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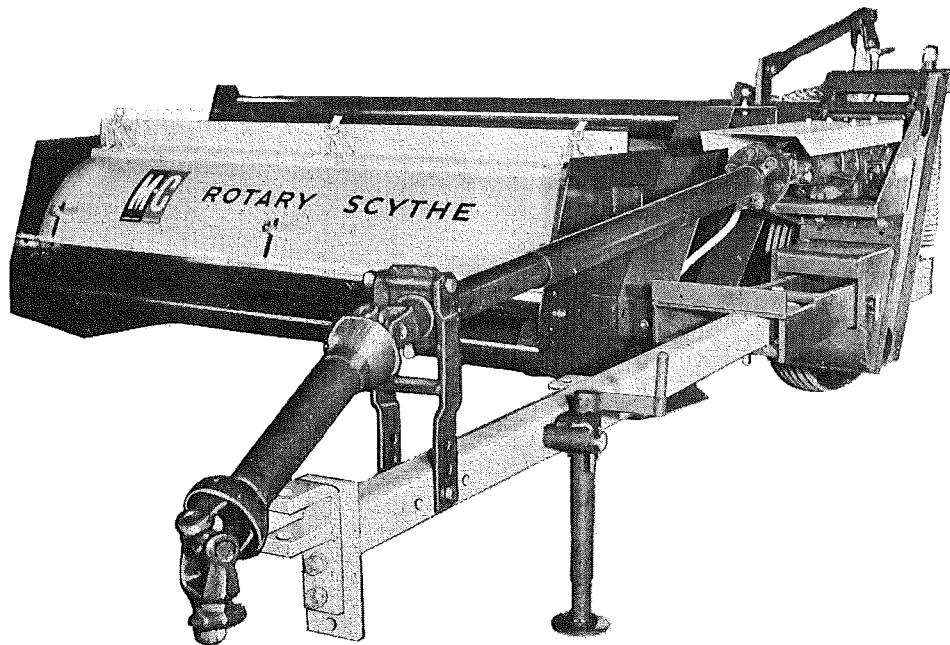
ASSEMBLY-OPERATION AND MAINTENANCE INSTRUCTIONS

ROTARY SCYTHE

MODEL 6A

MODEL 7A

MODEL 10A



Manufactured Under Patents Nos. 2999346 and 3035393, Other Patents Pending.

MATHEWS COMPANY • CRYSTAL LAKE, ILLINOIS, 60014 • U. S. A.

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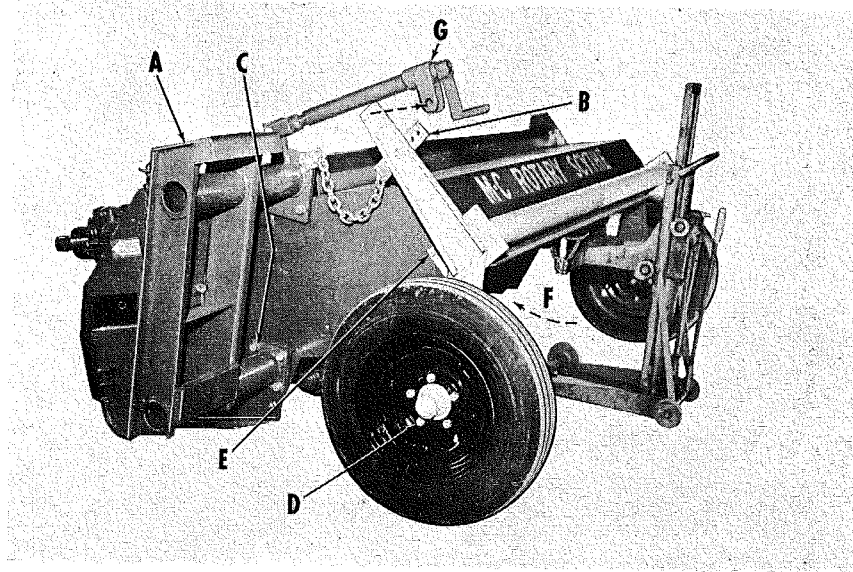


FIGURE 1.

Mount end frame assembly with gear box to left side of the Rotary Scythe — starting at the top, using two 5/8 x 1-3/4 lg. bolts in the two front holes of the top pad and one 5/8 x 2 lg. in the bottom rear hole (Fig. 1, letter A). Bolt the chain stop weldment through the rear top hole as shown, using a 5/8 x 2-1/2 lg. bolt. Using the center hole, bolt the other end of the chain stop to the rear ram mount arm with a 1/2 x 1-1/4 lg. bolt, (Fig. 1, letter B). The chain stop has five adjustment holes to suit different cutting heights. Once you have established your cutting height setting, the chain stop enables you to quickly find the same setting again if you should have to raise your machine for rough and rocky areas, or for taking it out of the field. The four bolts for the bottom end frame pad are all 5/8 x 2-1/2 lg. (Fig. 1, letter C). Assemble wheels to the axle, (Fig. 1, letter D) then attach axle to the rear of the Scythe at the top two holes in the body (Fig. 1, letter E), using four 1/2 x 1-1/4 lg. bolts. Raise rear end of Scythe using a jack or hoist to allow wheels to swing underneath (Fig. 1, letter F). Attach mechanical ram to machine (Fig. 1, letter G).

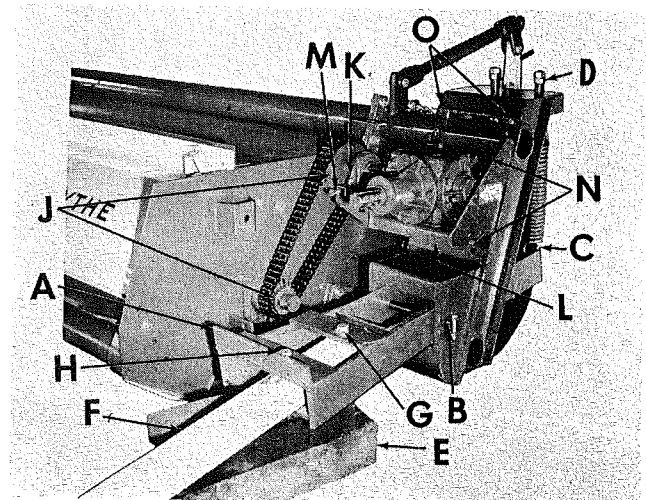


FIGURE 2.

Attach Floating Frame Weldment to Scythe with the Flange across front, facing up (Fig. 2, letter A). Insert Hinge Pin (1" dia. x 11-1/16 lg.) (Fig. 2, letter B). Lock hinge pin into place with a 3/8 x 2-1/4 lg. bolt through the tabs on each side of hinge pin hole. Hook one end of large 3" dia. spring into rear of Floating Frame (Fig. 2, letter C). Hook a large eye bolt onto other end of spring and insert threaded end of eye bolt through mounting plate. Slide spacer onto eye bolt for Models 6A and 7A, lock with two 3/4" nuts (Fig. 2, letter D). Assemble both springs. Model 10A does not use these spacers. Proper tension for these springs can be determined when operating Scythe (See Operating Instructions). Raise and block-up Floating Frame (Fig. 2, letter E), then slide pole into position (Fig. 2, letter F). Insert pivot bolt 3/4 x 5-1/2 lg., from top and install two nuts on under side (Fig. 2, letter G). Drop the pole positioning bolt, 3/4 x 5-1/2 lg. into place (Fig. 2, letter H) and install double nuts on this bolt also. Carefully align driver sprocket with rotor sprocket (Fig. 2, letter J), using a straight edge as a guide. Perfect alignment is very important since misalignment greatly reduces the life of the sprockets and chain. If it is necessary to loosen the outboard bearing (Fig. 2, letter K), to get perfect alignment, **BE SURE TO LOOSEN THE FOUR GEAR BOX MOUNTING BOLTS FIRST** (Fig. 2, letter L).

After aligning sprockets, lock the outboard bearing adjusting bolt (Fig. 2, letter M) and tighten down bearing (Fig. 2, letter K), **BEFORE TIGHTENING GEAR BOX BOLTS**. Make sure sprocket set screws are tightened. Assemble chain to sprockets. The lower strand of chain between the sprockets should have a little slack in it. If the ends of the chain cannot be brought together, it may be necessary to loosen the four gear box slide bolts (Fig. 2, letter N), and the two chain take-up bolts (Fig. 2, letter O) and lower the gear box and drive sprocket Assembly. When the chain has been joined and proper chain tightness established, lock chain take-up bolts and tighten gear box slide bolts.

ASSEMBLY INSTRUCTIONS

**RECHECK ALIGNMENT OF SPROCKETS.
NEVER TRY TO TAKE UP CHAIN SLACK
BY ADJUSTING OUTBOARD BEARING.
ALWAYS USE CHAIN TAKE-UP BOLTS
(Fig. 2 letter O).**

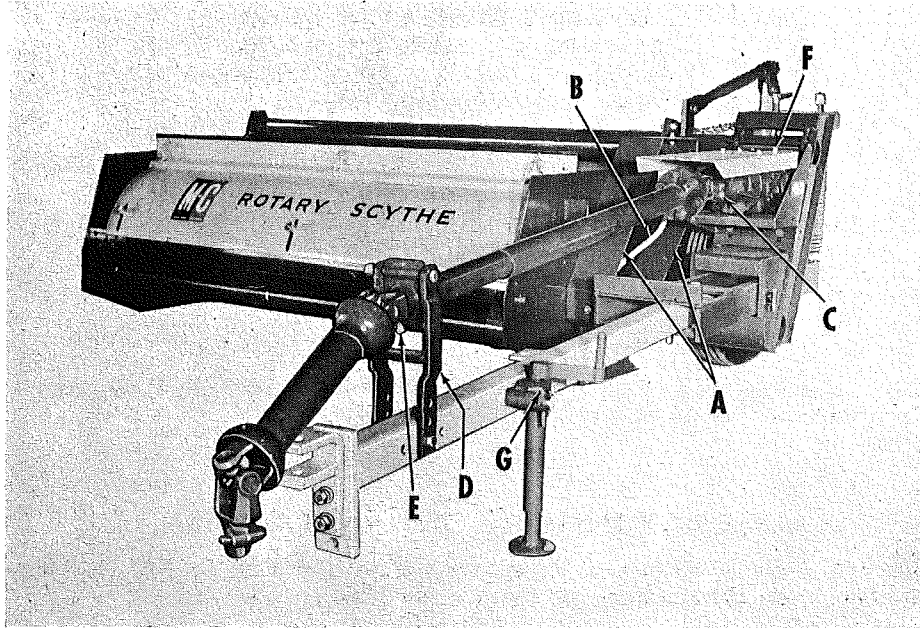


FIGURE 3.

Bolt upper and lower chain guards into position (Fig. 3, letter A), using $3/8 \times 1-1/4$ lg. bolts. The ends of the upper chain guard should overlap the lower chain guard where they bolt onto the brackets. Fasten Chain Oiler onto gear box mount with $3/8 \times 1-1/4$ lg. bolt (Fig. 3, letter B). Position the lower tip of oiler tube so that oil will drip between the double row of rotor sprocket teeth and as close to the sprocket hub as possible. The oil should hit the lower strand of chain approximately at its center and just as the chain is passing under and around the small rotor sprocket. Remove $5/8 \times 3$ lg. bolt (Fig. 3, letter C) from long power shaft and slide power shaft onto gear box input shaft. Lock power shaft into groove on input shaft by replacing and tightening the bolt and nut. Attach PTO "H" Yoke (Fig. 3, letter D), with $5/8 \times 6$ lg. bolt and double nut, allowing "H" yoke to move easily back and forth. Assemble tractor take-apart power shaft to splined end of long power shaft. Tighten set screw (Fig. 3, letter E) and wire the head to prevent loosening. Bolt Universal Joint Guard to top of gear box using four $3/8 \times 3/4$ lg. bolts with lock washers (Fig. 3, letter F). Mount Pole Jack onto pole and insert Jack Pin ("L" shaped pin, $3/8$ dia.). With jack in vertical position (Fig. 3, letter G), use a $3/16 \times 1-1/2$ lg. cotter pin in the end of the stub shaft. Crank jack down until it is supporting the weight of the Scythe. Now the blocks can be removed from under the floating frame.

Remove the wires holding the front cover to the retaining clips. You will notice there is an upper and lower row of holes across the Front Cover Retainer (Fig. 4, letter A). They are used in conjunction with the position of the Adjustable Roller Mount Panel (Fig. 4, letter B). This panel is bolted into the machine at the Second highest adjustment position. These top two positions suit most mowing operations. When the Roller Mount Panel is being used in either of the top two side plate adjustment positions (Fig. 4, letter C), the Front Cover Retainer should be bolted in the lower row of holes (Fig. 4, letter D).

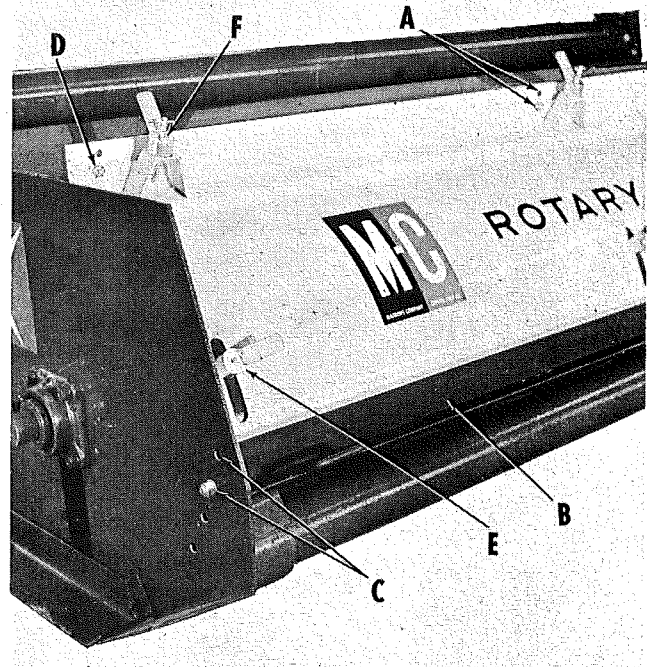


FIGURE 4.

