

# M-C

## ROTARY SCYTHE

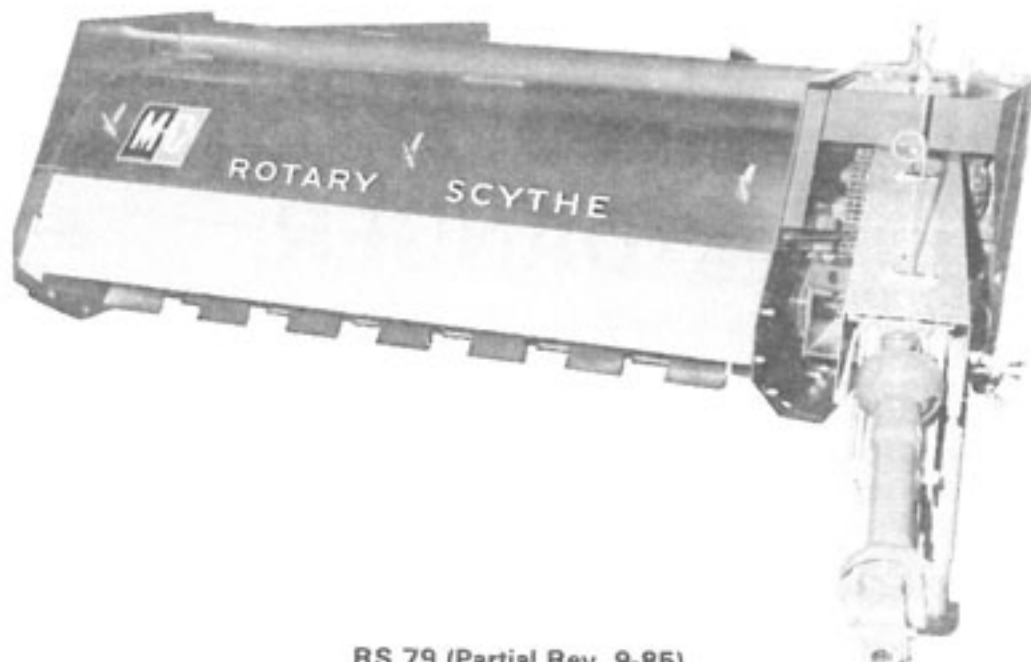
### OPERATOR'S MANUAL

**MODEL 7 E**

**MODEL 9 E**

**MODEL 12 E**

FROM SERIAL NO. 30384



RS 79 (Partial Rev. 9-85)  
RS 211

Printed in U.S.A.

MANUFACTURED UNDER PATENT NOS. 2999346, 3035393, 3159957 AND 3159959. OTHER PATENTS PENDING.

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**INSTRUCTIONS FOR ORDERING PARTS:**

1. ALL PARTS MUST BE ORDERED FROM YOUR DEALER.
2. GIVE MODEL NUMBER and SERIAL NUMBER that is stamped on the NAME PLATE of your machine.
3. Order from your PARTS LIST, found below each illustration, 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. When necessary to determine left or right, stand behind the Rotary Scythe and look at the windrow baffles.
4. NOTE: The Company reserves the right to incorporate any changes in design without obligation to make these changes on units previously sold.

**DANGER**

1. KEEP ALL SHIELDS IN PLACE.
2. STOP ENGINE BEFORE LEAVING OPERATOR'S POSITION TO ADJUST, LUBRICATE, CLEAN, OR UNCLOG MACHINES, UNLESS OTHERWISE SPECIFICALLY RECOMMENDED IN THE "OPERATOR'S MANUAL".
3. WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING THE MACHINE.
4. KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
5. KEEP OFF EQUIPMENT UNLESS SEAT OR PLATFORM FOR OPERATION AND OBSERVATION IS PROVIDED.
6. KEEP ALL OTHERS OFF.
7. USE FLASHING WARNING LIGHTS WHEN OPERATING ON HIGHWAYS EXCEPT WHEN PROHIBITED BY LAW.
8. MAKE CERTAIN EVERYONE IS CLEAR OF MACHINE BEFORE STARTING ENGINE OR OPERATION.

**IMPORTANT**

To facilitate shipment of your M-C Rotary Scythe, certain parts were shipped loose and must now be assembled to your machine.

CHECK TO MAKE SURE THAT YOU HAVE RECEIVED ALL PARTS LISTED ON YOUR SHIPPING DOCUMENTS  
..... MAKE CLAIMS FOR ANY SHORTAGES IMMEDIATELY.

BEFORE ATTEMPTING TO ASSEMBLE OR OPERATE YOUR MACHINE, READ ALL ASSEMBLY AND ADJUSTMENT INSTRUCTIONS COMPLETELY.

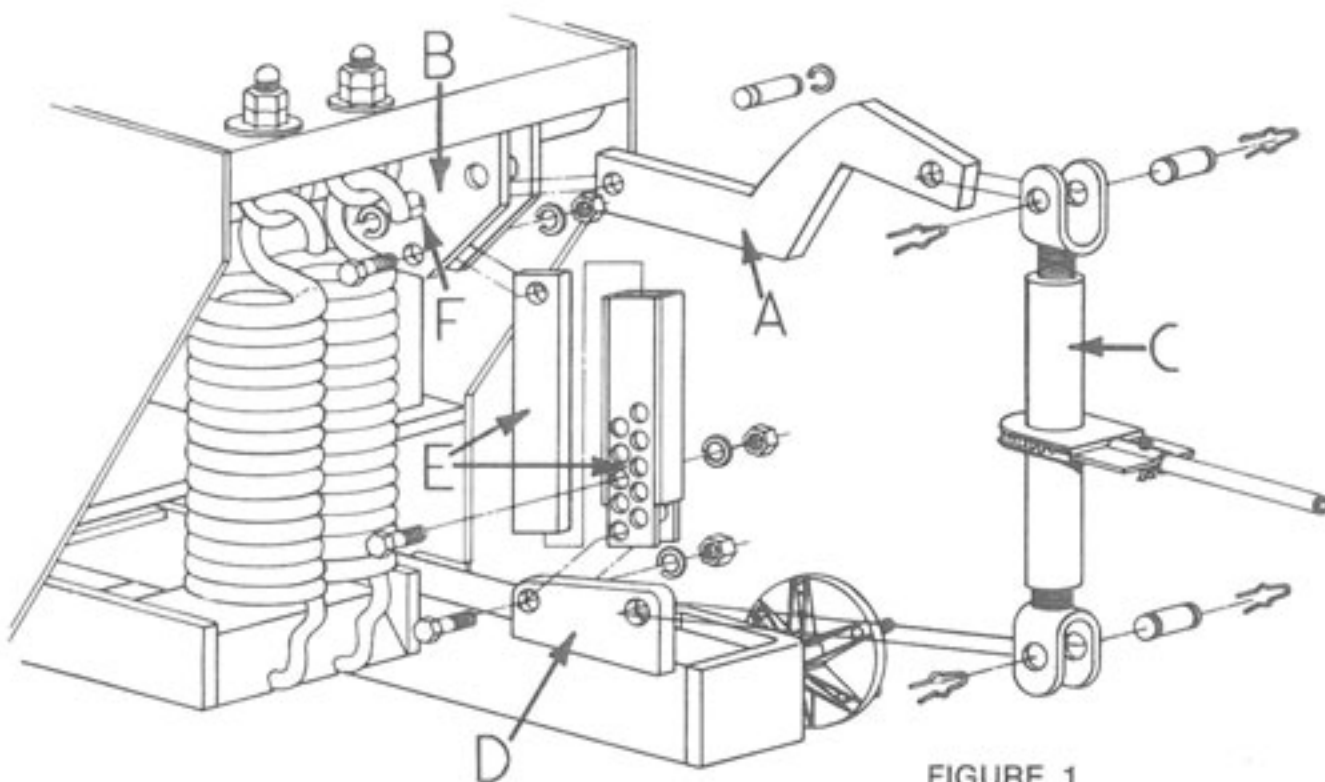


FIGURE 1

**RATCHETING JACK OR RAM ARM ASSEMBLY:**

(See Figure 1)

**STEP No. 1** — Mount the Jack Arm (A) as pictured to the End Frame (B) with 1" pin provided, thru Hole F. Secure this pin with the Snap Rings provided.

**STEP No. 2** — Mount the optional Mechanical Ratcheting Jack (C) to the Axle Mount (D) and Jack Arm. Secure with pins and hair pin clips provided in the Jack. When using a Hydraulic Ram, secure in the same manner, keeping the Hydraulic Hose at the Top End of Ram.

**STEP No. 3** — Telescope the upper section of the Ram Stop (E) together and mount to the Axle and End Frame as shown. Fasten with 5/8-11 x 2-1/2 bolts, lockwashers, and nuts at each end, making sure the Lower Section is installed as shown. The Ram Stop MUST telescope at ALL times.

**STEP No. 4** — Mount wheels.

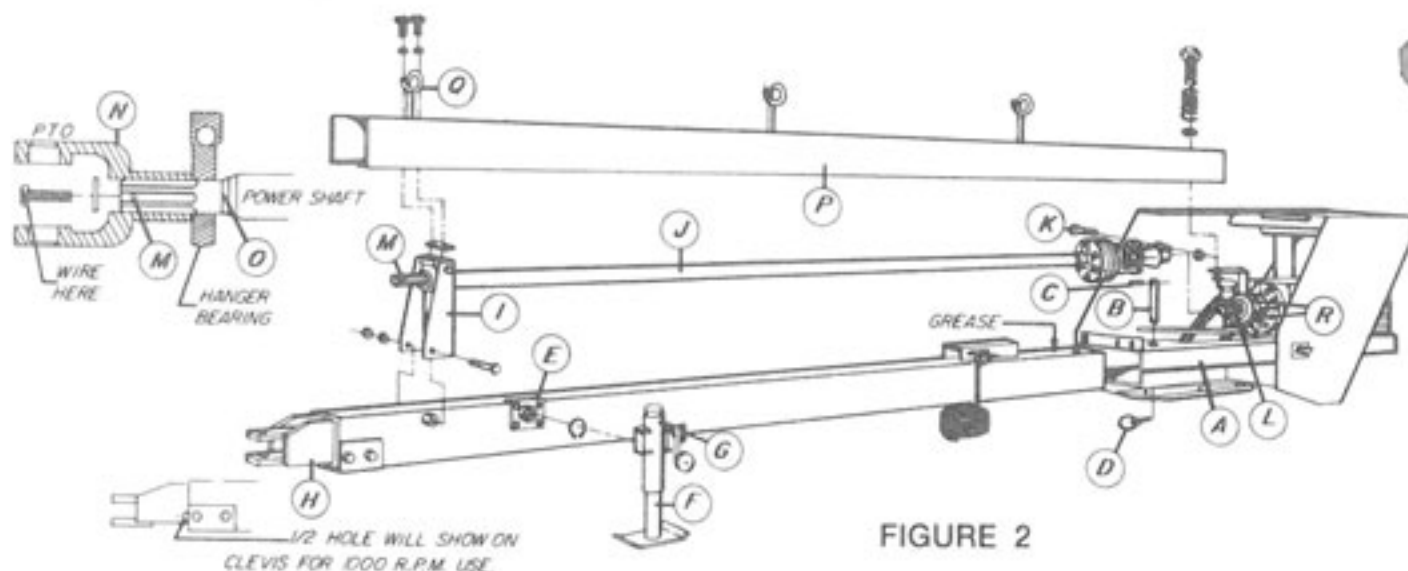


FIGURE 2

## POLE AND JACK ASSEMBLY

(See Figure 2)

Before assembly, remove the bag of hardware and check with packing list.

**STEP No. 1** — Grease area shown in figure 2. Slide the Pole into the Floating Frame (A). Align the hole in the Floating Frame with the one in the Pole and secure with 1" x 8-1/8" Pole Pin (B). Fasten with 1/4" Klick Pin (D).

**STEP No. 2** — Slip the Jack (F) onto plate (E). Place the snap ring firmly in the groove all around. Jack can now be lowered using Handle (G).

