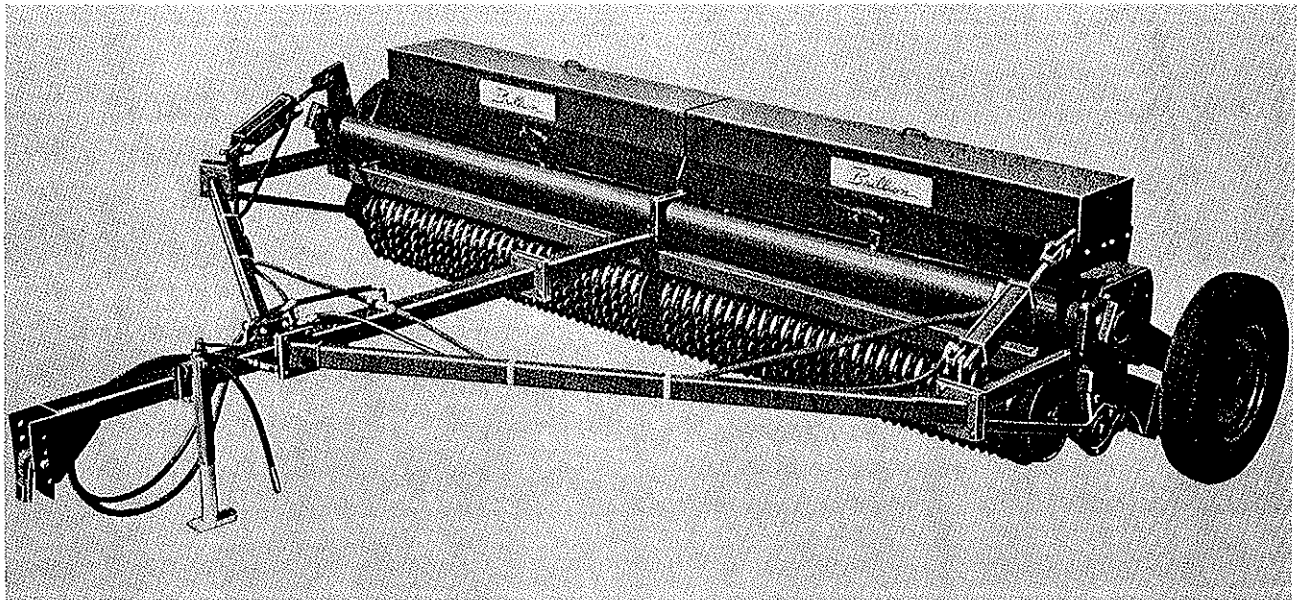


OPERATOR'S MANUAL



DEALER PLEASE NOTE—

THESE INSTRUCTIONS SHOULD BE PLACED
INSIDE SEED BOX SO CUSTOMER WILL HAVE IT
FOR REFERENCE.

SST-144

SSPT-144

SURE STAND

GRASS SEEDER

**BRILLION IRON WORKS
BRILLION, WISCONSIN 54110**

INTRODUCTION

Your Brillion "Sure-Stand" Grass Seeder and Pulverizer is built with the best materials and workmanship available. Proper care and operation will insure that you receive the service and long life built into this machine.

Study this manual carefully before attempting to assemble or operate this machine. A special section of this manual is devoted to assembly of this machine. Refer to the "Setting Up Instructions" portion of this manual. Also included in this manual are operating instructions, seed rate charts, and maintenance hints.



This safety alert symbol is used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.

Location Reference

"Right" and "Left", "Front" and "Rear" refer to operators "Right" and "Left", "Front" and "Rear" when he faces in same direction as machine will travel in the field.

Parts Ordering

When ordering parts for this machine, be sure to include the complete model number and serial number. The model number and serial numbers are located on the lid of the right hand seedbox.

Please read and record this number upon taking delivery of this machine.

Seeder Model _____
Serial Number _____
Date Purchased _____

Be sure to read the Warranty on the Warranty Card which is shipped with this machine. Return the proper portion of the Warranty Card so that your machine will be recorded.



SAFETY SUGGESTIONS

Investigation of farm accidents shows that nearly 1/3 of all farm accidents are caused by careless use of farm machinery. You can do your part in making your farm and community safer by following these safety suggestions. Insist that all people working with you or for you abide by these suggestions.

Do not stand between tractor and implement when attaching or detaching implement unless both tractor and implement are not moving.

Do not make adjustments or lubricate machine while it is in motion.

Relieve pressure in hydraulic lines before uncoupling hydraulic hoses from tractor.

When not in use, lower machine to ground.

Block machine so that it will not roll when disconnected from tractor.

Do not transport at speeds over 20 MPH.

Always use two transport locks for the two hydraulic cylinders.

OPERATING INSTRUCTIONS

A. Pre-operating Check

1. Remove any tools, parts or foreign material (especially nuts and bolts) that have dropped into the boxes during assembly.
2. Check to see that all nuts and bolts are tight.
3. Check the tightness of the CA-550 roller chain and the alignment of the idler sprocket daily or before each use. On models manufactured before May 1, 1976 a #55 steel detachable chain was used, check it the same as described above. Whenever the seeder has not been operated for a period of time, check all the roller chains for corrosion or freezing. If the chain has become stiff or frozen, wash with kerosene or diesel fuel and lubricate with graphite or a similar dry lubricant.
4. Before each use, raise the machine until the rollers clear the ground and turn the front roller by hand to make sure the entire seeding mechanism operates freely.
5. Check the seedcups on the rear box to make sure that they all open and shut off together. To reset the seedcups, shift the rear box seed control handle to zero. Loosen seedmeter cup bolts and move cup until feed roll is flush with inside face of ring. Tighten cup in place. If all seedmeters are shut off and the indicator does not point to zero, loosen the indicator plate and tap it over until the indicator points to zero.
6. Check the front seedbox slide for alignment. When properly adjusted, the holes in the slide should line up with the holes in the box with the control set at "6". To make an adjustment, loosen the control handle on the box and move the slide until the holes line up. When the handle is moved to zero the holes in the box should be completely covered. If the holes are not covered, loosen the three bolts holding the shift plate casting and shift it slightly so that the "0" mark is farther from the control handle. Retighten the bolts. Move control handle to "0". Holes in box should be completely covered.
7. Before operating the pull type seeder, grease the 3 transport axle bearings. There is a grease fitting on top and bottom of each bearing. The pickup seeder does not have any bearings requiring greasing.

B. End of Season Maintenance

1. At the end of a season, apply grease to all grease fittings and apply a protective coating of oil to the rear seedbox seedmeter cups, chain, front seedbox agitator bearings, and bolts in seedmeter handles.
2. Check roller and axle bearings. Repack if necessary.
3. Be sure all boxes are clean and free of sand and dirt.
4. Replace any broken or worn parts with genuine Brillion parts.
5. Store your grass seeder where it will be protected from the weather.

C. Start of Season Maintenance

1. Remove oil from seedmeter cups by washing with kerosene or diesel fuel.
2. Apply grease to all grease fittings.
3. Check operation of control handles on boxes. If necessary, lubricate them so they move freely.
4. Check to see if any moving parts are rusted tight.
5. Recommended size of two tires are 7.60 x 15 6 ply inflated to 36 psi.

D. Field Operation

Each seedbox is driven by a separate chain drive from the front roller. The seeding mechanisms are in gear whenever the front roller is on the ground. The seeder must be raised to stop the seeding mechanism. DO NOT BACK UP WITH THE SEEDER ON THE GROUND AS IT MAY CAUSE DAMAGE TO THE DRIVE CHAIN AND IDLERS.

The front boxes are used for light chaffy seeds, such as brome or orchard grass. The seed rate adjustment for this is on the front of the seedbox. Each box has its own control, but they must be set to seed at the same rate.

The rear boxes are used for small hard seeds such as clover, alfalfa and timothy. The adjustment for these boxes is on the rear and must be set at the same rate.

If the seeder is to be used as a pulverizer only, disconnect the two CA-550 drive chains (#55 STEEL DETACHABLE ON OLDER MODELS) to save wear and tear on the seeding mechanism.

CAUTION

THIS MACHINE IS NOT INTENDED TO BE USED TO SPREAD FERTILIZERS FROM EITHER OF THE BOXES. USE OF FERTILIZERS IN THIS MACHINE WILL CAUSE DAMAGE TO THE SEEDING MECHANISM AS WELL AS CORROSIVE DAMAGE TO THE SEEDBOXES.