The upper row of holes should be used when the Roller Mount Panel is in either of the two lower adjustment positions, or when the Cutter Bar Attachment is being used in place of the Adjustable Roller Mount Panel.

ASSEMBLY INSTRUCTIONS

FOR SHIPPING PURPOSES, THE FRONT COVER RETAINER IS BOLTED INTO THE UPPER ROW OF HOLES. CHANGE TO THE LOWER ROW OF HOLES IF YOU ARE GOING TO USE EITHER OF THE TOP TWO SIDE PLATE ADJUSTING POSITIONS (Fig. 4, letter C). (See Front Roller Adjustment Instructions, Fig. 13).

Assemble a "J" bolt and Clamping Handle into each bracket on top lip of Front Cover (Fig. 4, letter F). Use a 1/8 x 3/4 lg. cotter pin in end of each "J" bolt. Engage "J" bolts under clip on Front Cover Retainer and tighten. The lower Clamping Handles (Fig. 4, letter E), have to be loosened whenever the position of the Adjustable Roller Mount Panel is changed.

Install the Windrow Baffles inside of the Rotary Scythe as shown by main parts and assembly illustration. The Model 10A does not

have a right Windrow Baffle because of the conveyor.

Fill Gear Box with No. 140 oil through top hole until oil reaches level plug at side of gear box. Use a light engine oil in the Chain Oiler. Fill Chain Oiler to within 1/8" of the top of the center tube. Your Scythe is now ready for operation.

READ OPERATING AND MAINTENANCE INSTRUCTIONS CAREFULLY.

ASSEMBLY INSTRUCTIONS • MODEL 10A

Model 10A Assembly Instructions are the same as for Models 6A and 7A. The following instructions cover the attachment of the rear windrowing conveyor.

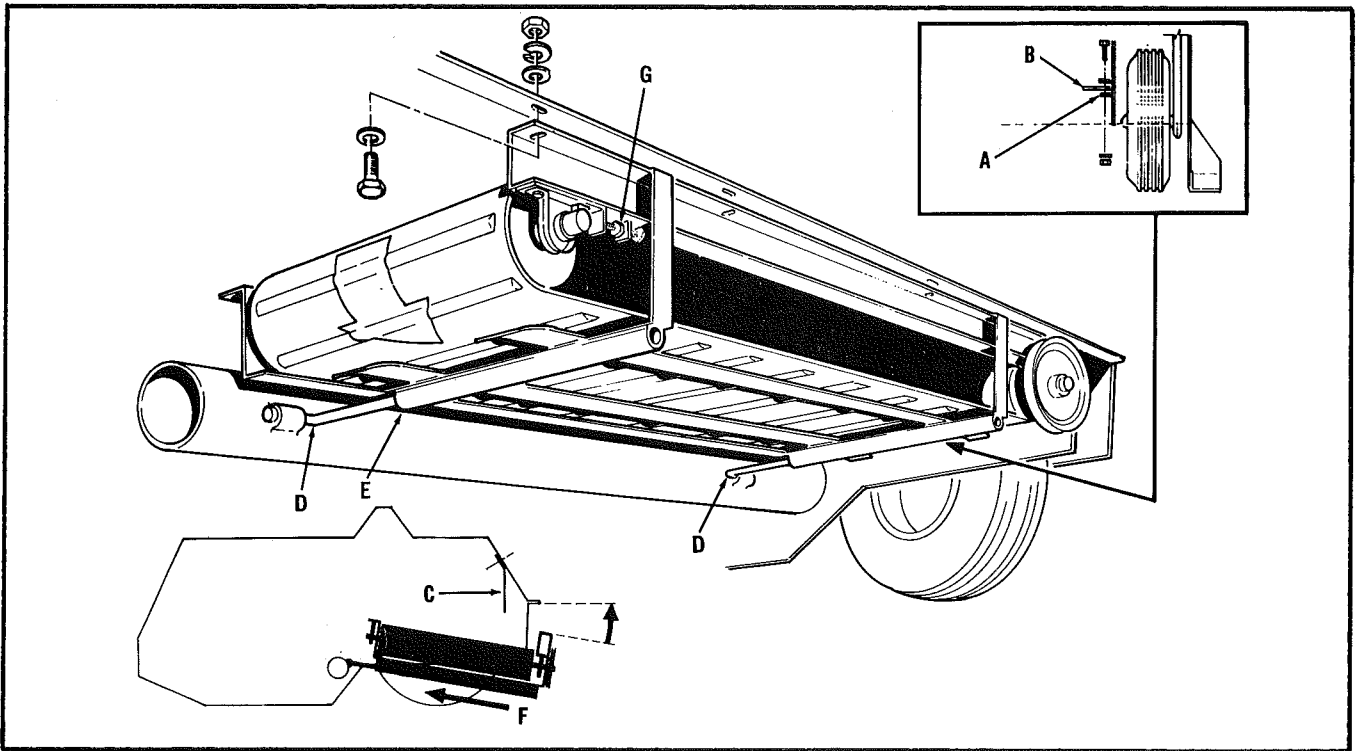


FIGURE 5.

WINDROWING CONVEYOR INSTALLATION

Raise machine as high as possible on its wheels. There is a flange for mounting the Flexible Lip on the inside of the right wheel well (Fig. 5, letter A). A flange just like this one has been wired to the conveyor for shipping. Bolt the flexible rubberized lip (Fig. 5, letter B), between these two pieces using three 3/8 x 1 lg. bolts. This

Flexible Lip prevents losing hay between the end of the conveyor and the wheel well. Mount Conveyor Baffle (Fig. 5, letter C) onto inside of rear cover with 3/8 x 3/4 lg. bolts. Put Conveyor Support Rods (Fig. 5, letter D) into sockets welded on rear cross pipe. Place conveyor into position under rear of Scythe so that the ends of con-

ASSEMBLY INSTRUCTIONS

veyor support rods are inserted into the pipe slides (Fig. 5, letter E). As you lift conveyor, push forward and bolt to rear flange of Scythe (Fig. 5, letter F). The conveyor belt has been adjusted to run properly at the factory. You should be able to operate the Scythe without any further belt adjustments. Later, as the belt stretches, take-up adjustments can be made at the take-up bearing slides (Fig. 5, letter G).

CONVEYOR DRIVE BELT INSTALLATION

Bolt Idler Assembly and Idler Belt Guard Bracket to right rear corner of machine using two 1/2 x 1-1/4 lg. bolts (Fig. 6, letter A). Do not

tighten completely. Slide Conveyor Pulley (10" O.D. x 1" bore) onto conveyor drive roller shaft and insert 1/4 x 7/8 lg. square key (Fig. 6, letter B). Do not lock pulley into position. Put Drive Belt onto rotor shaft pulley (Fig. 6, letter C) and bring it around idler pulleys, onto conveyor pulley (Fig. 6, letter D). Slide Idler Assembly to rear until proper belt tension is established and tighten into place. Align the Conveyor Pulley with the Idler Pulleys. Tighten pulley set screw. Bolt Belt Guard into position using three 3/8 x 3/4 lg. bolts (Fig. 6, letter E).

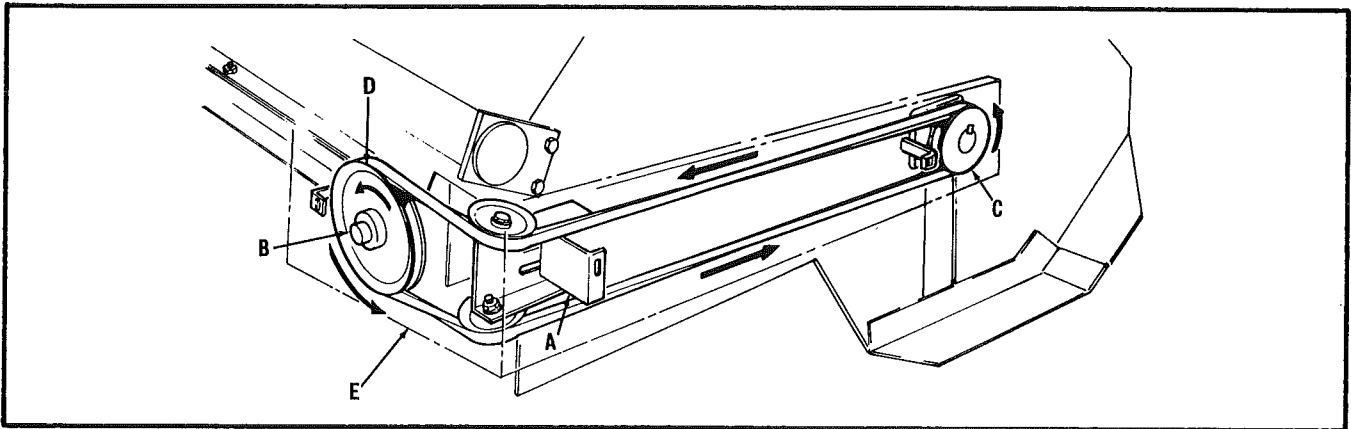


FIGURE 6.

GAUGE ROLLER

The Gauge Roller is standard equipment on Models 7A and 10A Scythes. This roller prevents the knives from scalping the ground.

The Gauge Roller is not designed to carry the full weight of the machine so some caution should be observed when operating on rough ground. Do not let the wheels of the scythe drop in gullies or holes

and expect the roller to carry the whole weight of the machine for any great length of time.

Lubricate bearings on Gauge Roller once a day and check to see that attaching bolts are tight.

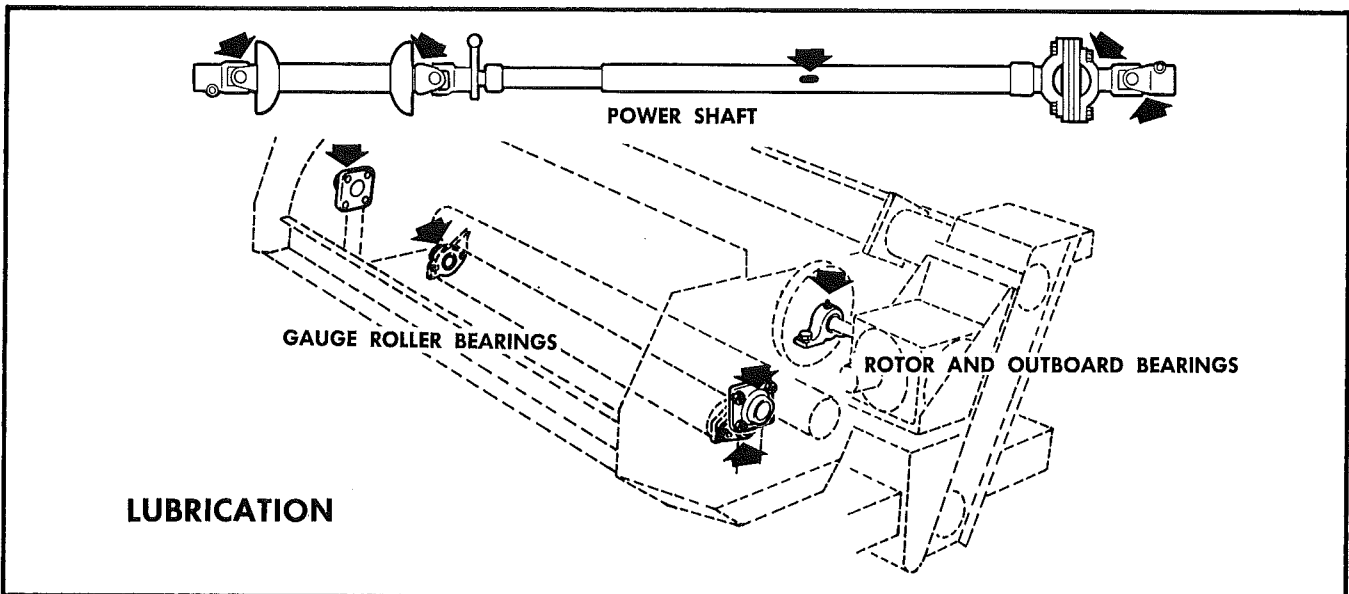


FIGURE 7.

LUBRICATION

Check oil level in gear box. Use No. 140 oil. Oil level should be up to oil level plug at side of gear box. Chain Oiler should be filled with a light engine oil to within 1/8" of the top of the tube. Be sure oiler is positioned correctly (See Assembly Instructions, Fig. 3, letter B). Illustration shows points to lubricate with grease gun. All points should be lubricated once a day if machine is getting

constant use. A hand grease gun is best because there will be less tendency to break the seals in the bearings by forcing too much grease into them. Use grease sparingly and just give it enough to do the job. When you put the machine away at the end of the season, fill the bearings with grease to eliminate any cavities where condensation may occur.

