

OWNER'S MANUAL

- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

Model Nos.
217-100A
217-100-300

Important :

**Read Safety Rules and
Instructions Carefully**

VERTICAL ROTARY TILLERS



IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped **WITHOUT GASOLINE** or **OIL**. After assembly, see operating section of this manual for proper fuel and amount.

Your tiller is a precision piece of power equipment, not a play thing. Therefore exercise extreme caution at all times.

SAFE OPERATION PRACTICES FOR TILLERS

1. Read the Operating and Service Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Never allow children to operate a power tiller. Only persons well acquainted with these rules of safe operation should be allowed to use your tiller.
3. Keep the area of operation clear of all persons, particularly small children and pets.
4. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
5. Do not wear loose fitting clothing that could get caught on the tiller.
6. Do not start the engine unless the shift lever is in the neutral (N) position.
7. Do not stand in front of the tiller while starting the engine.
8. Do not place feet and hands on or near the tines when starting the engine or while the engine is running.
9. Do not leave the tiller unattended with the engine running.
10. Do not walk in front of the tiller while the engine is running.
11. Do not fill gasoline tank while engine is running. Spilling gasoline on hot engine may cause a fire or explosion.
12. Do not run the engine while indoors. Exhaust gases are deadly poisonous.
13. Be careful not to touch the muffler after the engine has been running, it is hot.
14. Before any maintenance work is performed or adjustments are made, remove the spark plug wire and ground it on the engine block for added safety.
15. Use caution when tilling near buildings and fences, rotating tines can cause damage or injury.
16. Before attempting to remove rocks, bricks and other objects from tines, stop the engine and be sure the tines have stopped completely. Disconnect the spark plug wire and ground to prevent accidental starting.
17. Check the tine and engine mounting bolts at frequent intervals for proper tightness.
18. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
19. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

ASSEMBLY

Your rotary tiller is shipped complete in a single carton. The tines, wheels, handle and depth bar are to be assembled. This is done in the manner described below.

Tines—Mount tines on tine shaft as shown. (See page 10.) Tines must be mounted with the cutting edges facing the correct direction. The tiller will not operate properly unless the sharpened surface of the tines enter the soil first. Secure tines in position on tine shaft with cap screws (41), and nuts (32).

Wheels—Insert axle bolts (23) into wheel hubs. Place washers (26) between wheel and leg. Attach wheel and axle assemblies to outside of tiller legs (27) and (30). Secure with nuts (29) and lockwashers (28). Tighten securely. See page 8 for correct sequence of parts.

Handle—Assemble the handle brackets (8) to the handle (2) with hex head screw (11), lockwashers (9) and hex nuts (10). DO NOT tighten. Place the handle brackets (8) in the tailpiece slots. Line up lower holes in handle brackets with mounting holes in tailpiece assembly. Secure with carriage bolt 5/16-18 x 3/4" Lg. (20), lockwasher (13) and hex nut (12). Line up upper holes in handle brackets with mounting holes in mounting plate assemblies (19) and secure with carriage bolt (20), lockwasher (13) and hex nut (12). See page 8 for correct sequence. Tighten all nuts and bolts securely.

CLUTCH CONTROL LEVER ASSEMBLY

Clutch Lever—Assemble in this order: rubber washer (42), steel washer (41), clutch lever assembly (43), (rod bracket to the front), steel washer (41) and lock nut (40). Tighten until rubber washer compresses slightly. (See page 8.)

Clutch Control Assembly—Screw the ferrule (37) on the threaded end of the control rod (38) until about 1/2" of the threads show above the ferrule. Insert the ferrule through the control pivot lever (36), fasten with flat washer (35) and cotter hairpin (34). Put the clutch handle in the neutral position. Insert the control rod in the bracket on the clutch lever and secure with a cotter hairpin (34) through the center of the bracket. Adjust the ferrule so the belt is slack when the clutch lever is in the neutral position. (See page 8.)

Depth Bar—Attach depth bar (18) in desired position with clevis pin (17) and locking pin (15). (See page 8.)

Grips—Slip hand grips on the upper end of each handle. They will slip on more easily if you first soak them in warm soapy water.

CHECK LIST BEFORE OPERATION

A. After the tiller is assembled and before gasoline and oil are added to the engine, check the case for correct lubricant level.