OPTIONAL EQUIPMENT

1. An acre meter attachment can be purchased from your Brillion dealer. This is a precision weatherproofed instrument, calibrated to record acres and tenths of an acre of land seeded. Exercise care while mounting this instrument. (Complete installation information will accompany the meter.)
2. Brush agitator kit.
3. Tractor wheel mark leveler kit.

ASSEMBLY OF SEEDER

A. Preparation for Assembly

Place all bundles, boxes and bags where they will be handy and remove all tie wires or banding. Remove tops of seedbox crates so seedboxes can be removed. Remove bags of parts from crates and open. Lay out parts so they can be easily located when needed.

Note: Do not tighten bolts until instructed to do so.

B. Assembling Wheels on Axles See Figure 1 and 2.

1. Select one of the pipe axles and set one end of a block of wood. Let about two feet of pipe overhang the block.



Block the axle so it cannot roll off the block.

2. Select the proper size clamp ring that fits the axle you are assembling. Slip the clamp ring over the end of the pipe axle, with the gap in the clamp ring over the weld bead on the pipe. Position the clamp ring flush with the end of the pipe and tighten, using the Allen wrench provided.
3. Slide an end wheel (half-wheel) over the other end of the pipe axle and down to the clamp ring. Be sure that the flat side of the end wheel is against the clamp ring. Then slide full wheels on the pipe. When the pipe is full up to the block, raise the end of the pipe with a hoist until the wheels will slide over the block. Repeat until all the wheels are on the axle. Install end wheel with flat side out and clamp ring. Be sure gap of clamp ring is over weld in pipe. Tighten clamp ring.
4. Assemble the other pipe axle in the same manner. Note: The front pipe axle is 12-3/4 O.D. and the rear pipe axle is 8-5/8 O.D.

C. Assembling End Brackets See Figures 3, 4 and 5.

Position the pipe axles one behind the other. The smaller axle is slightly shorter than the large axle and should be centered lengthwise.

Select the rear arms. The clamp ring is to the outside with the long portion of the arm pointing forward. Remove the bearing clamp ring, adaptor ring, and half-moon shaped locking rings. Slide the rear arm over the bearing hub on the roller axle stub. Slide the adaptor ring over the hub, making sure that the lug on the outside of the bearing housing fits into the groove in the adaptor ring. Insert the two half-moon shaped locking rings into the grooves in the bearing housing and replace the clamp ring. Use as many shims as necessary between the clamp ring and arm so that bearing housing is free to pivot.

Mount end brackets to front roller in same manner.

Attach rear arms to end brackets. Use bolts which were used for holding arms together for shipping. The rear arm is attached to the front hole of the end bracket. See figure 4. Place the large 3/4" flat washer next to the head of the bolt, slip bolt through rear arm and end bracket. Install a small 3/4" flat washer and slotted nut. Tighten nut until snug, back off 1/2 turn and secure with cotter pin.

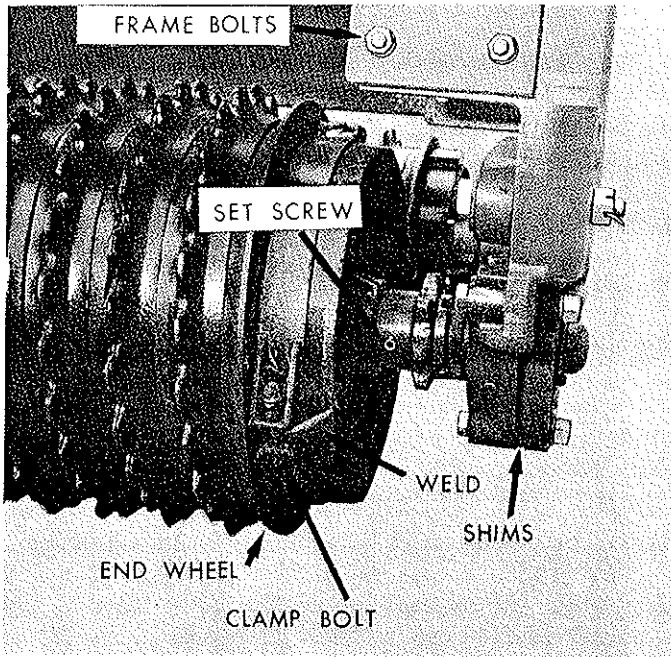


Figure 1

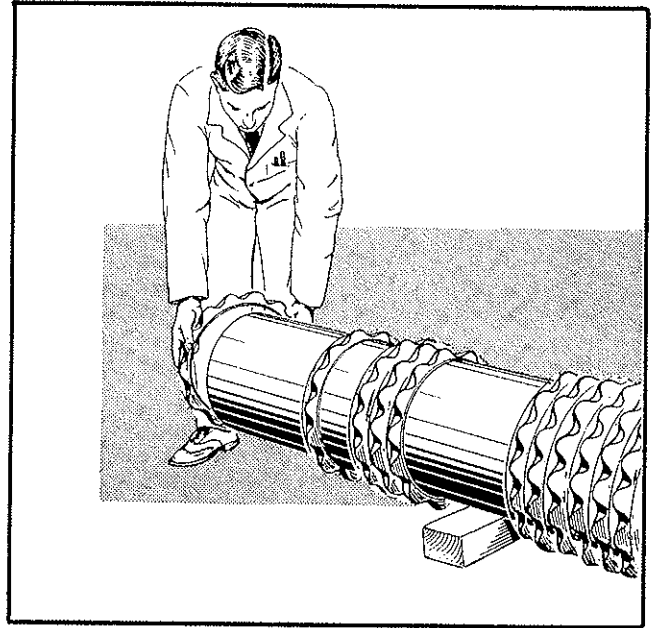


Fig. 2 Assembling Wheels on Axes

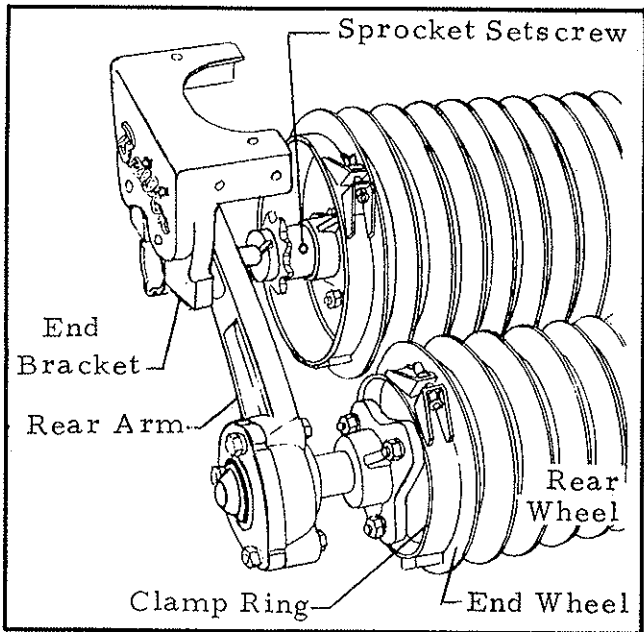


Figure 3

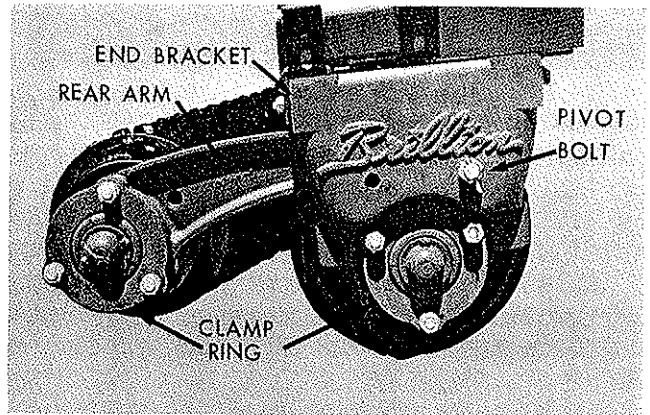


Figure 4

D. Frame Assembly SSPT Pickup Seeder See Figures 6 and 7

On this model seeder, the frame is a welded unit. For assembly, it is necessary to lift the frame and set it on the end brackets.



Wedge a wooden block between the end bracket and rear arm to prevent end brackets from tipping.

Bolt the end brackets to the two angles welded beneath the frame tube in front. The rear angle bolts to the end brackets on side and top.

E. Frame Assembly SST Pull Seeder See Figures 8 and 9

Bolt frame angles (3 x 3 x 5/16 x 160-3/4) to end brackets. NOTE: Rear frame angle has six more holes than front frame angle. Bolt only through sides of end brackets, not the top, at this time.