**STEP No. 3** — For 540 RPM, the adjustable Clevis (H) should be in the inner most position. For 1000 RPM the Clevis should be moved 1" to the outer most position. (See Detail.)

## POWER SHAFT ASSEMBLY

(See Figure 2)

**STEP No. 1** — Mount the PTO Bearing Bracket Assembly (I) as illustrated onto the Pole using the 5/8" 11 x 7 Bolts. Secure with two nuts and adjust so bracket can pivot on pole.

**STEP No. 2** — Slide the long Power Shaft into the PTO Bearing Bracket Assembly.

**STEP No. 3** — Remove the Bolt (K) from the rear Yoke. Slide the Power Shaft onto the Splined Shaft (L) of the Gear Box. Replace the Bolt. Tighten with Lock Washer and Nut.

**STEP No. 4** — Slide the PTO Shaft (N) onto the Splined end of the Power Shaft. NOTE: THE PTO SHAFT YOKE WILL ONLY FIT ON THE SPLINE IN ONE POSITION. THE BLANK SPLINE IN THE PTO YOKE MUST BE IN POSITION SO IT WILL FIT OVER THE WELDED TIMING LUG (M) BETWEEN THE SPLINES OF THE POWER SHAFT. Secure with 1/2-20 x 1-1/4" HHCS, and Flat Washer. "TIGHTEN SECURELY", make sure that the P.T.O. Bearing makes contact with the shoulder at rear (O). Now thread wire through the head of this bolt and fasten to the yoke of the PTO.

**REAR DEFLECTOR ASSEMBLY** (See Figure 3)

**STEP No. 1**—Remove the Rear Deflector Adjusting Arm (A) from the shipping position. Bolt into position and tighten with lock washers and nuts. Raise the Rear Deflector (B) and line it up with the slot in the Rear Deflector Adjusting Arm. Fasten with bolt, flat washer, and nut.

**STEP No. 2**—To adjust, see Rear Deflector Adjustment on page 5.

YOUR ROTARY SCYTHE IS NOW COMPLETELY ASSEMBLED. BEFORE OPERATING YOUR MACHINE, THERE ARE SOME ADJUSTMENTS TO BE MADE ON IT. READ YOUR ADJUSTMENT INSTRUCTIONS AND OPERATING TIPS CAREFULLY.

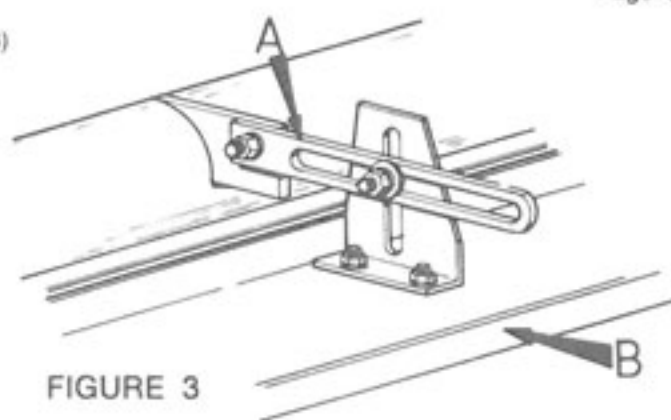


FIGURE 3

# Adjustment Instructions

Do Not Make Any Adjustments While Machine Is Operating Or While Tractor Is Running.

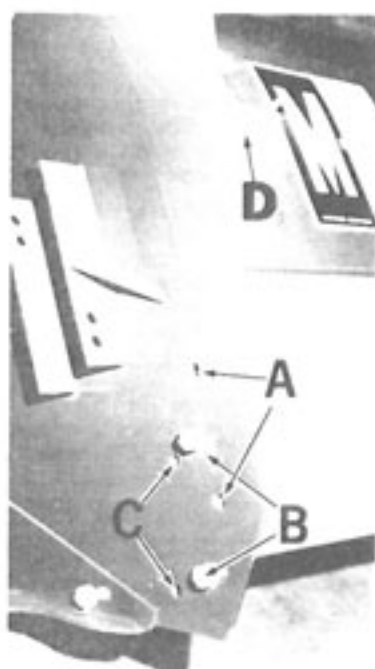


FIGURE 4

**FRONT COVER ADJUSTMENT:**

(See Figure 4)

There are three Front Cover positions (A) (B) (C) on your Scythe. It is shipped in the center position (B). This position will usually accommodate average crops. For heavier crops, loosen, but do NOT remove, the Special Clamping Nuts (D). Remove the Bolts (B) and raise the Cover to the upper-most position (A). Replace the two nuts and bolts. Retighten the Special Clamping Nuts. For lighter crops, follow the same procedure, moving the Cover to the lowest position (C).

**TRACTOR DRAW BAR ADJUSTMENT:**

(See Figure 5)

To get the minimum amount of vibration and prolong the life of the bearings in the P.T.O. Shaft, Distance (A) should be 14" from end of the tractor P.T.O. Shaft to hole in tractor Draw Bar for the 540 RPM operation and 16" from end of the tractor P.T.O. Shaft to hole in tractor Draw Bar for 1000 RPM operation. To do this, move the tractor Draw Bar either in or out. The Pole Clevis must be in the inner most position for the 540 RPM Drive and the out most position for the 1000 RPM Drive.

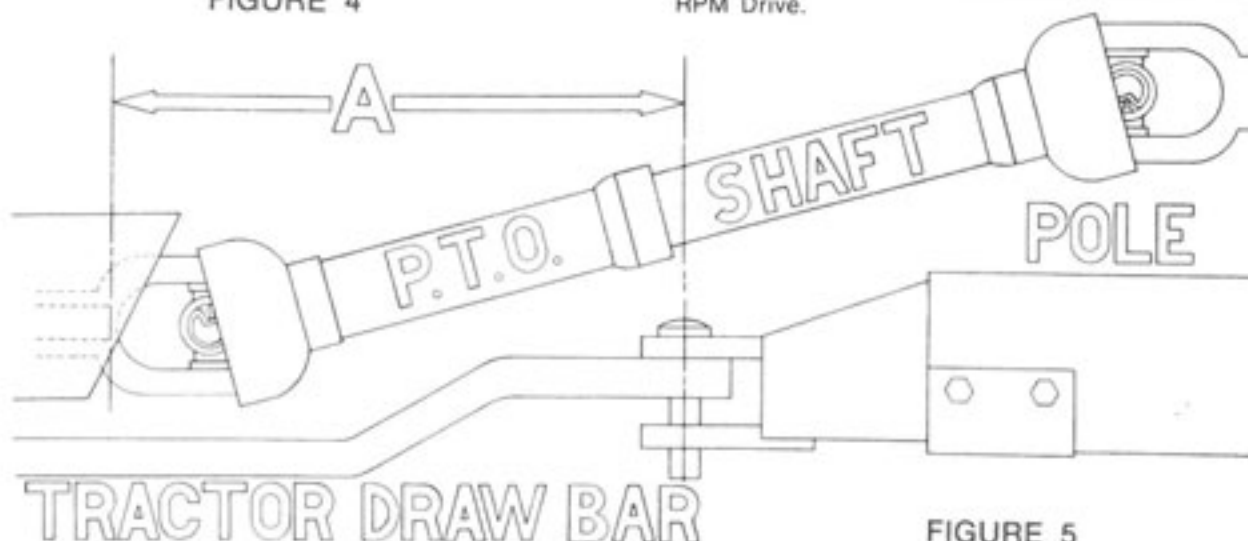


FIGURE 5

## LEVELING, FLOATATION AND CUTTING HEIGHT ADJUSTMENT:

(See Figure 6)

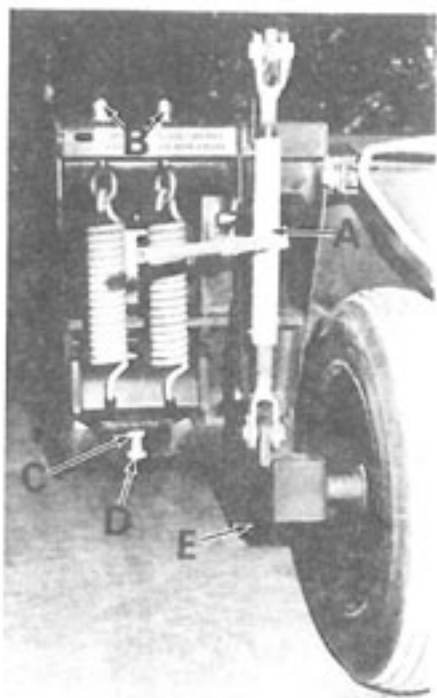


FIGURE 6

1. On a level area, hitch the Rotary Scythe to the tractor that will operate it. The following adjustments must be made each time the Rotary Scythe is hooked up to a tractor that has a different drawbar height. **THIS IS IMPORTANT.**
2. Adjust the height of the Rotary Scythe with either the mechanical or hydraulic ram, until the anti-scalp roller is One inch above the ground. This roller must be free to turn, and when making this adjustment, do not have any objects under it, such as a one inch board.
3. Adjust tension on the large springs by turning the nuts (B) on the eye bolts until the following approximate measurements are on both springs. For ease of adjusting, we advise putting oil on the eye bolt threads, and between the nuts and flatwashers.
  - 7-E Eye bolt threads halfway up into the top locknut.
  - 9-E Eye bolt threads  $\frac{1}{2}$ " above the top locknut.
  - 12-E Eye bolt threads  $\frac{3}{4}$ " above the top locknut.
4. With the Rotary Scythe PTO shaft disconnected from the tractor, turn the rotor by hand until one row of knives are hanging straight down.
5. Loosen the locknut (C). Apply oil to the threads and end of bolt (D). If there is a space between the end of bolt (D) and the bumper pad, it indicates that there is still too much tension on the springs as specified in paragraph 3. Turn bolt (D) into the stationary nut to raise the knives, and out to lower the knives. For normal ground conditions the cutting edge of the knives should be 2 inches above the ground when the anti-scalp roller is 1 inch above the ground. For extremely uneven ground conditions, adjust the cutting edge of the knives up another inch. Lock the locknut (C) after adjustments have been made.
6. To put the final adjustment on the spring tension, lift on the yellow front cover across the front of the Rotary Scythe to determine how many pounds of lift are needed before the springs help carry the weight of the machine. It should require approximately 75 pounds for the 7E, 100 pounds for the 9E, and 125 pounds for the 12E. The tension of the springs should never be tight enough to cause the front of the Rotary Scythe to bounce. If at any time there is enough tension put on the springs to cause a space between the end of the bolt (D), and the bumper pad, this will cause the Rotary Scythe to bounce on rough ground, or rise up in heavy hay. This produces a shaggy, uneven cut. When the spring tension is close to ideal, as little as  $\frac{1}{4}$  turn on both spring eye bolts will make a difference on the weight of the front cover. If you can push down on the front right skid with your foot and make the Rotary Scythe bounce, there is too much tension on the springs. **BE SURE TO LOCK THE TOP NUT (B) WHEN ALL ADJUSTMENTS ARE DONE.**
7. When in the field, adjust the cutting height with the height adjusting ram. When satisfactory, select a hole in the ram stop and put a bolt into it so the Rotary Scythe can't be accidentally lowered past that point.
8. If you were in a rough, stoney field with a sickle bar mower and you broke a sickle section or a guard, you would have to stop and repair it. After you did this once or twice, you would raise the cutter bar to try to avoid these breakdowns so you could keep mowing. Just because you can hit a stone or rough ground with the Rotary Scythe and keep on cutting, without stopping or plugging it, doesn't mean you should pound stones continually. Treat the Rotary Scythe as you would a sickle bar. Adjust the cutting height of the Rotary Scythe up a little and you will still get more hay and more non-stop mowing than you have ever before experienced.

## WINDROW BAFFLE ADJUSTMENT:

(See Figure 7)

The Windrow Baffles adjust vertically and horizontally. The vertical adjustment depends on field conditions and height of cut. The bottom edge of the Baffles should not be dragging on the ground. To do this, move the Baffle Adjusting Bolt (A) forward or backward until Baffles are level. For rough fields, set them higher. Horizontal adjustment determines the windrow width. To adjust this, loosen the four Special Clamping Bolts (B) that hold the Baffle Adjusting Rods (C) and manually move the Baffles in or out to the desired windrow width. Retighten the Clamping Bolts.