OPERATING INSTRUCTIONS

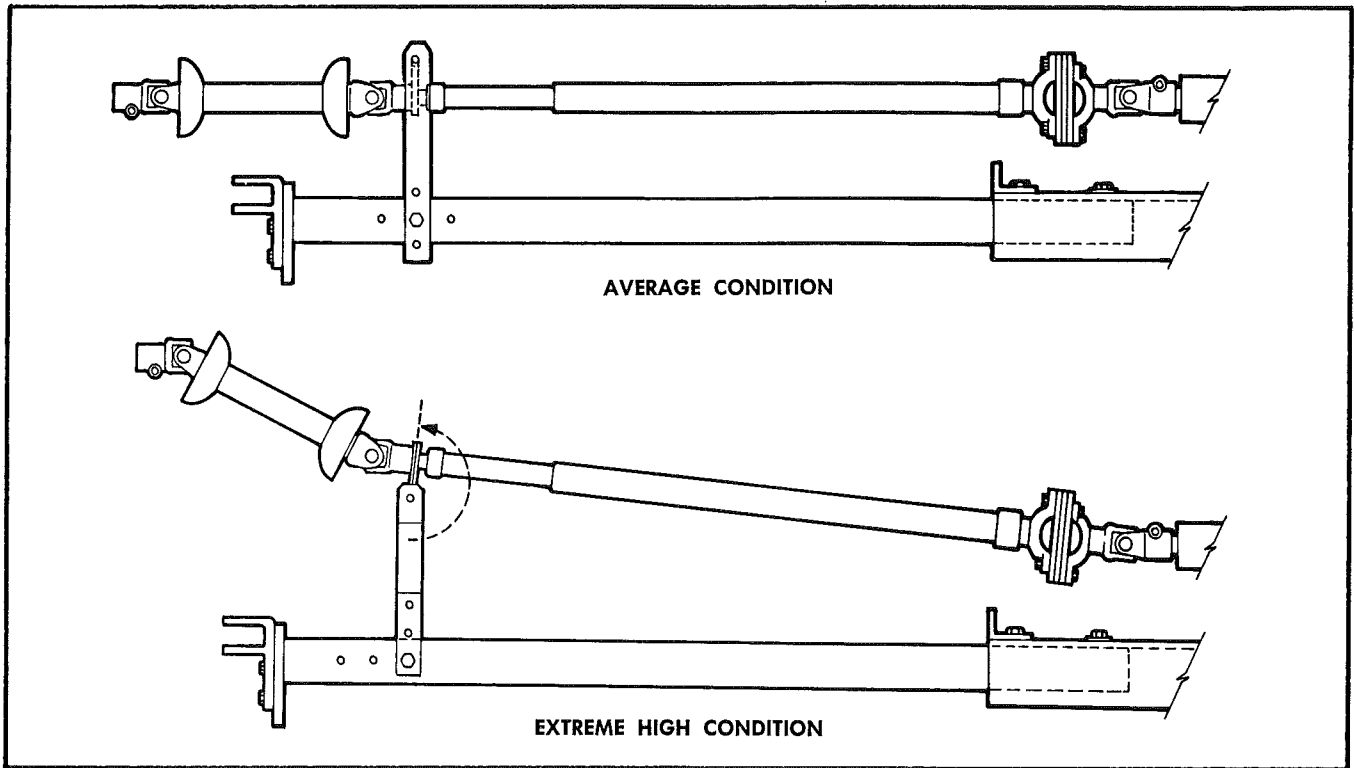


FIGURE 8.

ADJUST POLE AND POWER TAKE-OFF SHAFT FOR BEST PERFORMANCE

DRAW BAR POLE should operate level between the machine and tractor. Adjustment is provided for raising or lowering clevis at point where pole attaches to tractor draw bar. Sometimes it may be necessary to turn clevis over to get the right adjustment. THE POWER TAKE-OFF SHAFT should run as level as possible. There are adjustment

holes in the "H" bracket for vertical adjustment and also front to back adjustments in the pole. On some tractors power take-off is higher than average. In this case the bearing "A" can be inverted to get better alignment.

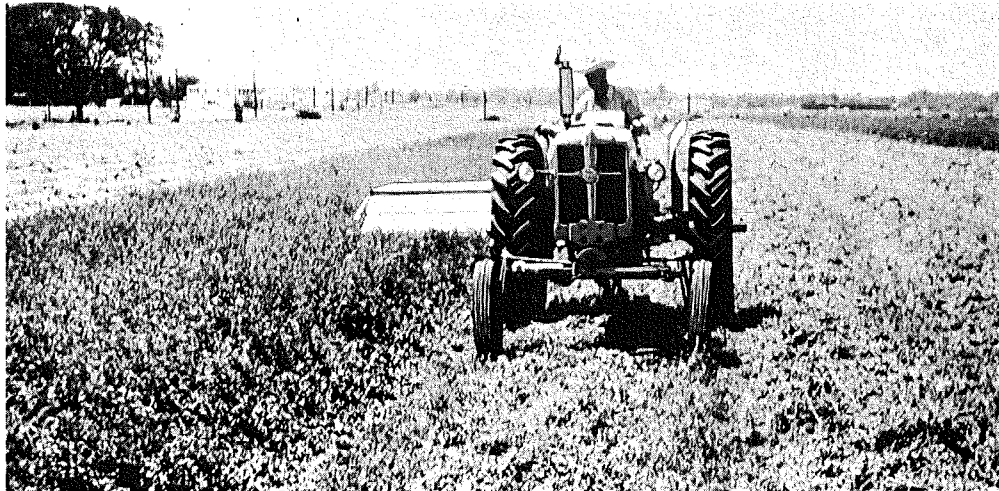


FIGURE 9.

TRACTOR — WIDE FRONT WHEEL TRACTOR BEST FOR MODELS No. 6A and No. 7A

For Model 6A and 7A Scythe a wide front wheel tractor is desirable because the wheels will straddle the hay cut on the previous round. This will allow the hay to remain fluffy for fast drying. A tricycle type tractor will work on the Model 10A Scythe—however, the

rear wheels may have to be adjusted to eliminate running over the windrow.

If only a tricycle tractor is available when using a Model 6A or 7A, it is best to make a wide swath so that the front wheels pack down only a small portion of the hay—see instructions for Adjusting Windrow Baffles.

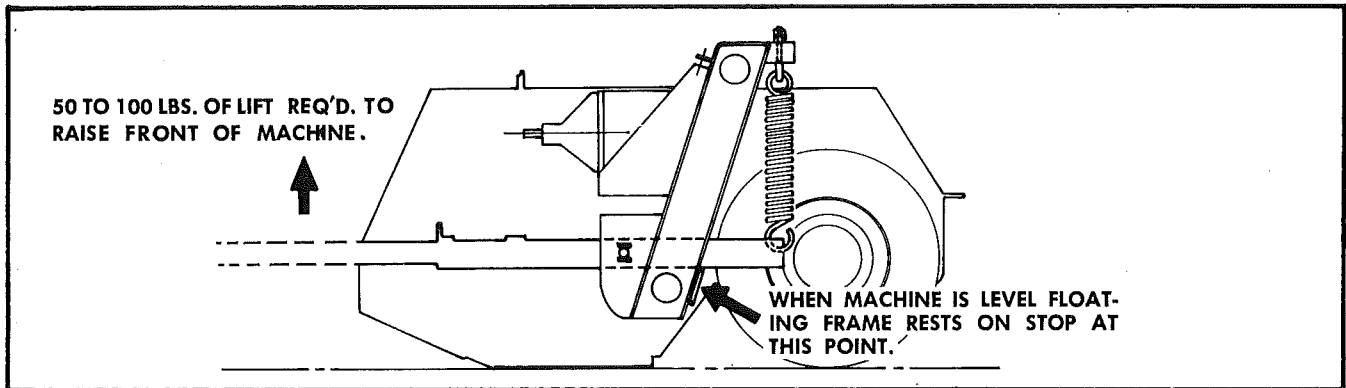


FIGURE 10.

FLOATING FRAME SPRING TENSION

The two large springs at the rear of the "Floating Frame" greatly increase the performance of your Rotary Scythe. When properly adjusted, they will cause your scythe to respond more quickly to irregularities in the ground. This feature helps to eliminate scalping,

and makes the machine easier to handle. If the tension in these springs is too much, the scythe will rock up and down when in operation. Reduce the spring tension enough to avoid this rocking motion.

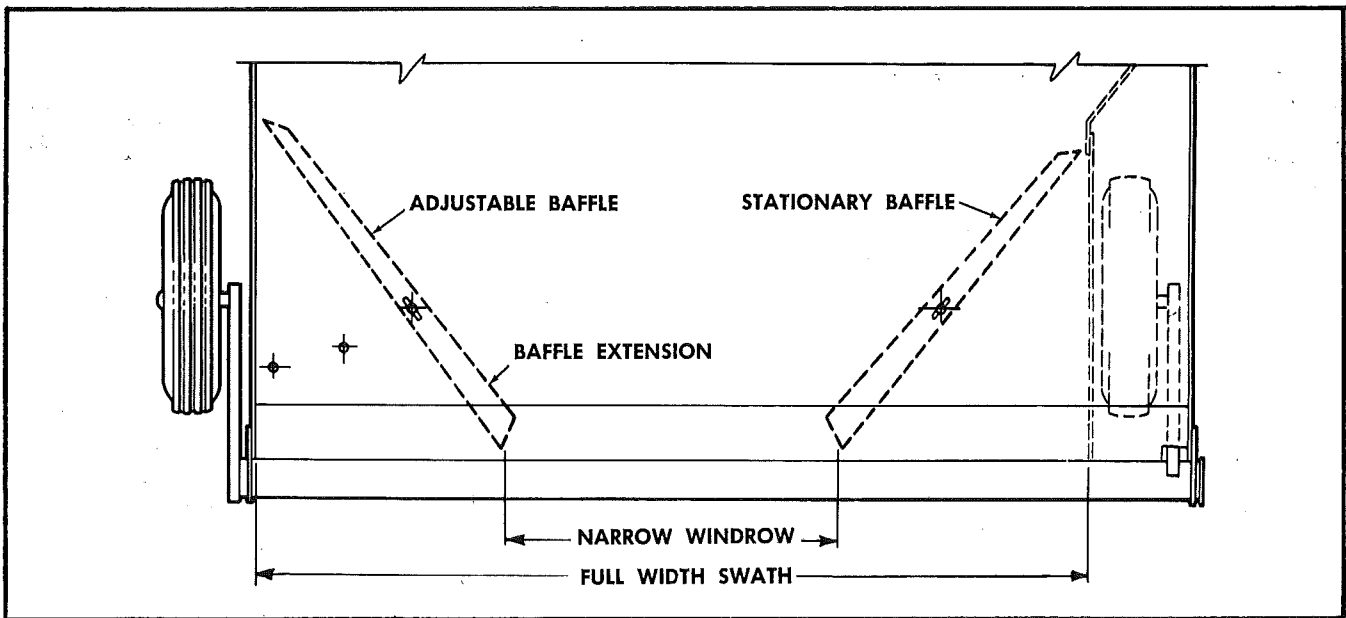


FIGURE 11.

WINDROW OR SWATH ADJUSTMENTS — MODELS 6A and 7A

An adjustable baffle located at left rear inside of machine is for making various size windrows. The heavier the hay, the wider you should make the windrow for quick drying. A windrow baffle extension

is furnished for this baffle to help make a tight windrow. To make a full width swath, both the stationary and the adjustable windrow baffles must be removed.

WINDROW OR FULL WIDTH SWATH — MODEL 10A

Facing rear of the Model 10A Scythe there is an adjustable windrow baffle, on the left hand side of the machine. In a light crop move the baffle to the extreme right hand position and on heavy crops of hay move to full open position. You can experiment with different size windrows to find the one best suited for your type of hay and conditions. When preparing straw for baling you might want to put two windrows in one by reversing direction of travel. On the first cut

you take a full 10' swath. On the next cut you pick up the windrow just made and seven additional feet of crop, thus you can put 17' in one windrow. In some instances you may want to lay the hay out in a full width swath or you may want to mow pastures or shred stalks. Remove windrowing conveyor assembly and set windrow wing in full open position.

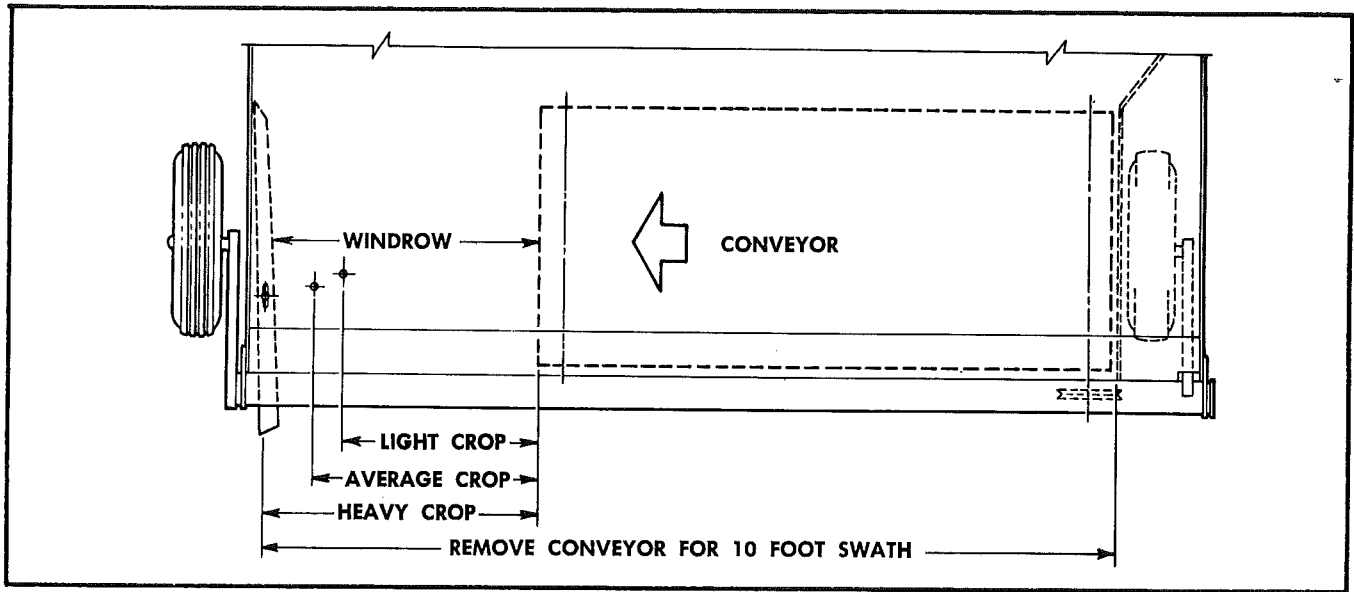


FIGURE 12.