Select one of the side braces (refer to figure 8) and attach it to the frame. Install bolts through the frame angles and end brackets and the small angle clips welded to the sides of the brace. Be sure the cylinder anchor end is forward and towards the middle of the machine.

Install the rear drawbar tube. Line up the holes in the rear of the rear drawbar with the holes in the center of the frame angles. Install three 1/2 x 4 bolts in these holes, leaving the left rear hole empty. Be sure that the angle welded to the rear drawbar is on the top.

Bolt the front drawbar to the rear drawbar, using 1/2 x 1-3/4 bolts. Bolt the drawbar braces between the front drawbar and the outer frame braces. Use 1/2 x 1-3/4 bolts. Attach a 9D-810 brace strap (3/8 x 1-1/2 x 28-1/4) between the bottom of the cylinder anchor and the end bracket. Use a 1/2 x 2 bolt in the end bracket.

Make sure all frame parts are in place and properly lined up. Tighten all bolts.

Attach hitch clevis to front drawbar with a 3/4 x 6 bolt and locknut. Install a square spacer on either side of the clevis.

Mount the drawbar jack on the front drawbar. A swivel plate is welded to the drawbar tube. Position the jack on the swivel plate and install the snap ring in the groove.

F. Seedbox Installation

Bolt the center mounting plate to the center of the SSPT frame. Use a 1/2 x 4-1/2 bolt in the rear hole and a 1/2 x 4 in the front hole. See figures 8, 10 and 11. On the SST frame, install 5/16 spacer under the center plate and use two 1/2 x 4-1/2 bolts. Identify the seedboxes for right and left. The right hand seedbox has the 5/8 square agitator shaft sticking out to the right when the seed cups are to the rear.

Next step is to bolt the end plate to the outer end of the seedbox. To do so requires removing the 5/16 x 1-1/2 capscrews holding the cast bearing on the inside of the seedbox. The proper end plate has the angle extending forward, and the bottom leg of the angle is turned towards the center of the machine. Line the four holes near the top of the plate up with the four holes about half-way up the end of the seedbox. Place flat washers on 3/8 x 1 bolts and install them from inside the seedbox out through the end plate. Also reinstall the 5/16 x 1-1/2 bolts through the cast bearing. Secure loosely with nuts and lock-washers.