## REAR DEFLECTOR ADJUSTMENT:

(See Section 1, Page 3, Figure 3 and Page 5, Figure 7)

The Rear Deflector (D) is designed to reduce leaf loss and provide a better windrow. The Rear Deflector will pivot from a horizontal position to a vertical position and should be adjusted according to your crop. The Deflector should be adjusted downward for the angle that produces the fluffiest swath or windrow. If at too much downward angle, the hay will start bunching. **NOTE:** When windrowing with the 12E, this Rear Deflector must be parallel to the ground so the windrow will start to form towards the discharge end of the Windrow Baffle.



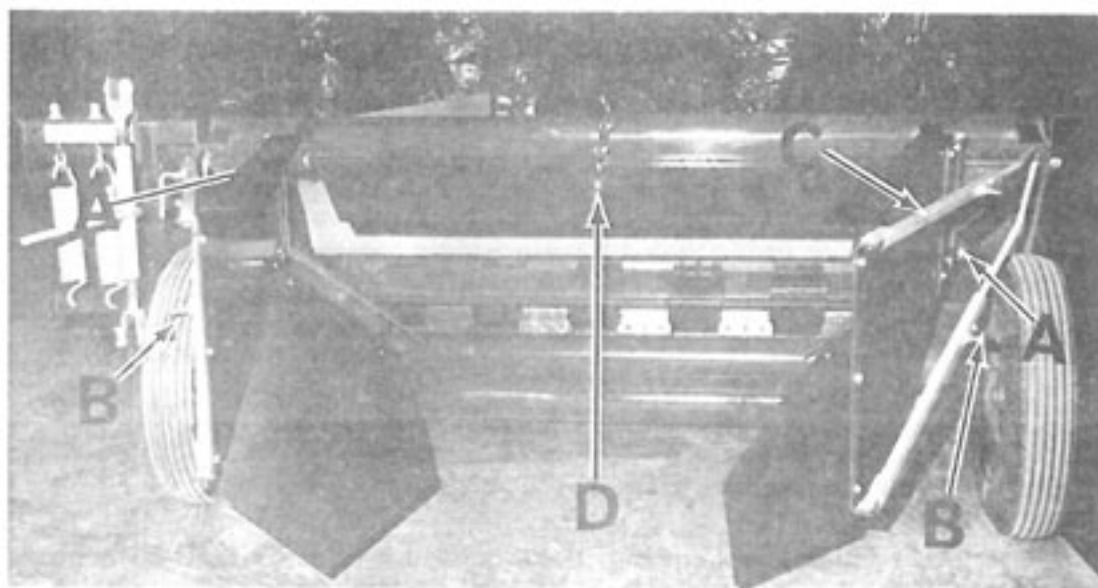


FIGURE 7

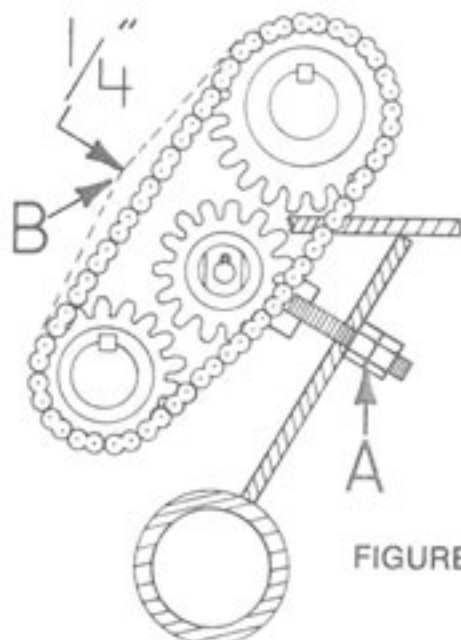


FIGURE 8

**CHAIN ADJUSTMENT:**

(See Figure 8)

After the initial 1 to 2 hours of operation, the chain will require an adjustment.

**STEP No. 1** — Make sure all Sprockets are in proper alignment and set screws are tight.

**STEP No. 2** — Loosen large nut in idler sprocket stub shaft. Adjust Chain with Adj. Nuts (A) until approximately  $\frac{1}{4}$ " play is at point (B). Retighten large nut in idler sprocket stub shaft and lock nuts (A).

**CAUTION:** At no time should Chain have less than  $\frac{1}{4}$ " play.

**IMPORTANT:**

**NOW THAT YOUR MACHINE IS SET UP AND ALL SAFETY EQUIPMENT IS INSTALLED, RUN IT AT A LOW RPM CHECKING TO MAKE SURE THAT ALL DRIVE LINE PARTS ARE MOVING FREELY.**

# Operating Tips

By following the suggestions in OPERATING TIPS, you will be able to PROLONG the LIFE of your Rotary Scythe and get the MOST EFFICIENT and EFFECTIVE results.

- BEFORE ATTEMPTING to make ANY INSPECTION, BE SURE to DISENGAGE the P.T.O. and STOP the tractor engine.
- AFTER MOWING approximately 10 to 15 acres, the inside of the machine and the blades will become polished and will give you the best performance.
- AFTER OPERATING for a few hours, check to MAKE SURE that all nuts and bolts are TIGHT.
- AFTER OPERATING for one to two hours, the Drive Chain Tension will need to be adjusted. DO NOT operate with the Drive Chain too loose as it will cause excessive wear to the chain and sprockets.
- AFTER OPERATING for one to two hours, check to MAKE SURE that ALL Knife Blades are secure.
- DO NOT attempt to adjust the cutting height with the Floatation Springs at the rear of the machine or with the 1" Leveling Bolt directly below.
- ADJUSTMENT of the cutting height should ONLY be made by ADJUSTING the Mechanical Ram or using the Tractor Remote Hydraulic Cylinder.
- ALTHOUGH the machine is of very RUGGED construction, excessive ABUSE caused by ROCKS and other OBSTRUCTIONS will result in EXCESSIVE WEAR and costly REPAIR to the ROTOR and BLADES.
- YOUR MACHINE IS EQUIPPED with a Gauge Roller to prevent the machine from scalping the ground. The Gauge Roller IS NOT designed to carry the WHOLE weight of the machine for a long period of time.
- WITH A ground speed of 3 to 6 m.p.h. and 540 or 1000 RPM P.T.O. speeds, the 7E requires a minimum of 40 horsepower and the 9E requires a minimum of 50 horsepower, and the 12E requires a minimum of 75 horsepower. The horsepower requirement is REDUCED by traveling at a lower ground speed. If you get too much LEAF LOSS, REDUCE P.T.O. speed and INCREASE ground speed. The proper variation of ground speed and P.T.O. speed will produce the best results. Horsepower requirements will vary with different crop conditions.
- TO RECONDITION or DRY hay FASTER during damp weather, the following procedure is recommended: Make a 2nd pass over the field using a reduced throttle speed and a high ground speed with machine height adjusted as high as possible and still pick up the swath or windrow. This will pick up and FLUFF the hay, drying it much FASTER than if turned over with a rake.
- DO NOT EXCEED the 540 RPM P.T.O. speed on 540 RPM models.
- DO NOT EXCEED the 1000 RPM P.T.O. speed on 1000 RPM models.



# Maintenance

## SHARPENING ROTOR BLADES:

**STEP No. 1** — Secure the Rotor. Line up the bank of Knives with the slot below the Rotor Bearing.

**STEP No. 2** — Remove the End Locator Bracket and slide the Knife Hanger Rod out allowing the Knives to drop off.

**STEP No. 3** — Sharpen the Blades. DO NOT sharpen the front edge. BE SURE to retain the original angle (30°) of the cutting edge. REPLACE any damaged Blades, operating with damaged Blades can cause Rotor imbalance.

**STEP No. 4** — Replace the Knife Blades, Knife Hanger Rod, and End Locator Bracket. MAKE SURE the dished or concave side of the Blades, when hanging down, are facing the front of the machine and will swing freely.

## SAFETY SHEAR PIN DEVICE:

The two Safety Shear Bolts fasten the Drive Sprockets to the Shear Flange on the Gear Box Output Shaft. These Shear Bolts are designed to PROTECT the Gear Box Drive Chain and must be used. DO NOT USE HARDENED BOLTS FOR A SUBSTITUTE.

## FOR WINTER STORAGE:

Before storing your Scythe, grease all of the Bearings to eliminate any cavities where condensation may occur. It is also advisable to coat all the exposed surfaces of the inside of the machine with oil or grease to prevent rusting and pitting during storage.