1. Remove rear pipe plug from tiller gear case. See figure 1.

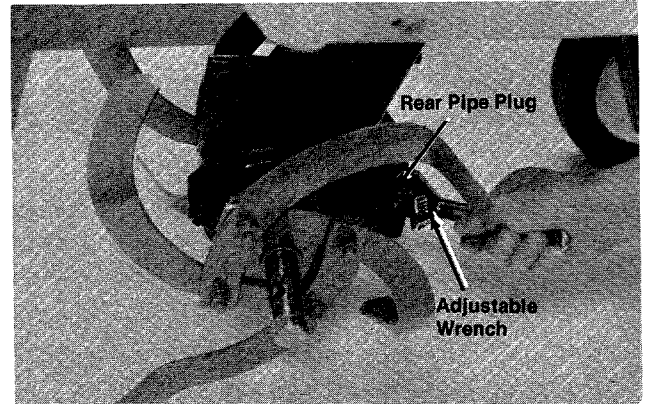


FIGURE 1.

2. If lubricant flows from the outlet, lubricant is at the correct level. See figure 2.

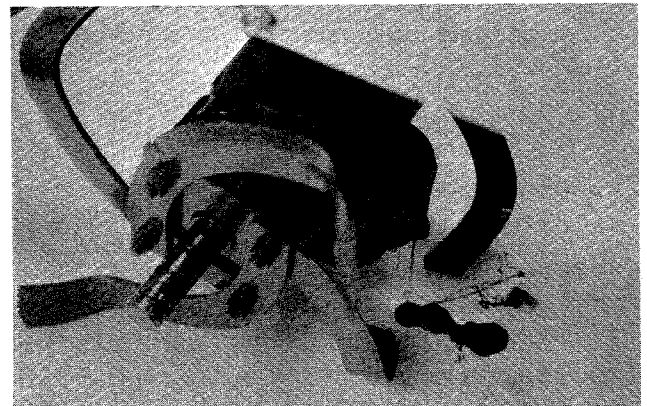
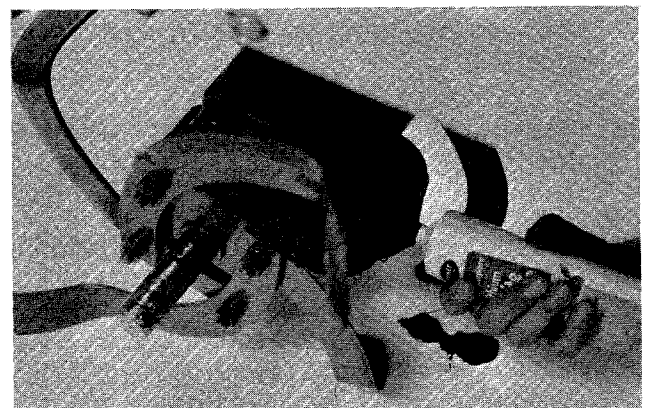


FIGURE 2.

3. If lubricant fails to flow from the outlet, lubricant should be added. USE PENNANT OIL EP #35000. This is available in 8 ounce squeeze tubes. Order part number 737-0136. See figure 3.



3 FIGURE 3.

- B. Remove spark plug wire from spark plug and ground. Check tiller tines for proper installation. With throttle control lever set on STOP position and the clutch control handle set in FORWARD position, slowly crank engine to determine direction of tine rotation. Be sure all tines are mounted so the sharpened edges enter the soil first.
- C. Now place the clutch control handle in NEUTRAL position. Slowly crank engine. The tines should not rotate.
- D. Check all nuts and bolts for proper tightness. This is especially important during the initial operation period. Make this same check periodically thereafter.
- E. Fill fuel tank with clean, fresh, regular grade gasoline. This should be used at all times.
- F. Check engine crankcase for proper oil level. The engine is shipped without oil in the crankcase. Be sure to fill crankcase before starting engine. Be sure crankcase is FULL. See engine manual for correct type and amount.



NOTE

The engine is warranted separately by the engine manufacturer. For warranty service contact the engine manufacturer or their local authorized service station. All important information pertaining to care and operation is included in the engine manual.

STARTING YOUR TILLER

1. Be sure clutch control handle is in NEUTRAL position.
2. Move throttle lever to START position on engine.
3. After cranking the engine several times or as the engine fires, move the throttle lever to RUN position.
4. Adjust throttle lever for desired operating speed.
5. To stop engine, move throttle lever to STOP position. Keep throttle lever in STOP position at all times when tiller is not in use.



NOTE

A brief break-in period is essential to insure maximum engine life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. This is necessary on the initial run only. It is also recommended that the oil be changed after five (5) hours of operation. This allows for the removal of impurities which may have accumulated during the break-in period. Subsequent oil changes should be made as stated in the engine manual. Always check oil before using your tiller. Be sure oil level is adequate.

OPERATING INSTRUCTIONS

For your own convenience and safety, observe all safety suggestions shown in this manual. Your tiller is not a toy, it is a precision piece of power equipment. Treat it as such.