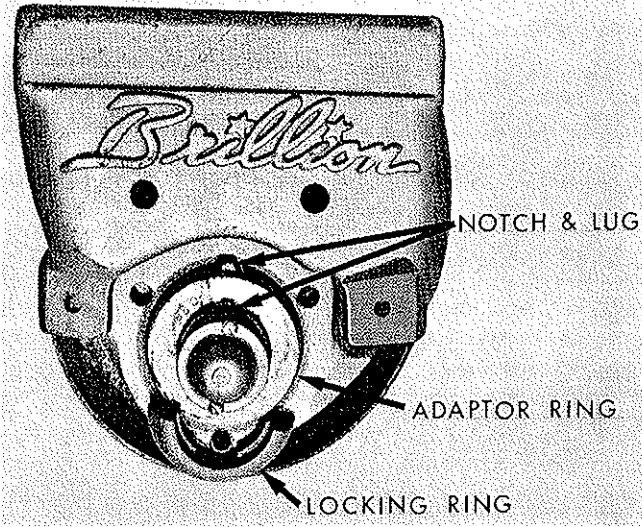


Figure 5



Figure 6

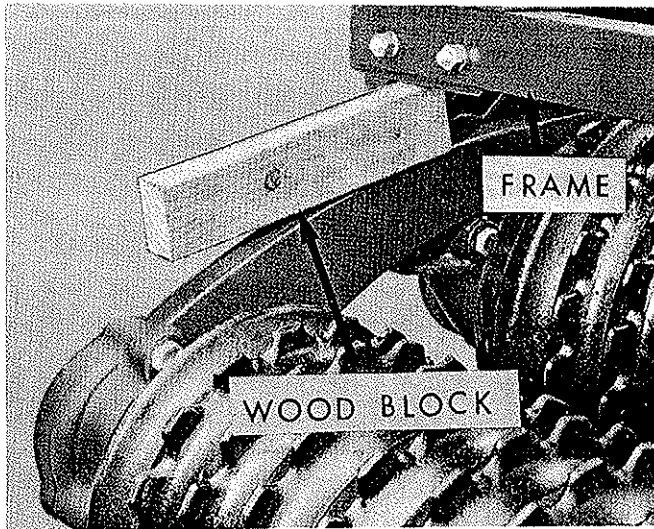


Figure 7

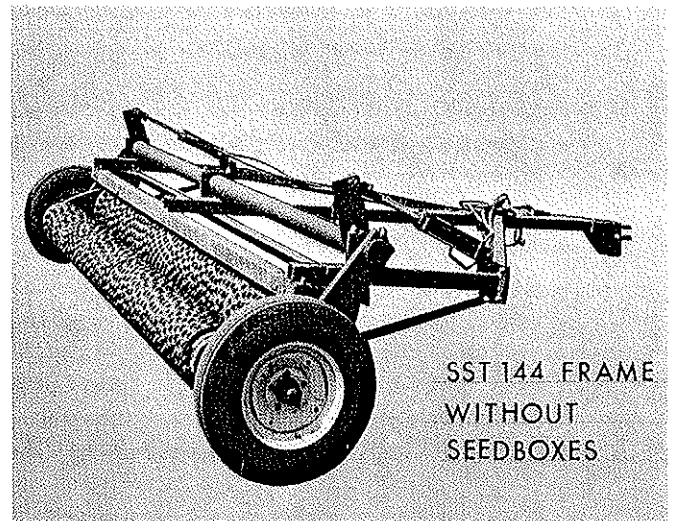


Figure 9

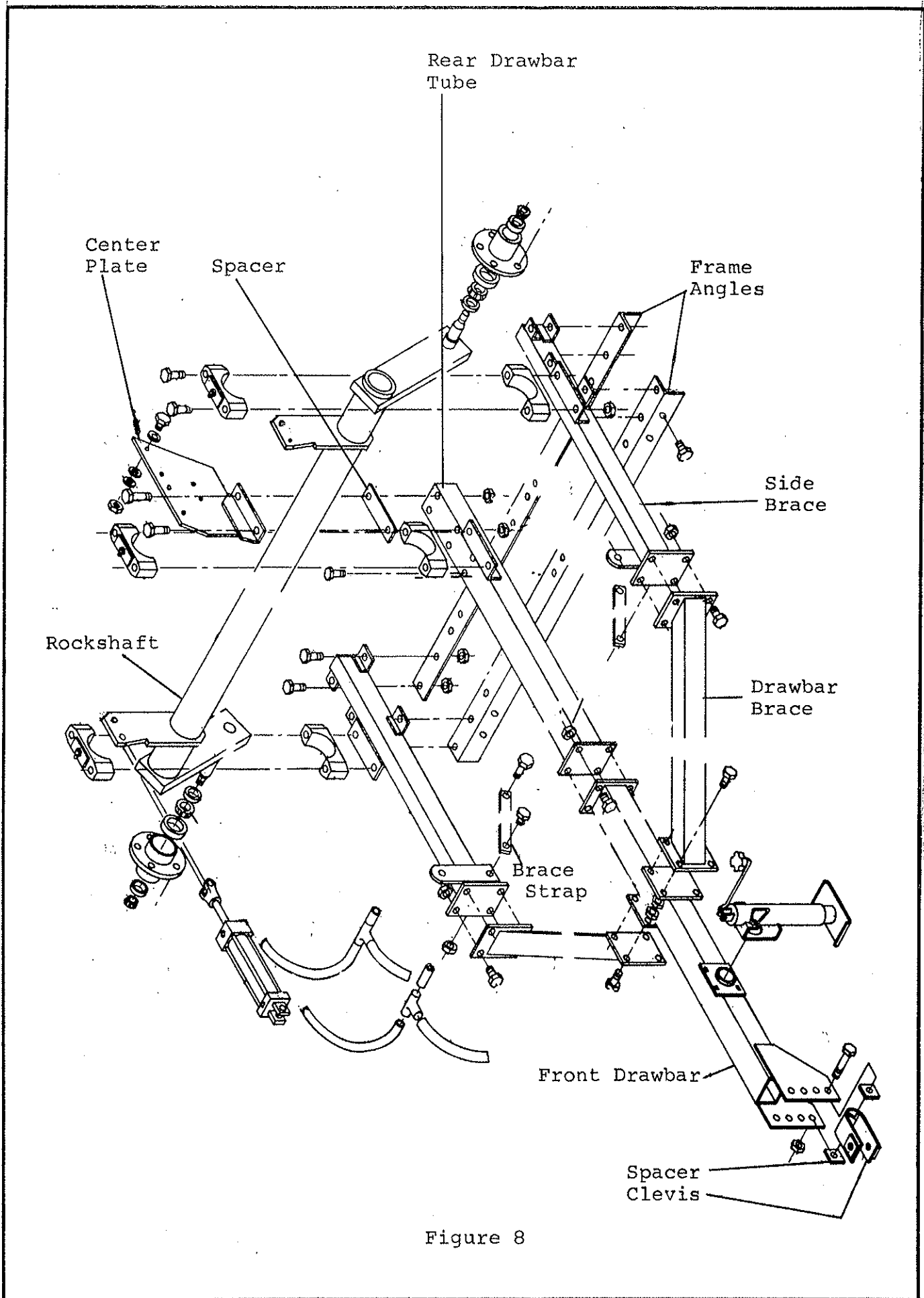


Figure 8

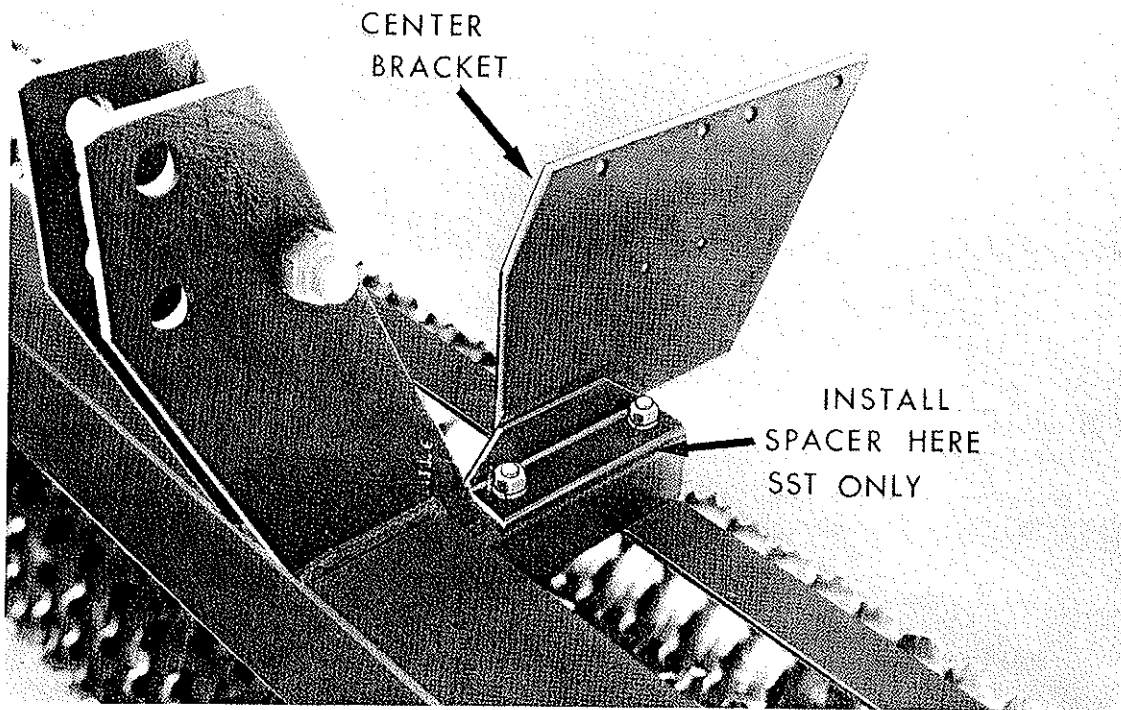


Figure 10

"A" are 3/8 x 1 bolts with flat washers through seedboxes and end plate

"B" are 5/16 x 1-1/2 bolts through cast bearing

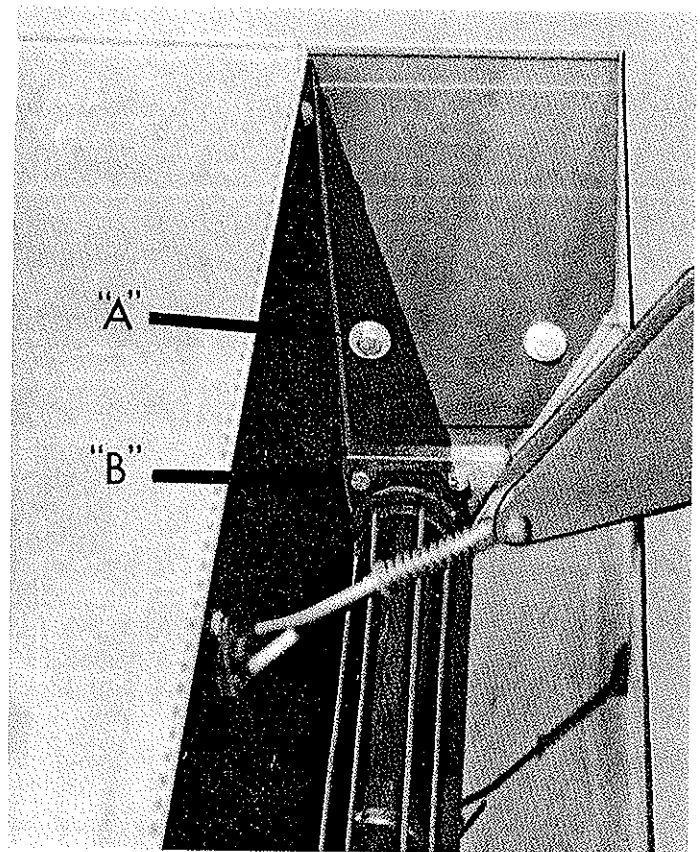


Figure 11

Remove the 5/16 x 2-1/4 bolt holding the cast bearing on the opposite end of the seedbox. Place a 2C-808 bushing over the square shaft and into the recess on the end of the box towards the center of the machine. Place seedbox on frame. Line up holes in angle welded to bottom of end plate with holes in frame angles. Install 1/2 x 1-1/2 bolts through frame angles and end plate angle. Support the seedbox on a block of wood near the center of the machine.

Install the other seedbox using the same procedure. Slide the 5/16 x 2-1/4 bolts through the end bearing casting in both boxes and secure with nuts and lockwashers. Align the four holes near the top of the seedboxes and center plate. Install 3/8 x 1-1/2 bolts, using flat washer under the head and under the lockwasher.

Sight along the top of the seedboxes and shift the seedboxes on the mounting bolts to align seedboxes front to back and vertically. Tighten the bolts when alignment is established.

G. Shift Handle Installation See Figures 12 and 13.

The shift handle used on a front box has a double bend and has a pin welded into a hole on the bottom end. Engage this pin in the slotted hole in the slide under the front box. Then attach the handle to the shift plate using 1/2 x 3/4 bolt and flat washers. Do not overtighten this bolt. The shift lever must be free to pivot on this bolt. After adjusting free play, tighten set screw on lower left side of shift plate. The hole in the top of the shift handle fits over the bolt protruding from the slot at the top of the shift plate. Secure with a wing nut and flat washer.

The shift handle used on a rear box has only one bend and two holes. The hole on the bottom should engage the peg on the shift spool casting under the front box. The upper hole fits over the bolt protruding from the shift plate. Attach the handle to the shift plate with a 3/8 x 3/4 round head bolt and flat washer. Do not overtighten this bolt. Handle must be free to move. Tighten set screw in bottom of casting and secure top of handle with wing nut and flat washer.

H. Installing Drive Sprockets and Chain

Install one of the 3/4 ball bearings with flange stampings in the front hole at the box end plate. The bearing and flange are on the side towards the center of the machine, with the locking collar side of the bearing also towards the center of the machine. Bolt loosely with 5/16 x 3/4 bolts. See figure 12.

Select one of the 3/4 dia. shafts, 9-1/8 long. Slide a 12 tooth cast sprocket onto this shaft. Be sure the hub is pointing away from the 3/16 hole in the end of the shaft. Line up the hole in the sprocket hub with the center hole in the shaft. Insert a 1/4 x 2 roll pin. Slide on a 13 tooth sprocket with its hub toward the sprocket already on the shaft. Align hole in hub with hole in shaft and insert 1/4 x 1-1/2 roll pin. Starting with end of shaft with small hole, slide shaft through bearing installed on front of box plate. Repeat for the opposite end of machine. See figure 14.