ADJUSTMENT — FRONT ROLLER AND FRONT COVER FOR MOWING HAY

In medium to heavy hay crops, the front roller should be set in either of the two uppermost positions. This adjustment is made at the bolt holes at each side of the machine (Fig. 13, letter A). In a light, short crop, the roller should be lowered to hole locations (Fig. 13, letter B). When moving roller down, it also moves in closer to the Scythe blades and accomplishes two things. First it gives better control of the hay going between the blades and roller, and as the roller moves inward, it holds the heads of the short plants away from the blades while the stems are being cut. Much can be accomplished by making these adjustments. If you want a lot of crimping action for quicker drying, moving the roller down on a heavy crop will accomplish this—however, some may complain about excessive leaf loss. Before you move the roller down, the clamping handles (Fig. 13, letter C), holding the upper and lower sections of the front cover together, must be loosened. **THE FRONT ROLLER SHOULD ALWAYS TURN FREELY.** The roller with its turning action reduces friction of the hay going through the machine and is the prime factor allowing this mowing principle to function without excessive leaf loss. The right combination of roller setting, tractor RPM and forward speed will accomplish excellent results in all types of hay.

CUTTING HEIGHT ADJUSTMENT

Cutting Height Adjustment is made by cranking mechanical ram furnished on machine, or by using a hydraulic cylinder such as used on a plow. Skid shoes on the sides of machine should operate about one inch above the ground. If your field is rocky, the machine should be adjusted higher. A hydraulic cylinder is desirable in rocky fields, especially if you see a rock you can raise the machine up and over. It is best, however, to stop and pick up the rocks.

TRACTOR GROUND SPEED AND POWER TAKE-OFF SPEED

Operating with a power take-off speed of 540 RPM and with a ground speed of from three to six miles an hour, you can mow heavy crops of hay provided you have power available. The Model 6A Scythe requires 35 to 45 horsepower—Model 7A, 40 to 50 horsepower—Model 10A, 50 to 70 horsepower. Horsepower requirements vary with the weight of crop and the type of crop being mowed. With crops

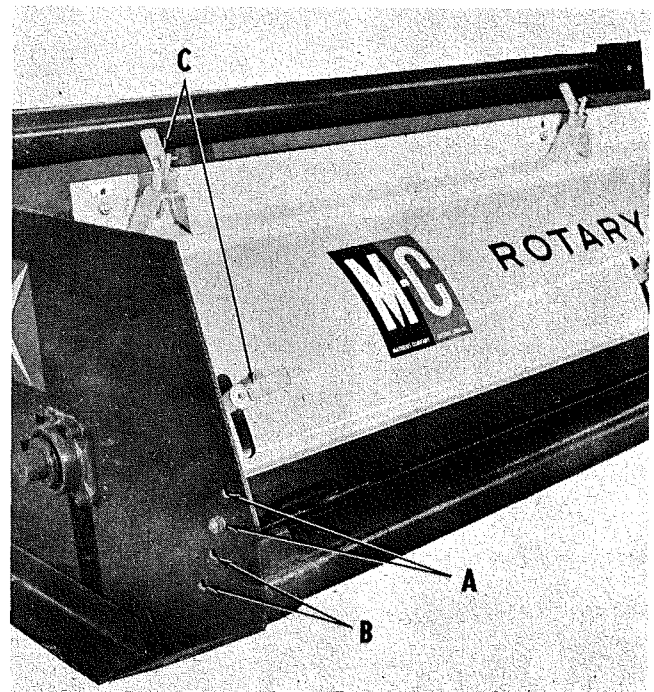


FIGURE 13.

weighing one and one-half to two tons per acre (dry weight), horsepower will be the lower figure shown. Horsepower is reduced by traveling at a slower forward speed. If you get into light crop and find you are getting too much leaf loss, reduce your throttle and try faster forward speeds. The right combination of power take-off speed and ground speed will produce good results.

BREAKING IN PERIOD

It takes approximately 10 to 15 acres of mowing to get the inside of the machine and the blades polished to get the best performance. As the machine works in, performance will get better. After machine has been operated a few hours, check all nuts and bolts to make sure they are tight. Open front cover and check knife bolts—also knife pin bolts to be sure they are tight.

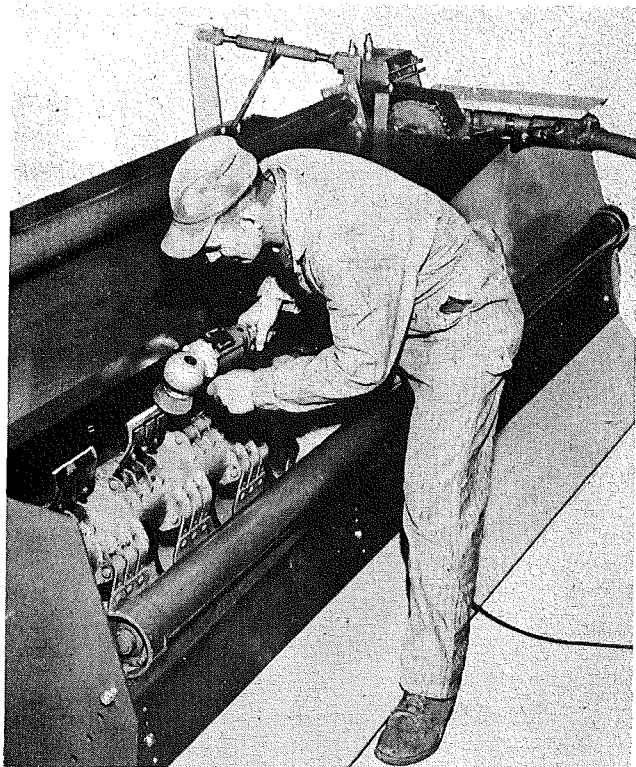


FIGURE 14.

SHARPENING SCYTHE BLADES

There are two ways to sharpen the scythe blades—you can remove them and sharpen them on a bench grinder or you can sharpen them right in the machine with a portable electric grinder.

NOTE: Electric Grinder Model No. 8726 is available as an accessory to the scythe. Picture shows front cover open with operator sharpening the blades. When you sharpen scythe blades, try to maintain original angle of cutting edge as close as possible.

MAINTENANCE OF SCYTHE BLADES

The machine is designed for easy inspection of the Scythe blades and rotor. To make this inspection, loosen "J" bolts and swing Front Cover out from top and down to ground exposing the inside of the machine. The scythe blades will last a long time with only occasional sharpening. It is important to check the blades occasionally to get good mowing action. The blades are eccentrically pivoted to the rotor shaft so that when they cut into the stem of the plant they swing back slightly causing an extended arc of cutting, thereby giving a smoother cut. The plants are carried up through the machine butts first, and then released from blades by centrifugal force. The momentum carries the knife forward for the next cut. It is therefore important that the knives swing freely. The knife pins and bushings that hold the blades to the rotor should be tight. Check these occasionally. The blades should swing on the bushings, not on a loose knife pin. When you remove and replace the blades to the hangers, make sure the whole blade assembly swings free. Be sure to re-tighten all bolts.

TEDDING OR RECONDITIONING HAY

The scythe works well to pick up mowed hay that has been flattened with a heavy rain. Also in periods of very high humidity or where ground is extremely damp, you can speed up the drying of the hay by picking it up and fluffing it. Run back over the hay using a reduced throttle on your tractor with a good forward speed, and you will get surprising results. The hay will dry much faster and be better than if you were to turn it over with a rake.

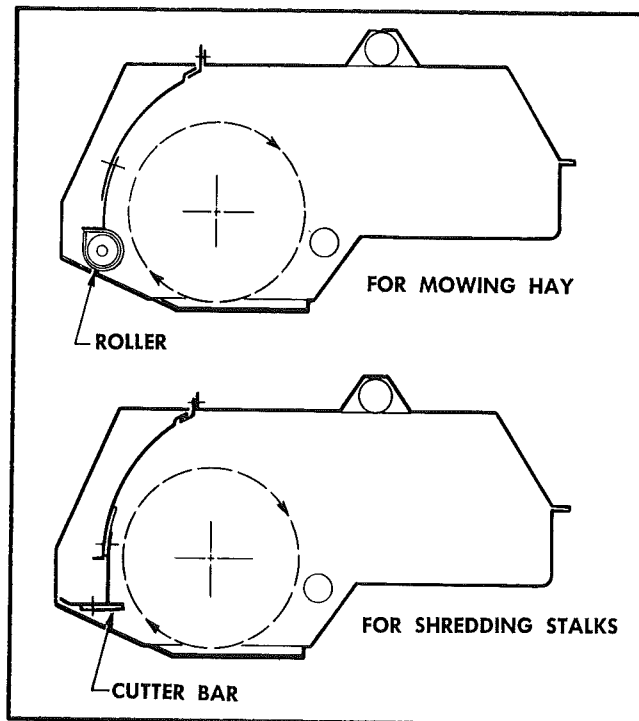


FIGURE 15.

CUTTER BAR ATTACHMENT FOR STALK SHREDDING

In place of the Front Roller we have a Cutter Bar Attachment available for all models. This attachment consists of an "L" shaped section which replaces the front roller assembly and a steel cutter bar that fastens to the bottom with adjustment for setting close to the knives in their path of travel. When using the Cutter Bar the material is cut off at the ground level and that which overhangs the knife is again cut between the blades and the adjustable bar. This Cutter Bar was made at the request of farmers who wanted to shred stalks finer and it is doing a very acceptable job.

Cutter Bar Attachment Kit for Model 6A No. 0939010.

Cutter Bar Attachment Kit for Model 7A No. 0939011.

Cutter Bar Attachment Kit for Model 10A No. 0939012.

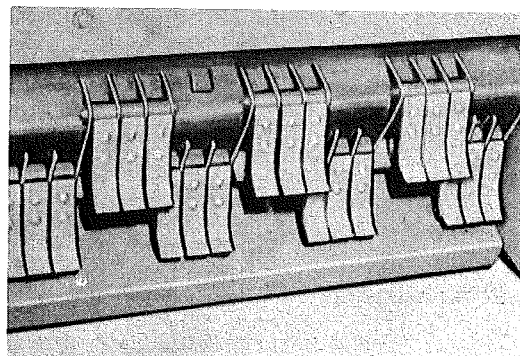


FIGURE 16.

**MOWING ACCESSORIES FOR ROTARY SCYTHE
Optional Mower Blades —**

For stalk shredding operations and very rocky conditions, we recommend the narrow blades in place of the wide scythe blades. Under extremely rocky conditions the narrow blade will stand up better

because of the added flexibility. This narrow knife also is better suited for mowing fine stemmed grass such as Coastal Bermuda. See Fig. 20 for available knife kits.

MAINTENANCE OF CHAIN DRIVE AND SPROCKET

The sprockets must be lined up so that the chain runs perfectly straight on the sprockets. If chain runs extremely hot, this means the sprockets are not in line and the chain is dragging on the side of one of the sprockets. When your chain becomes excessively worn, it will then cause excessive wear on the sprockets. Be sure the sprockets are in line and set screws are tight. This is your best assurance of good service. Keep Chain Oiler reservoir filled (See lubrication instructions).

SAFETY SHEAR PIN DEVICE

All Scythes are equipped with safety shear bolts which fasten the drive sprocket to a flange on the gear box output shaft. These shear pins are to protect the gear box and drive chain from damage. They will snap if you let out your clutch on the tractor too fast or if the machine is submitted to severe impact from an unseen object in your line of travel.

DO NOT USE HARDENED BOLTS FOR SHEAR PINS.

GAUGE ROLLER

The gauge roller is standard equipment on Models 7A and 10A Scythes. It may be purchased as an optional item for Model 6A (See parts list).

PARTS LIST • MODEL 10A ONLY

INSTRUCTIONS FOR ORDERING PARTS

1. ALL PARTS MUST BE ORDERED FROM YOUR DEALER.
2. GIVE MODEL NAME, NUMBER and SERIAL NUMBER that is stamped on the NAME PLATE of your machine.
3. Order from your PARTS LIST as this is the ONLY means we have of identifying the parts you need. Order by the QUANTITY

DESIRED, the PART NUMBER and the DESCRIPTION OF THE PART.

NOTE: The Company reserves the right to incorporate any changes in design without obligation to make these changes on units previously sold.

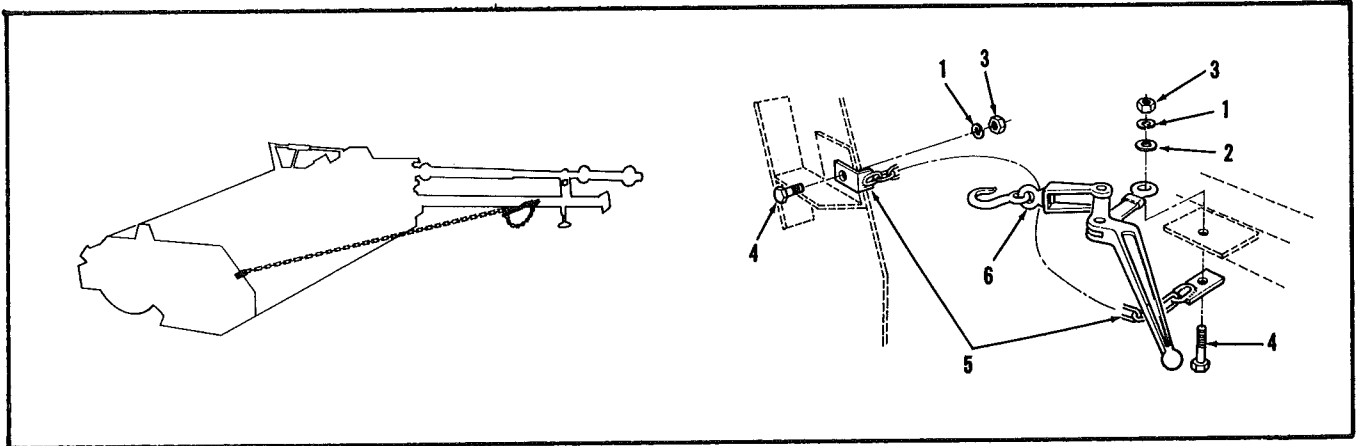


FIGURE 17.