It is important to recognize the fact that the forward and penetrating action of the rotary tiller is obtained from the rotating action of the tines in the soil. The depth bar acts as a brake for the tiller and controls the depth and speed at which the machine will operate. By lowering the setting of the depth bar, the forward speed of the machine is reduced and the working depth of the tines is increased. Raising the setting of the depth bar increases the forward speed and reduces the working depth. When soil conditions are severe and several passes must be made over a certain area, the depth bar setting should be lowered each time a pass is made. Further control of tilling depth and travel speed can be obtained by variation of pressure on the handles or the throttle setting. A downward pressure on the handles will increase the working depth and reduce the forward speed. An upward pressure on the handles will reduce the working depth and increase the forward speed. The type of soil and working conditions will determine the actual setting of the depth bar and the handle pressure required.

1. Tine engagement and forward travel is achieved by moving the clutch lever to FORWARD position. Tine rotation and forward motion are stopped by moving the clutch lever to NEUTRAL position.

- The throttle lever adjusts the engine speed. It also gives fingertip control of the carburetor and magneto stop switch. When the throttle lever is pushed completely to the right from behind the tiller, the carburetor is in START position. Pulling the lever to the left reduces the engine speed to SLOW. When the lever is pulled completely to the left from behind the tiller, the magneto stop switch grounds out the spark and stops the engine.
- When the depth bar is positioned out of ground engagement, self-propelled transporting of the tiller is easily achieved. With no pressure on the handles and the throttle lever set for SLOW engine speed, move the clutch control handle to the FORWARD position and let the tiller gently propel itself.

ADJUSTMENTS

Belts—Belt slack is taken up by a spring loaded idler pulley. Because of this, belt adjustment is not required.

Clutch—No adjustment of the lower clutch rod is required. This is done automatically by the spring loaded idler.

NOTE

Belt and clutch adjustments can be made by moving the engine bed. Loosen the four bolts which secure it and move the engine bed forward or backward as required. Adjusting the control rod will also effect the belt and clutch adjustment. These adjustments may be necessary if handle position is changed.

Handle—The position of the handle may be adjusted by removing and moving carriage bolts to the desired mounting holes. Adjustment should be made for the most convenient operating height.

Wheels—Wheel positions may be varied to give further adjustment of handle height. Various wheel positions also give variations of the leverage and weight distribution over the tines. Wheels should be set to suit the local soil conditions and the operator's convenience.

Tines—The standard width of cut is 26". Because of the various types of work to which the tiller may be put, variation in the tilling widths may be necessary. This can be accomplished in a number of ways.

- Standard tine arrangement..... 26"
- Remove tines that point outward from outer tine assemblies. Tines may be interchanged with opposite sides..... 20"
- Add tine extensions to standard arrangement (See page 6.)..... 40"

NOTE

When adjusting tines, be sure the cutting edges enter the soil first.

MAINTENANCE AND LUBRICATION

Engine—Service engine in accordance with the engine manufacturer's owner's guide.

NOTE

To drain oil, remove oil filler plug and tip tiller on its side. Drain oil while the engine is warm. See engine manual for filling instructions.

Gear Case—Whenever disassembly of gear case is required, gear case should be thoroughly cleaned and lubricated with 4½ ounces of PENNANT OIL EP #35000. This is available in 8 ounce squeeze tubes. Order part number 747-0136. See figure 4.

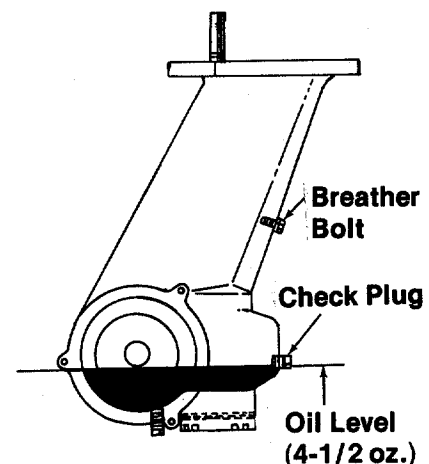


FIGURE 4.

Belt—Access to V belt and pulley assemblies is accomplished by removing the engine and engine bed as described below.

- Remove four cap screws which secure engine bed to mounting plate assembly. Remove engine bed with engine attached.