Select one of the drive tubes that has a collar welded on one end. Slide a 3/4 ball bearing onto the tube. Be sure that the bearing locking collar is on the side away from the collar. Slide on a flange stamping and a 23 tooth sprocket. The hub of the sprocket is towards the bearing. Fasten sprocket to tube with 1/4 x 1-1/2 roll pin. Place a flange stamping over the collar end of the tube. Slide square hole in collar over the end of the 3/8 square seed-meter shaft. Attach bearing flanges to box end plate with 5/16 x 3/4 bolts.

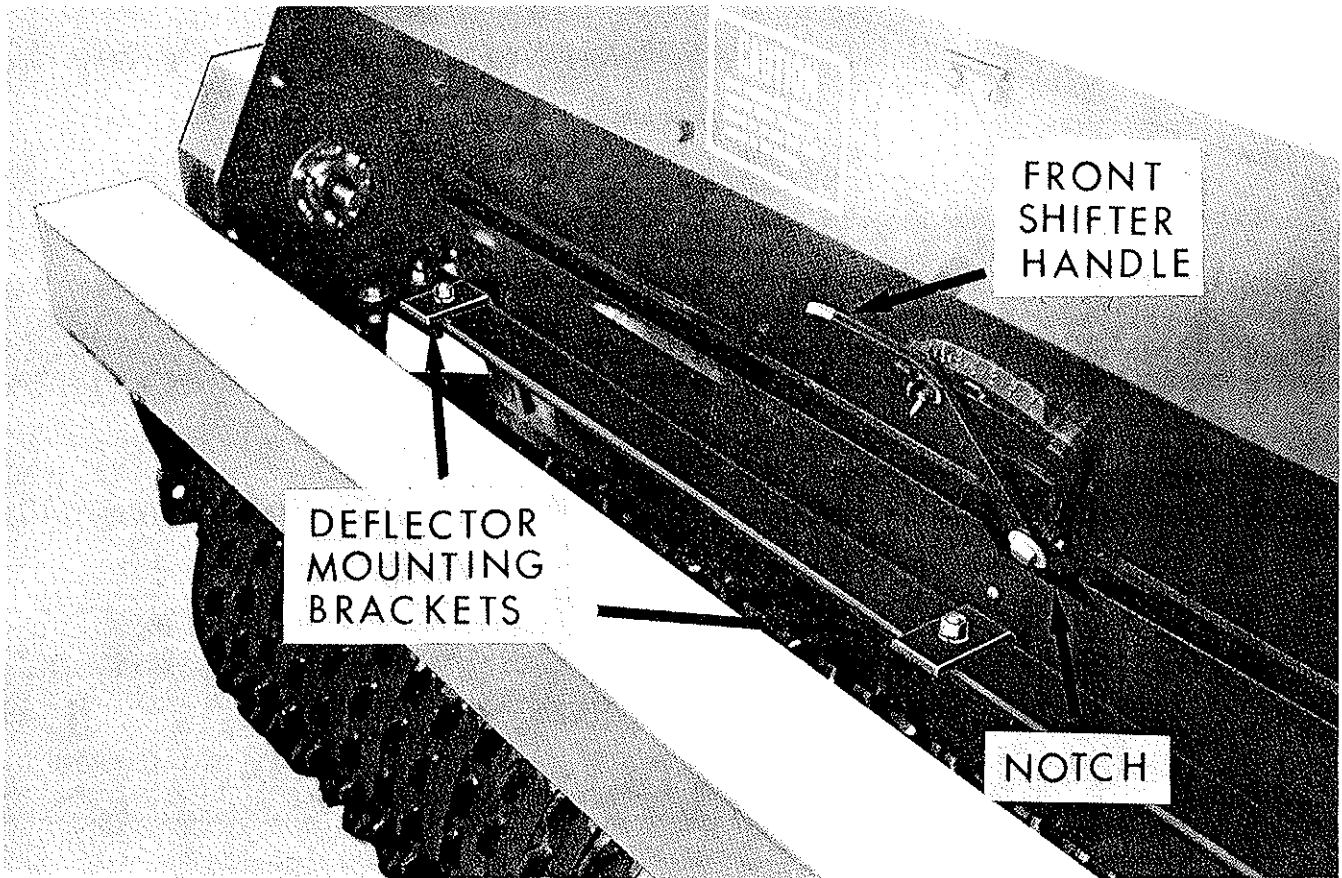


Figure 12

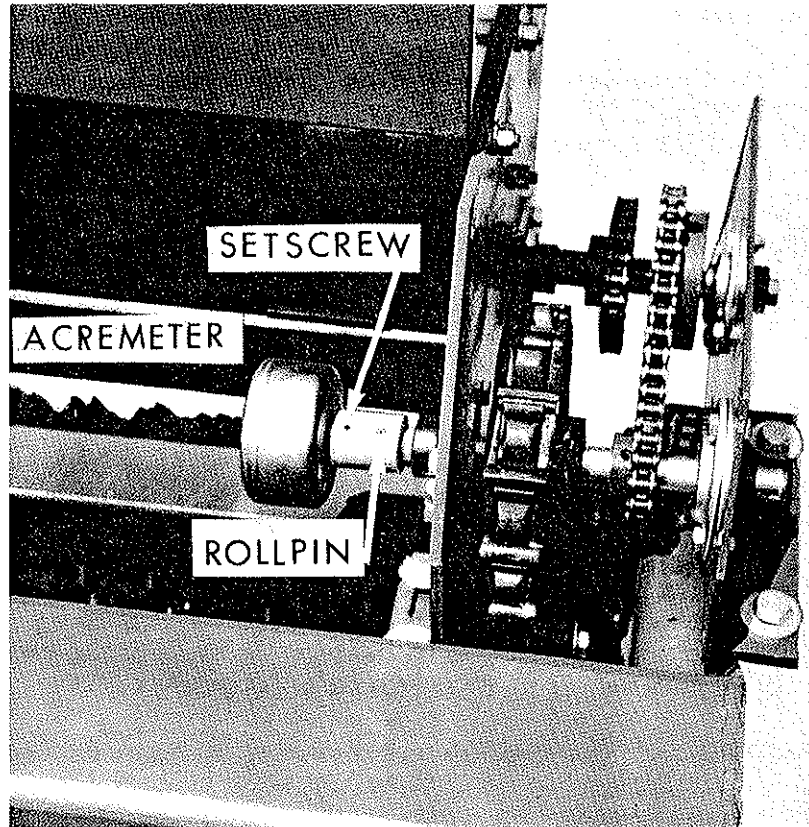


Figure 14

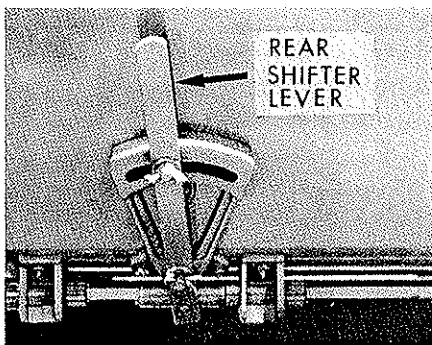


Figure 13

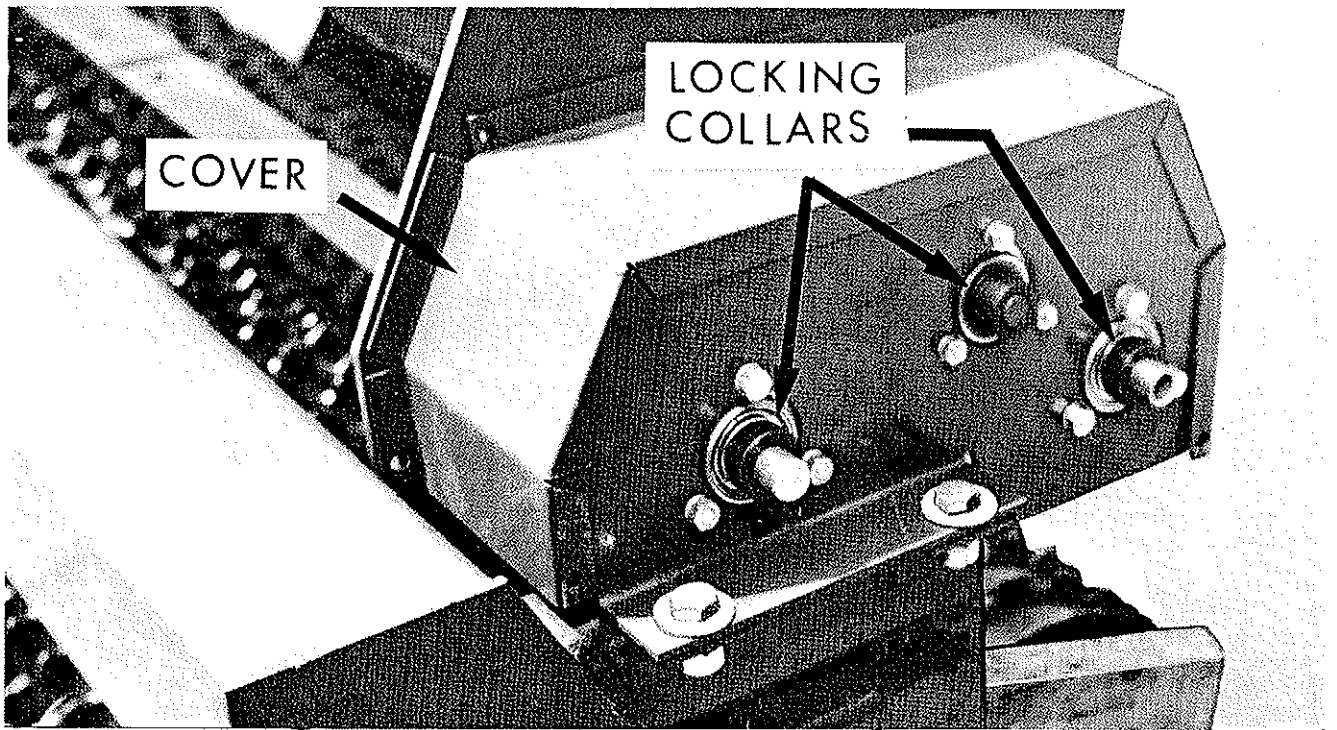


Figure 15

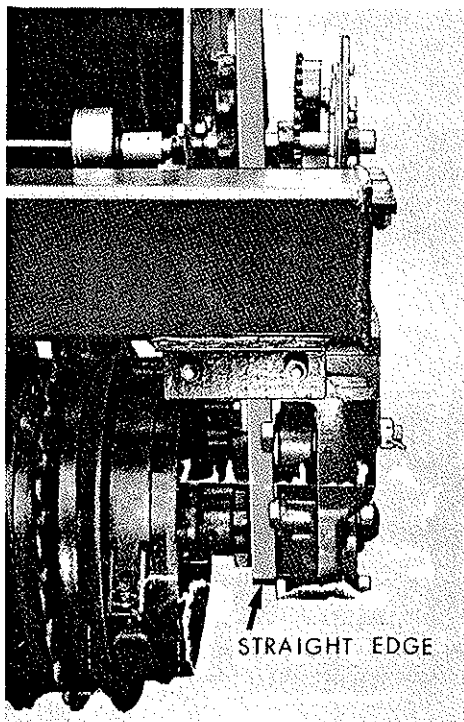


Figure 16

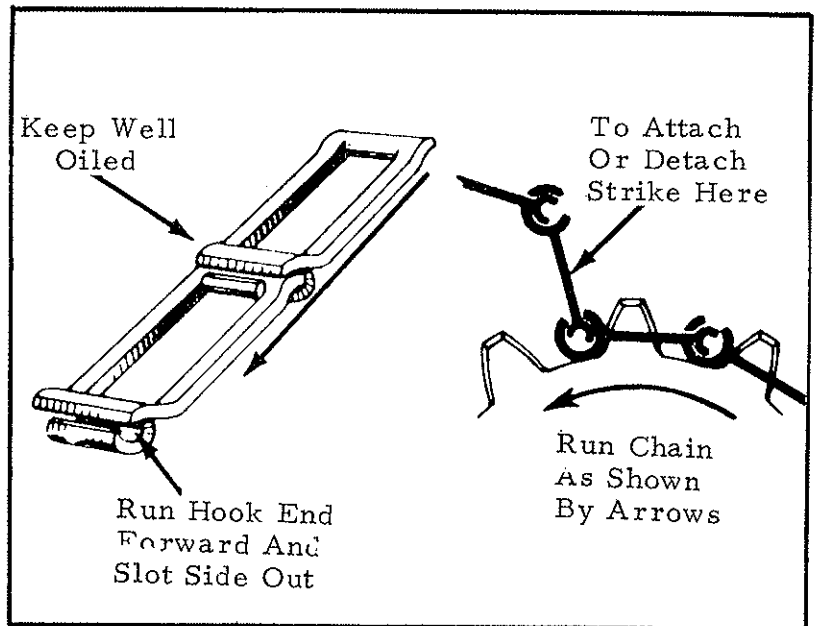


Figure 17

Slide a 14 tooth sprocket, hub first, on the 5/8 square agitator shaft and a 25 tooth sprocket with hub out. Start set screw in holes in these sprockets but do not tighten.

Install remainder of ball bearings and flangettes on outside plate. Bearings and flangettes are installed on side opposite flange in plate. Locking collar end of bearing sticks through plate. The 5/8 bearing goes in the middle hole and is secured with 1/4 x 3/4 bolts. The other bearings are 3/4 and are secured by 5/16 x 3/4 bolts. Do Not Tighten. See figure 15.

Taking the plate and bearing assembly, slide the bearings over the shafts. The flange on the plate is towards the front of the machine and to the outside. Bolt the plate to the angle lugs on the frame. Use flat washers over the slots and 1/2 x 1-1/4 bolts. Snug the nuts finger tight.

Set the shield over the top of the side plate and against the box plate. Position the side plate in or out until the shield will fit correctly. Remove shield. Now check shaft alignment. Loosen bolts holding seedbox to end plate and shift box until shafts are parallel to frame. Tighten bolts holding seedboxes to end plate and plates to frame.

