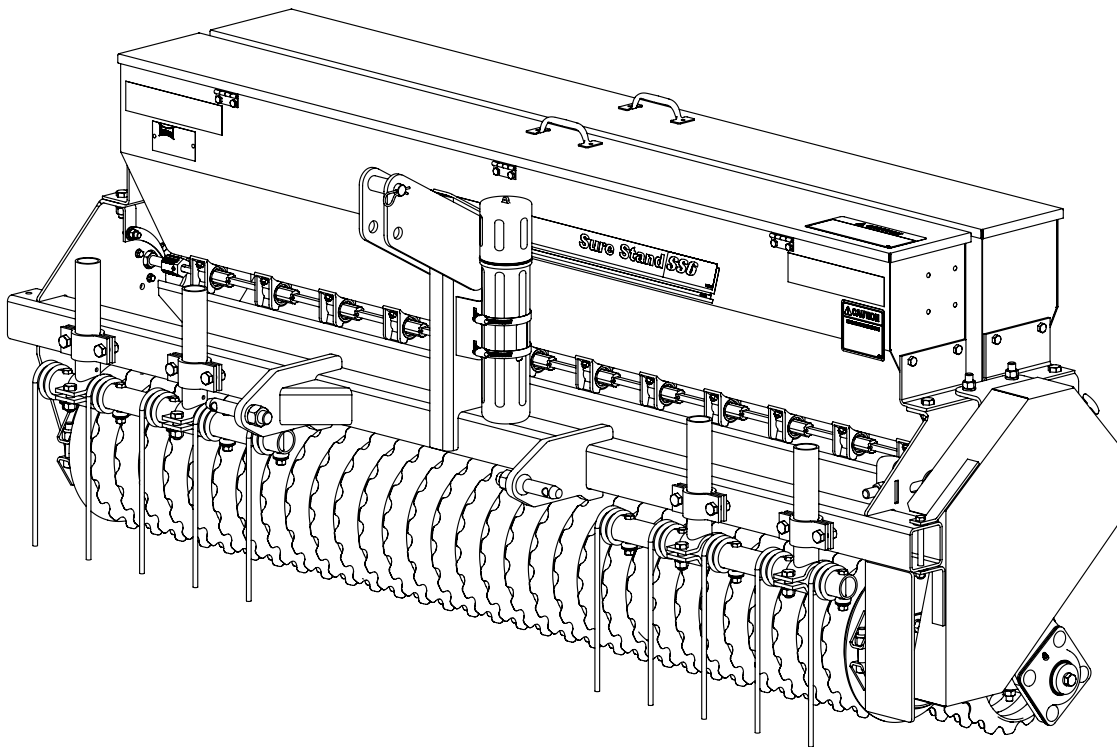




Sure Stand Seeder Models SSP4, SSP5 and SSP6 Operator's Manual



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Manuals for Sure Stand Seeder - SSP4, SSP5, SSP6

Manual Number	Manual Type
7K555	Operator's Manual
7K554	Parts Manual

Table of Contents

1 Safety Information

Introduction	1-1
Description of Unit	1-1
Using this Manual	1-1
Owner Assistance	1-1
Warranty Registration	1-1
Safety	1-2
Understanding Safety Statements.	1-2
Transporting Safety.	1-2
Safety Instructions for Towing Vehicles	1-3
Attaching, Detaching and Storage.	1-3
Maintenance Safety.	1-3
Protective Equipment	1-3
Chemical Safety	1-3
Prepare for Emergencies	1-3

2 Assembly

Agitator Blades (Optional Cage or Brushes)	2-1
Changing Agitator Kits.	2-2
CAT2 Quick Coupler Hitch Adaptor Kit - Optional.	2-2
Lift Sling Kit - Optional.	2-4
Acre Meter - Optional	2-5

3 Operation

Seeder Operation	3-1
Parking Pin	3-1
Seed Rate Adjustment - Front Box	3-2
Pointer Adjustment	3-2
Seed Rate Adjustment - Rear Agitator Box.	3-3
Seed Rate Calibration	3-4
Chain Tension	3-7
Adjustment of the Wheel Track Remover	3-8
Roller Wheels	3-8
Loup Acre Meter Settings - After 05/15/2012	3-9
Loup Acre Meter Settings - Prior to 05/15/2012	3-10
Acre Meter Settings Charts	3-11

4 Maintenance & Specifications


General Torque Specifications	4-1
Hydraulic Fitting Torque Specifications	4-2
Acre Meter.	4-3
Fasteners	4-3
Lubrication.	4-3

5 General Reference and Specifications

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.

Description of Unit

The Brillion **SS Series Seeder** combines the features of our popular and reliable Sure Stand Seeder with additional box capacity.

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 the time of printing. Some parts may change to assure peak performance.
- Location reference: Right and Left designations in this manual are determined by facing the direction the implement will travel during field operation, unless otherwise stated.

Owner Assistance

If customer service or repairs are needed, contact your Brillion dealer. They have trained personnel, parts and service equipment specially designed for Brillion products. Your implement's parts should only be replaced with Brillion parts. 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 for step by step instructions regarding product registration.

Enter your product information below for quick reference.

MODEL NUMBER

SERIAL NUMBER

DATE OF PURCHASE

Refer to the ID plate as shown. **See Figure 1-1.**

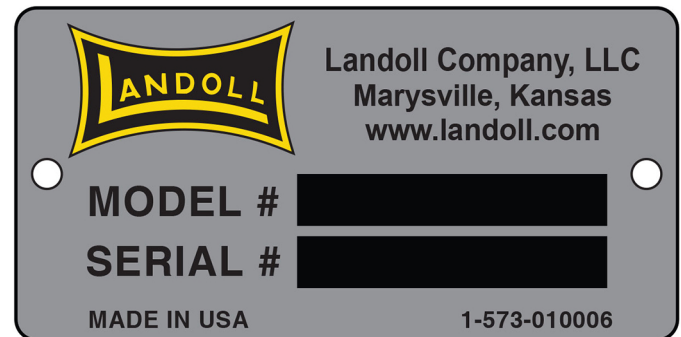


Figure 1-1: ID Plate

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 implement 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 implement decals before you attempt to operate or maintain this equipment.

- Examine safety decals and be sure you have the correct safety decals for the implement. **See Figure 1-2.**
- 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 implement. Wash with soap and water or a cleaning solution as required.
- Replace decals that become damaged or lost. Also, be sure that any new implement components installed during repair include decals which are assigned to them by the manufacturer.

- When applying decals to the implement, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirt, oil etc.

DANGER

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

Transporting Safety

IMPORTANT

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

- When transporting the implement 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 an implement that, when fully loaded, weighs more than 1.5 times the weight of the towing vehicle.
- Carry reflectors or flags to mark the 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 implement may cause the operator to lose control of the tractor. Use a tractor heavier than the implement.
- Use caution when towing behind articulated steering tractors; fast or sharp turns may cause the implement to shift sideways.
- Keep clear of overhead power lines and other obstructions when transporting. Know the transport height and width of your implement. **See “General Torque Specifications” on page 4-1.**

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 incapable of moving.
- Before applying pressure to the hydraulic system, be sure all connections are tight and that hydraulic lines and hoses are not damaged.
- Block implement so it will not roll when unhitched from the tractor.
- Relieve pressure in hydraulic lines before uncoupling hydraulic hoses from tractor.

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 and goggles when working with hydraulic systems.

Maintenance Safety

- Block the implement so it will not roll when working on or under it to prevent injury.
- Do not make adjustments or lubricate the machine while it is in motion.
- Make sure all moving parts have stopped.
- 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.

Chemical Safety

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

- Read chemical manufactures instructions and store or dispose of unused chemicals as specified. Handle chemicals with care & 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 phone.



ITEM 1
4K401

CAUTION

- DO NOT LUBRICATE, ADJUST OR REPAIR WHEN MACHINE IS IN MOTION.
- DO NOT TOW OR TRANSPORT FASTER THAN 15 MILES PER HOUR.
- DO NOT RIDE OR ALLOW OTHERS TO RIDE ON THE MACHINE.
- BLOCK UP ALL HYDRAULICALLY OR MECHANICALLY RAISED COMPONENTS TO PREVENT UNINTENDED LOWERING OR LOWER THE MACHINE TO THE GROUND TO MAKE ADJUSTMENT OR REPAIRS OR WHEN NOT IN USE.
- KEEP ALL PERSONS AWAY FROM MACHINE DURING HITCHING AND OPERATING.
- SLOW DOWN BEFORE MAKING SHARP TURNS OR USING THE BRAKE.
- DRIVE SLOWLY OVER ROUGH GROUND, SIDE HILLS, AND AROUND CURVES TO AVOID TIPPING.
- COMPLY WITH ALL LAWS WHEN TRANSPORTING THE MACHINE ON PUBLIC ROADWAYS.
- INSTRUCT ALL OPERATORS IN THE SAFE OPERATION OF THE MACHINE.

REVIEW THE OPERATOR'S MANUAL FOR CORRECT PROCEDURES.
BLOCK IMPLEMENT TO PREVENT MOVEMENT WHEN UNHITCHED FROM TRACTOR.
KEEP ALL GUARDS AND SHIELDS IN PLACE WHILE MACHINE OR PARTS ARE IN MOTION.

8J310

WARNING

MOVING PART HAZARD
TO PREVENT SERIOUS INJURY FROM MOVING PARTS:

- KEEP COVERS CLOSED DURING OPERATION.
- DO NOT ALLOW ANYONE TO RIDE OR CLIMB MACHINE DURING OPERATION.
- KEEP OBSERVERS AWAY.

2K123

ITEM 9
2K123

ITEM 2
8J310

CAUTION

BE SURE TO ENGAGE PARKING PIN ON LEFT END OF FRAME BEFORE UNHITCHING TRACTOR. OTHERWISE FRAME WILL TIP BACKWARDS ABOUT FRONT AXLE

9J302

ITEM 3
9J302



ITEM 4
"SS4" - 7K452
"SS5" - 8K599
"SS6" - 7K428

PLANTING RATES FOR AGITATOR (REAR) BOX IN POUNDS PER ACRE

SEED TYPE	AGITATOR SETTINGS	SEED RATE				SEED TYPE	AGITATOR SETTINGS	SEED RATE					
		1	2	3	4			1	2	3	4		
BEST SEEDS (1) (2) (3) (4)	100	100	100	100	100	BEST SEEDS (1) (2) (3) (4)	100	100	100	100	100	100	100
... (rows omitted for brevity) ...	...	...	...	...	...	...	...	...	...	...	...	...	...

ITEM 10
7K434



ITEM 5
528934

9J301 **PARKING PIN**

ITEM 8
9J301



ITEM 6
528933

CALIBRATION

- REMOVE CHAIN BETWEEN 11 TOOTH AND 12 TOOTH SPROCKETS.
- PLACE A CANVAS OR TARP ON GROUND TO CATCH SEED.
- TURN ON THE ENGINE AND START COUNTING (DOWNSECTIONS).
- WEIGH SEED FOR APPROXIMATE PLANTING RATE.
- FORMULAS TO USE TO DETERMINE SEED RATE:

PLANTING RATES

SEED TYPE	1	2	3	4
BEST SEEDS (1) (2) (3) (4)	100	100	100	100
... (rows omitted) ...	...	...	...	...

ITEM 11
7K454 - "SSP4 & SSP5"



ITEM 7
528938

CALIBRATION

- REMOVE CHAIN BETWEEN 11 TOOTH AND 12 TOOTH SPROCKETS.
- PLACE A CANVAS OR TARP ON GROUND TO CATCH SEED.
- TURN ON THE ENGINE AND START COUNTING (DOWNSECTIONS).
- WEIGH SEED FOR APPROXIMATE PLANTING RATE.
- FORMULAS TO USE TO DETERMINE SEED RATE:

PLANTING RATES

SEED TYPE	1	2	3	4
BEST SEEDS (1) (2) (3) (4)	100	100	100	100
... (rows omitted) ...	...	...	...	...