# Lubrication

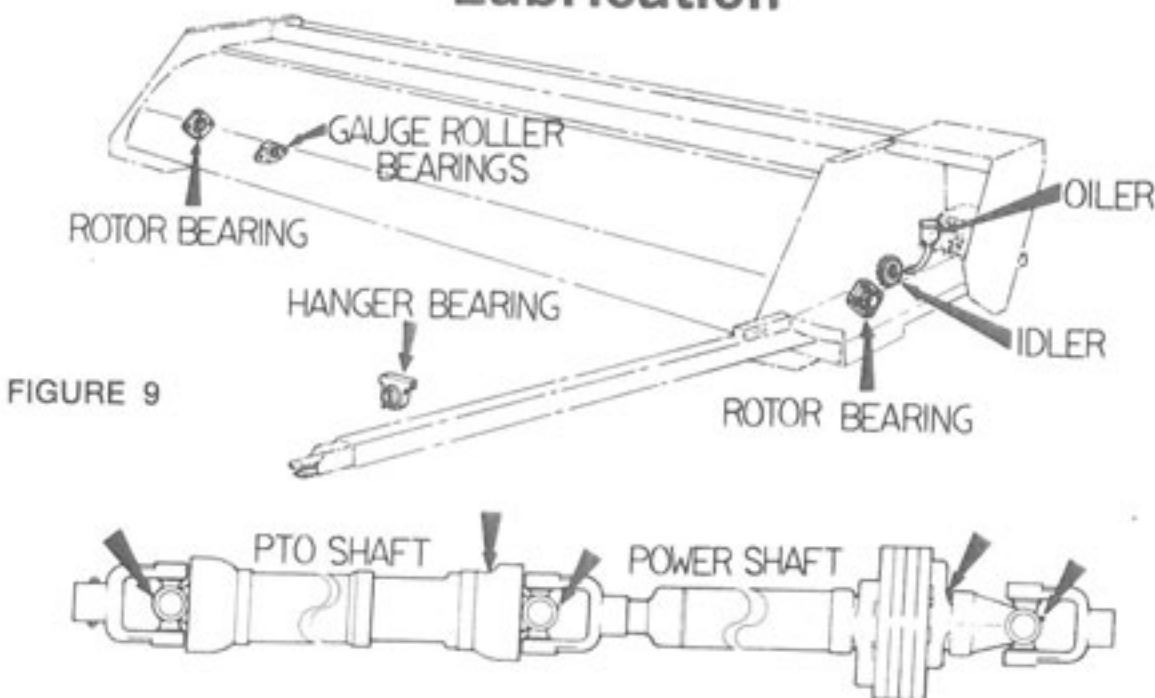


FIGURE 9

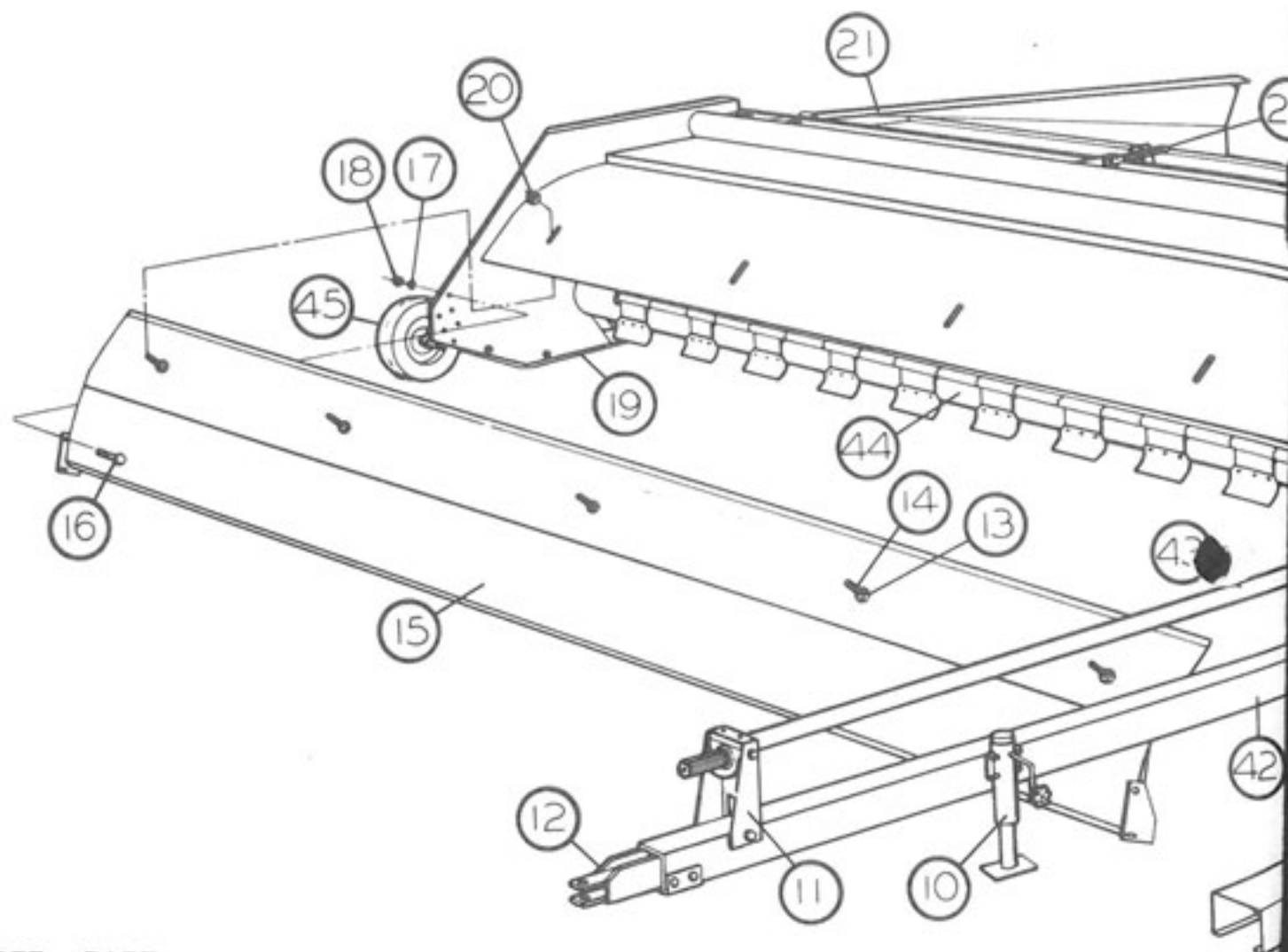
**CHECK THE OIL LEVEL IN THE GEAR BOX REGULARLY.** To check it, remove the Oil Level Plug. If at the proper level, the oil will run out of this hole. If not at the proper level, remove the Filler Plug on the top of the Gear Box and bring up to oil level plug with Mobilfluid 423 multipurpose transmission lubricant or equivalent.

**CHECK THE OIL LEVEL IN THE CHAIN OILER BEFORE EACH OPERATION.** If not full, fill with light engine oil or an equivalent. BE SURE the Oiler is positioned so that the oil will drop between the double row of chain.

IF MACHINE IS IN CONSTANT USE, LUBRICATE ALL POINTS DESIGNATED BY ARROWS IN FIGURE 9 DAILY. USE GREASE SPARINGLY TO AVOID DAMAGING BEARING SEALS.

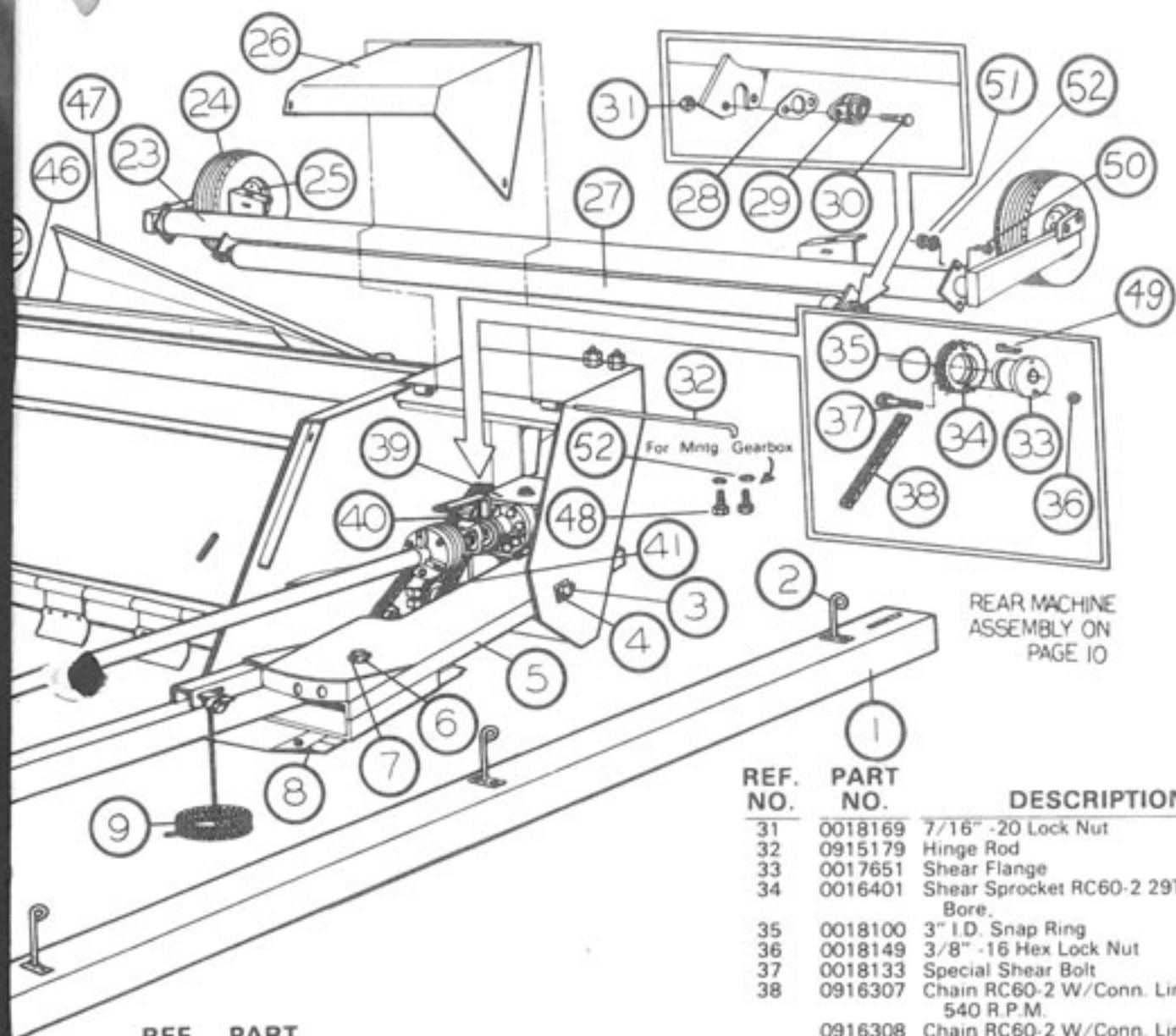
## PARTS LISTS

## MACHINE MAIN ILLUSTRATION



REF. NO.	PART NO.	DESCRIPTION
1	0910267	PTO Safety Shield - 7E, 9E
	0910266	PTO Safety Shield - 12E
2	0910217	Hydraulic Hose Holder
3	0911089	Floating Frame Pin Ass'y.
4	0008259	5/16" x 1-3/4" Roll Pin
5	0910202	Floating Frame Weldment
6	0911088	Pole Pin Ass'y.
7	0008259	5/16" x 1-3/4" Roll Pin
8	0910237	Skid Left
9	0915704	Pole Rope - 144" Long - 7E, 9E
	0915711	Pole Rope - 228" Long - 12E
10	0018973	Pole Jack
11	0953458	PTO Bearing Bracket
12	0910198	Clevis Weldment
13	0008162	3/8"-16 Hex Nut
14	0918132	3/8"-16 x 2-1/4" Front Cover Bolt
15	0910193	Front Cover - 7E

REF. NO.	PART NO.	DESCRIPTION
	0910194	Front Cover - 9E
	0910250	Front Cover - 12E
16	0008137	1/2" - 13 x 1-1/4" Hex Head Cap Screw
17	0008180	1/2" Lock Washer
18	0008163	1/2"-13 Hex Nut
19	0910238	Skid Right
20	0015700	Clamping Nut
21	0911063	Windrow Baffle Assembly - Right - 7E, 9E, see page 11
	0911072	Windrow Baffle Assembly - Right - 12E, see page 11
22	0953457	Rear Deflector Adjusting Arm
23	0910232	Axle Weldment - 7E
	0910233	Axle Weldment - 9E
	0910248	Axle Weldment - 12E
24	0008999	5.90 x 15 Tubeless Tire - 7E, 9E