POLE TIE BRACE CHAIN ASSEMBLY

REF. NO.	PART	DESCRIPTION
1.		1/2" Lock Washer
2.		1/2" Flat Washer
3.		1/2-13 Hex Nut

REF. NO.	PART	DESCRIPTION
4.		1/2-13 x 1-3/4" lg. Hex Head Cap Screw
5.	0910096	Pole Tie Brace Chain Weldment
6.	0916304	Chain Binder, 1/4"

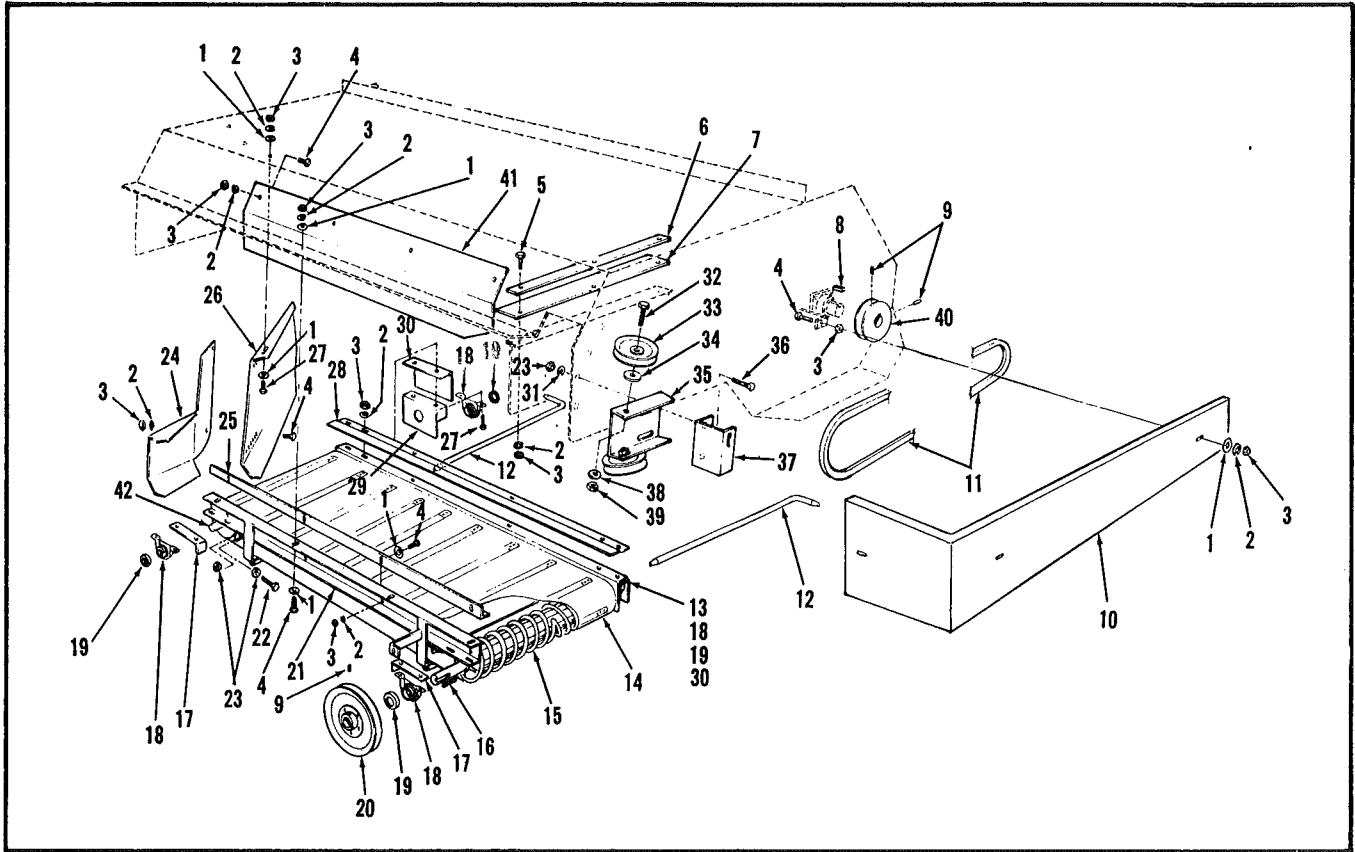


FIGURE 18.

WINDROWING CONVEYOR • MODEL 10A ONLY

REF. NO.	PART	DESCRIPTION
1.		3/8" Flat Washer
2.		3/8" Lock Washer
3.		3/8"-16 Hex Nut
4.		3/8-16 x 3/4" lg. Hex Head Cap Screw
5.		3/8-16 x 1" lg. Hex Head Cap Screw
6.	0913300	Flexible Lip Mount
7.	0918999	Flexible Lip
8.	0015115	Key, 1/4 x 1/4 x 7/8" lg.
9.		1/4-20 x 1/4" lg. Socket Head Set Screw
10.	0900003	Belt Guard Weldment
11.	0906100	Conveyor Drive Belt, B-147
12.	0913673	Conveyor Support Rod
13.	0903400	Bearing Shim
14.	0916103	Conveyor Belt, 26-1/2 x 144-1/2" lg. Incl. 2" Splice Strip
15.	0900005	Driver Conveyor Roll Weldment
16.	0015115	Key, 1/4 x 1/4 x 7/8" lg.
17.	0903403	Conveyor Bearing Slide
18.	0916002	Pillow Block Bearing, 1"
19.	0016007	1" Bearing eccentric Lock Collar
20.	0916202	V-Pulley 10" O.D. x B9.6 P.D. x 1" Bore
21.	0910097	Conveyor Weldment, 10A

REF. NO.	PART	DESCRIPTION
22.		1/2-13 x 4-1/2" lg. Hex Head Cap Screw, Full Thread
23.		1/2-13 Hex Nut
24.	0910092	Left Windrow Baffle Extension Weldment, 10
25.	0914476	Rear Dirt Seal, Conveyor
26.	0910091	Left Windrow Baffle Weldment, 10
27.		3/8-16 x 1-1/4" lg. Hex Head Cap Screw
28.	0914477	Front Dirt Seal, Conveyor
29.	0910055	Conveyor Inside Bearing Slide Weldment
30.	0904427	Bearing Cover
31.		1/2" Lock Washer
32.		5/8-11 x 2" lg. Hex Head Cap Screw
33.	0906200	Idler Pulley, 4-1/4 O.D. x B3.9 P.D. x 5/8" Bore
34.		5/8" Flat Washer
35.	0904201	Idler Pulley Mounting Bracket
36.		1/2-13 x 1-1/4" lg. Hex Head Cap Screw
37.	0904426	Belt Guard Bracket, Idler Pulley
38.		5/8" Lock Washer
39.		5/8-11 Hex Nut
40.	0916200	V-Pulley, 4" O.D. x B3.6 P.D. x 1-15/16" Bore
41.	0914480	Rear Cover Baffle, Conveyor
42.	0900004	Driven Conveyor Roll Weldment

PARTS LIST • MODELS 6A, 7A and 10A

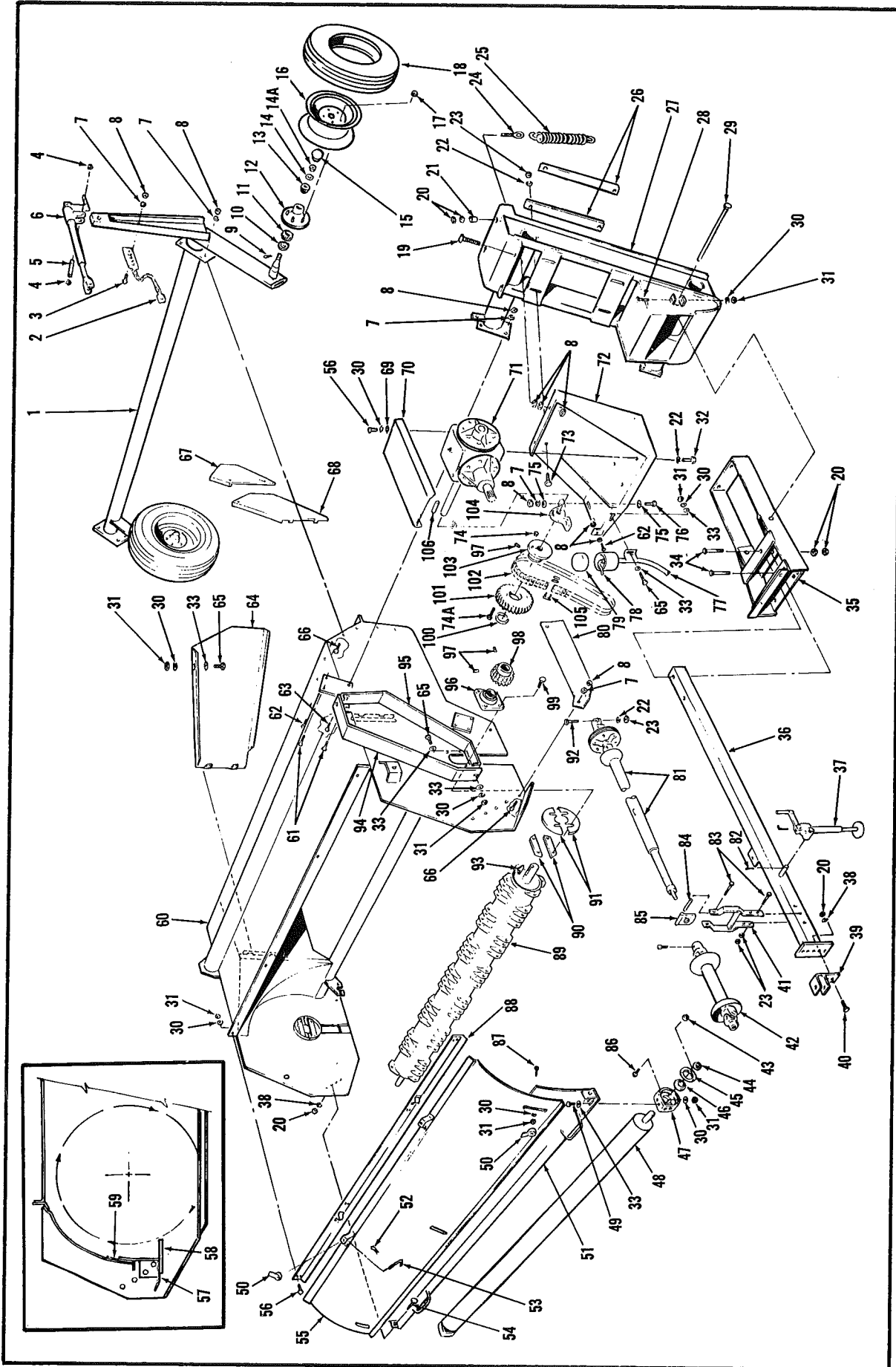


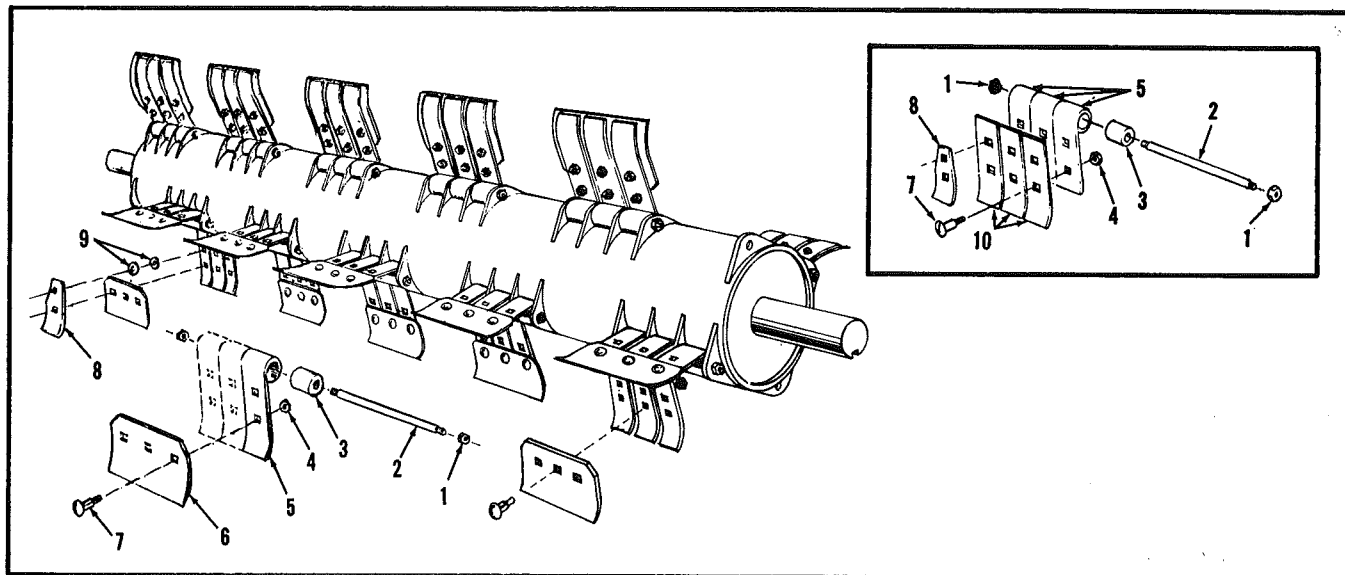
FIGURE 19.