ITEM 11
7K433 - "SSP6"



ITEM 12
4K036

Figure 1-2: Decals

TABLE OF CONTENTS

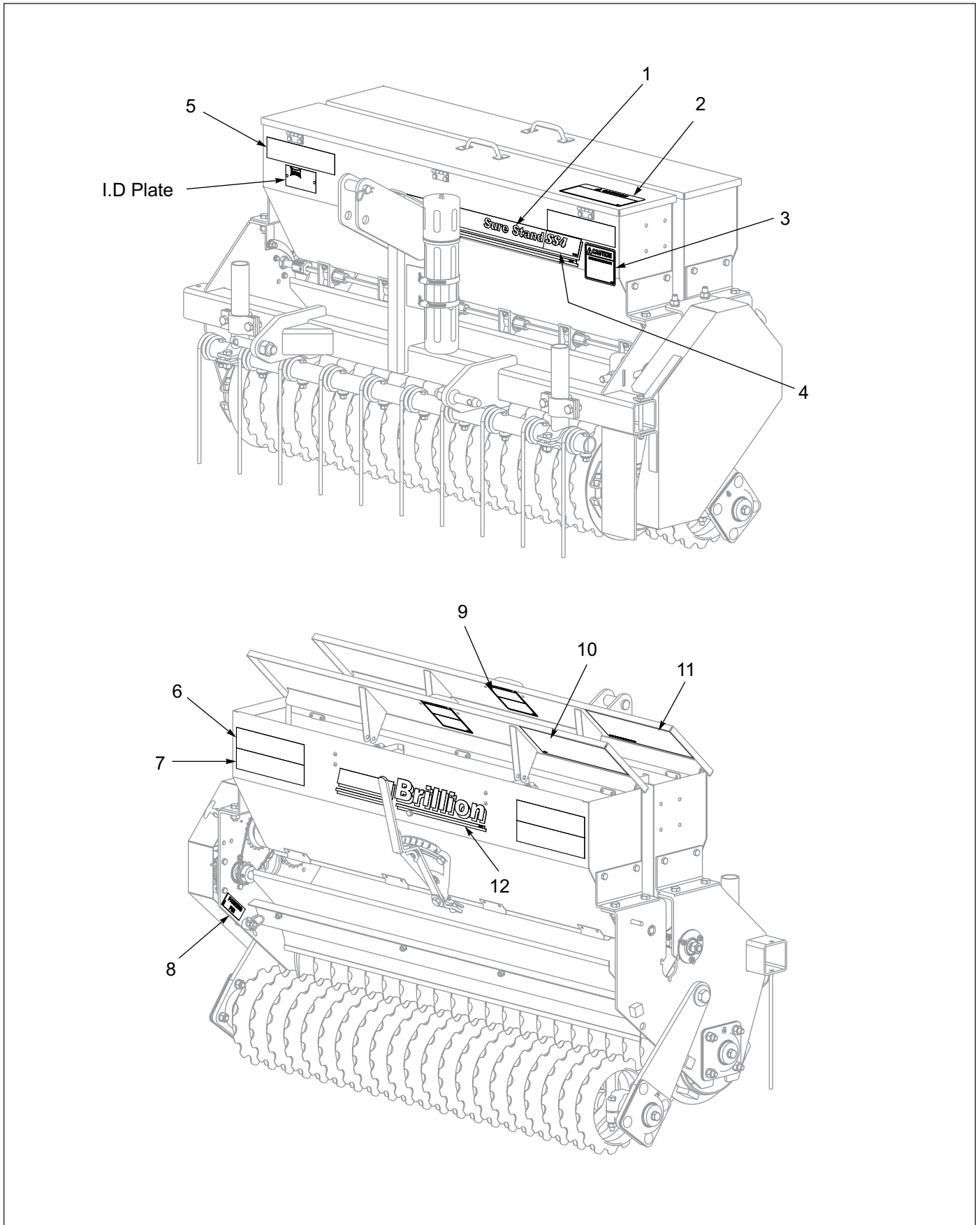


Figure 1-3: SSP4 Decal Locations

TABLE OF CONTENTS

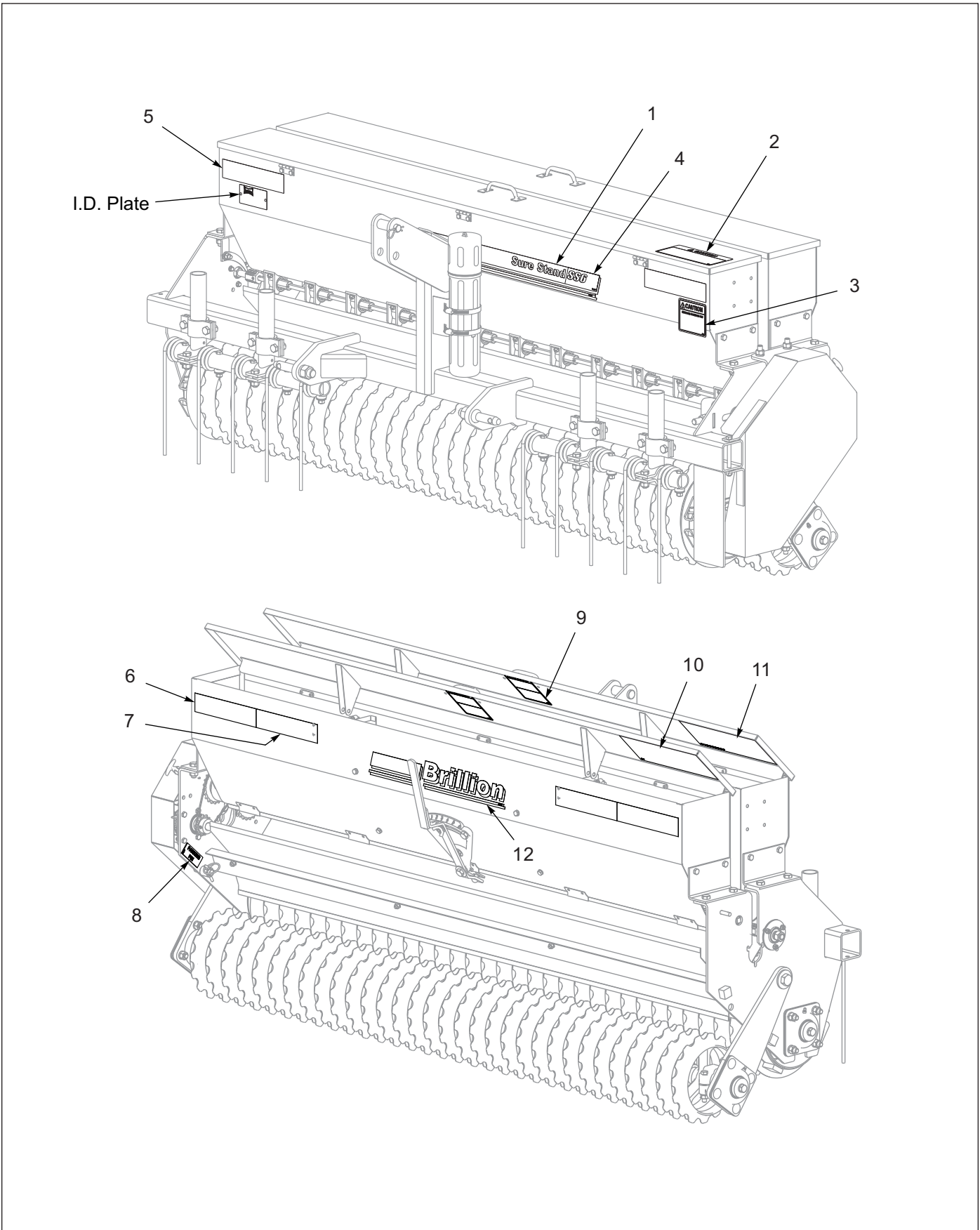


Figure 1-4: SSP5 & SSP6 Decal Locations

**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 7K554 for identification of parts and for the approximate relationship of the parts in assembly.

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 Locknuts. **See Page 4-1.**

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

Agitator Blades (Optional Cage or Brushes)

Agitator blades are supplied as standard on your seedbox. While in operation, they should operate leaving a slight clearance with the bottom of the seedbox.

Agitator brushes (Optional) in the seedbox sweep the bottom of the box to control the flow of seed. However, if they exert too much pressure on the bottom of the box, chain breakage and excessive brush wear can possibly result. To overcome excessive pressure of the brushes on the bottom of the box, the bolts holding the triangular cast iron bearings can be loosened and the bearings raised to reduce excessive drag. The holes in the bearing are slightly larger than the bolts holding them, thus making an adjustment possible.

Cage agitator (Optional) operates similar to blades.

IMPORTANT

Before proceeding with any agitator installation, be sure to determine the direction of shaft rotation on your particular seeder model. See Figure 2-1.

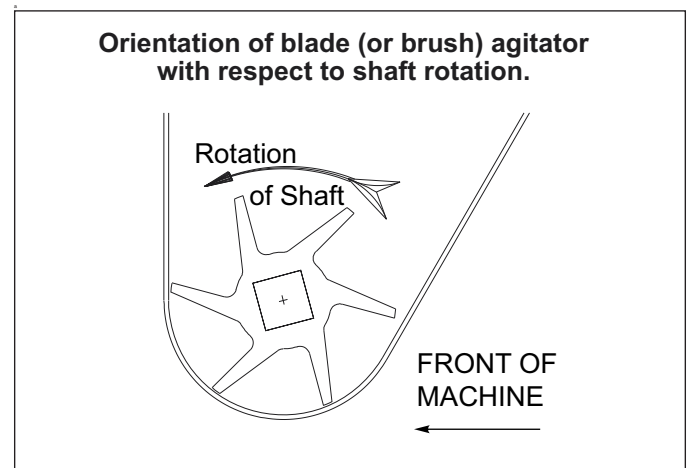


Figure 2-1: Shaft Rotation

Changing Agitator Kits

1. Remove two 5/16-18 x 1-1/4 bolts (inside the box) which hold bearing on the right end of the right seedbox. **See Figure 2-2.**
2. Slide shaft out of right end.
3. Agitators should be installed with careful attention paid to the direction of shaft rotation. This is especially important if you are installing brush agitators as they will be damaged if they are run backwards. Blade agitators will not be damaged if they run “backwards”, but the seed rate will be reduced.
4. With the agitators properly seated in the boxes, replace the drive shafts. Replace washers as needed for fit.
5. Check to be sure agitators rotate freely. Some seeders may have bolts extending into the seedbox causing interference. These bolts will need to be shortened.