2. Remove hex screw, lockwasher and flatwasher in 4½" pulley. Remove pulley and "V" belt. The belt clip on idler must be loosened to remove belt, mark correct location of belt clip in relation to idler before loosening. This can be done by scribing the belt clip and the end of the weld bolt in idler with a file. It is most important that this clip be reassembled in the right position.
3. Position new belt on 4½" pulley and reinstall on gear case shaft. Pulley must be mounted in position so that it will line up with engine pulley when assembly is completed. The correct position is that point at which the center of the pulley is 1-1/8" above the mounting plate assembly. Tighten hex screw, lockwasher and flat washer securely.
4. Line up the belt clip in original position and tighten securely. Make sure belt is inside belt guards. While holding the belt taut (grasp at extreme rear position), move clutch belt lever to FORWARD and NEUTRAL position. If belt clip touches belt with lever in either position, readjust position of clip.
5. Move clutch lever to NEUTRAL position. Remove inspection plate from engine bed.
6. Replace engine bed on mounting plate assembly. Move engine bed and engine as far forward as possible.
7. Remove inspection plate (See page 10.) from engine bed and reach through inspection hole and guide belt into position on engine pulley.
8. Check visually through inspection hole to make sure belt is inside all belt guards and that pulleys are in proper alignment. A flashlight will help you make this check quickly and easily.
9. Line up mounting holes of engine bed and mounting plate then replace cap screws. Do not tighten cap screws until all four screws are in place. Replace inspection plate.

REPLACING TILLER GEAR CASE OIL SEALS

1. Drain lubricant.
2. Remove tine assemblies.
3. Remove bearing cap. (See reference 17 on page 12.)
4. Remove bearings, worm wheel and tine shaft. Do not remove bearing races.
5. Remove oil seals from gear case and bearing cap.
6. Remove all burrs from holes in tine shaft.

7. Dip oil seals in lubricant and then insert one in gear case and one in bearing cap.
8. Wipe tine shaft clean of filings and lubricate before assembling with bearings and worm wheel in gear case.
9. Replace bearing cap.



CAUTION

Do not damage oil seals. The open flanges face to the outside of the gear case.

10. Tighten bearing cap, retighten screws evenly.
11. Replace tine assemblies and add lubricant. (See page 5.)

General—Check periodically all nuts and bolts. Loose nuts and bolts can cause permanent damage to your unit. Keep all nuts and bolts securely tightened.

STORAGE

The following steps should be taken to prepare your tiller for storage.

1. Clean tiller thoroughly and lubricate as described in the preceding instructions.
2. Coat tilling tines with grease to prevent rusting.
3. Prepare engine for storage in accordance with engine manufacturer's owner's guide.
4. Block tiller legs to raise tires clear of floor. Be sure tiller is level.
5. Store in a dry, clean area.

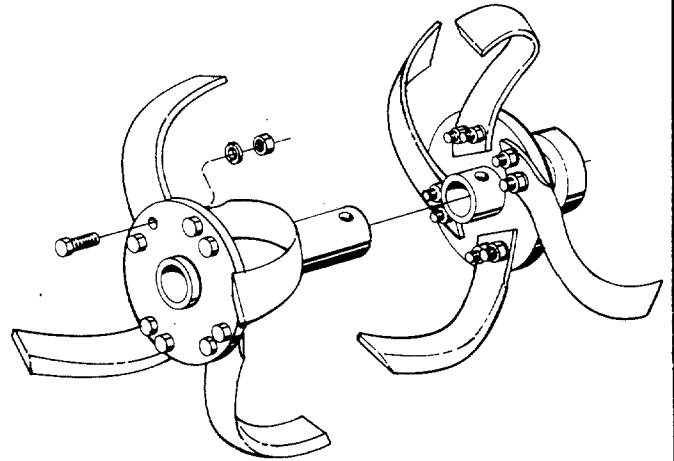
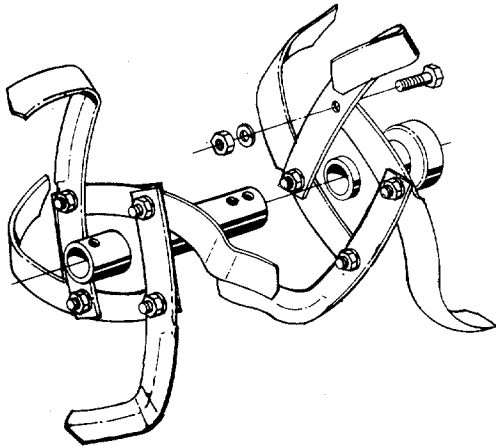
ATTACHMENTS

Extension Tines—This attachment is available to increase your tilling width up to 40". Extension tines are easily installed and removed. Order under part number 297-162A.

Furrow Opener—This attachment is easily installed on the depth bar of your tiller. It can be used for either furrowing or hilling operations. These attachments are available through your local dealer.

For wide (2" x .43") depth bar, order furrow opener 297-179A.