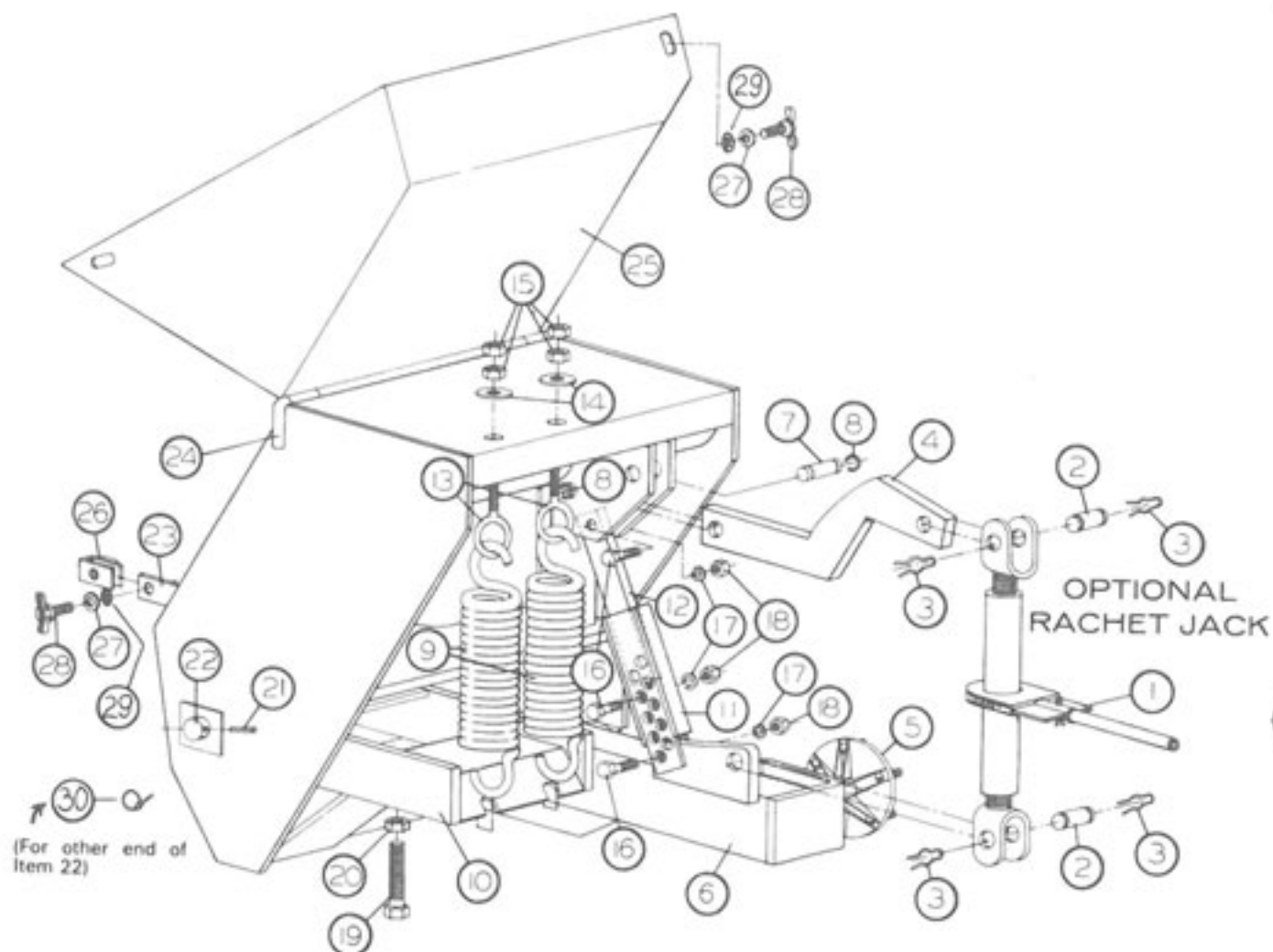


REAR MACHINE  
ASSEMBLY ON  
PAGE 10

REF. NO.	PART NO.	DESCRIPTION
	0928983	7.50 x 10 Tire & Tube - 12E - Opt. on 7E & 9E
	0918981	7.50 x 10 Tire & Tube and 10" 5 Bolt Rim - 12E - Opt. on 7E & 9E
	0001009	5.90 x 15 Tubeless Tire & 15" 5 Bolt Rim - 7E & 9E
25	0018993	15" Rim 5 Bolt - 7E, 9E
	0928984	10" Rim 5 Bolt - 12E - Opt. on 7E & 9E
26	0910222	Gear Box Cover - All 7E & 9E, 12E Below S/N 42306
	0911099	Gear Box Cover w/Flap - 12E S/N 42306 & Up
27	0910100	Gauge Roller Weldment - 7E
	0910210	Gauge Roller Weldment - 9E
	0910247	Gauge Roller Weldment - 12E
28	0914454	Bearing Shim
29	0006001	2 Bolt Flange Bearing
30	0008133	7/16" - 20 x 1-3/4" Hex Head Cap Screw - Grade 5

REF. NO.	PART NO.	DESCRIPTION
31	0018169	7/16" - 20 Lock Nut
32	0915179	Hinge Rod
33	0017651	Shear Flange
34	0016401	Shear Sprocket RC60-2 29T x 3-1/4" Bore.
35	0018100	3" I.D. Snap Ring
36	0018149	3/8" - 16 Hex Lock Nut
37	0018133	Special Shear Bolt
38	0916307	Chain RC60-2 W/Conn. Link - 540 R.P.M.
	0916308	Chain RC60-2 W/Conn. Link - 1000 R.P.M.
	0026303	RC60 Connecting Link w/spring clip
39	0916608	Gear Box, see page 14
40		Oiler Illustration, see page 14
41		Idler Illustration, see page 13
42		Pole Illustration, see page 13
43		Power Shaft, see page 15
44		Rotor Assembly, see page 12
45	0901001	Gauge Wheel Assembly, see page 17
46		Rear Deflector, see page 11
47	0911064	Windrow Baffle Assembly - Left - 7E, 9E, see page 11
	0911071	Windrow Baffle Assembly - Left - 12E, see page 11
48	0918170	5/8" - 11 x 1-3/4" Hex Head Cap Screw - W/Nylock - Grade 5
49	0018266	3/8" x 3/8" x 3" Gib Key
50	0008146	5/8" - 11 x 1-1/2" Hex Head Cap Screw - Grade 5
51	0008164	5/8" - 11 Hex Nut
52	0008181	5/8" Lockwasher

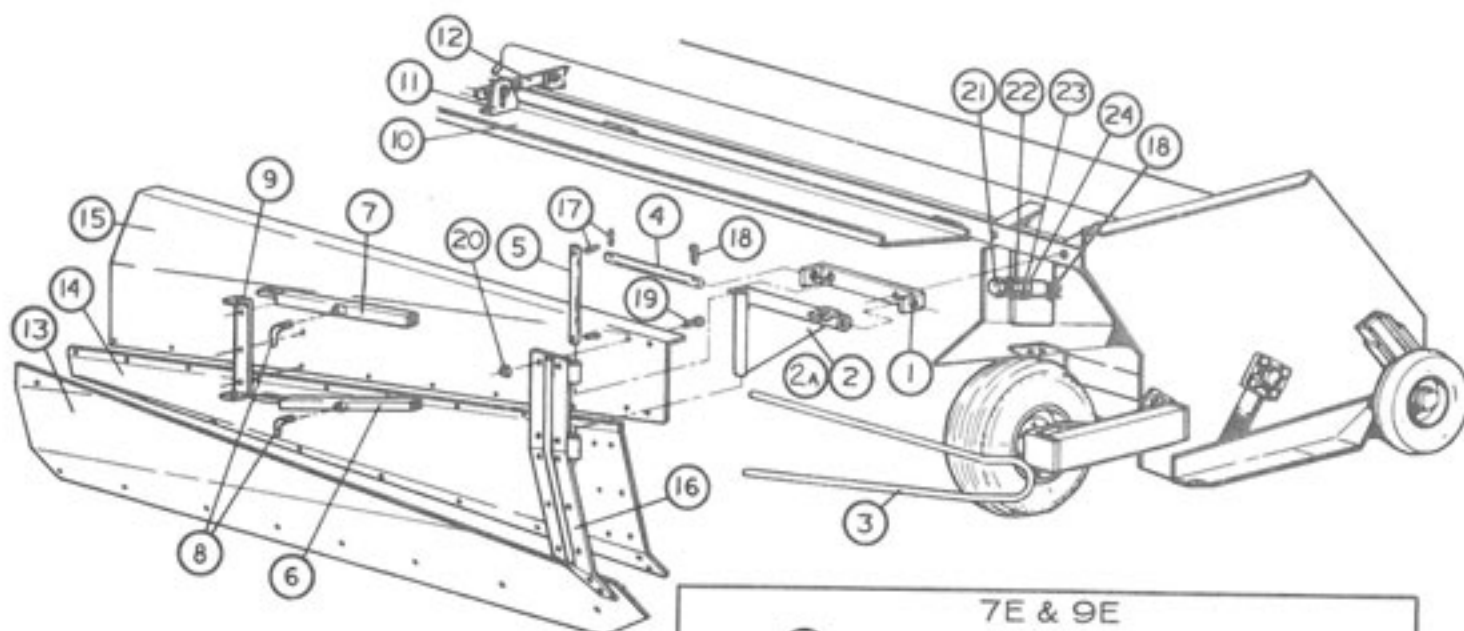
## MACHINE REAR ILLUSTRATION



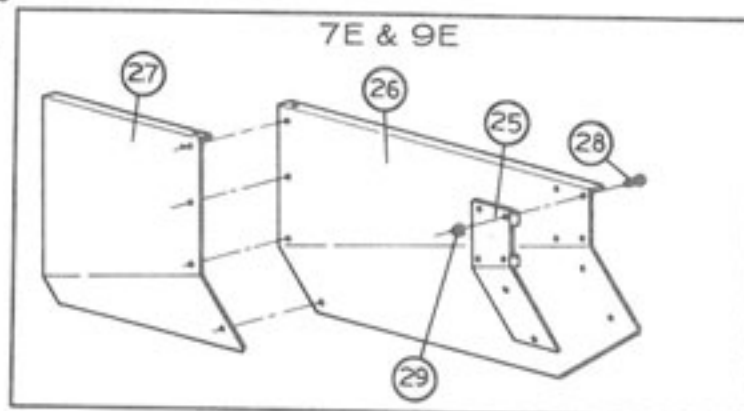
REF. NO.	PART NO.	DESCRIPTION
1	0018985	Mechanical Ratchet Jack (Optional)
2	0028254	Ratchet Jack Pin (1" x 2 3/4")
3	0028253	Pin Clip
4	0913709	Jack Arm
5	0018992	Hub Assembly
6	0910232	Axle Weldment - 7E
	0910233	Axle Weldment - 9E
	0910248	Axle Weldment - 12E
7	0008230	Ram Pin
8	0008250	Ram Pin Stop Ring
9	0918255	Extension Spring 9/16" x 14"
10	0910202	Floating Frame Weldment
11	0910225	Ram Stop - Bottom Section
12	0913675	Ram Stop - Top Section
13	0918187	Eye Bolt 3/4"-10 x 4-1/2"
14	0008177	3/4" Flat Washer

REF. NO.	PART NO.	DESCRIPTION
15	0008165	3/4"-10 Hex Nut
16	0008150	5/8"-11 x 2-1/2" Hex Head Cap Screw
17	0008181	5/8" Lock Washer
18	0008164	5/8"-11 Hex Nut
19	0918232	1"-8 x 6" Full Thread Hex Head Cap Screw
20	0918231	1"-8 Hex Nut
21	0008259	5/16" x 1-3/4" Roll Pin
22	0911089	Floating Frame Pin Ass'y.
23	0913318	Gear Box Cover Mount Bracket
24	0915179	Hinge Rod
25	0910222	Gear Box Cover - All 7E & 9E, 12E Below S/N 42306
	0911099	Gear Box Cover w/Flap - 12E S/N 42306 & Up
26	0018111	Nut Retainer
27	0008173	5/16" Flat Washer
28	0018114	5/16"-18 x 3/4" Wing Screw
29	1218115	Push Nut for 5/16" Bolt
30	0918259	Klick Pin

## 12E WINDROW BAFFLE ASSEMBLY



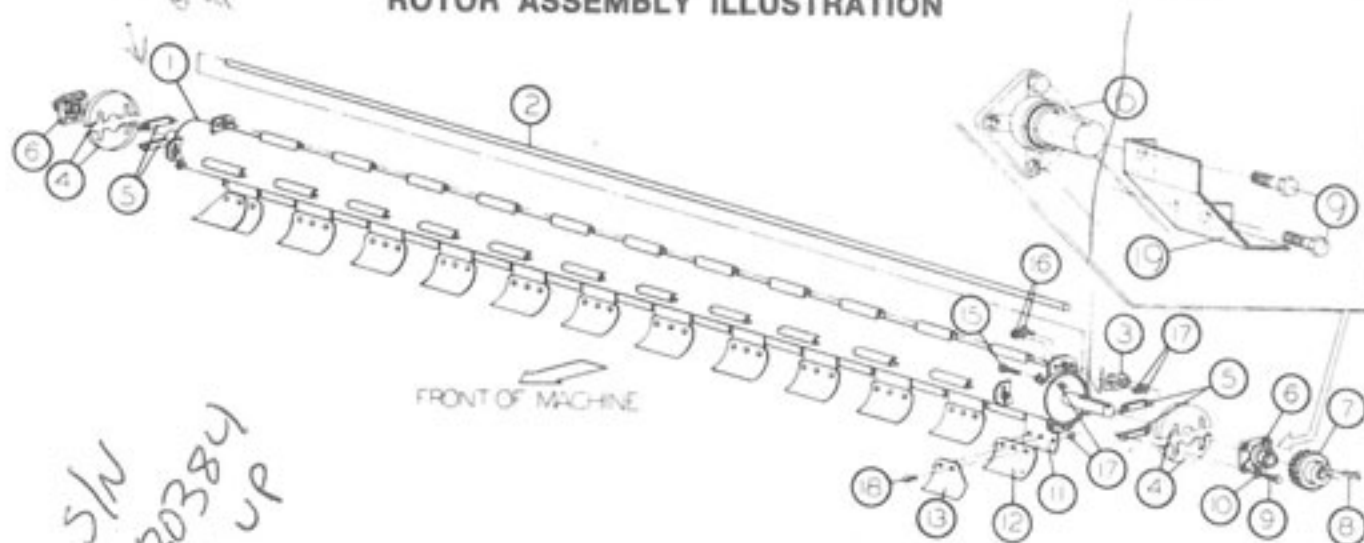
**NOTE:** Starting with Serial No. 50749  
Lower Windrow Baffle Extensions  
(ref. 13) are not standard equipment.