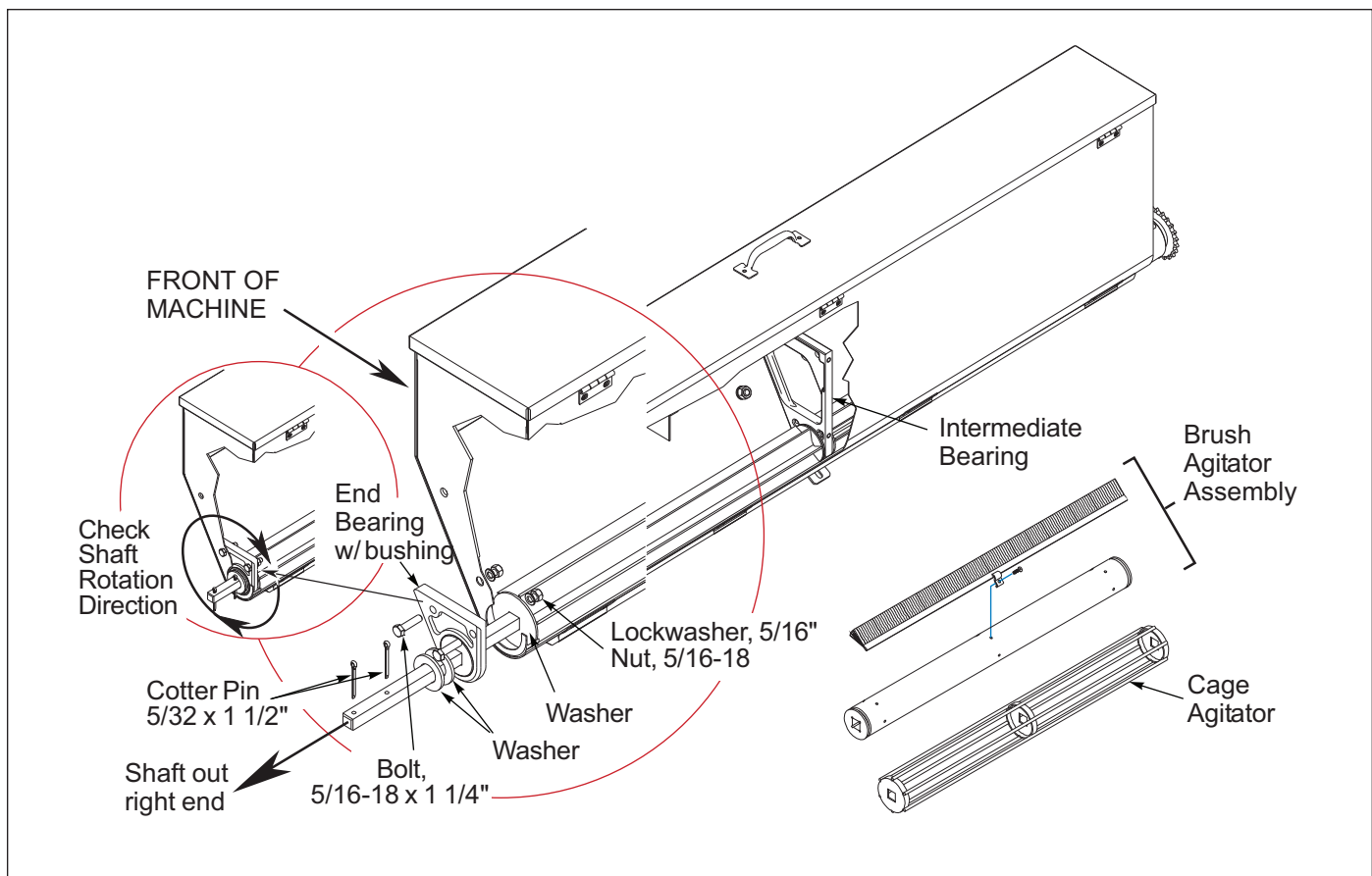


Figure 2-2: Agitators

CAT2 Quick Coupler Hitch Adaptor Kit - Optional

1. Remove Seeder Lower Hitch Pins.
2. Attach the Hitch Lugs to the front of the Seeder Frame tube and position the Hitch Lugs 6" outward from each Seeder Frame Lug. **See Figure 2-3 and 2-4.** Insert the Clamp Plate into the Hitch Lug and over the top of the Seeder Frame tube. Secure with 1/2-13 x 4-1/2 Bolts and Locknuts.
3. Insert Lower 3-Pt Pin into the Lower Hitch Lugs. Secure with existing Klik Pins.
4. Remove Upper Hitch 3/4 x 3 Clevis Pin, 1 x 2 Sleeve and Hair Pin Cotter. Place 1-1/4 x 1-15/16 Sleeve over removed 1 x 2 Sleeve and place it between the Upper Lugs bottom hole. Re-insert 3/4 x 3 Clevis Pin and Secure with Hair Pin Cotter

TABLE OF CONTENTS

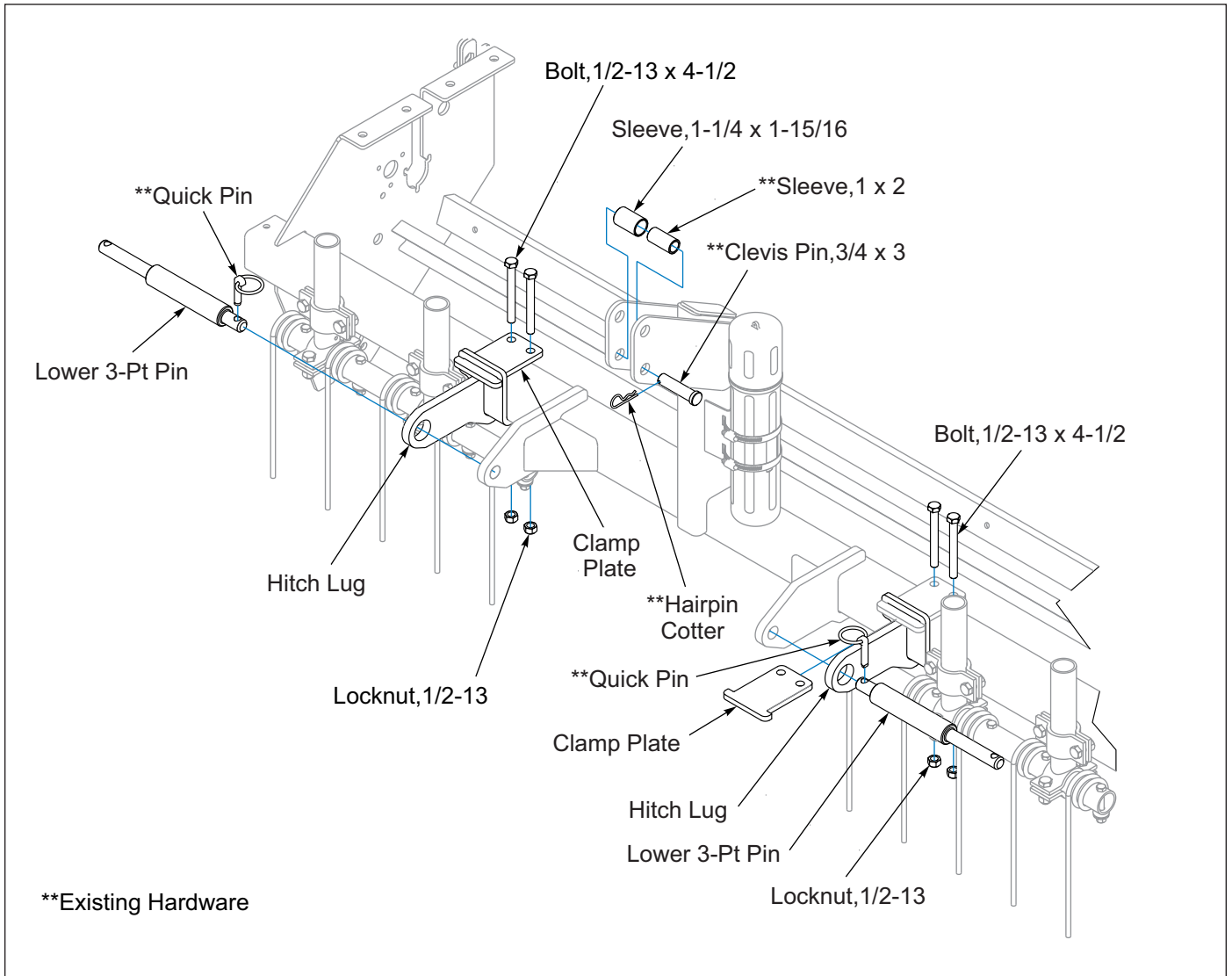


Figure 2-3: CAT2 Quick Coupler Hitch Adaptor Kit - Optional

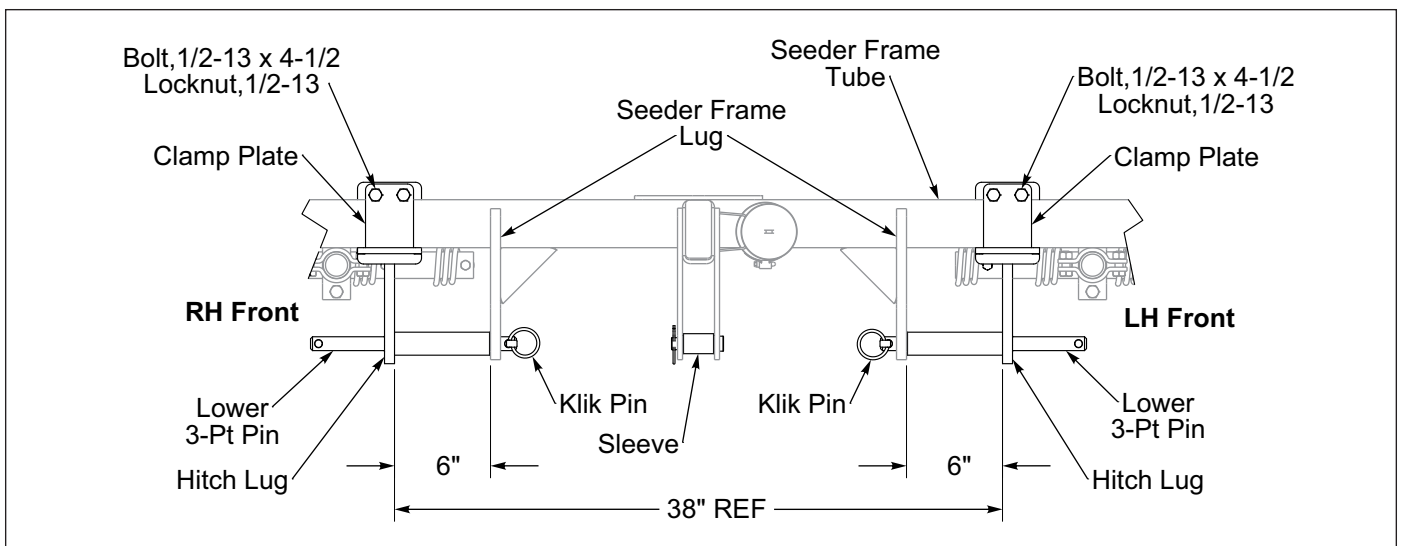


Figure 2-4: CAT2 Quick Coupler Hitch Dimensions

Lift Sling Kit - Optional

1. If not already assembled to the machine, attach a mounting bracket to each side of machine at the center holes of the right and left end plates. (A strap may need to be added to one side to equalize the thickness of plates on the both sides of the machine.)
2. Attach the lift sling to mounting brackets with 5/8-11 x 1-1/2" bolts and stover nuts provided in kit. **See Figure 2-5.**
3. Slide stabilizer into frame tube and secure with clevis pin and hairpin cotter.

