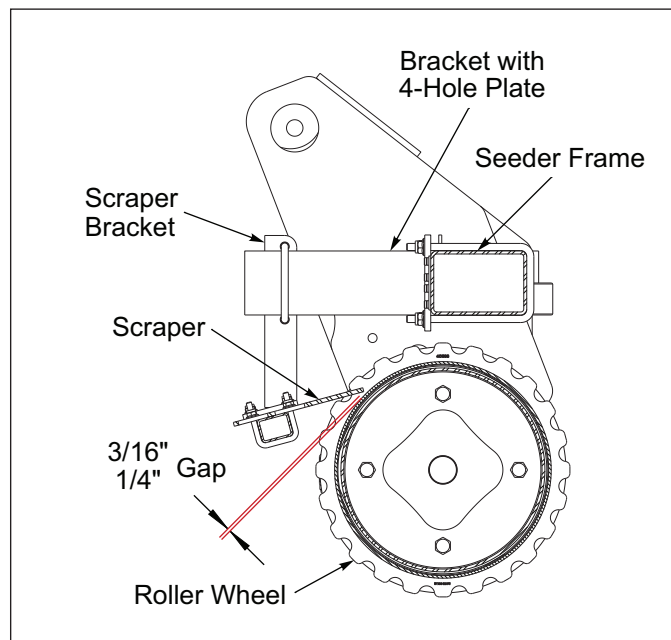
## Scraper Adjustment

1. Check the Front Roller Assembly Wheels that they are tight to one another. **See “Front and Rear Roller Adjustment” on Page 4-5.**
2. Lower the implement onto level ground.
3. Verify that the Scrapers are centered as best as possible between the Roller Wheels and adjust if necessary. **See Figure 4-10.**



**Figure 4-10: Scraper Alignment**

4. Adjust the Scrapers as needed to achieve a 3/16" to 1/4" gap between the Scrapers and Roller Wheels. **See Figure 4-11.** Scrapers should be close enough to the Roller Wheels to be functional but without interference.



**Figure 4-11: Scraper Dimensions**

## Acre Meter Troubleshooting

### IMPORTANT

Acre Meter is dust and splash resistant, under no circumstances should this unit be submerged in any conductive, corrosive, or flammable liquid. At no time use high pressure water or air to clean it, as this can damage the unit. See Figure 4-12.



**Figure 4-12: High Pressure Warning**

### NOTE

*The ground wire is for static discharge protection and has no effect on the ability of the sensor to function properly under normal conditions.*

The battery operated Acre Meter uses 3 AA batteries. The Acre Meter will display “LObat” when the batteries require replacement. Remove the Acre Meter from the machine and then the 4 Screws on the back of the case. **See Figure 3-16.** Separate the housing from the rear plate. Replace with 3 quality AA batteries.

**Acre Meter does not count pulses during calibration or does not count acres during operation.**

1. Check the position of the Magnet Wheel Assembly and Pick-Up Switch against the set-up instructions in this manual. **See “Acre Meter Kit - Optional” on Page 2-14.**
2. Verify that the magnet in the Magnet Wheel Assembly has not come out.
3. Place the Acre Meter display in “Calibrate” mode by pressing the **\*(FUNC)** key until the “**P-WORD**” indicator is lit and then press the up/down arrow keys until the display shows 0 and the LED is blinking. Break the connection between the display and the Pick-Up Switch and short between pins A and B on the display harness connector. You should see the display increment +1 with each contact of the connector terminals.
4. If step 3 works then wave a magnet in front of the Pick-Up Switch face with it re-connected to the display and see if the display increments up. If not, put an ohm meter or continuity tester on the contacts of the Pick-Up Switch harness and place a magnet in front of the Pick-Up Switch face. The Pick-Up Switch should show continuity or near zero ohms resistance.

**Acre Meter cannot change the width or pulse count settings or clear the field and total acres.**

1. Check to see if a password needs to be entered by pressing the **\*(FUNC)** key until the “**P-WORD**” indicator LED is lit. If “**dis**” is displayed (password disabled) no password is set.
2. If “**Ent**” is displayed a password must be entered to change the settings or the password must be disabled as instructed in the setup section of this manual.