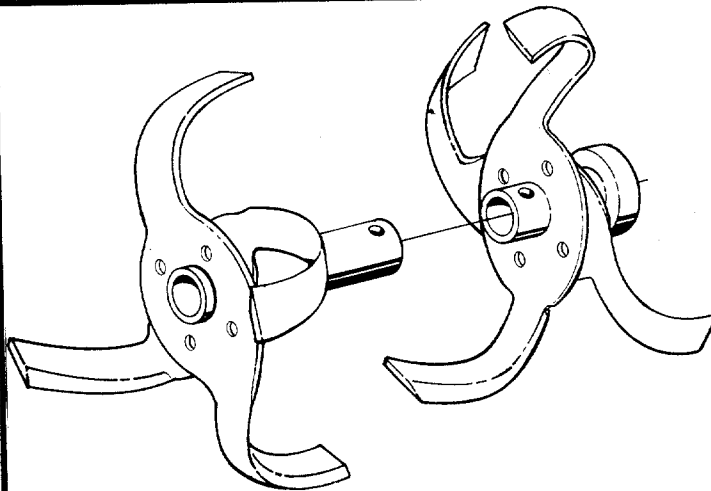
TINE CHART



BOLO TINES (have a square plate with four (4) tines)

SLASHER TINES (have a round plate with eight (8) bolts)

| | | | | | |
|---|--------------------|------------------------|---|----------|------------------------|
| 12" Bolo Tines for Gear Case Models | 04701 | Inner tine ass'y. L.H. | 14" Slasher Tines for Gear Case Models with 1" tine shaft | 04677 | Inner tine ass'y. L.H. |
| | 04702 | Inner tine ass'y. R.H. | | 04678 | Inner tine ass'y. R.H. |
| | 04293 | Outer tine ass'y. L.H. | | 04297 | Outer tine ass'y. L.H. |
| | 04294 | Outer tine ass'y. R.H. | | 04298 | Outer tine ass'y. R.H. |
| | 742-0105 | Tine only L.H. | | 742-0113 | Tine only L.H. |
| | 742-0106 | Tine only R.H. | | 742-0110 | Tine only R.H. |
| | 04683 | Outer tine adapter | | 04265 | Outer tine adapter |
| 04673 | Inner tine adapter | 04674 | Inner tine adapter | | |