Use a straight edge to align the 12 tooth cast sprocket with the 7 tooth sprocket on the front roller. See figure 16. When these sprockets are aligned, install the locking collars on the bearings on this shaft. Lock collars by turning in direction of rotation of shaft.

Next align the 25 tooth sprocket on the square shaft with the 13 tooth sprocket on the first shaft. Tighten set screw holding 25 tooth sprocket.

Using the shift handles on the rear boxes, slide the seedmeter rolls to the outside as far as possible. Adjust the tubular shaft at the rear at the drive mechanism until 1/4 gap between collar on end of shaft and roll pin in square shaft is reached. Tighten lock collars on tubular shaft. Align 14 tooth sprocket on square shaft with 23 tooth sprocket on tubular shaft and tighten set screws.

To install the CA-550 drive chain from the 7 tooth sprockets on the front roller to the 12 tooth cast sprockets of the front shaft. When assembling the chain turn it so that the cotter pin side of the connector link is toward the outside of the machine. After assembling the chain attach the idler sprocket. Place a 1" diameter x 2-5/16 long bushing in the bore of the 5 tooth idler sprocket. With a flat washer under the head of a 1/2 x 3-1/2 bolt, bolt the idler to the idler angle. See figure 14. The wider spaced holes in the angle match the spacing of the slots in the angle welded to the box end plate. The idler should be on the backside of the chain. Bolt the idler angle in place with 1/2 x 1-1/4 bolts, using flat washers to cover the slots in the angle. Slide the tightener forward to take most of the slack out of the chain. Tighten the bolts. On older model machines equipped with #55 steel detachable chain see figure 17 for the correct procedure for install the chain.

Install the #40 roller chain with 42 pitches over the 13 tooth sprocket on the front shaft and the 25 tooth sprocket on the square shaft. The #40 roller chain with 35 pitches is installed on the 14 tooth sprocket on the square shaft and the 23 tooth sprocket on the rear shaft.

Now tighten the bolts holding the bearing flangettes to the plates. Set the shield over the drive and secure with 1/4 x 3/4 hex head bolts.