## Storage

1. The service life of the Seeder will be extended by proper off-season storage practices. Prior to storing the unit, complete the following procedures:
  - Completely clean the unit, blow all seed out of Seed Meters.
  - Inspect the machine for worn or defective parts. Replace as needed.
  - Repaint all areas where the original paint is worn off.
  - Apply a light coating of oil or grease to exposed Cylinder Rods to prevent them from rusting.
  - Lubricate each point of the machine as stated in “**Lubrication**” on **Page 4-3.**
2. Store the unit in a shed or under a tarpaulin to protect it from the weather. The ground engaging components and Tires should rest on boards, or some other object, to keep them out of the soil.
3. **3-PT Hitch Models:** Raise Track Removers, insert Parking Pin and Lower unit. Chock or block Roller Wheels before unhitching from Tractor.
4. **Pull Type Models:** Raise the machine and engage Transport Locks. **See Figure 3-6.** Lower Drawbar Jack.
  - Relieve Hydraulic Pressure in hoses after Transport Locks are installed.
  - Block Transport Wheels before unhitching from Tractor.

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Table provided for general use.

[illegible]

## Specifications

Product Attributes	SLP-8	SL-10	SLP-10
Approximate Weight	1,734 lbs. (780 kg)	2,394 lbs. (1,077 kg)	2,074 lbs. (933 kg)
Working Width	8 ft. 0 in. (2.4 m)	10 ft. 0 in. (3.0 m)	10 ft. 0 in. (3.0 m)
Transport Width	9 ft. 6 in. (2.85 m)	12 ft. 11 in. (3.88 m)	11 ft. 4 in. (3.4 m)
Transport Height	Tractor Dependent	5 ft. 2 in. (1.55 m)	Tractor Dependent
Road Clearance	Tractor Dependent	10 in. (254 mm)	Tractor Dependent
Overall Height	4 ft. 0 in. (1.20 m)	4 ft. 6 in. (1.35 m)	4 ft. 0 in. (1.20 m)
Overall Length	4 ft. 10 in. (1.5 m)	10 ft. 1 in. (3.03 m)	4 ft. 10 in. (1.5 m)
Seed Box	All Steel Construction w/Cover	All Steel Construction w/Cover	All Steel Construction w/Cover
Seed Box Capacity - Meter Box	6 bu.	7.5 bu.	7.5 bu.
Seed Meters	"Micro-Meter"	"Micro-Meter"	"Micro-Meter"
Seed Meter Drive	Ground Driven	Ground Driven	Ground Driven
Seed Meter Spacing	4.25 in. (108 mm)	4.25 in. (108 mm)	4.25 in. (108 mm)
Seed Delivery	Broadcast w/Wind Deflector Tray	Broadcast w/Wind Deflector Tray	Broadcast w/Wind Deflector Tray
Pulverizer Roller - Front	15.75 in. (400 mm) Gray Cast Iron	15.75 in. (400 mm) Gray Cast Iron	15.75 in. (400 mm) Gray Cast Iron
Pulverizer Roller - Rear	11.5 in. (292 mm) Gray Cast Iron	11.5 in. (292 mm) Gray Cast Iron	11.5 in. (292 mm) Gray Cast Iron
Pulverizer Axle Bearings	Greaseable	Greaseable	Greaseable
Pulverizer Axle Size - Front	12.75 in. (324 mm)	12.75 in. (324 mm)	12.75 in. (324 mm)
Pulverizer Axle Size - Rear	8.625 in. (219 mm)	8.625 in. (219 mm)	8.625 in. (219 mm)
Hitch	3-Point Hitch - Cat. II Free Link; Cat. II, IIIN Quick Coupler Hitch	Pull-Type w/Hydraulic Transport	3-Point Hitch - Cat. II Free Link; Cat. II, IIIN Quick Coupler Hitch
Hydraulic Equipment	N/A	Cylinders w/Hoses to Hitch Point	N/A
Tire Size	N/A	9.5L x 15-8 Ply Implement Rib	N/A
Seed Box Agitator Kit	Optional	Optional	Optional
S-Tine Wheel Track Remover	Optional	Optional	Optional
Front Roller Scraper Kit	Optional	Optional	Optional
Turfmaker Sprockets	Optional	Optional	Optional
Electronic Acre Meter Kit	Optional	Optional	Optional
Speed Up Kit (Doubles Output)	Optional	Optional	Optional
Short Coupled 3-Point Hitch	Optional	N/A	N/A
Seed Shaft Monitor Kit	Optional	Optional	Optional
Safety Warning Lights & SMV Emblem	Standard	Standard	Standard
Safety Chain Kit	N/A	Standard	N/A
Powder Coat Paint, Red	Standard	Standard	Standard
Horsepower Requirements	6 to 8 HP (4.5 to 6 kW) per ft.	6 to 8 HP (4.5 to 6 kW) per ft.	6 to 8 HP (4.5 to 6 kW) per ft.
Rec. Operating Speed	3 to 6 MPH (5 to 10 km/h)	3 to 6 MPH (5 to 10 km/h)	3 to 6 MPH (5 to 10 km/h)

Specifications subject to change with or without notice.