PARTS LIST • MODELS 6A, 7A and 10A

REF. NO.	PART	DESCRIPTION
1.	0910061	Axle Weldment, No. 6A
	0910062	Axle Weldment, No. 7A
	0910063	Axle Weldment, No. 10A
2.	0910068	Ram Stop Chain Weldment
3.		1/2-13 x 1-1/4" lg. Hex Head Cap Screw
4.	0008250	Ram Pin Snap Ring
5.	0008230	Ram Pin
6.	0001001	Ram Assembly
7.		1/2" Lock Washer
8.		1/2-13 Hex Nut
9.	0018252	Wheel Spindle Cotter Pin
10.	0018991	Wheel Seal
11.	0016001	Wheel Inner Bearing
12.	0018992	Wheel Hub Assembly, incl. Cast Inner and Outer Bearing Cup. (5 Bolt)
13.	0016000	Wheel Outer Bearing
14.	0018254	Wheel Spindle Washer
14A.	0018253	Wheel Spindle Nut
15.	0018996	Wheel Hub Cap
16.	0018993	Wheel, 15", 5 Bolt, Rim Only.
17.	0018989	Wheel Lug Nut
18.	0008999	Tire and Tube, 15" Implement Recap.
19.		1/2-13 x 4-1/2" lg. Hex Head Cap Screw, Full Thread.
20.		3/4-10 Hex Nut
21.	0915427	Eye Bolt Spacer
22.		5/8" Lock Washer
23.		5/8-11 Hex Nut
24.	0918190	Forged Eye Bolt, 3/4-10 x 4-1/2" lg.
25.	0918250	Extension Spring, 14" lg., 7/16" Wire, Nos. 6 and 7 (Red).
	0918252	Extension Spring, 14" lg., 1/2" Wire, No. 10 (Yellow)
26.	0913456	Slide Bar, Gear Box Mount
27.	0910066	End Frame Weldment, 64
28.		3/8-16 x 2-1/4" lg. Hex Head Cap Screw
29.	0910074	Hinge Pin Weldment
30.		3/8" Lock Washer
31.		3/8-16 Hex Nut
32.		5/8-11 x 1" lg. Hex Head Cap Screw
33.		3/8" Flat Washer
34.		3/4-10 x 2-1/2" lg. Hex Head Cap Screw
35.	0910010	Floating Frame Weldment
36.	0910015	Pole Weldment, 64
37.	0911000	Jack Assembly, Pole
38.		3/4" Lock Washer
39.	0910019	Adjustable Clevis Weldment
40.		3/4-10 x 2-1/2" lg. Hex Head Cap Screw
41.	0910020	Bearing "H" Yoke Weldment
42.	0916601	P.T.O. Tractor Take-Apart
43.		5/16-18 Whiz Lock Nut
44.	0016002	Eccentric Lock Collar W/ss, 1-1/4"
45.	0016004	Bearing Stamping, 1-1/4"
46.	0016003	1-1/4" Bearing
47.	0910098	Front Roller Hanger Weldment
48.	0910016	Front Roller Weldment, No. 6
	0910017	Front Roller Weldment, No. 7
	0910018	Front Roller Weldment, No. 10
49.		3/8-16 x 1" lg. Hex Head Cap Screw
50.	0910069	Clamping Handle Weldment, 3/8-16
51.	0910084	Lower Front Cover Weldment, No. 6A
	0910085	Lower Front Cover Weldment, No. 7A
	0910086	Lower Front Cover Weldment, No. 10A
52.		1/8 x 3/4" lg. Cotter Pin
53.	0918130	"J" Bolt, 3/8-16 x 4" lg.
54.	0918160	Shoulder Bolt, 1/2-13 x 1-1/4" lg.
55.	0910087	Upper Front Cover Weldment, No. 6A
	0910088	Upper Front Cover Weldment, No. 7A
	0910089	Upper Front Cover Weldment, No. 10A
56.		3/8-16 x 3/4" lg. Hex Head Cap Screw
57.	0930002	Cutter Bar Channel Weldment, No. 6
	0930003	Cutter Bar Channel Weldment, No. 7

REF. NO.	PART	DESCRIPTION
	0930004	Cutter Bar Channel Weldment, No. 10
58.	0933470	Cutter Bar, No. 6
	0933471	Cutter Bar, No. 7
	0933472	Cutter Bar, No. 10
59.	0934766	Special Rectangular Washer
60.	0910075	Body Weldment, No. 6A
	0910076	Body Weldment, No. 7A
	0910077	Body Weldment, No. 10A
61.		5/8-11 x 1-3/4" lg. Hex Head Cap Screw
62.		5/8-11 x 2-1/2" lg. Hex Head Cap Screw
63.		5/8-11 x 2" lg. Hex Head Cap Screw
64.	0910090	Right Windrow Baffle Weldment, Nos. 6A and 7A.
65.		3/8-16 x 1-1/4" lg. Hex Head Cap Screw
66.		1/2-13 x 1-1/4" lg. Hex Head Cap Screw
67.	0912716	Left Windrow Baffle Extension, Nos. 6A and 7A.
	0910092	Left Windrow Baffle Extension Weldment, No. 10
68.	0910025	Left Windrow Baffle Weldment, Nos. 6 and 7
	0910091	Left Windrow Baffle Weldment, No. 10
69.		3/8" Flat Washer
70.	0914766	Universal Joint Guard, Gear Box
71.	0916604	Gear Box
72.	0910067	Gear Box Mount Weldment
73.		5/8-11 x 1-1/2" lg. Hex Head Cap Screw
74.	0018149	3/8-16 Lock Nut
74A.		3/8-16 x 2-1/2" lg. Hex Head Cap Screw
75.		1/2" Flat Washer
76.		1/2-13 x 2" lg. Hex Head Cap Screw
77.	0910078	Oiler Weldment
78.	0915700	Oiler Wicking (3 pieces required)
79.	0917985	Oiler Cap
80.	0910013	Left Skid Weldment
	0910012	Right Skid Weldment, Nos. 6 and 7
	0910099	Right Skid Weldment, No. 10A
81.	0916600	P.T.O. Shaft w/3 Shock Discs.
82.		3/16 x 1-1/2" lg. Cotter Pin
83.		5/8-11 x 6" lg. Hex Head Cap Screw
84.	0915590	P.T.O. Bearing Sleeve
85.	0916000	Bearing "H" Yoke
86.		5/16-18 x 3/4" lg. Hex Head Cap Screw
87.		3/8-16 x 1-1/2" lg. Hex Head Cap Screw, Full Thread.
88.	0910093	Upper Front Cover Retainer Weldment, No. 6A
	0910094	Upper Front Cover Retainer Weldment, No. 7A
	0910095	Upper Front Cover Retainer Weldment, No. 10A
89.	0910072	Rotor Weldment, No. 6A
	0910073	Rotor Weldment, No. 7A
	0910044	Rotor Weldment, No. 10
90.	0015175	1/2-13 Stud Anchor, Rotor Bearing Bolt
91.	0014652	Rotor Anti-Wrap Device
92.		5/8-11 x 3" lg. Hex Head Cap Screw
93.	0018987	Gib Head Key, 1/2 x 2-1/2" lg.
94.	0914467	Upper Chain Guard
95.	0914468	Lower Chain Guard
96.	00160110	4 Bolt Flange Bearing, 1-15/16"
	0026002	Bearing Insert, 1-15/16"
97.		3/8-16 x 1/2" lg. Socket Head Set Screw
98.	0916403	Sprocket, RC 60-2, 17T x 1-15/16" Bore
99.		1/2-13 x 1-3/4" lg. Hex Head Cap Screw
100.	0918100	Snap Ring, 3" I.D.
101.	0916404	Sprocket, RC 60-2, 29T x 3-1/4" Bore
102.	0916301	Chain, RC 60-2 x 52-1/2" lg. Incl. Spring Clip Connecting Link.
103.	0917652	Sprocket Shear Flange, 64
104.	0916001	Pillow Block Bearing, 1-3/4"
	0926002	Bearing Insert, 1-3/4"
105.	0026303	Connecting Link RC 60-2, w/spring clip
106.	0015136	Key, 3/8 x 3/8 x 3" lg.

PARTS LIST • MODELS 6A, 7A and 10A



**FIGURE 20.
ROTOR ASSEMBLY**

REF. NO.	PART NO.	DESCRIPTION	QTY. PER MODEL 6	7	10
1.	0018169	Lock Nut, 7/16-20	48	56	80
2.	0018150	Knife Pin, 7/16-20 x 6-3/4"	24	28	40
3.	0017980	Knife Bushing	72	84	120
4.	0018149	Lock Nut, 3/8-16	74	86	122
5.	0015203	Knife Hanger	72	84	120
6.	0915200	Heavy Duty Knife Blade	24	28	40
7.	0018131	Knife Carriage Bolt, 3/8-16 x 7/8" Special	74	86	122
8.	0015200	End Knife RH	2	2	0
	0915201	Wide End Knife RH	0	0	2
9.		3/8" Flat Washer	4	4	4
10.	0015202	Knife WO/stop, "H" Type			see following list

FIELD INSTALLATION REPLACEMENT KITS

PART NO.	DESCRIPTION
0929000	Heavy Duty Scythe Blade Kit, No. 6 Consists of: 24 No. 0915200
0929001	Heavy Duty Scythe Blade Kit, No. 7 Consists of: 28 No. 0915200
0929002	Heavy Duty Scythe Blade Kit, No. 10 Consists of: 40 No. 0915200
0929003	Narrow Knife Kit, No. 6 Consists of: 72 No. 0015202, 70 ea. of Nos. 0018131 and 0018149
0929004	Narrow Knife Kit, No. 7 Consists of: 84 No. 0015202, 82 ea. of Nos. 0018131 and 0018149
0920005	Narrow Knife Kit, No. 10 Consists of: 120 No. 0015202, 118 ea. of Nos. 0018131 and 0018149

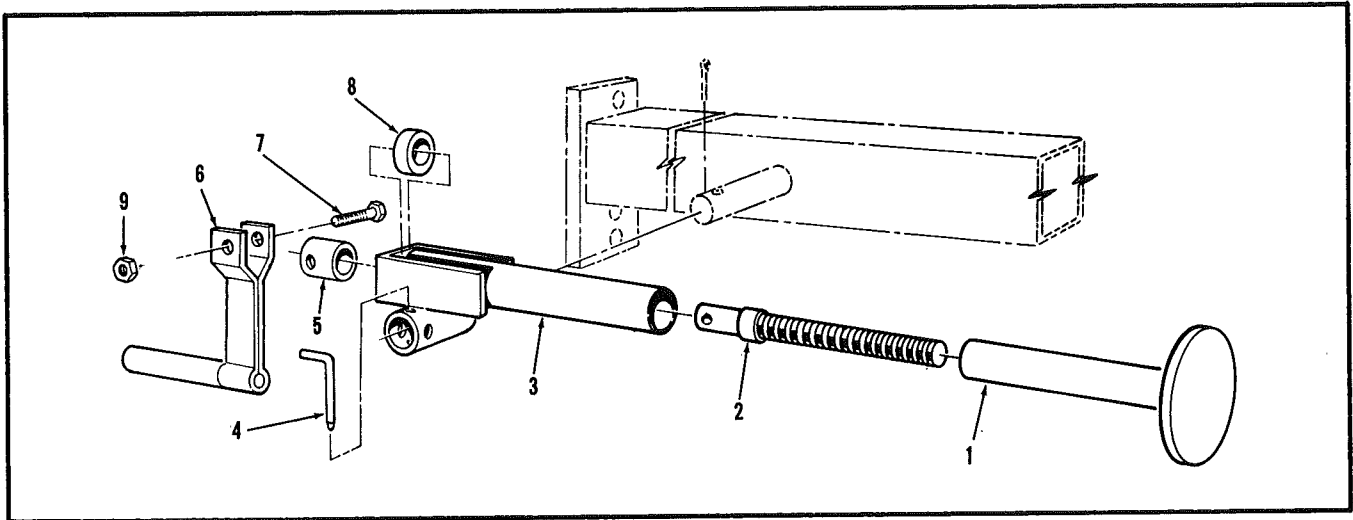


FIGURE 21.
POLE JACK
PART No. 0911000

REF. NO.	PART	DESCRIPTION
1.	0910003	Jack Fixed End Weldment
2.	0910002	Jack Screw Weldment
3.	0910004	Jack Floating End Weldment
4.	0915175	Jack Pin
5.	0005600	Retainer Sleeve

REF. NO.	PART	DESCRIPTION
6.	0000004	Handle Weldment
7.	3/8-16 x 2 " lg. Hex Head Cap Screw	
8.	0006000	Thrust Bearing
9.	0018149	3/8-16 Lock Nut