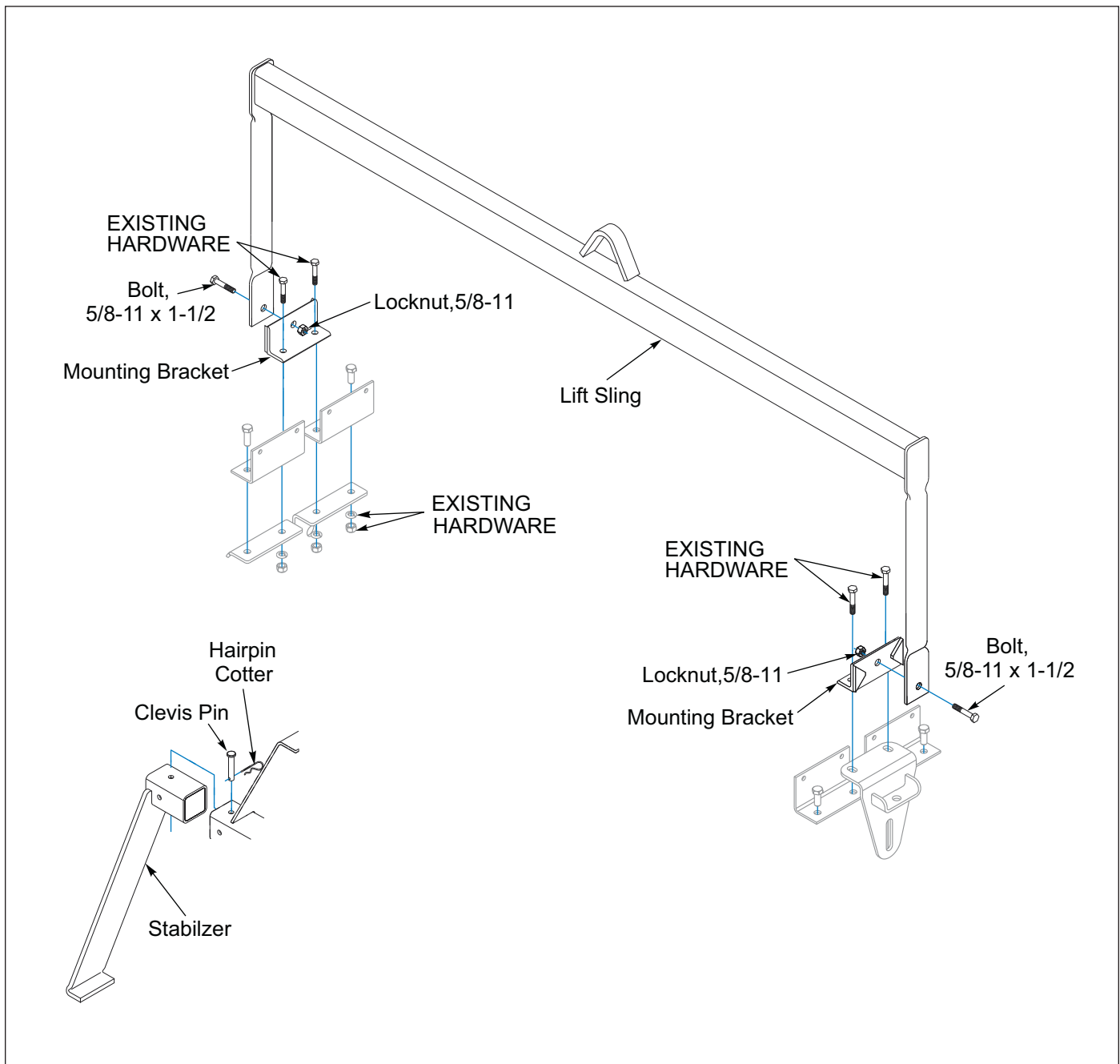


Figure 2-5: Lift Sling Kit

Acre Meter - Optional

The acre meter, consisting of three main parts; the acre meter, the pick-up, and the magnet wheel, is mounted on the left front side of the seedbox.

1. Drill 13/32" holes into seedbox at location shown. See **Figure 2-6**.
2. Next, use 3/8-16 x 1" bolts, lock washers, and locknuts to attach the bracket which holds the acre meter, as shown, onto the left front of the seedbox.
3. Mount the acre meter onto this bracket with #10-24 x 1" bolts, lock washers and locknuts.
4. Then run the wire from the bottom of the meter down the side of the seedbox and along its left side. Use mounting bases to hold the wire in place. Direct it across the plate which attaches the seedbox to the end plate. See **Figure 2-6**.

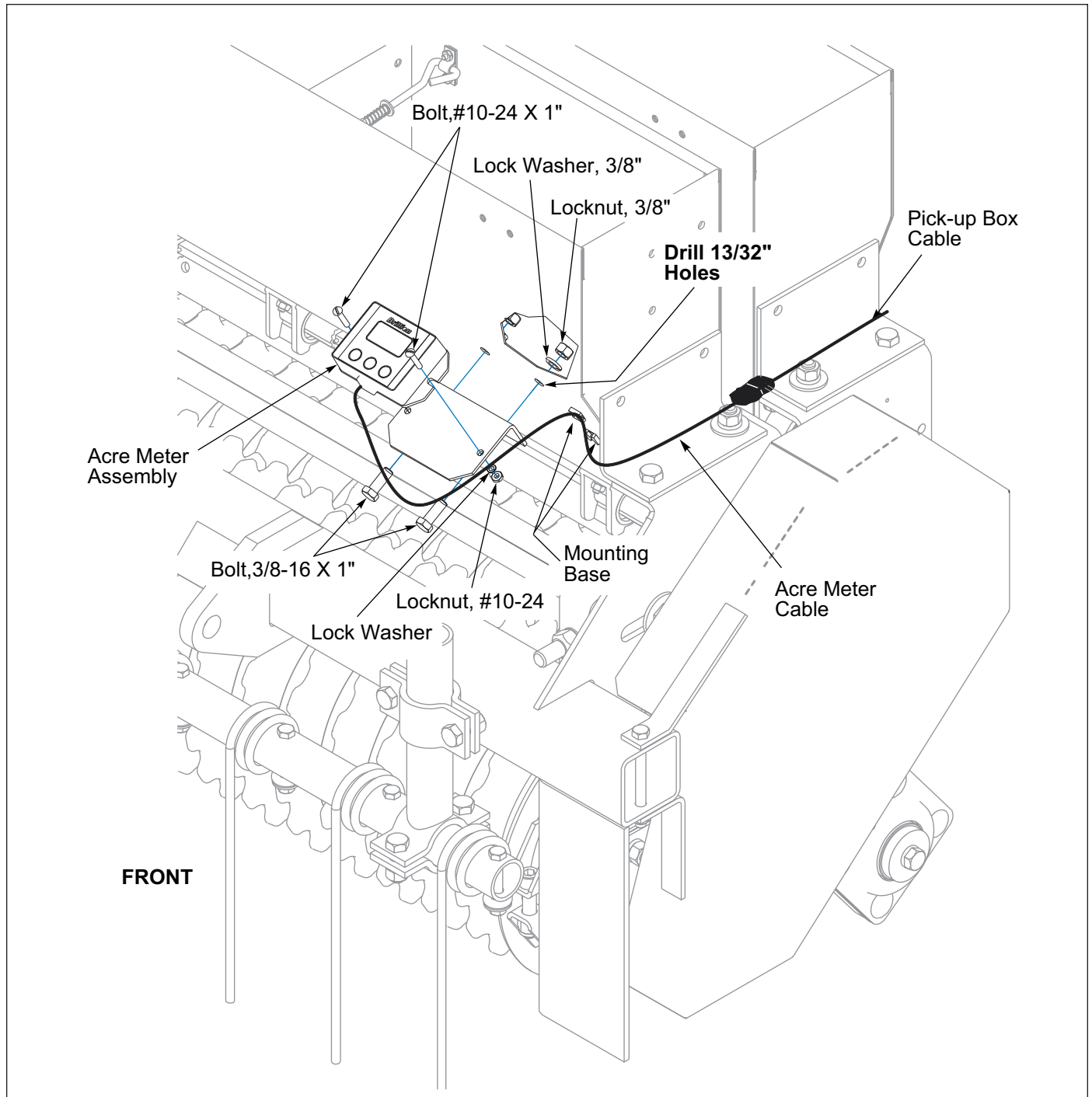


Figure 2-6: Acre Meter (1 of 2)

TABLE OF CONTENTS

- At the rear of the seeder, mount the L-shaped bracket to the end plate with a 5/8-11 x 1-1/2" bolt and locknut as shown. **See Figure 2-7.** The small shoulder on the bracket should butt up against the end plate of the seeder frame. On top of this bracket mount the pickup with two #8-32 x 1-1/4" bolts, flat washers, lock washers, and locknuts.
- Extend its longer wire up toward the side of the seedbox to meet the wire from the acre meter. Attach its shorter wire to the ground on the bracket. (Remove

paint under the terminal to assure a good electrical connection.)

- Press the magnet wheel firmly onto the shaft.

IMPORTANT

There should be a gap of 1/8" between the pickup and the magnet wheel.

- Plug the acre meter cable into the pick-up box cable.

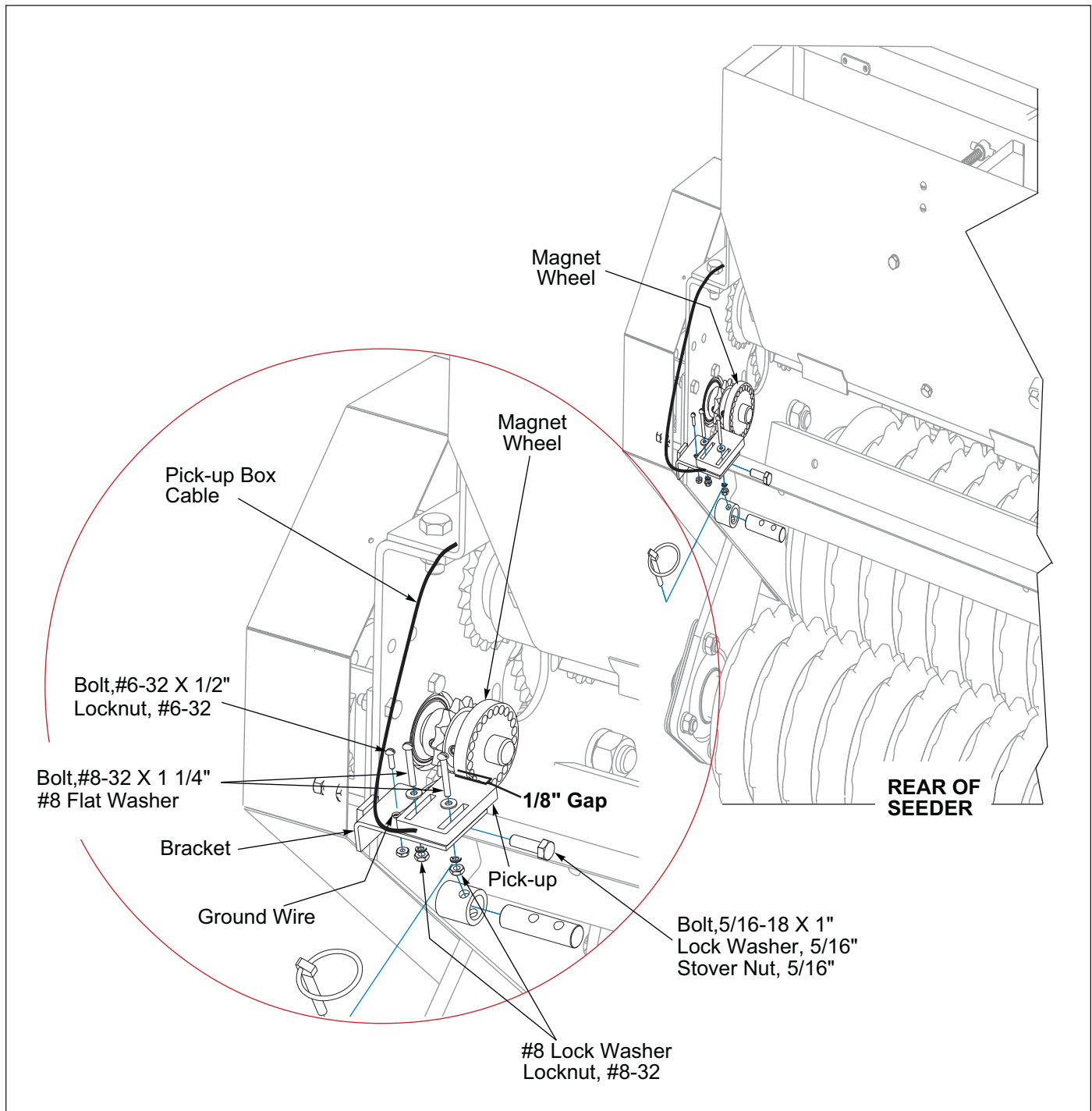


Figure 2-7: Acre Meter Rear Installation (2 of 2)

Seeder Operation

This chapter covers the basic operation and usage procedures for the Landoll Brillion Sure Stand Seeder.