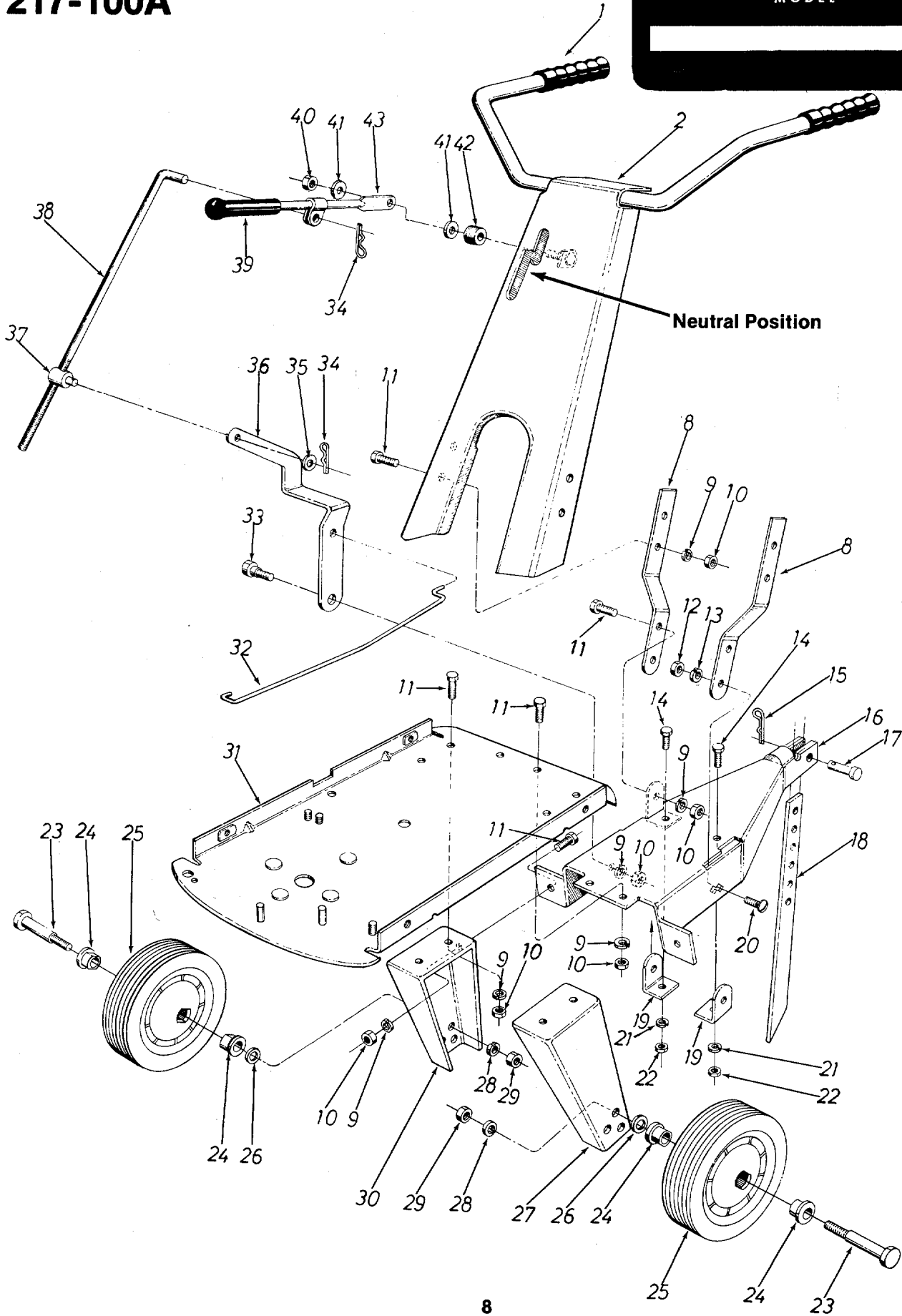


BEAVER TINES (have three welded pieces, no hardware)

| | | |
|--|----------|------------------------|
| 14" Beaver Tines for Gear Case Models with 1" tine shaft | 742-0155 | Inner tine ass'y. L.H. |
| | 742-0154 | Inner tine ass'y. R.H. |
| | 742-0167 | Outer tine ass'y. L.H. |
| | 742-0168 | Outer tine ass'y. R.H. |

217-100A

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



PARTS LIST FOR MODEL 217-100A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|--|----------|
| 1 | 01166 | | Grip—Black | | 26 | 736-0253 | | Belleville Wash. .505 I.D. x 1.00 O.D. | |
| 2 | 04624 | —463 | Handle Ass'y. | | 27 | 04109 | —463 | Leg—Left Hand | |
| 8 | 04386 | —463 | Handle Mount Brackets | | 28 | 736-0921 | | L-Wash. 1/2" Scr.* | |
| 9 | 736-0169 | | L-Wash. 3/8" Scr.* | | 29 | 712-0239 | | Hex Nut 1/2-20 Thd.* | |
| 10 | 712-0798 | | Hex Nut 3/8-16 Thd.* | | 30 | 04110 | —463 | Leg—Right Hand | |
| 11 | 710-0253 | | Hex Scr. 3/8-16 x 1.00" Lg.* | | 31 | 04691 | —463 | Mounting Plate Ass'y. | |
| 12 | 712-0267 | | Hex Nut 5/16-18 Thd.* | | 32 | 747-0148 | | Lower Control Rod | |
| 13 | 736-0119 | | L-Wash. 5/16" Scr.* | | 33 | 738-0183 | | Shoulder Scr. .500" Dia. x .215 | |
| 14 | 710-0118 | | Hex Scr. 5/16-18 x .75" Lg.* | | 34 | 714-0115 | | Cotter Pin 1/8" Dia. x 1.00" Lg.* | |
| 15 | 732-0194 | | Spring Pin | | 35 | 736-0204 | | FI-Wash. .344" I.D. x .62 O.D. | |
| 16 | 04329 | —463 | Tail Piece Ass'y. | | 36 | 04619 | | Control Pivot Lever | |
| 17 | 711-0231 | | Clevis Pin .500" Dia. | | 37 | 711-0392 | | Adjustment Ferrule | |
| 18 | 04668 | —463 | Depth Bar | | 38 | 711-0502 | | Control Rod 20" | |
| 19 | 04124 | —463 | Handle Mount Brackets | | 39 | 720-0143 | | Grip—Black | |
| 20 | 710-0276 | | Carriage Bolt 5/16-18 x 1.00" Lg.* | | 40 | 712-0158 | | Hex Inserted L-Nut 5/16-18 Thd. | |
| 21 | 736-0119 | | L-Wash. 5/16" Scr.* | | 41 | 736-0159 | | FI-Wash. .344 I.D. x .88 O.D. | |
| 22 | 712-0267 | | Hex Nut 5/16-18 Thd.* | | 42 | 735-0126 | | Rubber Wash. .33 I.D. x .87 O.D. | |
| 23 | 738-0318 | | Shoulder Scr. .625" Dia. x 2.75 (1/2-20 Thd.) | | 43 | 04392 | | Clutch Lever Ass'y. | |
| 24 | 741-0116 | | Flange Brg. with Flats .631 I.D. | | | | | | |
| 25 | 734-0585 | | Wheel Ass'y. 9.0 x 1.75 | | | | | | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