REF. NO.	PART NO.	DESCRIPTION
1	0913550	Mounting Bracket Windrow Baffle
2	0910228	Windrow Baffle Spindle - Rt. - 7E & 9E
	0910229	Windrow Baffle Spindle - Lft. - 7E & 9E
2A	0910271	Windrow Baffle Spindle - Right - 12E
	0910272	Windrow Baffle Spindle - Left - 12E
3	0913782	Windrow Hinge Rod
4	0911087	Windrow Baffle Hinge Pin Ass'y.
5	0911087	Windrow Baffle Hinge Pin Ass'y.
6	0910231	Adjusting Bar Weldment - Bottom
7	0910230	Adjusting Bar Weldment - Top
8	0018162	Clamping Bolt
9	0953454	Adjusting Rod Bracket
10	0910182	Rear Deflector Weldment - 7E
	0910131	Rear Deflector Weldment - 9E
	0910249	Rear Deflector Weldment - 12E
11	0914490	Rear Deflector Adjusting Bracket
12	0953457	Rear Deflector Adjusting Arm
13	0914796	Lower Windrow Baffle Extension - Left
	0914797	Lower Windrow Baffle Extension - Right
14	0914792	Lower Windrow Baffle - Left
	0914794	Lower Windrow Baffle - Right
15	0914793	Upper Windrow Baffle - Left
	0914795	Upper Windrow Baffle - Right

REF. NO.	PART NO.	DESCRIPTION
16	0910269	Hinge Weldment - Right - 12E - Use with 0910271
	0910270	Hinge Weldment - Left - 12E - Use with 0910272
17	0008259	5/16" x 1-3/4" Roll Pin
18	0008262	1/4" x 1-1/2" Cotter Pin
19	0008134	3/8"-16 x 3/4" Truss Head Screw
20	0008168	3/8"-16 Flange Whiz Lock Nut
21	0918230	1"-8 x 8" Hex Head Cap Screw, Full Thread
22	0918231	1"-8 Hex Nut
23	0918229	1/2" x 2-1/2" Rubber Washer
24	0008264	1" Flat Washer
25	0910226	Hinge Weldment - Right
	0910227	Hinge Weldment - Left
26	0914655	Windrow Baffle - Right
	0914754	Windrow Baffle - Left
27	0914789	Windrow Baffle Extension - Right - 9E
	0914790	Windrow Baffle Extension - Left - 9E
28	0008134	3/8"-16 x 3/4" Truss Head Screw
29	0008168	3/8"-16 Flange Whiz Lock Nut

# ROTOR ASSEMBLY ILLUSTRATION



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	0010005	Rotor Weldment - 7E	10	0008180	Cap Screw
	0910140	Rotor Weldment - 9E	11	0015205	1/2" Lock Washer
	0010018	Rotor Weldment - 12E	12*	0015208	Wide Knife Hanger
2	0918995	Knife Hanger Rod - 7E	13	0015206	Heavy Duty Knife Blade
	0918994	Knife Hanger Rod - 9E		0015207	End Knife - Left - 7E
	0018975	Knife Hanger Rod - 12E		0015207	End Knife - Right - 7E
3	0012000	End Locator Bracket		0015211	Heavy Duty End Knife - Left - 9E, 12E
4	0014652	Rotor Anti-Wrap Device		0015212	Heavy Duty End Knife - Right - 9E, 12E
5	0015175	Stud Anchor	15	0008125	3/8"-16 x 1-1/2" Carriage Bolt
6	0016010	4 Bolt Flange Bearing - 1-15/16" Bore	16	0008134	3/8"-16 x 3/4" Truss Head Bolt
7	0916403	Sprocket RC60-2 17T x 1-15/16" Bore 540 RPM	17	0018149	3/8"-16 Hex Lock Nut
	0036400	Sprocket RC60-2 29T x 1-15/16" Bore 1000 RPM	18	0018131	3/8"-16 x 7/8" Carriage Bolt
8	0018987	Gib Key 1/2" x 2" Long	19	0914531	Rotor Sprocket Shield
9	0018261	1/2" - 13 x 1 1/2" Hex Head Cap Screw W/Nylon Patch — Grade 5.			

## \*Complete sets of knives for each model.

Rotary Scythe may be ordered by the following kit numbers (kits do not include bolts, nuts or knife hangers):

0929006 - For models 9B, 9C, 9D and 9E prior to serial number 26980

Kit consists of 36 — 0015208  
2 — 0015206  
2 — 0015207

0929007 - For models 7C, 7D and 7E

Kit consists of 28 — 0015208  
2 — 0015206  
2 — 0015207

0929012 - For model 12E

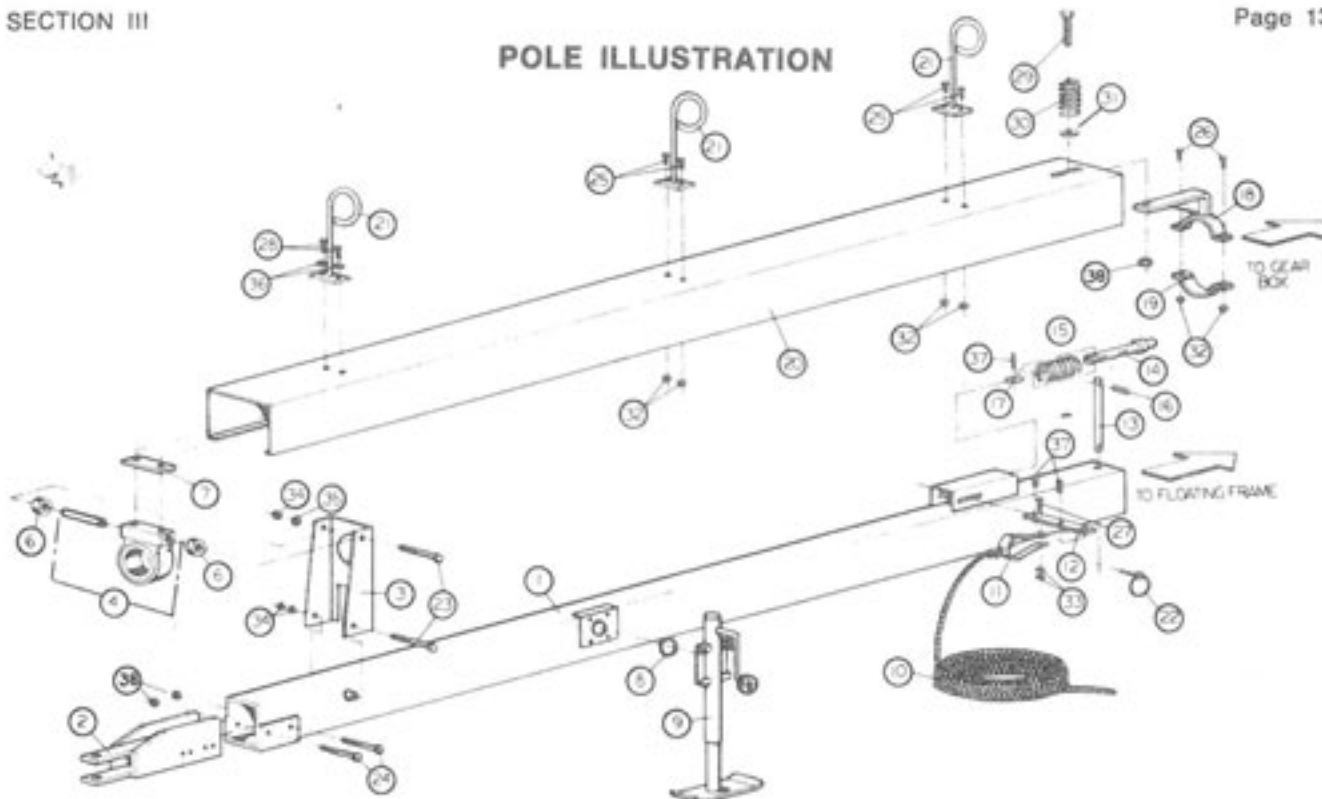
Kit consists of 48 — 0015208  
2 — 0015211  
2 — 0015212

0929013 - For model 9E after Serial Number 26979

Kit consists of 36 — 0015208  
2 — 0015211  
2 — 0015212



## POLE ILLUSTRATION

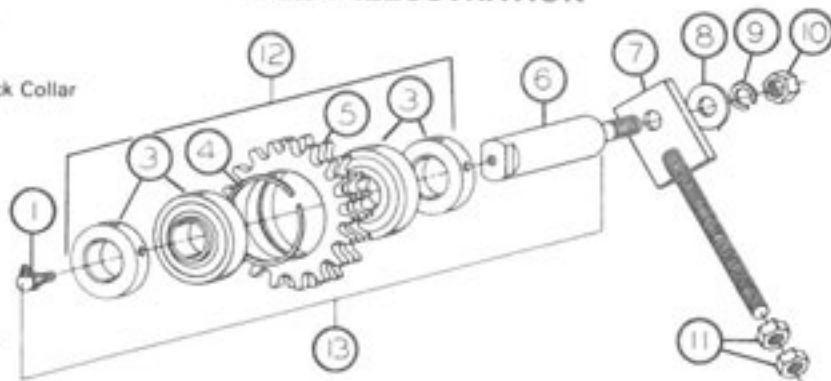


REF. NO.	PART NO.	DESCRIPTION
1	0910215	Pole Weldment - 7E, 9E
	0910251	Pole Weldment - 12E
2	0910198	Clevis Weldment
3	0953458	PTO Bearing Bracket
4	0911085	PTO Hanger Bearing With Sleeve
6	0018979	PTO Bearing Bushing
7	0913569	Bearing Shim
8	0928256	Snap Ring-Jack
9	0018973	Pole Jack
10	0915704	Pole Rope - 144" Long - 7E, 9E
	0915711	Pole Rope - 228" Long - 12E
11	0913306	Spring Pin Yoke
12	0953431	Pole Pin Lever
13	0915707	Pole Pin
14	0910201	Pole Spring Pin Weldment
15	0918254	5" Compression Spring
16	0008259	5/16" x 1-3/4" Roll Pin
17	0918990	Pole Pin Bushing
18	0910235	PTO Safety Shield Mounting Bracket
19	0953460	PTO Safety Shield Mount Coupling
20	0910267	PTO Safety Shield - 7E, 9E
	0910266	PTO Safety Shield - 12E

REF. NO.	PART NO.	DESCRIPTION
21	0910217	Hydraulic Hose Holder
22	0918259	Klick Pin
23	0008153	5/8"-11 x 7" Hex Head Cap Screw
24	0008152	5/8"-11 x 5" Hex Head Cap Screw
25	0008119	3/8"-16 x 3/4" Hex Head Cap Screw
26	0008290	3/8"-16 x 1-1/2" Hex Head Cap Screw
27	0008109	5/16"-18 x 1-1/4" Hex Head Cap Screw
28	0008289	3/8"-16 x 1-1/2" Hex Head Cap Screw Gd. 5
29	0008150	5/8"-11 x 2-1/2" Hex Head Cap Screw
30	0018256	Compression Spring 5/8" x 2"
31	0008176	5/8" Flat Washer
32	0008168	3/8"-16 Whiz Nut
33	0008159	5/16"-18 Hex Nut
34	0008164	5/8"-11 Hex Nut
35	0008181	5/8" Lock Washer
36	0008179	3/8" Lock Washer
37	0918101	5/16" x 7/8" Roll Pin
38	0918189	5/8"-11 2-way Hex Lock Nut

REF. NO.	PART NO.	DESCRIPTION
1	0016604	Grease Fitting - 90 Deg.
3	0016017	Idler Sprocket Bearing w/Lock Collar
4	0016602	Snap Ring
5	0016403	Sprocket
6	0915043	Idler Shaft
7	0910209	Idler Adjustment Weldment
8	0908177	3/4" Flat Washer
9	0908182	3/4" Lock Washer
10	0908165	3/4"-10 Hex Nut
11	0008163	1/2"-13 Hex Nut
12	0011002	Idler Sprocket Assembly
13	0911051	Idler Assembly