Be sure to read and understand the Safety Procedures and Cautions starting on **Page 1-2**.



WARNING

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

Parking Pin

When hooking up the seeders:

1. Attach the tractor.
2. Remove the Klik Pin, pull the Parking Pin into outer position, replace the Klik Pin. **See Figure 3-1.**

When unhooking the seeders:

1. Remove the Klik Pin, push in the Parking Pin, replace the Klik Pin. **See Figure 3-1.**
2. Disconnect the tractor.

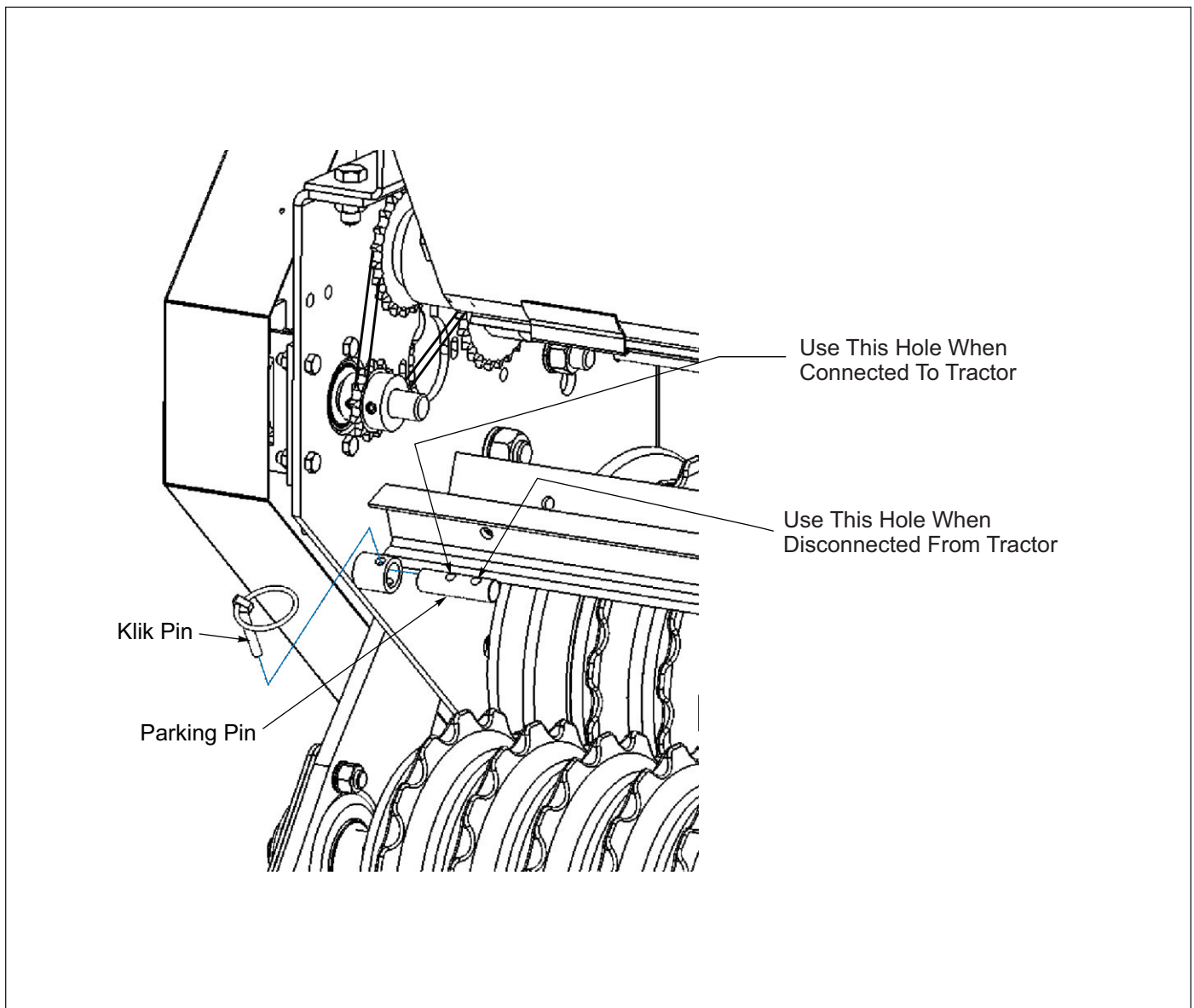


Figure 3-1: Parking Pin

Seed Rate Adjustment - Front Box

Adjusting Seed Cups:

All cups must be set the same in order to seed uniformly. To check, set the inner and outer adjusting nuts to close the seed cups. All cups should be completely closed. If not, individual cups can be adjusted by loosening their mounting bolts, moving the cups, and then re-tightening. See Figure 3-2.

Pointer Adjustment

With cups completely closed, pointer should point to groove in hex shaft marked "0". If it does not, adjust the nuts which clamp the pointer spring bolt to the frame end plates. See Figure 3-2.

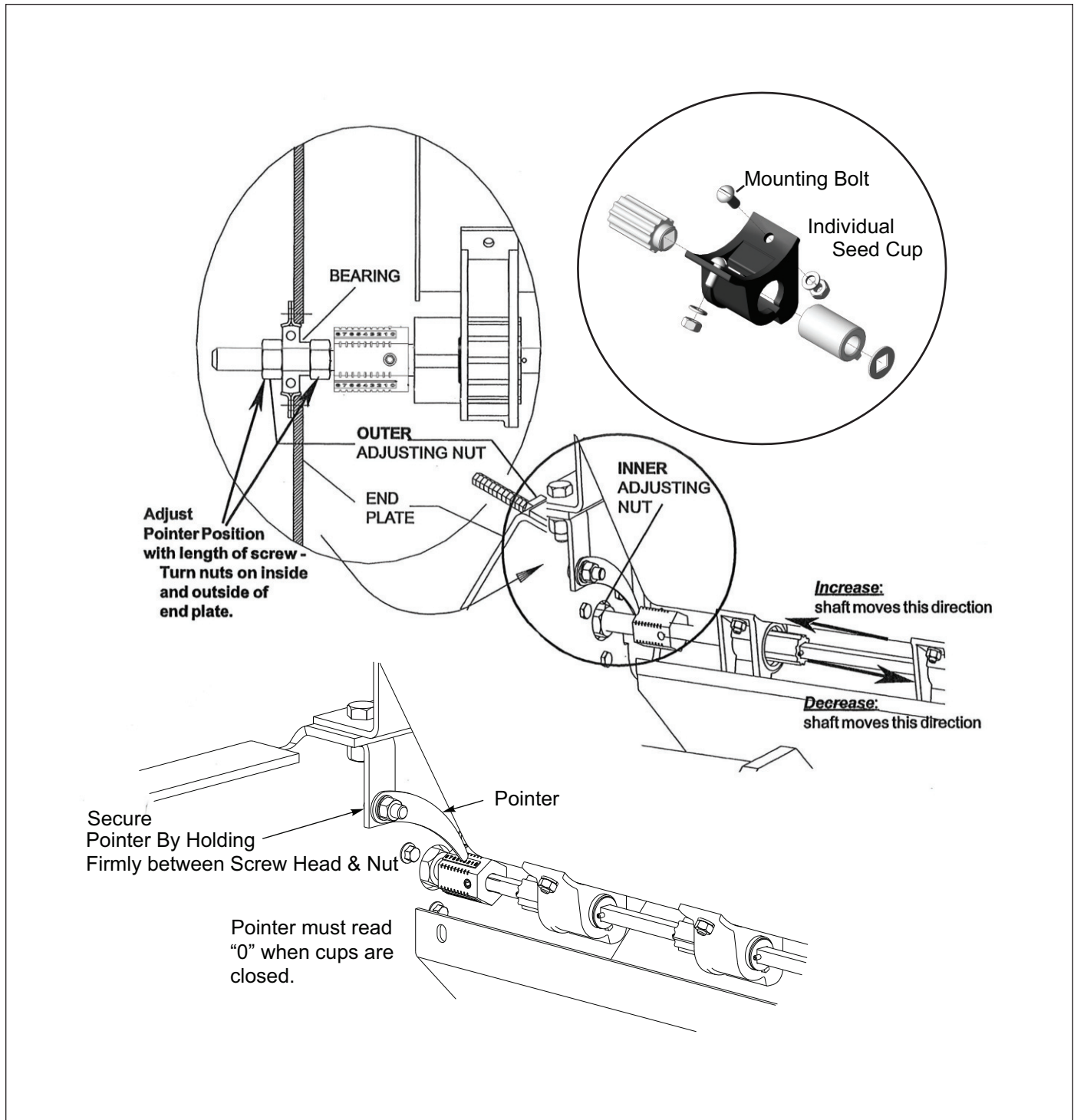


Figure 3-2: Seed Rate Adjustment - Front Box



WARNING

- To prevent damage to the seed meters, do not apply excessive force to adjusting nuts. Failure to do so may result in seed being pinched between the cut-off and washer inside the seed cup.
- Do not close the meters more than 1/8" when there is seed in the meters without rotating the seed shaft. This prevents damage to the rotating washers and retainer rings in the seed meters.
- Do not attempt to open the meters more than 1". (Feed rolls could become disengaged from the washer in the seed cup.)

When the handle is moved to '0' the holes in the box should be completely covered. If the holes are not covered, loosen the three bolts holding the seedmeter casting and shift it slightly so that the "0" mark is farther from the control handle. Retighten the bolts. Move the control handle to "0". Holes in the box should then be completely covered. See Figure 3-4.

Seed Rate Adjustment - Rear Agitator Box

Adjusting the Box Slide:

When properly adjusted, the holes in the slide should line up with the holes in the box, with the control handle set at "6". To make an adjustment, loosen the control handle on the box, move the slide until the holes line up. See Figure 3-3.