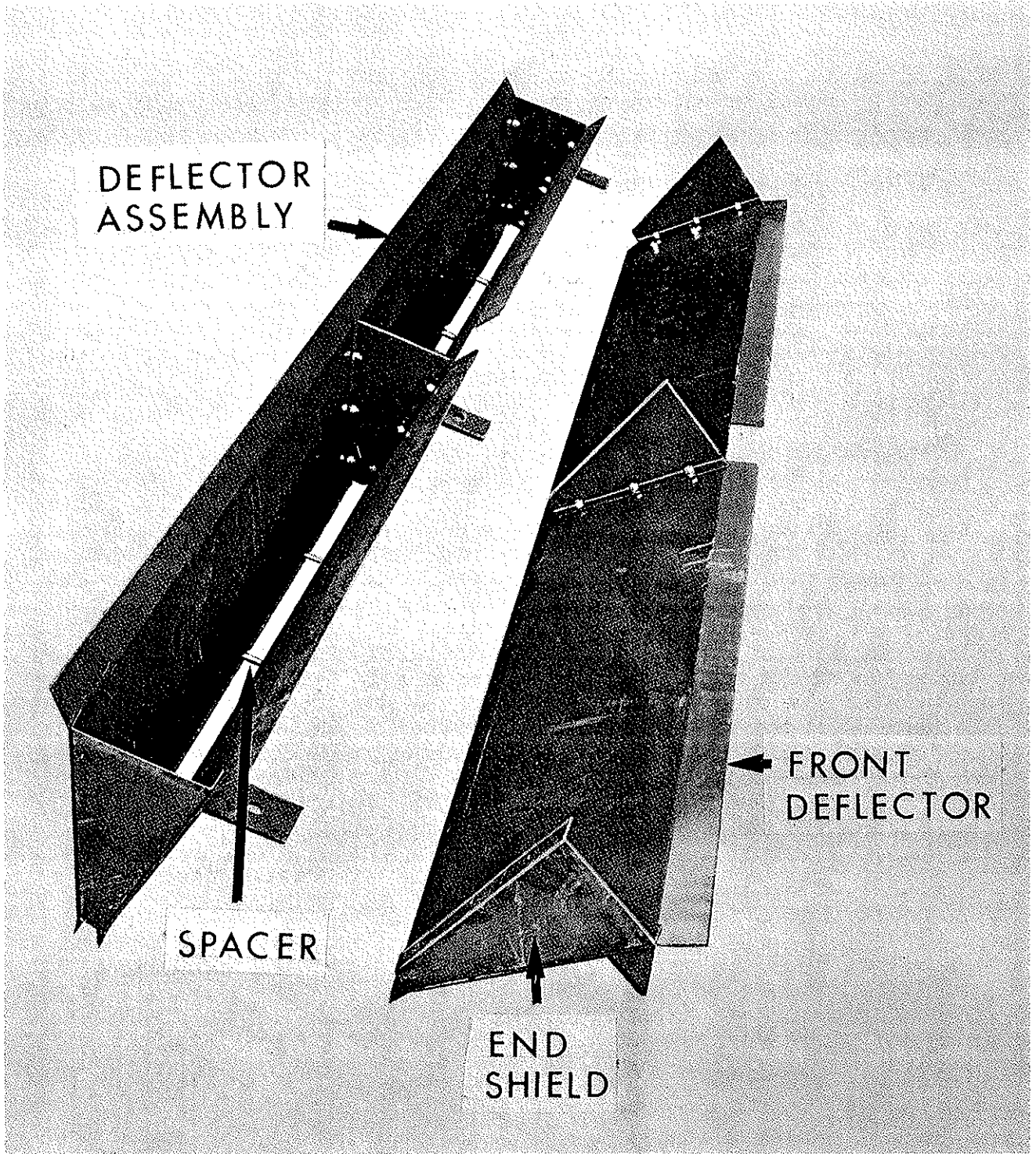


Figure 18

I. Installing the Deflectors See figures 12 and 18

The front deflector is the one with the notch on the top edge. Bolt end shields to the end holes of the front deflector. Bolt another end shield to the top center hole at the front deflector. Bolt the deflector mounting straps to the front deflector. The center strap is bolted to the same holes as the center shield. Use 1/4 x 3/4 hex head screws. Bolt the rear deflector to the end shields with 1/4 x 3/4 hex head screws. Using the tube spacers and 1/4 x 1-1/2 hex head screws, bolt the bottom of the deflectors together. Install the deflector assembly by sliding the deflectors up from the back of the machine. The mounting straps set on top of the rear frame angle and are bolted on with 1/2 x 1-1/4 bolts.

J. Installing the Transport Axle (SST Only) See figure 8

Take the three bottom bearings (the ones without grease fittings) and set them on the angles welded to the rear drawbar and side braces. Drop the 5/8 x 6-1/2 bolts into the holes to keep the bearings from moving. Set the transport axle in place on these bearings. Be sure that the wheel arms are back and the notch in the cylinder arm is forward. Remove the 5/8 x 6-1/2 bolts, install the top half of the bearing and reinstall the bolts. Be sure to use locknuts on these 5/8 x 6-1/2 bolts. Recommended size of the two tires are 7.60 x 15 6 ply tires inflated to 36 psi.

K. Installing the Hydraulic Cylinders (SST Only) See figures 8 and 19

Mount the base end of the hydraulic cylinders with ports up to the cylinder anchor lugs with pins and hairpin cotters provided. Attach the rod end clevises to the cylinder arms with 1" x 4" pins and roll pins. Place the cylinder lockout plates outside the rod end clevises to fit over the cylinder rods. Store the cylinder lockouts by rotating until the holes align in the lift arm. Use 1/2" x 4" clevis pins with hairpin cotters to hold in position. 1" flat washers can be used between cylinder lockout and rod end clevis to center cylinder lockout for easy fitting over cylinder rod. Screw one end of a short hose into the side outlet of the tee. Screw the straight end of the long hoses into the ends of the tee. Be sure to use thread sealer on the threads of the hose fittings. Screw the swivel fitting on the opposite end of the long hoses into the cylinder parts. **CAUTION - BE SURE THAT BOTH HOSES FROM A TEE ARE SCREWED INTO THE SAME PARTS ON THE CYLINDERS.** Pull the hoses against the drawbar braces and tie in place with the cable ties furnished.

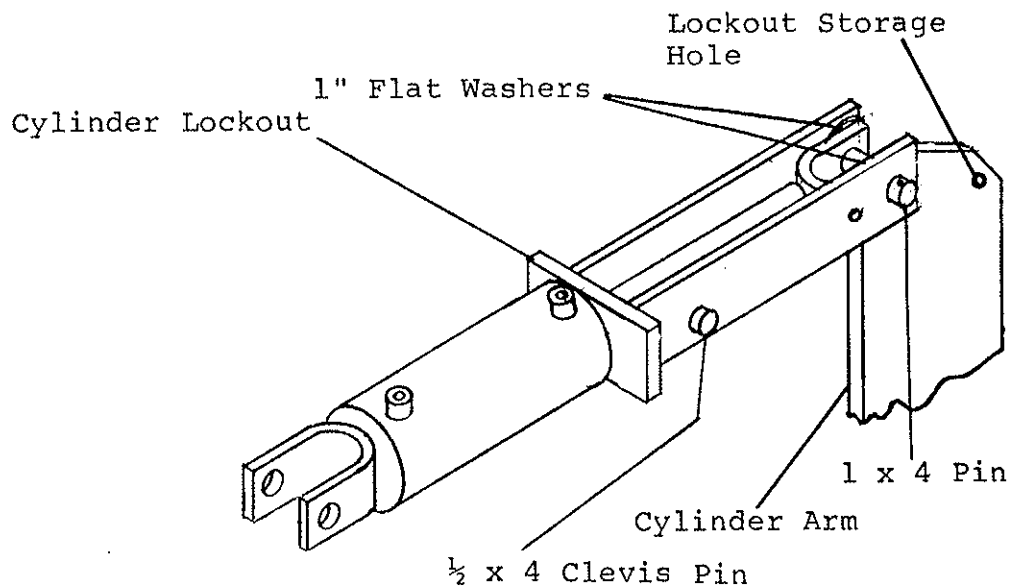


Figure 19
Page 16

SPECIFICATIONS

<u>SST-144</u>		<u>SSPT-144</u>
Pull Type	Style	3 pt. Hitch Mounted
12 ft.	Working Width	12 ft.
15 ft. 4 in.	Overall Width	13 ft. 3 in.
12 ft.	Overall Length	3 ft.
3700 lbs.	Approximate Weight	2700 lbs.
	Seed Box Capacities	
5-1/4 bu.	Small Seeds	5-1/4 bu.
5-1/4 bu.	Chaffy Seeds	5-1/4 bu.
18	Seedmeters	18
36	Seeding Slots	36
16 Ga. Steel	Seedbox Construction	16 Ga. Steel
Tapered Roller and Ball	Bearings	Tapered Roller and Ball
#40 Chain	Transmission	#40 Chain
#55 Chain	Drive before 5-1-76	#55 Chain
CA-550 Roller Chain	Drive after 5-1-76	CA-550 Roller Chain
Ductile	End Brackets	Ductile
Ductile	Rear Arms	Ductile
Drawbar	Hitch	Category II
4 x 3 Tube	Frame	5 in. Square Tube
4 in. O.D.	Transport Axle	None
15 in. 5 Bolt for 7.60 x 15, 6 ply tires (not furnished)	Wheels	None
Two 2-1/2 x 8 Furnished	Cylinders	None

SEED RATE GUIDE FOR BRILLION 12 FT. GRASS SEEDER

The seed chart is provided to act as a guide. Inasmuch as different seeds vary somewhat in size and cleanliness, their seeding rate is naturally affected. So, for the best results, check your acreage and pounds of seed used with each variety seeded. Rates listed are in pounds per acre.