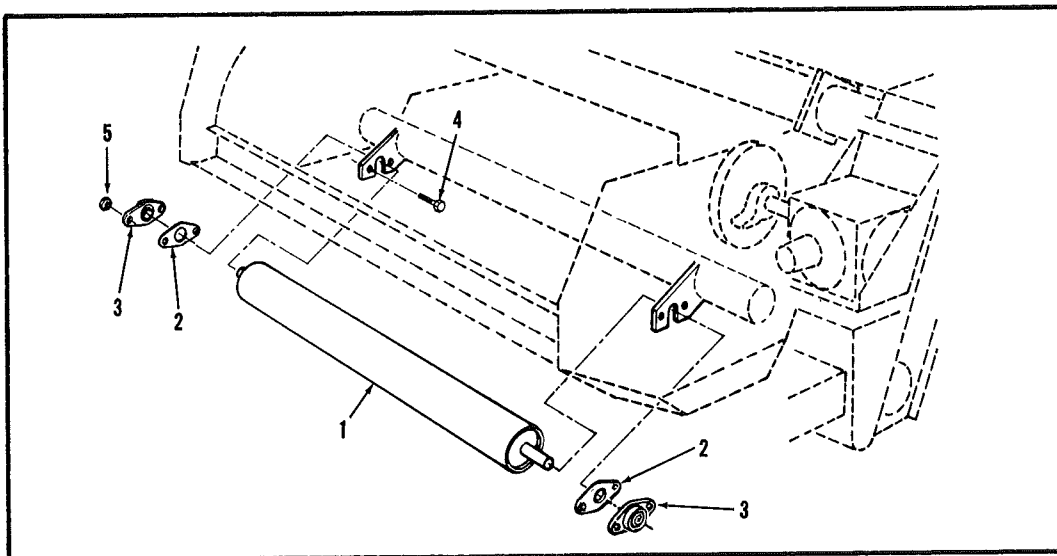


FIGURE 22.
GAUGE ROLLER

REF. NO.	PART	DESCRIPTION
1.	0910081	Gauge Roller Weldment, No. 7A
	0910082	Gauge Roller Weldment, No. 10A
	0930011	Gauge Roller Weldment, No. 6A
	0939009	Gauge Roller Kit, Consists of Bearings and Roller Complete
2.	0914454	Bearing Shim Shield

REF. NO.	PART	DESCRIPTION
3.	0006001	2 Bolt Flange Bearing, 1-1/4" (Serial Nos. 7337 and up)
	0026005	Bearing Insert, 1-1/4" (0006001)
	0016005	2 Bolt Flange Bearing, 1-1/4" (Serial Nos. 5570-7336)
	0026003	Bearing Insert, 1-1/4" (0016005)
4.	7/16-20 x 1-1/2" lg. Hex Head Cap Screw	
5.	0018169	Lock Nut, 7/16-20

PARTS LIST • MODELS 6A, 7A and 10A

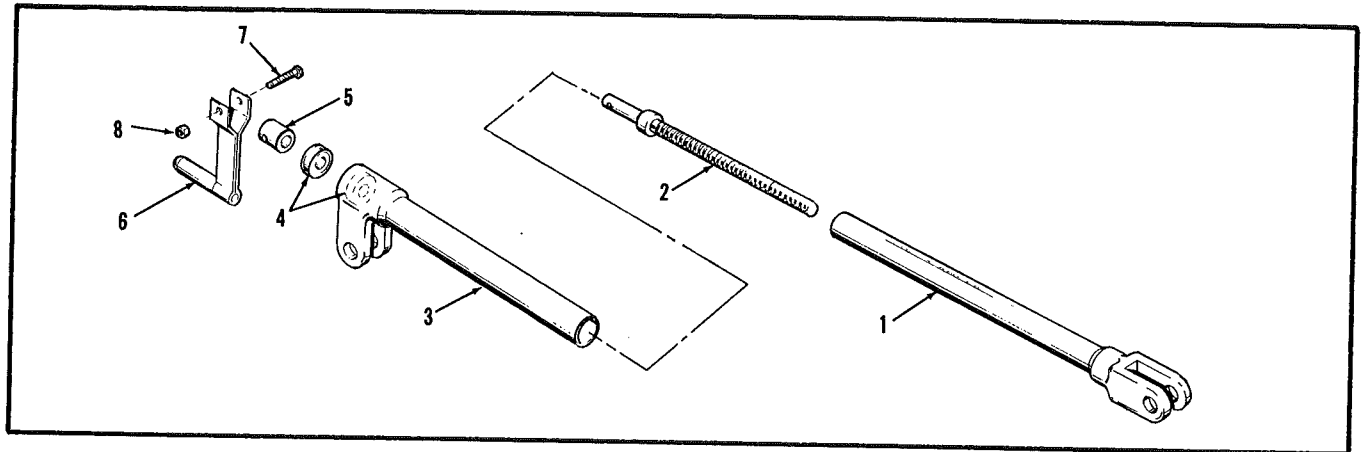


FIGURE 23.
MECHANICAL RAM
 Part No. 0001001

REF. NO.	PART	DESCRIPTION
1.	0000001	Ram Floating End Weldment
2.	0000002	Ram Screw Weldment
3.	0000003	Ram Fixed End Weldment w/Bearing Inside
4.	0006000	Ram Thrust Bearing
5.	0005600	Retainer Sleeve

REF. NO.	PART	DESCRIPTION
6.	0000004	Handle Weldment
7.		3/8-16 x 2" lg. Bolt
8.	0018149	3/8-16 Lock Nut

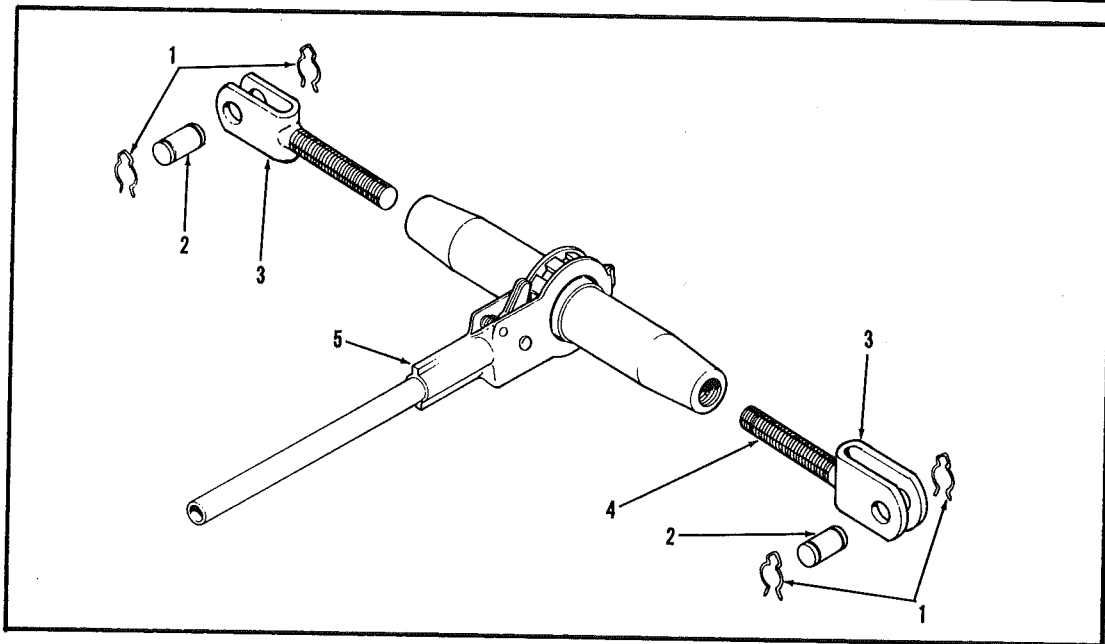


FIGURE 24.
MECHANICAL RATCHETING JACK
 Part No. 0918998

REF. NO.	PART	DESCRIPTION
1.	0928250	Ratcheting Jack Pin, Clip
2.	0928230	Ratcheting Jack Pin, 1" dia. x 2-3/4 lg.
3.	0928998	Ratcheting Jack End Weldment, LH Thread

REF. NO.	PART	DESCRIPTION
4.	0928997	Ratcheting Jack End Weldment, RH Thread
5.	0928999	Ratcheting Jack Handle Assembly

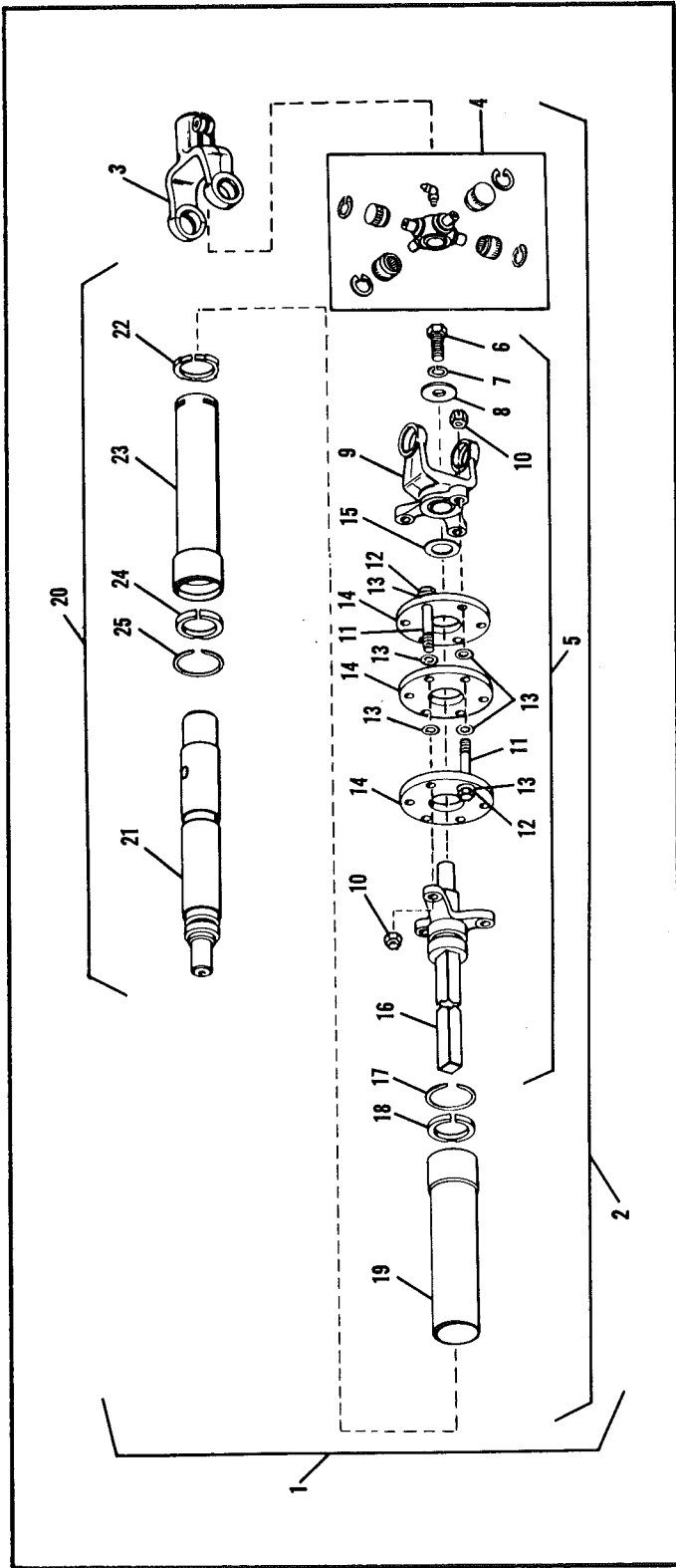


FIGURE 25.

P. T. O. SHAFT
Part No. 0916600

REF. NO.	PART	DESCRIPTION	REF. NO.	PART	DESCRIPTION
1.	0916600	Main P.T.O. Shaft (Complete)	13.	0026610	Beaded Washer
2.	0926618	Rear Half Assembly complete w/clamp Yoke	14.	0026609	Rubber Shock Disc
3.	0927656	Clamp Type Spline Yoke	15.	0026614	Thrust Washer
4.	0026608	Universal Joint Center Parts Kit	16.	0926615	Male Shaft w/Spider Weldment
5.	0926619	Spider-Yoke, Male Shaft and Shock Coupling Assembly	17.	0028250	Snap Ring Bearing Retainer, 2-7/8" O.D.
6.		Hex Head Cap Screw (1/2-20 x 1-1/4" lg.)	18.	0026004	Nylon Bearing, 2-3/4" O.D.
7.		1/2" Med. Spring Lock Washer	19.	0926614	Female Guard Tube Weldment
8.	0026615	Special Flat Washer	20.	0926617	Front Half Assembly Complete
9.	0026612	Spider-Yoke Weldment	21.	0926616	Female Shaft Weldment
10.		Castle Nut (1/2-20)	22.	0026613	Nylon Centralizer
11.	0028151	Cap Screw (1/2-20 x 2-3/4" lg.)	23.	0926613	Male Guard Tube Weldment
12.	0026611	Special Flat Washer	24.	0926003	Nylon Bearing, 2-1/2" O.D.
			25.	0928253	Snap Ring Bearing Retainer, 2-5/8" O.D.