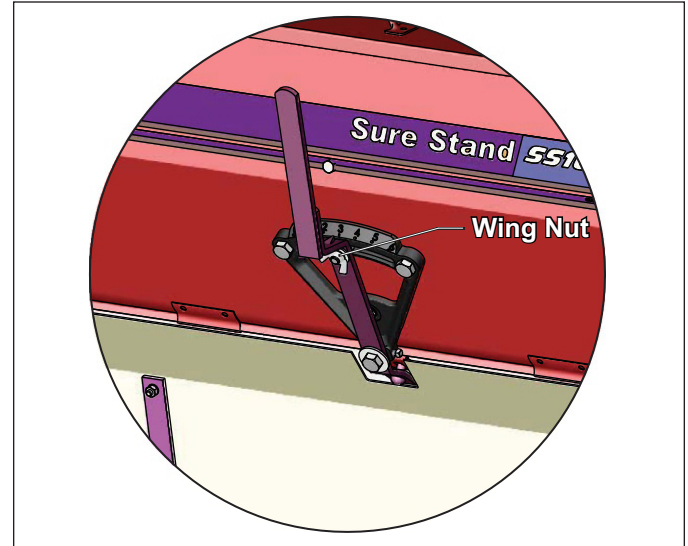


Figure 3-3: Agitator Box Control Handle

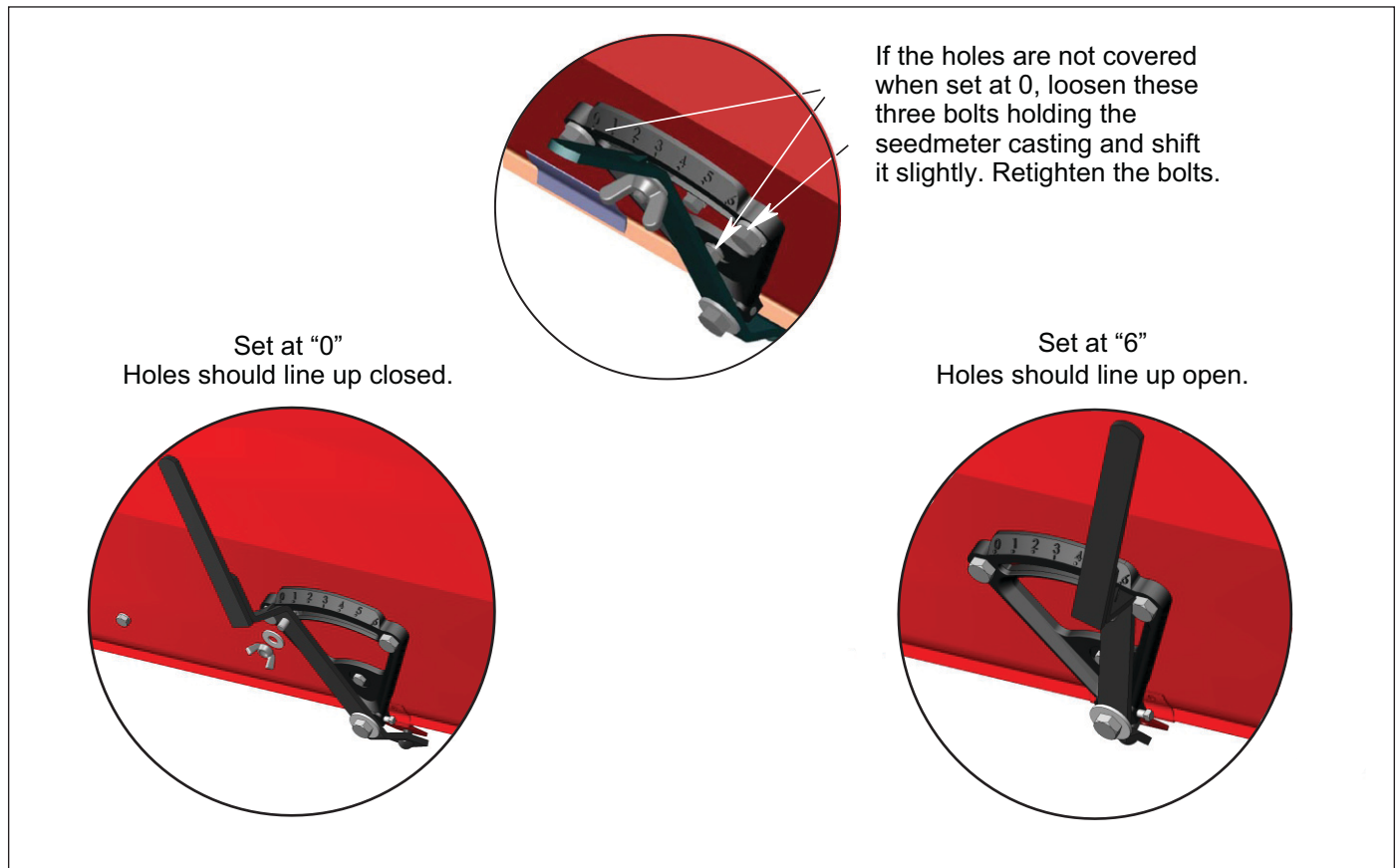


Figure 3-4: Adjusting the Box Slide

Seed Rate Calibration

The provided charts were determined by laboratory tests on various samples. To find rates for specific seed lots or to calibrate for unlisted seeds, proceed as shown on the seed chart.

Machine May Be Calibrated for Unlisted Seed as Follows:

1. Remove the chain between 17 Tooth and 19 Tooth Sprockets. **See Figure 3-5.**
2. Raise the machine and lock in transport position.
3. Place a canvas or tarp in position to catch seed.
4. Turn the 3/4 Hex on sprocket shaft counterclockwise (CCW).

1195 Revolutions for 4 Foot Seeder.

955 Revolutions for 5 Foot Seeder.

795 Revolutions for 6 Foot Seeder.

5. Weigh the seed for approximate planting rate.
6. Fewer turns may be used if results are adjusted by turning 3/4 Hex on sprocket shaft counterclockwise (CCW).

239 Revolutions for 4 Foot Seeder.

191 Revolutions for 5 Foot Seeder.

159 Revolutions for 6 Foot Seeder

and multiplying the weight by 5.

Planting Rates for Seed Meter (Front Box) in Pounds Per Acre:

- Rates are for the 13-Tooth Driver Sprocket.
- 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. **See Table 3-1 and 3-2.**

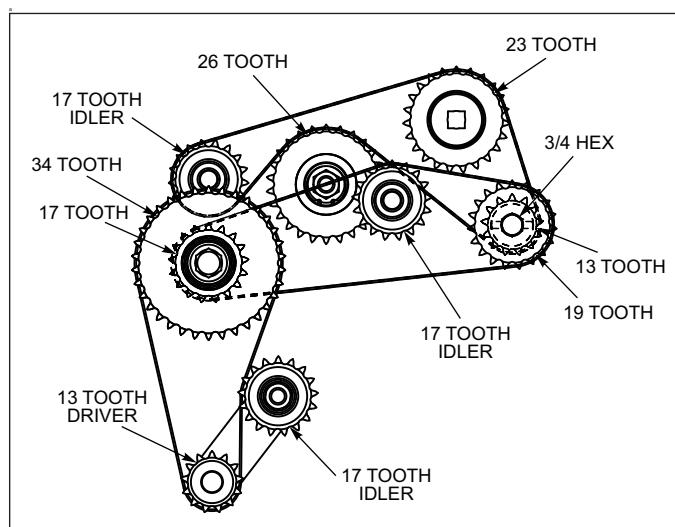


Figure 3-5: Chain Calibration

TABLE OF CONTENTS

Indicator Setting	1	2	3	4	5	6	7	8
Alfalfa (Uncoated)	3	6	12	17	21	26	30	35
Bahia	1	5	9	13	17	21	24	27
Bermuda (Hulled)	3	6	12	18	21	27	30	36
Birdsfoot Trefoil (Broadleaf)	3	8	13	18	27	32	39	46
Blue Grass (Kentucky)	1	3	4	6	8	10	12	13
Blue Grass (Park Kentucky)	1	4	6	10	13	17	19	21
Blue Grass (Sherman Big)	-	1	4	5	6	8	9	10
Canola	1*	6*	10	15	19	23	27	32
Centipede	3	6	8	12	15	18	21	23
Clover (Alsike, Ladino, Sweet, Red)	3	8	12	17	21	27	30	36
Clover (Alyce, Calif. Bur., Crimson, Hubam)	3	6	10	15	21	25	30	38
Crown Vetch	-	1	3	4	5	6	8	9
Flax	3	9	14	19	26	30	37	44
Harding Grass	3	6	10	13	17	21	24	27
Crested Wheat	1	5	8	12	14	18	21	23
Klein Grass	3	6	13	17	23	30	36	39
Lespedeza (Korean Unhulled)	1	5	9	13	18	21	27	30
Lespedeza (Korean Hulled)	3	6	12	17	21	27	32	36
Lespedeza (Sericea Unhulled)	1	4	6	10	14	17	19	21
Lespedeza (Sericea Hulled)	3	8	13	19	24	30	37	41
Love Grass (Weeping)	1	8	13	17	21	28	33	39
Love Grass (Sand)	3	6	10	14	19	24	30	35
Millet	3	8	13	18	23	28	33	39
Red Top	1	3	5	6	8	9	10	12
Reed Canary Grass	1	3	5	8	9	12	13	17
Switch Grass (Cleaned and Hulled)	-	3	5	6	9	12	14	17
Timothy	3	5	9	14	18	23	28	32

Table 3-1: Planting Rates for 4 and 5 Foot Seeders

Indicator Setting	1	2	3	4	5	6	7	8
Alfalfa (Uncoated)	4	8	15	23	27	35	41	46
Bahia	1	7	12	17	23	27	32	36
Bermuda (Hulled)	4	8	15	24	29	36	41	48
Birdsfoot Trefoil (Broadleaf)	4	11	17	24	36	43	53	61
Blue Grass (Kentucky)	1	4	5	8	11	13	16	17
Blue Grass (Park Kentucky)	1	5	8	13	17	23	25	29
Blue Grass (Sherman Big)	-	1	5	7	8	11	12	13
Canola	1*	8*	13	20	25	31	36	43
Centipede	4	8	11	15	20	24	27	31
Clover (Alsike, Ladino, Sweet, Red)	4	11	15	23	29	36	41	48
Clover (Alyce, Calif. Bur., Crimson, Hubam)	4	8	13	20	29	33	41	51
Crown Vetch	-	1	4	5	7	8	11	12
Flax	4	12	19	25	35	41	49	58
Harding Grass	4	8	13	17	23	28	32	36
Crested Wheat	1	7	11	15	19	24	27	31
Klein Grass	4	8	17	23	31	39	48	52
Lespedeza (Korean Unhulled)	1	7	12	17	24	29	36	41
Lespedeza (Korean Hulled)	4	8	15	23	27	36	43	48
Lespedeza (Sericea Unhulled)	1	5	8	13	19	23	25	29
Lespedeza (Sericea Hulled)	4	11	17	25	32	41	49	55
Love Grass (Weeping)	1	11	17	23	29	37	44	52
Love Grass (Sand)	4	8	13	19	25	32	39	46
Millet	4	11	17	24	31	37	44	52
Red Top	1	4	7	8	1	12	13	15
Reed Canary Grass	1	4	7	11	12	15	17	23
Switch Grass (Cleaned and Hulled)	-	4	7	8	12	15	19	23
Timothy	4	7	12	19	24	31	37	43

Table 3-2: Planting Rates for 6 Foot Seeders

TABLE OF CONTENTS

PLANTING RATES FOR SEED METER (REAR BOX) IN POUNDS PER ACRE: 4, 5 and 6 FOOT SEEDER

PLANTING RATES FOR BROME BOX (REAR BOX) IN POUNDS PER ACRE

- Rates are for 13-Tooth Driver Sprocket.
- Rates are intended as a guide only. Variations in size and cleanliness will affect rates. Check acreage & pounds of seed used for best results.
- The Calibration Procedure is the same as for the Meter Box.