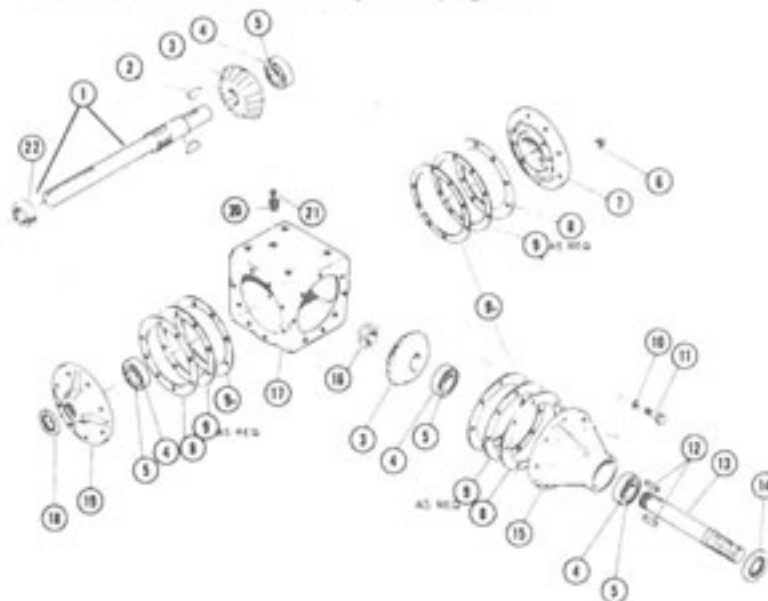
## IDLER ILLUSTRATION



**GEAR BOX 091 6608**

All Model 7E &amp; 9E, also 12E Below S/N 42306.

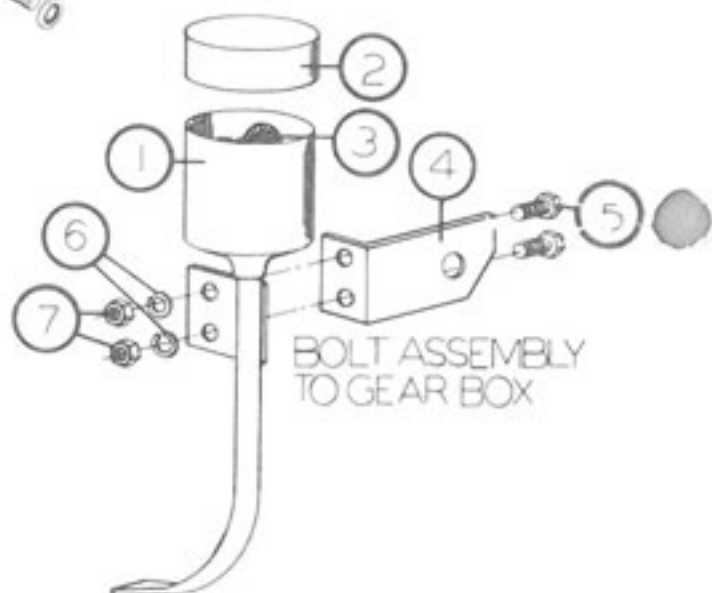
For 12E S/N 42306 &amp; Up See page 17



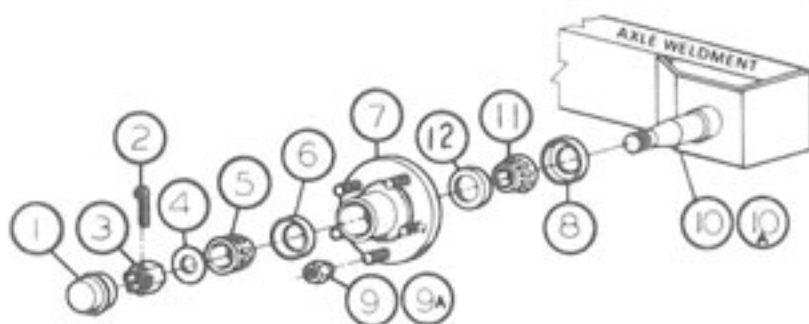
REF. NO.	PART NO.	DESCRIPTION
1	0926621	Output Shaft, Gear Box w/Stake Nut
2	0018988	Woodruff Key 3/8" x 1-1/2" (Hard)
3	0026500	Bevel Gear
4	0026010	Bearing Cup
5	0026011	Bearing cone
6	0028000	Oil Level Plug
7	0027655	Cover, Solid Gear Box
8	0026636	Shim .005" Thick
9	0026637	Shim .010" Thick
9A	0926609	Gasket - 1/32" Thick
10	0008180	1/2" Lock Washer
11	0018261	1/2"-13 x 1-1/2" Hex Bolt
12	0018969	Key 3/8" x 3/8" x 1-3/8" (Hard)
13	0026638	Input Shaft
14	0026639	Grease Seal
15	0027656	Hub
16	0026668	Stake Nut
17	0027654	Gear Housing
18	0026667	Grease Seal
19	0027657	Cover Gear Box Output
20	0026678	Bushing - 3/8" to 1/8" - N.P.T.
21	0026677	Vent - 1/8" - N.P.T.
22	1128252	Stake Nut - Only

**OILER ILLUSTRATION**

REF. NO.	PART NO.	QTY.	DESCRIPTION
1	0910197	1	Oiler Weldment
2	0017982	1	Oiler Cap
3	0915705	3	Felt Oiler Wicking
1, 2, 3	0911050	1	Complete Oiler Assembly
4	0953430	1	Oiler Mount Bracket
5	0008121	2	3/8-16 x 1 HHCS
6	0008179	2	3/8 Lockwasher
7	0008162	2	3/8-16 Hex Nut

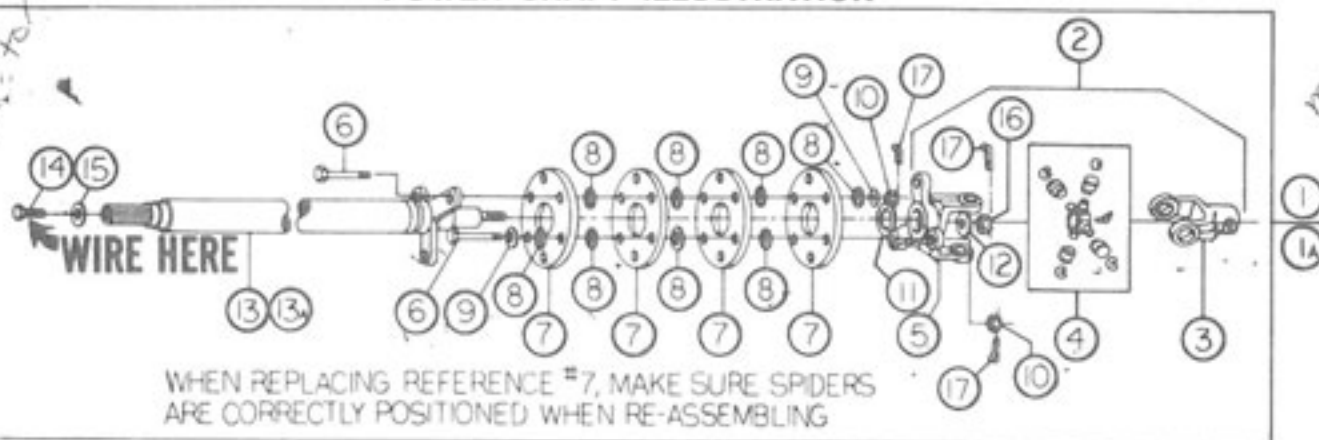
**WHEEL HUB ILLUSTRATION**

For Axle Weldment See Page 8



REF. NO.	PART NO.	DESCRIPTION
1	0018996	Hub Cap
2	0018252	1/8" x 1 Cotter Pin
3	0018253	Spindle Nut
4	0018254	Spindle Washer
5	0016000	Bearing Cone - Outer
6	0026000	Bearing Cup - Outer
7	0018992	Wheel Hub Assy. - 5 Bolt - Includes Cups, Hub & Stud Bolts
8	0018991	Seal
9	0018989	1/2"-20 NF Lug Nut (15" Rim) 45 deg.
9A	0908988	1/2"-20 NF Lug Nut (10" Rim) 60 deg.
10	0018972	Spindle Only - Left - 9-1/2" long
10A	0018990	Spindle Only - Right - 8" long
11	0016001	Bearing Cone - Inner
12	0026001	Bearing Cup - Inner

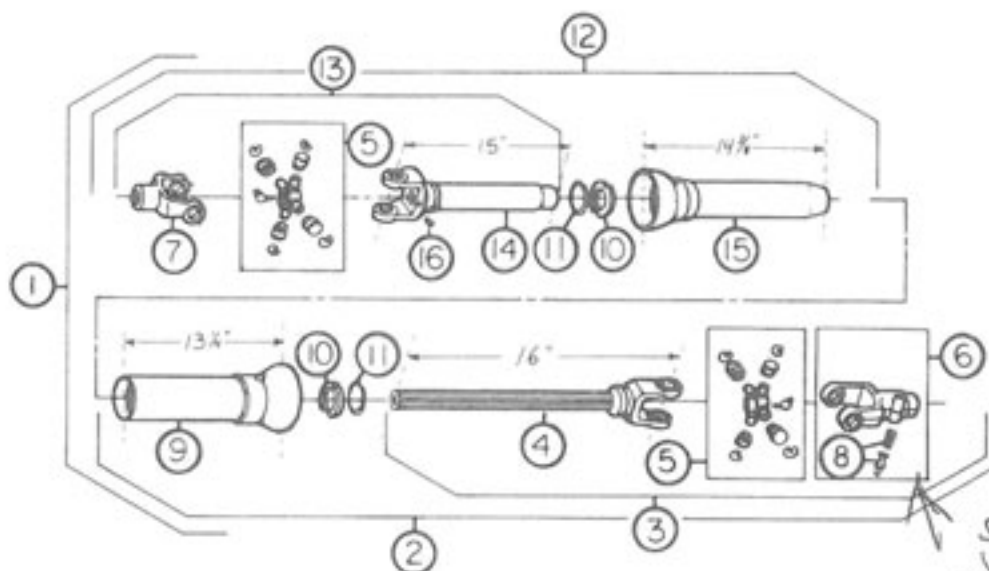
## POWER SHAFT ILLUSTRATION



REF. NO.	PART NO.	DESCRIPTION
1	0916611	Power Shaft Complete - 7E & 9E
1A	0916612	Power Shaft Complete - 12E
2	0926657	Universal Joint
3	0026641	Yoke (1-3/4"-6B)
4	0026633	Repair Kit
5	0926676	Spider Yoke
6	0928170	5/8"-18 Hex Bolt Gr. #8
7	0926677	Shock Absorbing Disc
8	0926678	5/8" Beaded Washer
9	0926679	5/8" Special Plain Washer

REF. NO.	PART NO.	DESCRIPTION
10	0926680	5/8"-18 Thick Slotted Nut
11	0026614	Thrust Washer (1 1/2" x 1" x .134")
12	0026643	5/8" Washer
13	0926656	Stub Shaft & Tube w/Spider Assy. - 7E & 9E
13A	0926688	Stub Shaft & Tube w/Spider Assy. - 12E
14	0928162	1/2"-20 x 1 1/4" HHCS w/Drilled Head
15	0928255	1/4" Thick x 1-9/16" O.D. x 1/2" I.D.
16	0928171	1/2"-11 Slotted Hex Nut
17	0008199	1/8" x 1" Cotter Pin