FRONT BOX

Setting On Seed Index	1	2	3	4	5	6
Blue Grass (Sherman Big) ---	2-1/2	13-3/4	40-1/4			
Brome (Erect Meadow)-----		2-1/2	6-1/2	14-1/2	26-1/2	38-1/2
Brome (Northern)-----		1-3/4	4-1/4	8-1/2	15-1/2	19-1/4
Brome (Southern)-----		1-1/4	3	7-3/4	12	13-3/4
Buffalo Grass -----	2-1/2	20-1/2	54	137		
Dalia Grass -----	2-1/2	11-1/2	31-3/4			
Dallis Grass -----	2-1/2	12	30-1/2	65		
Fescue (Alta) -----	1-3/4	9	28-3/4	87-1/2	150	
Fescue (Kentucky-31) -----	1-3/4	9	28-3/4	87-1/2	150	
Fescue (Meadow) -----	1-3/4	9	28-3/4	87-1/2	150	
Gramma (Side Oats) -----		1-3/4	4-1/4	8-1/2	12-1/2	14-1/2
Johnson Grass -----		1/2	1-1/4	2-1/2	4-1/4	8-1/2
Orchard Grass -----	1-1/4	6	19-1/4	45-1/2		
Rescue Grass -----		1-3/4	4-3/4	9-1/2	17-1/2	22-1/4
Rye Grass -----	1-1/4	9	30	73		

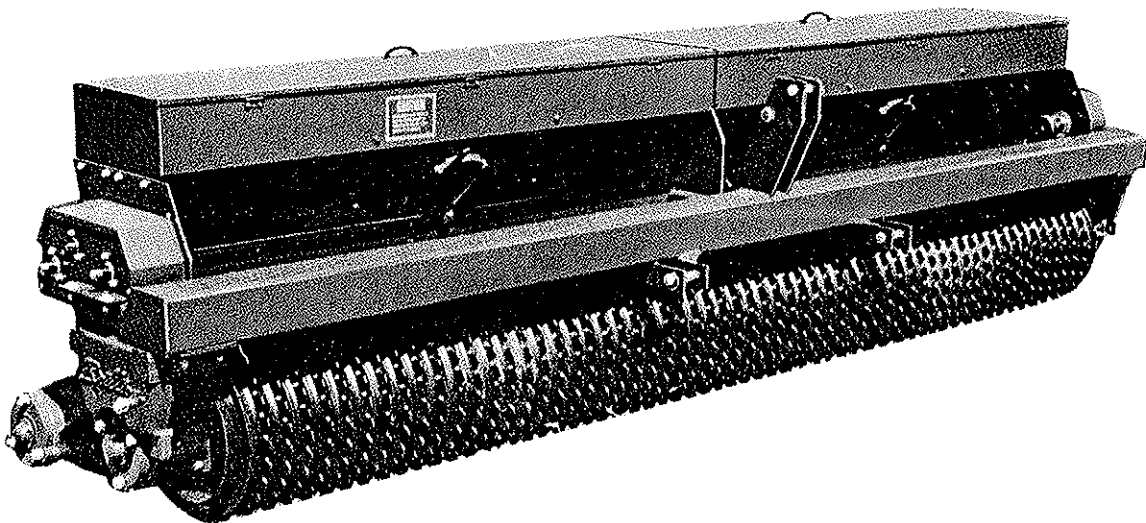
REAR BOX

Indicator Setting	1	2	3	4	5	6	7	8
Alfalfa (Mont.) -----	1-3/4	4-1/2	7-1/2	10-1/2	13-3/4	16-3/4	20	23-3/4
Alfalfa (Wash.) -----	2-1/2	5-1/2	9-1/2	13	17-1/2	21-1/4	25-1/2	32
Bahia (Common)-----	1-1/4	3	4-1/2	6-1/4	8	10	12-1/2	15
Bahia (Pensacola) -----	1-1/4	3	5	6-3/4	8-3/4	10-1/2	12-1/2	16-1/4
Bermuda (Hulled) -----	1-3/4	3-3/4	5-1/2	7-1/2	10	11-1/4	13-1/4	15-1/2
Birdsfoot Trefoil (Broadleaf) -	2-1/2	5-1/2	8-3/4	11-3/4	15-1/2	20	23	27-1/2
Blue Grass (Canada) -----	1-1/4	1-3/4	2-1/2	3	4	5	5-1/2	6-3/4
Blue Grass (Kentucky) -----	1-1/4	1-3/4	2-1/2	3	4	5	5-1/2	6-3/4
Blue Grass (Merion) -----	1/2	1	1-3/4	2-1/2	3	3-3/4	4-1/4	5
Blue Grass (Sherman Big) ----		1-1/4	1-3/4	3	3-3/4	4-1/2	5	5-1/2
Centipede -----	2-1/2	5	7	9-1/2	12-1/2	14-1/2	16-3/4	18-3/4
Clover (Alsike) -----	2-1/2	4-1/2	7-1/2	10-1/2	13-1/4	16-1/4	20	23-3/4
Clover (Alyce) -----	1-3/4	5	8-3/4	13-1/4	17-1/2	21-3/4	26-1/4	31-1/4
Clover (Calif. Bur.) -----	2-1/2	5-1/2	8-3/4	12-1/2	17-1/2	21-1/4	25	31-1/4
Clover (Crimson)-----	1-3/4	5-1/2	8-3/4	13-1/4	17-1/2	21-3/4	26-1/4	33
Clover (Hubam) -----	2-1/2	5	8-3/4	12-1/2	16-1/4	20	23-3/4	28-3/4
Clover (Ladino) -----	2-1/2	4-1/2	7-1/2	10-1/2	13-1/4	16-1/4	20	23-3/4
Clover (Sweet) -----	2-1/2	5	8	11-1/4	15	18	21-1/4	26-1/4
Clover (Tenn. Button)-----	2-1/2	5	8-3/4	12-1/2	16-1/4	20	23-3/4	28
Clover (Wis. Red) -----	2-1/2	5	8	11-1/4	15	18	21-3/4	26-1/4
Flax -----		3-3/4	6-1/4	8-3/4	11-1/4	13-3/4	16-1/4	18-3/4
Crested Wheat -----	3/4	1-3/4	2-1/2	3	4-1/2	5	5-1/2	6-3/4
Harding Grass -----	1-3/4	3-3/4	5-1/2	8-3/4				
Klein Grass -----	2	4	5-3/4	9				
Lespedeza (Korean Unhulled)--	1-1/4	3-3/4	5-1/2	8	10-1/2	13-1/4	16-1/4	20-1/2
Lespedeza (Korean Hulled) ---	1-3/4	5	8-3/4	12-1/2	16-1/4	20	25	30
Lespedeza (Sericea Unhulled) -	1-1/4	2-1/2	3-3/4	5-1/2	8	10	12-1/2	15
Lespedeza (Sericea Hulled) ---	2-1/2	5-1/2	8-3/4	13-1/4	17-1/2	22-1/2	27-1/2	33
Millet -----	1-3/4	4-1/2	7-1/2	10-1/2	13-3/4	16-3/4	20	24-1/4
Red Top -----	1-1/4	3	4-1/2	5-1/2	6-3/4	8	9-1/2	11-1/4
Reed Canary Grass -----	1-1/4	1-3/4	3	5	6-1/4	7-1/2	8-3/4	10
Timothy -----	1-3/4	3-3/4	5-1/2	8	10	12-1/2	15	17-1/2
Love Grass --	Consult factory for information on rates and seeding pattern.							

TO CALIBRATE SST-144 SEEDERS
FOR ANY SEED MIXTURE

To calibrate the seeder for any seed mixture one of the two following methods are recommended.

1. Place a canvas or tarp on top of the deflectors to catch the seed and pull the seeder a distance of 363 feet. This will have covered one tenth of an acre. Weigh the seed and multiply by 10 to get seed rate per acre. If the seed is caught from only one side of the seeder multiply by 20 to get the rate in lbs. /acre.
2. Remove one of the end shields from the drive mechanism. Raise the seeder up on the rubber transport wheels and spread a tarp under it to catch the seed. Turn the $5/8$ sq. shaft 273 turns. Weigh the seed and this will give you the rate in lbs. /acre.



SSPT-144