SEED TYPE	AGITATOR	INDICATOR SETTINGS					
		1	2	3	4	5	6
BENT GRASS (L-93 CREEPING)	BRUSH	27	66	117	169	220	259
BLUE GRASS (SHERMAN BIG)	BRUSH	6	21	48	76	111	124
BLUE GRASS (KENTUCKY - ODYSSEY)	BRUSH	17	49	90	132	177	203
BLUESTEM (PAWNEE BIG)(W/BEARDS)	BRUSH	1.5	3	6	11	22	31
BLUESTEM (WW B. DAHL)(W/O BEARDS)	BRUSH	2.5	7	16	30	48	60
BLUESTEM (ITASCA LITTLE)(W/O BEARDS)	BRUSH	0.5	1.5	3.5	8	10	12
BROME (MEADOW)	BRUSH	2	5	9	16	28	45
BROME (SMOOTH)	BRUSH	3	7	15	26	43	71
BUFFALO GRASS	BRUSH	4	16	43	75	100	112
BUFFEL GRASS	BRUSH	-	0.5	1.5	2.5	5	6
FESCUE (CREEPING RED)	BRUSH	4	11	25	46	74	116
FESCUE (TALL)	BRUSH	10	37	75	146	210	230
FESTOLIUM	BRUSH	13	35	65	120	207	238
GRAMA (SIDE OATS)	BRUSH	1	3.5	5	14	22	30
INDIAN GRASS	BRUSH	1.5	3.5	8	13	22	32
ORCHARD GRASS (UNHULLED)	BRUSH	4	14	31	57	108	124
RYE GRASS	BRUSH	8	23	50	92	156	176
WHEATGRASS (INTERMEDIATE)	BRUSH	3.5	12	24	44	85	112

NOT RECOMMENDED: BLUESTEMS OTHER THAN SHOWN, ZORRO FESCUE

SEED TYPE	AGITATOR	INDICATOR SETTINGS					
		1	2	3	4	5	6
BENT GRASS (L-93 CREEPING)	BLADE	19	61	120	179	245	332
BLUE GRASS (SHERMAN BIG)	BLADE	3	16	41	66	106	143
BLUE GRASS (KENTUCKY - ODYSSEY)	BLADE	10	43	82	124	186	262
BLUESTEM (PAWNEE BIG)(W/BEARDS)	BLADE	0.5	2	3.5	6	8	13
BLUESTEM (WW B. DAHL)(W/O BEARDS)	BLADE	1	4	9	19	32	50
BLUESTEM (ITASCA LITTLE)(W/O BEARDS)	BLADE	-	0.5	1.5	3	5	8
BROME (MEADOW)	BLADE	1	3.5	6	9	16	26
BROME (SMOOTH)	BLADE	1.5	4.5	9	16	28	46
BUFFALO GRASS	BLADE	3	12	36	60	89	120
BUFFEL GRASS	BLADE	-	0.4	1	2	3	5
FESCUE (CREEPING RED)	BLADE	2	7	18	36	70	107
FESCUE (TALL)	BLADE	6	29	62	116	168	230
FESTOLIUM	BLADE	8	24	56	81	152	206
GRAMA (SIDE OATS)	BLADE	1	2.5	5	9	14	21
INDIAN GRASS	BLADE	1	2	3.5	6	7	10
ORCHARD GRASS (UNHULLED)	BLADE	2.5	9	21	41	72	114
RYE GRASS	BLADE	3	16	38	65	106	146
WHEATGRASS (INTERMEDIATE)	BLADE	2	7	17	28	49	73

NOT RECOMMENDED: BLUESTEMS OTHER THAN SHOWN, ZORRO FESCUE

Figure 3-6: Planting Rates

Chain Tension

Chain tension must be carefully considered so that the loads created on the components will not be too powerful. The sprockets and chains consist of 3 Drives. **See Figure 3-7.**

- The 1st Drive is spring loaded. Adjust the chain between the front roller and transmission to have approximately 2" of total deflection.
- The 2nd Drive chain adjusts up and down. To adjust the chain, loosen the idler axle bolt and adjust to obtain about 1/8" - 1/4" of deflection. Re-tighten axle bolt. Be careful not to over tighten.

- To adjust the 3rd Drive chain, loosen the 3/4" Hex bolt and adjust to obtain just enough sag so that the upper and lower chain strands do not touch each other. Re-tighten axle bolt.

IMPORTANT

Do not overtighten this chain or the bearing on the 26 Tooth Sprocket will be overloaded.

NOTE

Leave a small amount of slack, just so the two strands do not touch each other.

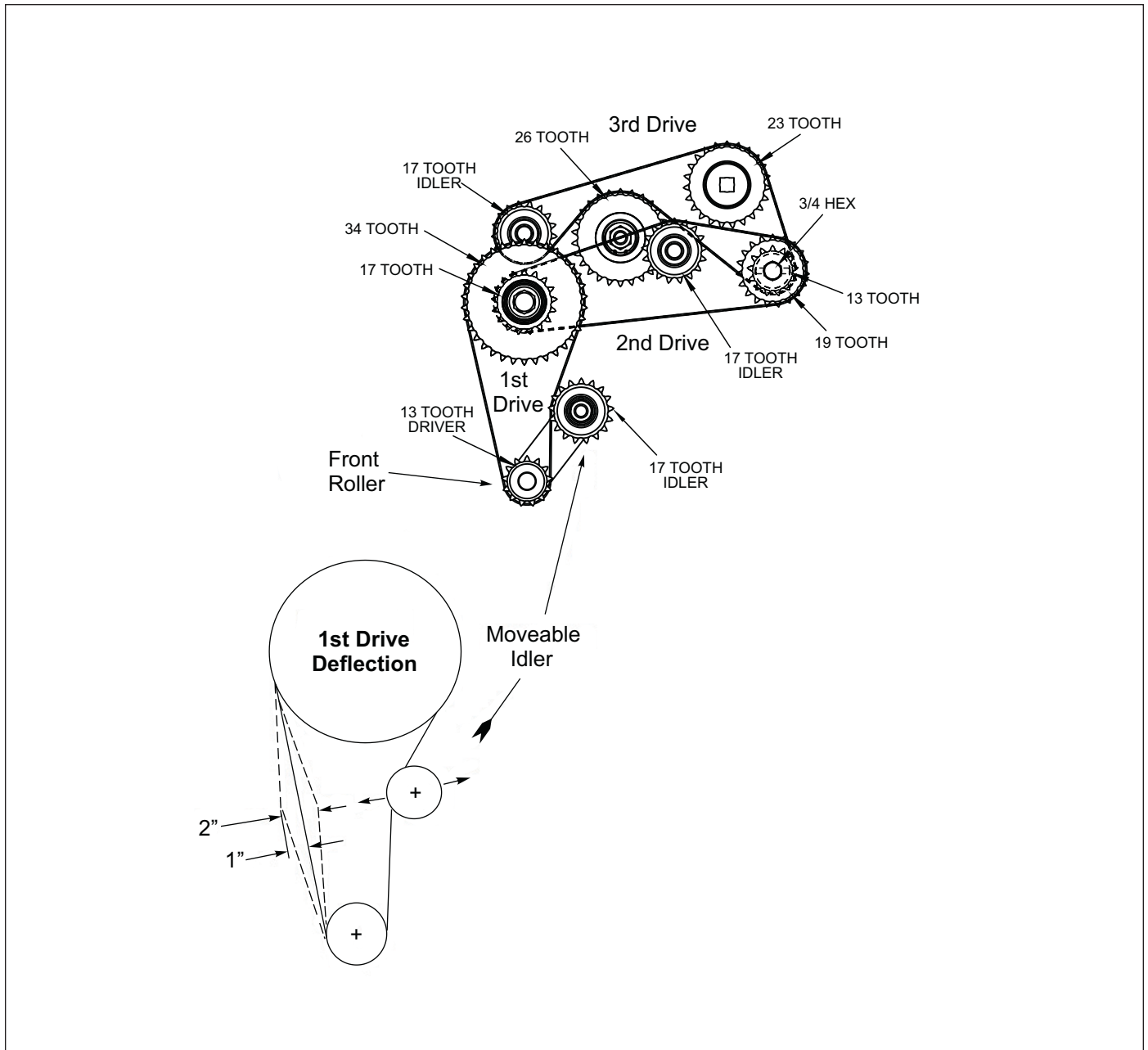


Figure 3-7: Chain Tension

Adjustment of the Wheel Track Remover

The depth of the wheel track removers can be adjusted. Loosen the (4) 1/2-13 X 1-1/4 bolts, and nuts that secure the clamps to the coil tine supports. Adjust the supports up or down to the desired depth and then retighten the nuts on the bolts. Do this for each pipe and tine assembly. **See Figure 3-8.**

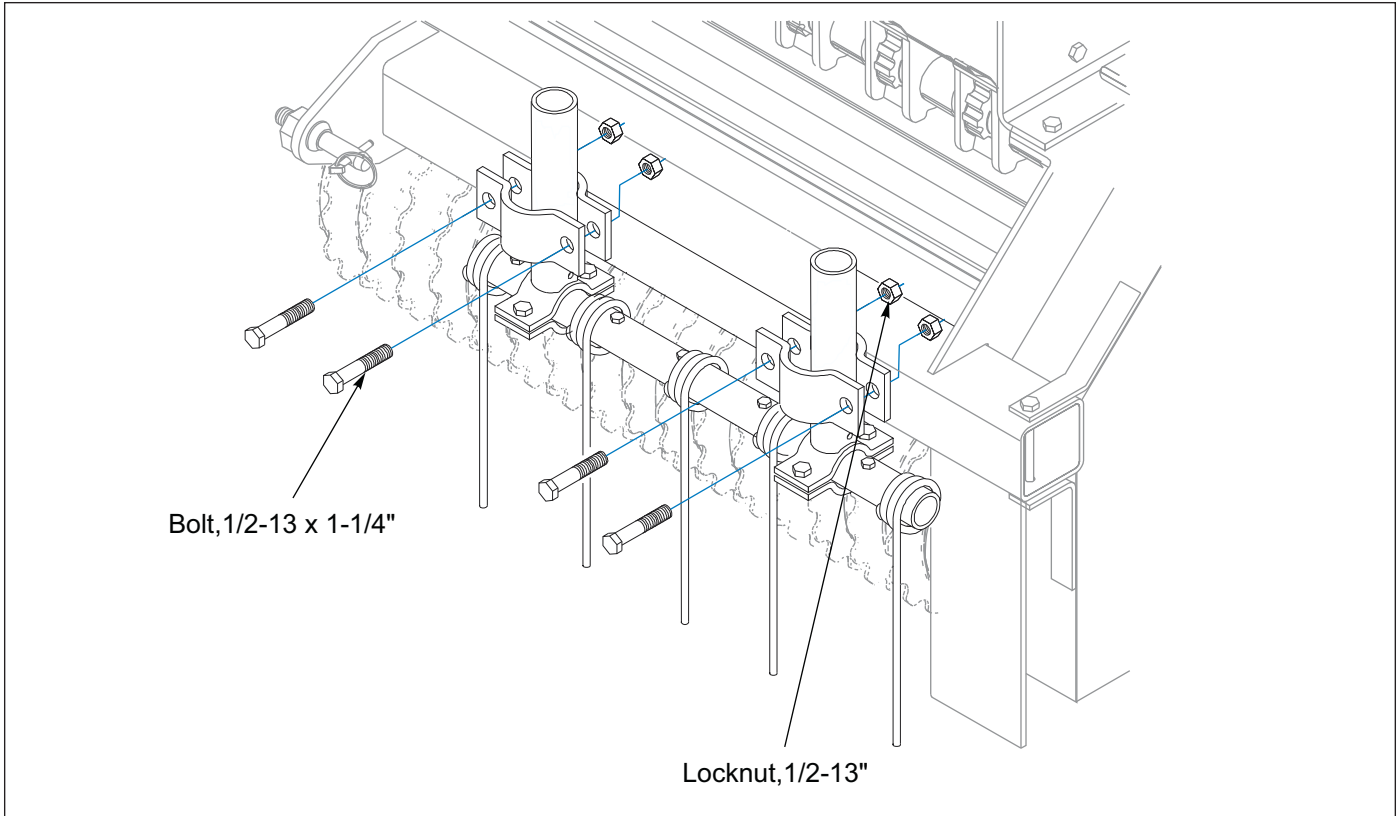


Figure 3-8: Wheel Track Remover

Roller Wheels

NOTE

Failure to locate the clamp band bolt over the weld will cause the clamp band to loosen and slide.

Adjust the front roller wheels first. Loosen clamp bands and slide the wheels snug against each other, centering the entire assembly under the deflector shields. Locate the bolt in the clamp band over the weld on the pipe. Slide the clamp band against the end wheel and tighten the clamp band bolt.