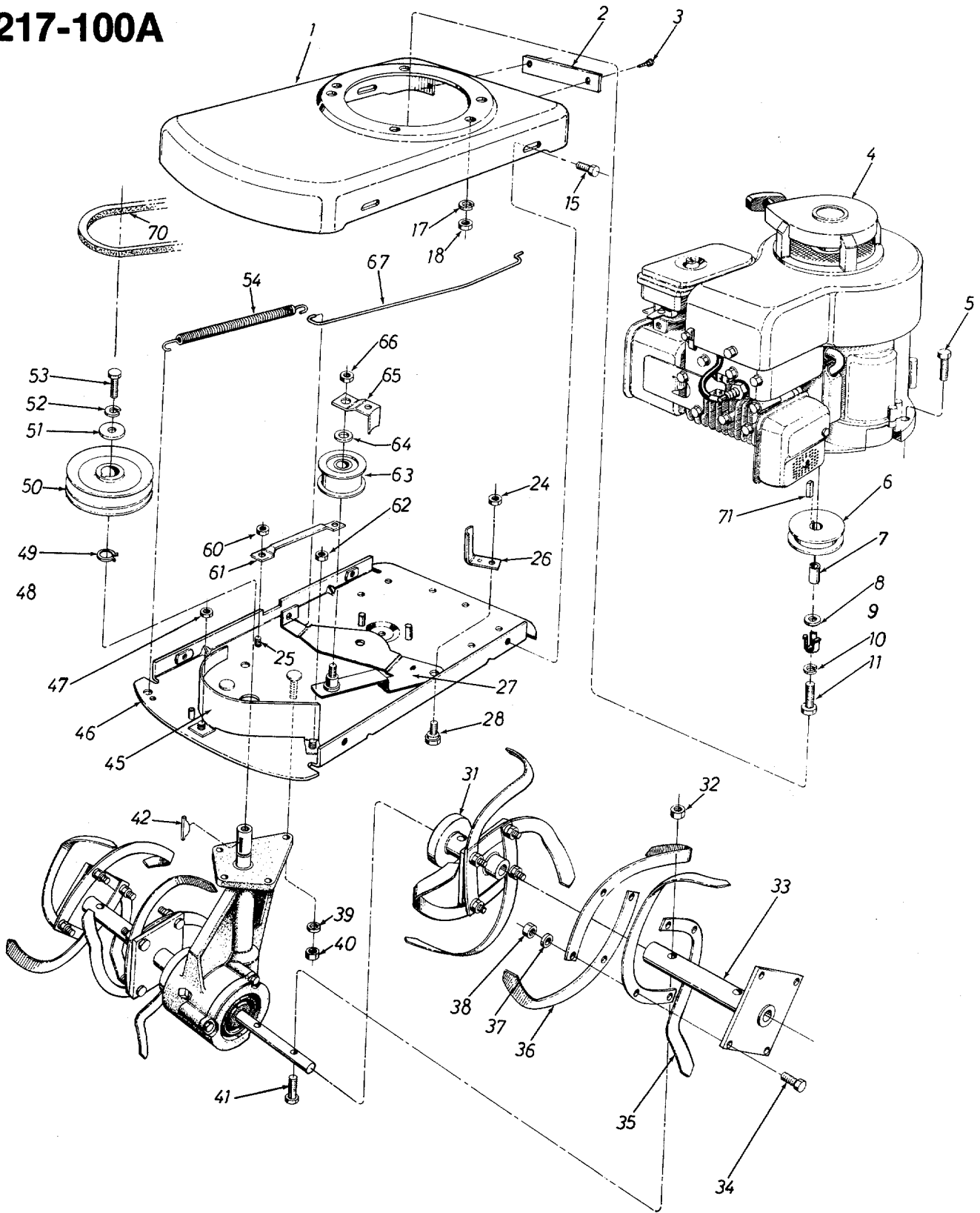
(463—Top Flite Red) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g. Top Flite Red Finish—04624 (463))

The engine is not under warranty by the tiller manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines-Gasoline."

Find us fast in the



217-100A



INNER TINE ASS'Y.—COMP.—L.H. 04701
 INNER TINE ASS'Y.—COMP.—R.H. 04702
 OUTER TINE ASS'Y.—COMP.—L.H. 04293
 OUTER TINE ASS'Y.—COMP.—R.H. 04294

Optional Tine
 Extension—Order
 Part No. 297-162A
 04673



NOTE

Due to specification changes on tiller
 tines, the tines on your tiller may be
 different than the ones shown here.
 When ordering replacement parts, see
 tine chart on page 7.