PARTS LIST • MODELS 6A, 7A and 10A

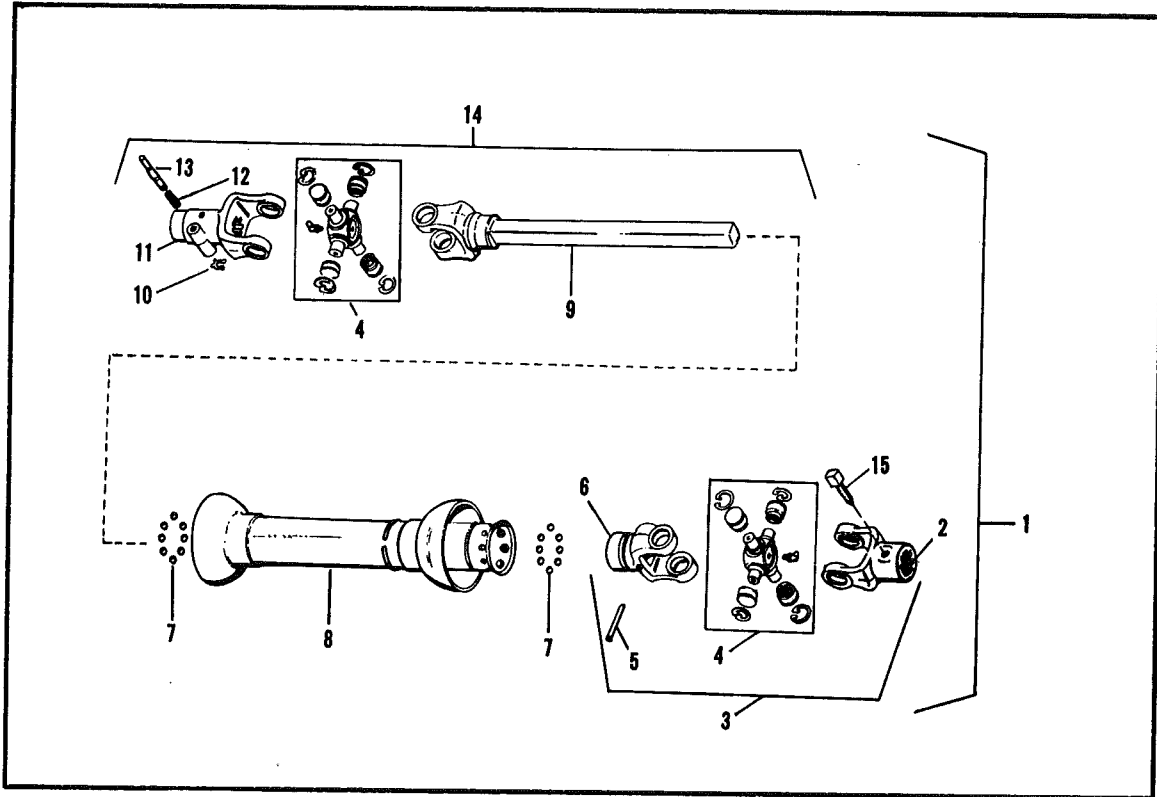


FIGURE 26.

P. T. O. TRACTOR TAKE-APART

Part No. 0916601

REF. NO.	PART	DESCRIPTION
1.	0916601	P.T.O. Tractor Take-Apart (Complete)
2.	0927651	Spline Yoke with Set Screw, Universal Joint
3.	0926611	"DN" Universal Joint Assembly
4.	0026608	Universal Joint Center Parts Kit
5.	0926602	Pin (Universal Joint)
6.	0927650	Yoke, Universal Joint
7.	0026606	3/8" dia. Balls
8.	0926601	Guard Assembly w/2 Bells
9.	0926612	Yoke and Shaft Weldment
10.	0026603	"X" Washer, Locking Pin
11.	0027651	Q.D. Yoke
12.	0026602	Spring, Locking Pin
13.	0026601	Locking Pin
14.	0926610	Joint and Shaft Assembly
15.	0928161	1/2-20 x 1-1/4, 60° Cone Point Square Head Set Screw

PARTS LIST • MODELS 6A, 7A and 10A

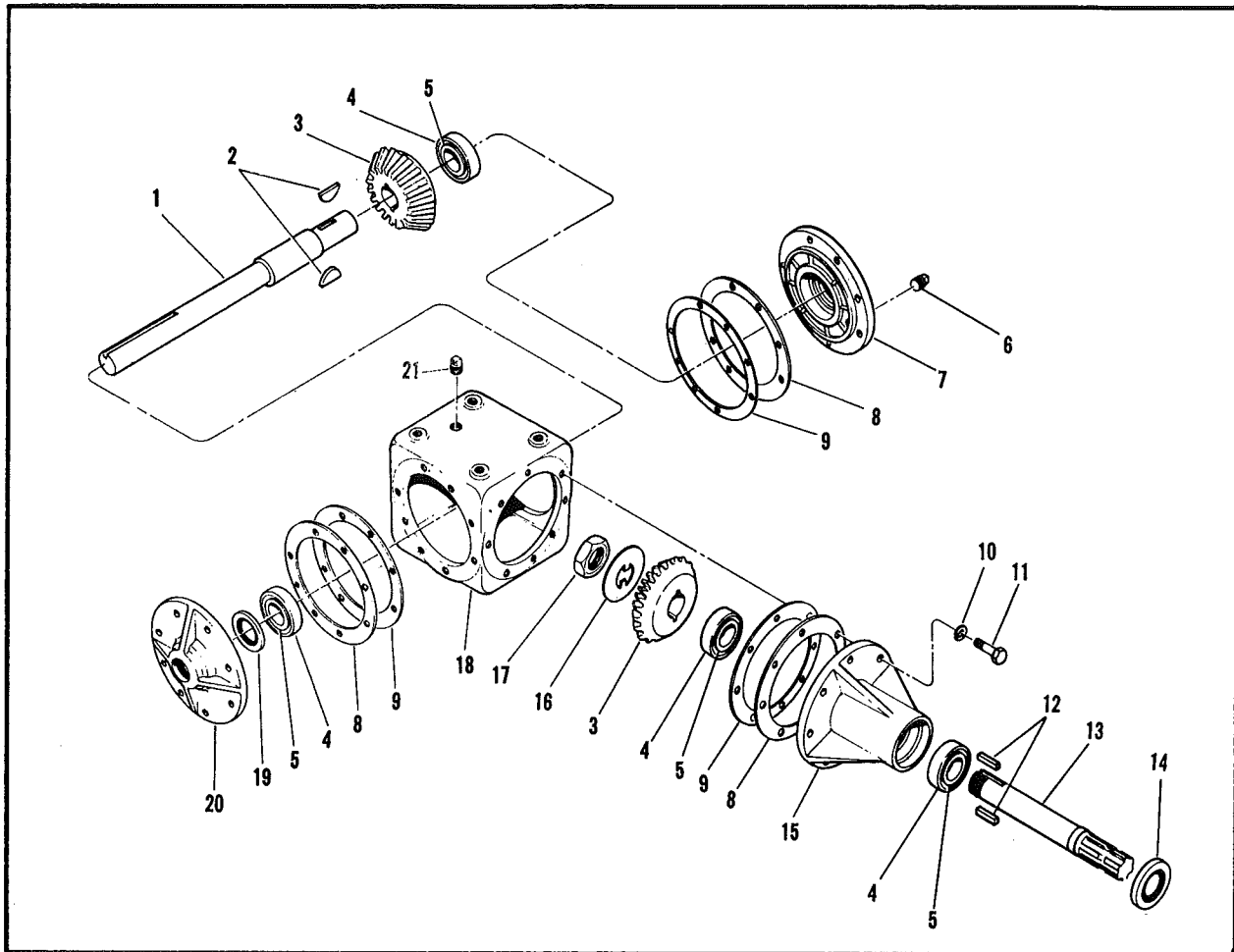


FIGURE 27.

GEAR BOX

Part No. 0916604

REF. NO.	PART	DESCRIPTION
1.	0926620	Output Shaft, Gear Box
2.	0018988	Woodruff Key, 3/8 x 1-1/2"
3.	0926500	Bevel Gear
4.	0926000	Bearing Cup
5.	0926001	Bearing Cone
6.	0026605	Oil Level Plug
7.	0927654	Cover, Solid, Gear Box
8.	0926607	Gasket Shim, .005 Thick
9.	0926608	Gasket Shim, .010 Thick
	0926609	Gasket Shim, .020 Thick
10.		1/2" Lockwasher
11.		1/2-13 x 1-1/2" lg. Hex Bolt
12.	0015134	Key, 3/8 x 3/8 x 1-3/8" lg.
13.	0926603	Input Shaft
14.	0926605	Grease Seal
15.	0927655	Hub
16.	0928252	Lock Washer
17.	0928251	Nut, Input Shaft
18.	0927652	Gear Housing
19.	0926606	Grease Seal
20.	0927653	Cover, Gear Box Output
21.	0026607	Plug Vent

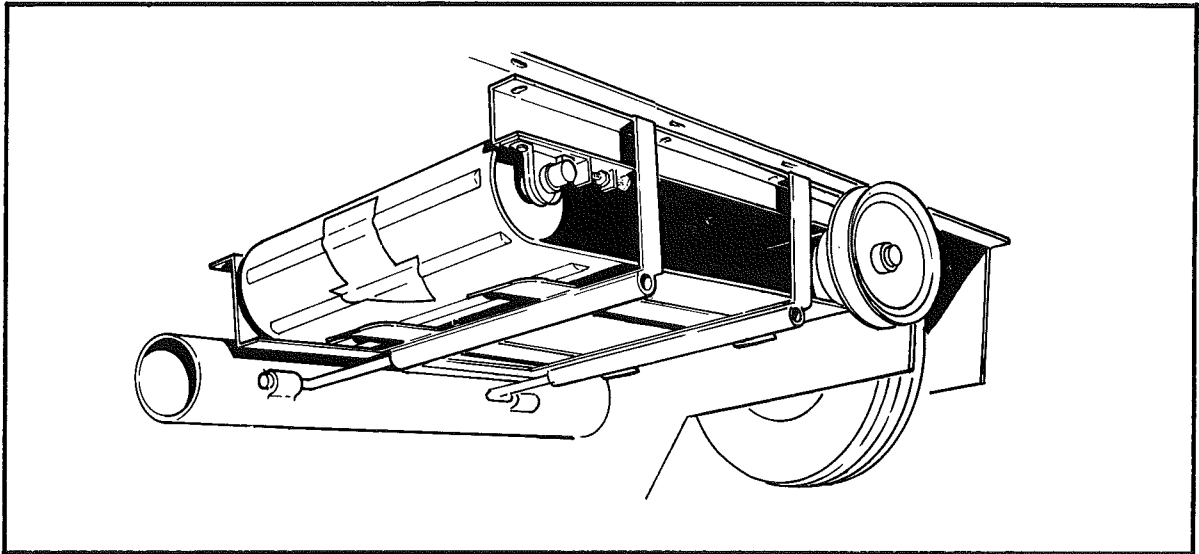


FIGURE 28.

WINDROWING CONVEYOR ASSEMBLY KIT FOR MODEL 7A

Part No. 0939007

Replaces standard windrow wings in model 7A for better windrowing in all crops. Windrow is made slightly offset from center to allow use of tri-cycle tractor.

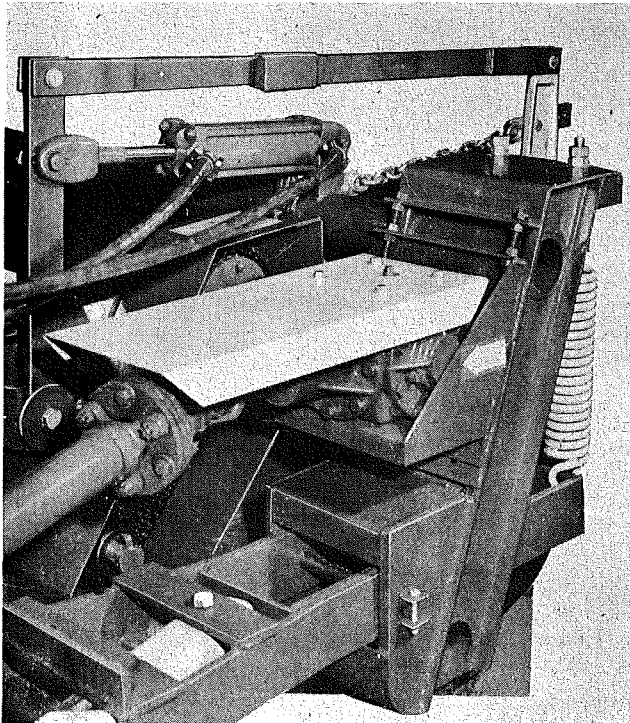


FIGURE 29.

**HYDRAULIC RAM KIT
FOR MODELS 6A, 7A and 10A**

Part No. 0939005

For attaching standard hydraulic cylinder in place of mechanical ram. Hydraulic Cylinder and Hoses not included.

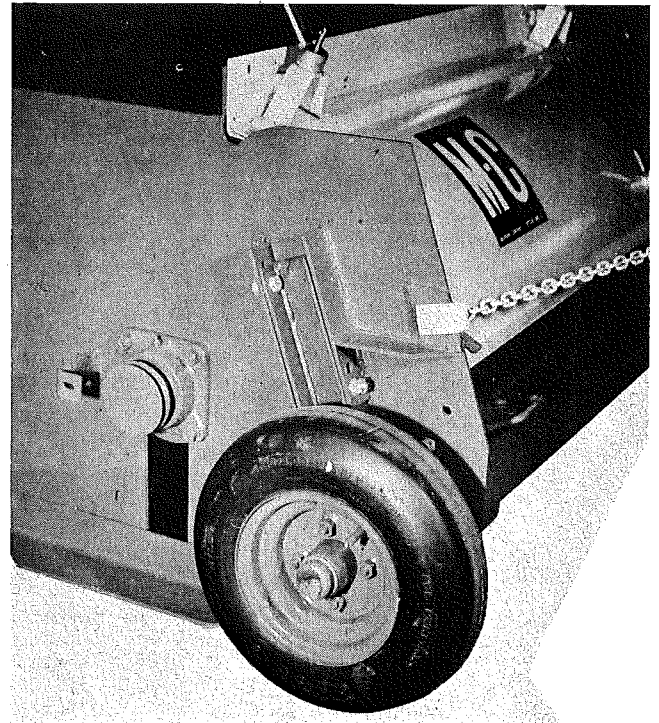


FIGURE 30.

**GAUGE WHEEL KIT
FOR MODELS 6A, 7A and 10A**

The adjustable gauge wheel assures proper flotation in rough fields, in irrigated hay lands having borders and ditches, and in areas where soft soil conditions prevail.

Kit, No. 093008 for Models 6A and 7A

Kit, No. 093006 for Model 10A