To adjust the rear roller wheels follow the front wheel procedure. Start aligning the peaks of the rear wheels with the valley of the front wheels at the center of the rear roller. This will provide the best alignment of worn wheels. **See Figure 3-9.**

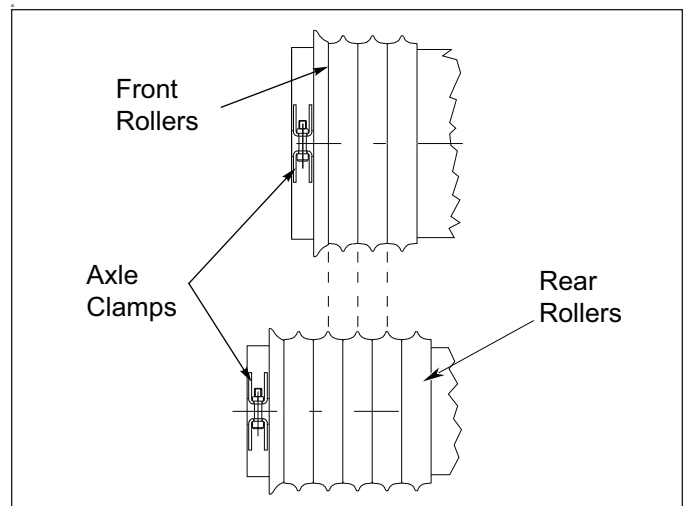


Figure 3-9: Roller Wheels

Loup Acre Meter Settings - After 05/15/2012

The battery operated acre counter operates in one of two modes. 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. 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 ft, Width, Password and Low Battery

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 **"FIELD"** and **"TOTAL"** LEDs are 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:

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 3-3.**

If you do not know the pulses per mile, press and hold the **UP** and **DOWN** buttons until the "0000" appears in the display. The **"PULSES"** LED will blink. The acre counter is now counting shaft rotations. Enter the cab and drive 400 feet. Press the ***/FUNC** button to wake up the acre counter. The **"PULSES"** LED will again blink. The number displayed is the pulses per 400 feet. Press the ***/FUNC** button to accept the setting. The **"PULSES"** LED will stop blinking and remain on.

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

Width

Press the ***/FUNC** button until the **"WIDTH"** LED is lit. The number displayed is the length of your implement 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 length 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 implement 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 ft, 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 powers down. When the acre counter is powered up 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.

Loup Acre Meter Settings - Prior to 05/15/2012

- 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 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 3-4.**
3. Press the function button to set the pulses. (If screen goes blank before you press the function button, repeat steps 1 and 2).
4. Press the function button 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 3-4.**
6. Press the function button to set the width. (If screen goes blank before you press the function button, repeat steps 4 and 5).
7. Press the function to scroll through the screens to check that the correct pulses and width have been entered.

To Enter Password

1. Press the function button 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 the function button 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 the function button 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 the function button to scroll to the password screen it will show **(ent)**.
2. Use up or down button to enter password (number).
3. Press the function button 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 the function button; **(dis)** will appear. Password is now disabled.

Battery Replacement

The battery operated acre counter uses 3 AA batteries. The batteries should last between 5 and 10 years. The acre counter will last much longer than that. Eventually, you will have to replace the batteries. The “**BATT**” LED will light when the batteries require replacement. Remove the acre counter from the implement and undo the 4 screws on the back of the case. This will separate the housing from the rear plate. Replace the batteries with 3 high quality AA alkaline batteries.

This unit is dust and splash resistant, under no circumstances should this unit be submerged in any conductive, corrosive, or flammable liquid.

Acre Meter Settings Charts

MODEL				PULSES	WIDTH
SSP T604				22	5.0
SSP4	SS4			44	4.0
SSP5	SS5			44	5.0
SSP6	SS6			44	6.0
SSP8	SS8			58	8.0
SSP10	SS10			58	10.0
SSP12	SS12			58	12.0
SSP16		SS16		45	16.0
SSP108	SS108			58	8.0
SSP110	SS110			58	10.0
SSP112	SS112			58	12.0
SSP208	SSP2081	SS208	SS2081	58	8.0
SSP210	SSP2101	SS210	SS2101	58	10.0
SSP212	SSP2121	SS212	SS2121	58	12.0
SSP308		SS308		29	8.0
SSP310		SS310		29	10.0
SSP312		SS312		29	12.0
SLP8		SL8		314	8.0
SLP10		SL10		314	10.0
SLP12		SL12		314	12.0
SLP204		SLP2041		128	4.0
SLP206		SLP2061		128	6.0
SLP304		SLP3041		64	4.0
SLP306		SLP3061		64	6.0
LSP5				128	5.0
LSP6				128	6.0
LSS6				128	6.0
SLP208	SLP2081	SL208	SL2081	116	8.0
SLP210	SLP2101	SL210	SL2101	116	10.0
SLP212	SLP2121	SL212	SL2121	116	12.0
SLP308	SLP3081	SL308	SL3081	58	8.0
SLP310	SLP3101	SL310	SL3101	58	10.0
SLP312	SLP3121	SL312	SL3121	58	12.0
BOS4F1	BOS4S1	BOS6F1	BOS6S1	45	4.0
BOSB4F1	BOSB4S12	BOSB6F1	BOSB6S1	45	6.0
BPS6	BPSB6			51	6.0
GLP643		SSLP643		69	5.3
4620-24				45	24.0
4630-36				per Seeder	36.0
X19-27	XL28-36	XXL38-46		90	per Model
WFP23-37				90	per Model

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

TABLE OF CONTENTS

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

Table 3-4: Acre Meter Settings (Prior to 05/15/2012)

Maintenance & Specifications

General Torque Specifications

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	UNF 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

Acre Meter

The battery operated acre counter uses 3 AA batteries. The acre counter will display “**LObat**” when the batteries require replacement. Remove the acre counter from the implement and then the 4 screws on the back of the case. Separate the housing from the rear plate. Replace with 3 quality AA batteries.

Fasteners

Before operating your Brillion machine, check all hardware for tightness. Use the Tightening Torque Table reproduced above as a guide.

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

- Values are given in foot-pounds.
- Use GRADE B lock nuts with GRADE 2 and GRADE 5 bolts only.
- Use GRADE C lock nuts with GRADE 8 bolts only.

Lubrication

- All machines have a grease zerk (fitting) on each bearing end of the front and rear rollers.
- Oil roller chains periodically.
- Grease all bearings every 20 working hours.

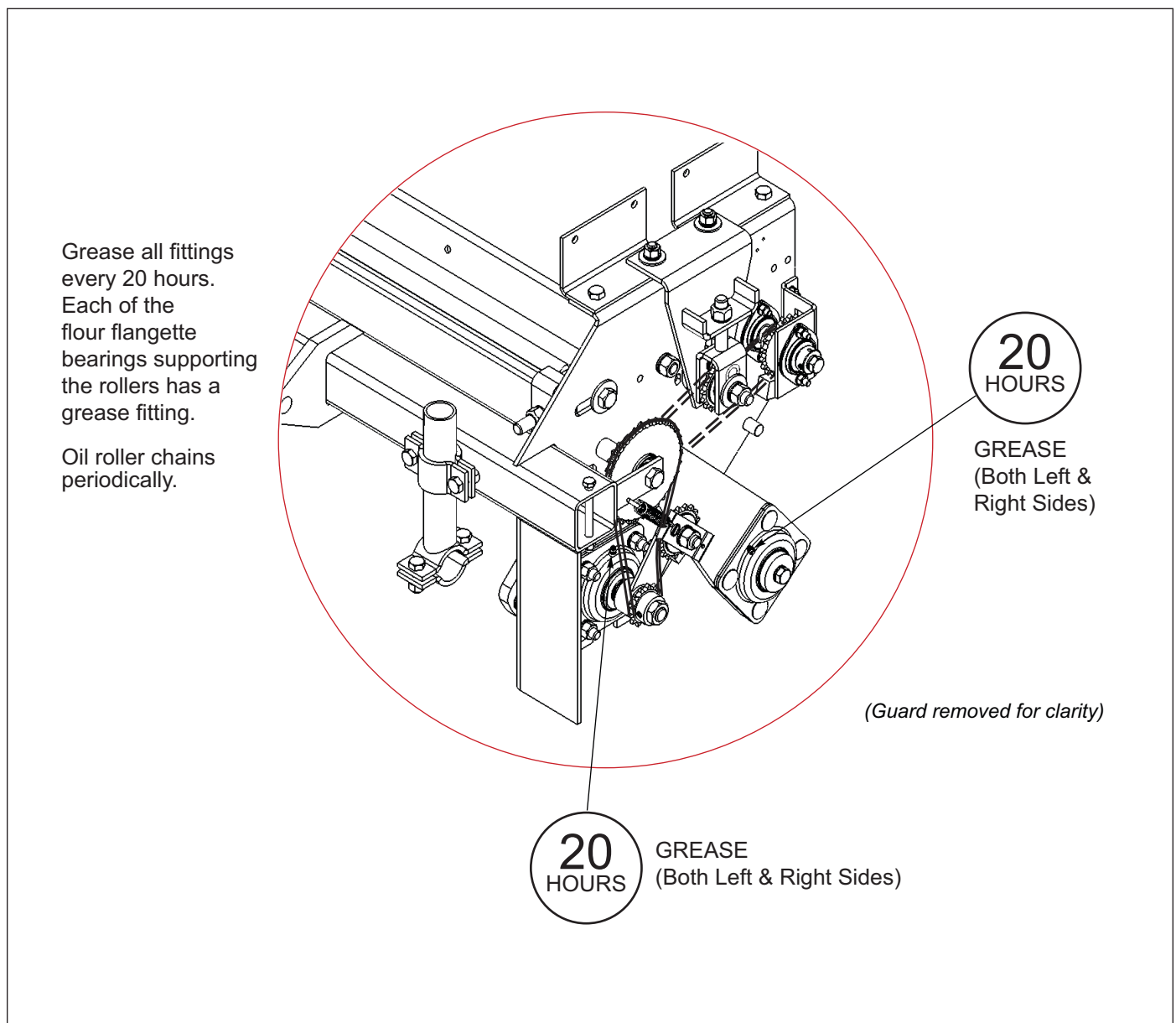


Figure 4-1: Lubrication Points

General Reference and Specifications

Model	Description	Weight
SSP4	4' Sure Stand Seeder, Pick-Up Type	788
SSP5	5' Sure Stand Seeder, Pick-Up Type	1007
SSP6	6' Sure Stand Seeder, Pick-Up Type	1100

Table 5-1: Model and Weight Specifications

Dimensions	4 ft.	5 ft.	6 ft.
Rolling Width	4 feet	5 feet	6 feet
Overall Width (Frame Width)	59 3/4 inches	72 3/16 inches	84 inches
Overall Length (w/out Lift Sling)	30 inches	30 inches	30 inches
Overall Height (w/out Lift Sling)	43 inches	43 inches	43 inches
Seedbox Capacity	3 1/2 bushels	4 3/8 bushels	5 1/4 bushels
Small Seed Hopper	1 3/4 bushels	2 3/16 bushels	2 5/8 bushels
Brome Box	1 3/4 bushels	2 3/16 bushels	2 3/16 bushels
Three Point Hitch	Cat. 1	Cat. 1	Cat. 1

Table 5-2: Dimensions

Part Number	Description	Weight
6K036	Acre Meter	2
6K060	Lift Sling Kit	78
6K067	Rear Roller Assembly w/6K066 Sprockets	435
6D350	Smooth Wheels - Front	8 each
6D351	Smooth Wheels - Rear	4.4 each
6K066	Sprockets	4.65 each

Table 5-3: Optional Equipment

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
03/2013	402rev0313	Added New Acre Meter Data
06/2020	7K555rev0620	Revised Chain Tension Illustration
02/2021	7K555-0221	Add CAT2 Quick Coupler Hitch Adaptor Kit Option



Intertek

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

Sure Stand Seeder Models - SSP4, SSP5 and SSP6 Operator's Manual

Re-Order Part Number 7K555

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