Figure 5-1: Model Specifications (1 of 2)



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Product Attributes	SL-12	SLP-12
Approximate Weight	2,842 lbs. (1,279 kg)	2,488 lbs. (1,120 kg)
Working Width	12 ft. 0 in. (3.6 m)	12 ft. 0 in. (3.6 m)
Transport Width	15 ft. 0 in. (4.5 m)	13 ft. 3 in. (3.98 m)
Transport Height	5 ft. 2 in. (1.55 m)	Tractor Dependent
Road Clearance	10 in. (254 mm)	Tractor Dependent
Overall Height	4 ft. 6 in. (1.35 m)	4 ft. 0 in. (1.20 m)
Overall Length	10 ft. 1 in. (3.03 m)	4 ft. 10 in. (1.5 m)
Seed Box	All Steel Construction w/Cover	All Steel Construction w/Cover
Seed Box Capacity - Meter Box	9 bu.	9 bu.
Seed Meters	"Micro-Meter"	"Micro-Meter"
Seed Meter Drive	Ground Driven	Ground Driven
Seed Meter Spacing	4.25 in. (108 mm)	4.25 in. (108 mm)
Seed Delivery	Broadcast w/Wind Deflector Tray	Broadcast w/Wind Deflector Tray
Pulverizer Roller - Front	15.75 in. (400 mm) Gray Cast Iron	15.75 in. (400 mm) Gray Cast Iron
Pulverizer Roller - Rear	11.5 in. (292 mm) Gray Cast Iron	11.5 in. (292 mm) Gray Cast Iron
Pulverizer Axle Bearings	Greaseable	Greaseable
Pulverizer Axle Size - Front	12.75 in. (324 mm)	12.75 in. (324 mm)
Pulverizer Axle Size - Rear	8.625 in. (219 mm)	8.625 in. (219 mm)
Hitch	Pull-Type w/Hydraulic Transport	3-Point Hitch - Cat. II Free Link; Cat. II, IIIN Quick Coupler Hitch
Hydraulic Equipment	Cylinders w/Hoses to Hitch Point	N/A
Tire Size	9.5L x 15-8 Ply Implement Rib	N/A
Seed Box Agitator Kit	Optional	Optional
S-Tine Wheel Track Remover	Optional	Optional
Front Roller Scraper Kit	Optional	Optional
Turfmaker Sprockets	Optional	Optional
Electronic Acre Meter Kit	Optional	Optional
Speed Up Kit (Doubles Output)	Optional	Optional
Short Coupled 3-Point Hitch	N/A	N/A
Seed Shaft Monitor Kit	Optional	Optional
Safety Warning Lights & SMV Emblem	Standard	Standard
Safety Chain Kit	Standard	N/A
Powder Coat Paint, Red	Standard	Standard
Horsepower Requirements	6 to 8 HP (4.5 to 6 kW) per ft.	6 to 8 HP (4.5 to 6 kW) per ft.
Rec. Operating Speed	3 to 6 MPH (5 to 10 km/h)	3 to 6 MPH (5 to 10 km/h)

*Specifications subject to change with or without notice.*

**Figure 5-2: Model Specifications (2 of 2)**

## Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
07/2008		Initial Release
09/2013	1P342-0913	Added LED Warning Lights, Updated Drawings
12/2015	1P342-1215	Decal Locations, Updated Drawings
06/2021	1P342-0621	ECN 47093 - Hub & Spindle Asm Update to 6 Bolt
05/2022	1P342-0522	ECN 47474 - Add QR Code Decals / Seed Shaft Decals *01/23/23 Changes to "Loup Acre Meter Kit"
06/2023	1P342-2306	Added "Tube Mounted Scraper Kits" *Revision Format "Year/Month"



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