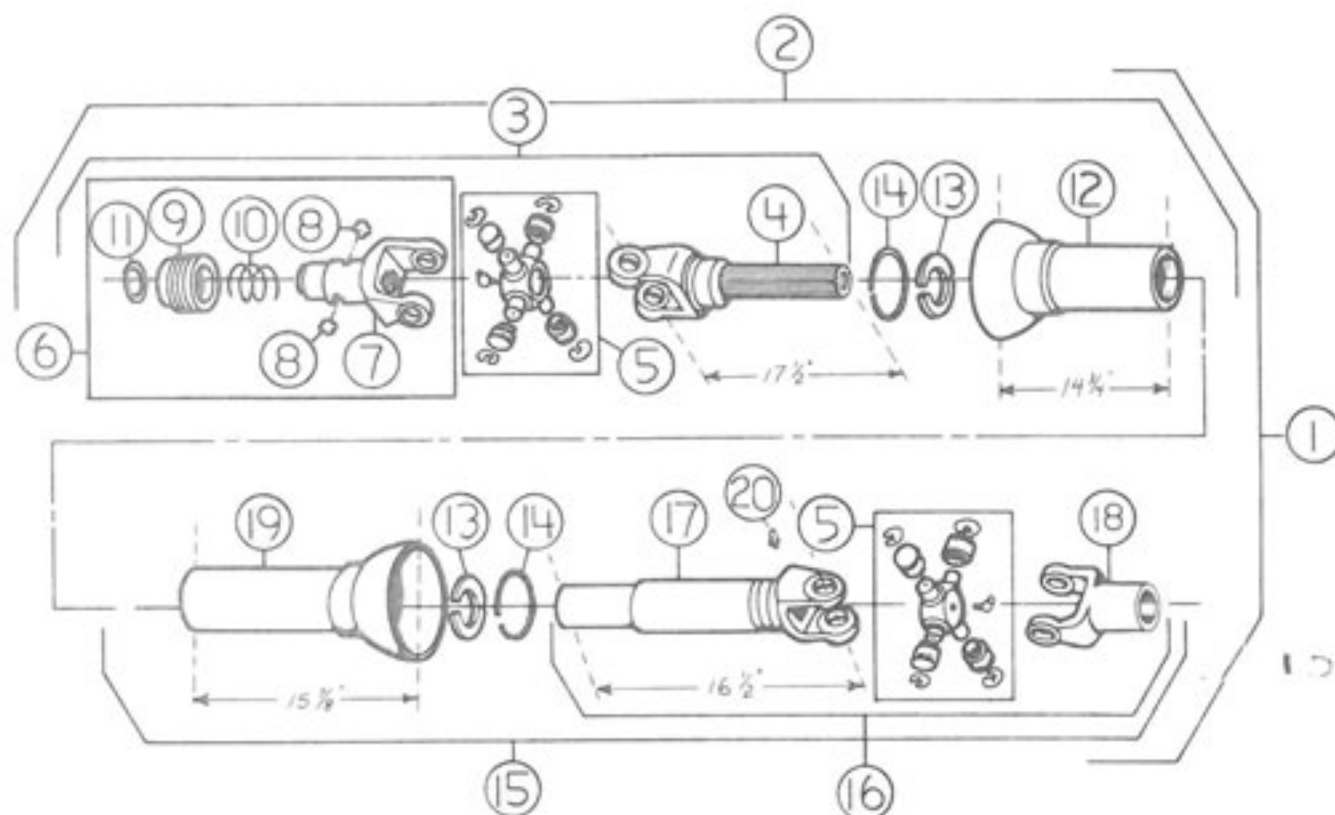
## 540 R.P.M. TAKE-APART ILLUSTRATION



REF. NO.	PART NO.	DESCRIPTION
1	0916613	Universal Joint & Telescoping Shaft Assembly w/QDFWG
2	0926695	Joint and Shaft w/QDFWG
3	0926698	Joint and Shaft Assembly
4	0926697	Yoke and Shaft Assembly
5	0026633	Universal Joint Repair Kit
6	0026656	Quick Detachable Yoke Assembly (1-3/8-6B)
7	0926632	Yoke (1-3/8-6B)

REF. NO.	PART NO.	DESCRIPTION
8	0026629	SAF * T * PIN & Spring Kit
9	0926696	Female Guard Tube
10	0926693	Nylon Bearing
11	0926692	Bearing Retainer
12	0926690	Joint & Tube w/QDFWG
13	0926699	Joint & Tube Assembly
14	0926691	Yoke & Tube Assembly
15	0926694	Male Guard Tube
16	0008996	Grease Zerk - Straight - 1/4"-28

## 1000 R.P.M. TAKE-APART ILLUSTRATION

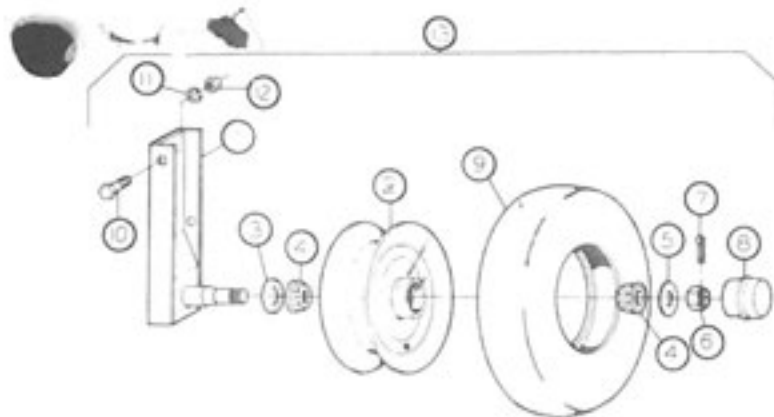


REF. NO.	PART NO.	DESCRIPTION
1	0936603	Universal Joint & Telescoping Shaft Assembly w/QDFWG
2	0926703	Joint & Shaft w/QDFWG
3	0926706	Universal Joint & Shaft
4	0926705	Yoke & Shaft Assembly
5	0026633	Universal Joint Repair Kit
6	0026674	Slide Lock Yoke Assembly
7	0026675	Slide Lock Yoke (1-3/8-8-21)
8	0026632	Slide Lock Yoke Pawl
9	0026631	Slide Lock Yoke Collar

REF. NO.	PART NO.	DESCRIPTION
10	0026630	Slide Lock Yoke Space Spring
11	0026655	Slide Lock Yoke Retaining Ring
12	0926704	Female Guard Tube
13	0926693	Nylon Bearing
14	0926692	Bearing Retainer
15	0926700	Joint & Tube w/QDFWG
16	0926707	Universal Joint & Tube
17	0926701	Yoke and Tube Assembly
18	0926632	Yoke (1-3/8 6B)
19	0926702	Male Guard Tube
20	0008996	Grease Zerk Straight - 1/4"-28

# GAUGE WHEEL KIT 090 1001

## STANDARD MODEL 9E, 12E—ACCESSORY 7E

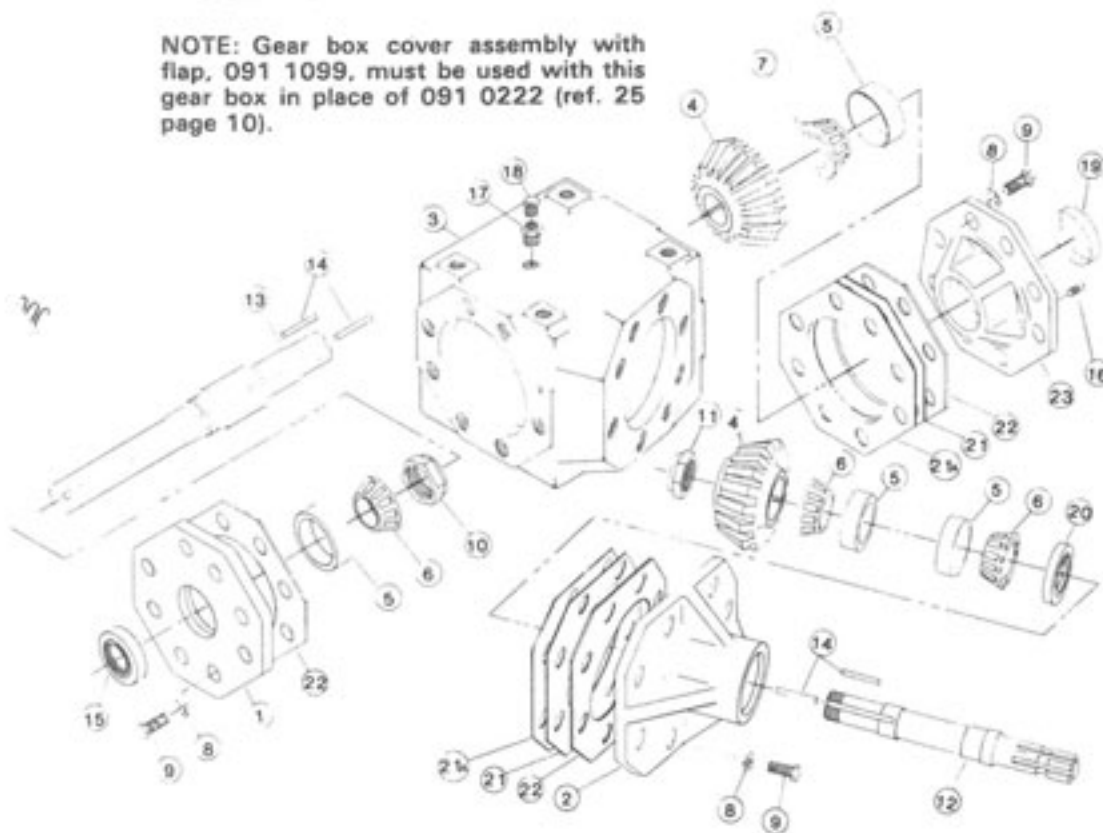


REF. NO.	PART NO.	DESCRIPTION
1	0900018	Gauge Wheel Mount Weldment
2	0928995	Wheel 8" w/non Demountable Hub
3	0928991	Wheel Seal
4	0928993	Bearing Cone Gauge Wheel
5	0008177	3/4" Flat Washer (Not used with 1" jam nut)
6	0928987	3/4" Slotted Hex Nut
7	0918986	1" Slotted Jam Nut
8	0008225	1/8" x 1-1/2" Cotter Pin
9	0928992	Gauge Wheel Cap
10	0928994	Tire - 4.00 x 8" Smooth Imp.
11	0008137	1/2"-13 x 1-1/4" Hex Head Cap Screw
12	0008180	1/2" Lock Washer
13	0008163	1/2" Hex Nut
	0939021	Gauge Wheel Complete

# GEAR BOX 091 6614

## USED ON MODEL 12E SERIAL NO. 42306 & UP

NOTE: Gear box cover assembly with flap, 091 1099, must be used with this gear box in place of 091 0222 (ref. 25 page 10).



REF. NO.	PART NO.	QTY.	DESCRIPTION
1	092 6709	1	Cover (output shaft)
2	092 6710	1	Hub
3	092 6711	1	Housing
4	092 6712	2	Gear (20T)
5	002 6010	4	Bearing Cup
6	092 6713	3	Bearing Cone
7	002 6011	1	Bearing Cone
8	000 8180	24	Lock Washer - 1/2"
9	131 8163	24	Cap Screw; 1/2" - 13 x 1 1/4"
10	1" 8252	1	Stake Nut; 2" - 18 x 3/4"
11	002 6668	1	Stake Nut; 1 1/4" - 18 x 1/2"
12	092 6714	1	Input Shaft

REF. NO.	PART NO.	QTY.	DESCRIPTION
13	092 6715	1	Output Shaft
14	092 6716	4	Key - 3/8 Sq. x 2" Lg. (hard)
15	002 6667	1	Seal
16	002 8000	1	Plug - Level; 1/4 - 18 N.P.T.
17	002 6678	1	Vent Bushing
18	002 6677	1	Vent Plug
19	002 8601	1	Cap
20	092 6717	1	Seal
21	092 6718	As Req.	Shim .005 (blue)
21A	092 6719	As Req.	Shim .010 (brown)
22	092 6720	3	Gasket - 1/32"
23	092 6721	1	Cover (end shaft)



## **OWNERS NOTICE**

**TO INSURE WARRANTY CLAIMS, BE CERTAIN TO FILL  
OUT AND MAIL WARRANTY CARD WITHIN 30 DAYS.**

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