PARTS LIST FOR MODEL 217-100A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|----------|----------|------------|--|----------|----------|----------|------------|--|----------|
| 1 | 04258 | —312 | Engine Bed | | 38 | 712-0241 | | Hex Nut 3/8-24 Thd.* | |
| 2 | 04126 | | Inspection Plate | | 39 | 736-0169 | | L-Wash. 3/8" Scr.* | |
| 3 | 710-0128 | | Hex F-Tapp Scr. #10-32 x .50" Lg.* | | 40 | 712-0798 | | Hex Nut 3/8-16 Thd.* | |
| 4 | — | | Engine | | 41 | 710-0539 | | Hex Scr. 3/8-24 x 1.75" Lg. H.T. | |
| 5 | 710-0158 | | Hex Scr. 5/16-24 x 1.25" Lg.* | | 42 | 714-0126 | | #9 Hi-Pro-Key 3/16 x 3/4" Dia. | |
| 6 | 756-0248 | | Sheave 3.0" x .50 | | 45 | 04197 | —463 | Belt Guard | |
| 7 | 750-0284 | | Spacer | | 46 | 04691 | —463 | Mounting Plate Ass'y. | |
| 8 | 736-0117 | | FI-Wash. .385" I.D. x .62 O.D. | | 47 | 712-0107 | | Hex Cent. L-Nut 1/4-20 Thd. | |
| 9 | 04259 | | Engine Shaft Spacer | | 49 | 716-0119 | | Snap Ring 3/4" Dia. Shaft | |
| 10 | 736-0169 | | L-Wash. 3/8" Scr.* | | 50 | 756-0249 | | Pulley—Double Groove 4.50" O.D. | |
| 11 | 710-0152 | | Hex Scr. 3/8-24 x 1.00" Lg.* | | 51 | 736-0231 | | FI-Wash. .344 x 1.125 | |
| 15 | 710-0259 | | Hex Sems Scr. 5/16-18 x .62" Lg.* | | 52 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 17 | 736-0119 | | L-Wash. 5/16" Scr.* | | 53 | 710-0118 | | Hex Scr. 5/16-18 x .75" Lg.* | |
| 18 | 712-0123 | | Hex Nut 5/16-24 Thd.* | | 54 | 732-0233 | | Spring Extension .62 O.D. x 4.94 Lg. | |
| 24 | 712-0181 | | Hex Top L-Nut 3/8-16 Thd.* | | 60 | 712-0107 | | Hex Cent. L-Nut 1/4-20 Thd. | |
| 25 | 710-0600 | | Hex Wash.-Hd. Self Tapp. Scr. 5/16-24 x .50" Lg. | | 61 | 04196 | | Hold Down Clamp | |
| 26 | 04204 | | Belt Pusher | | 62 | 712-0107 | | Hex Cent. L-Nut 1/4-20 Thd. | |
| 27 | 04688 | | Idler Brkt. Ass'y. | | 63 | 756-0370 | | Idler Bearing Ass'y. | |
| 28 | 738-0183 | | Shoulder Scr. .500" Dia. x .215 | | 64 | 736-0300 | | FI-Wash. .385" I.D. x .870" O.D. | |
| 31 | 04673 | | Inner Tine Adapter Ass'y. | | 65 | 07353 | | Belt Clip | |
| 32 | 712-0116 | | Hex Center L-Nut 3/8-24 Thd. | | 66 | 712-0158 | | Hex Cent. L-Nut 5/16-18 Thd. | |
| 33 | 04683 | | Outer Tine Adapter Ass'y. | | 67 | 747-0148 | | Lower Control Rod | |
| 34 | 710-0191 | | Hex Scr. 3/8-24 x 1.25" Lg.* | | 70 | 754-0196 | | V-Belt 1/2" x 30" Lg. (Forward Belt) Fiber "B" | |
| 35 | 742-0105 | | Tine 12"—Left Hand | | 71 | 714-0105 | | Sq. Key 3/16 x 3/16 x 1.00" Lg. | |
| 36 | 742-0106 | | Tine 12"—Right Hand | | 72 | 711-0599 | | Clevis Pin | |
| 37 | 736-0169 | | L-Wash. 3/8" Scr.* | | | | | | |

*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(463—Top Flite Red) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g Top Flite Red Finish—04624 (463))

The tiller is not under warranty by the tiller manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines-Gasoline."

Find us fast in the



GEAR CASE ASSEMBLY 717-0305

217-100A

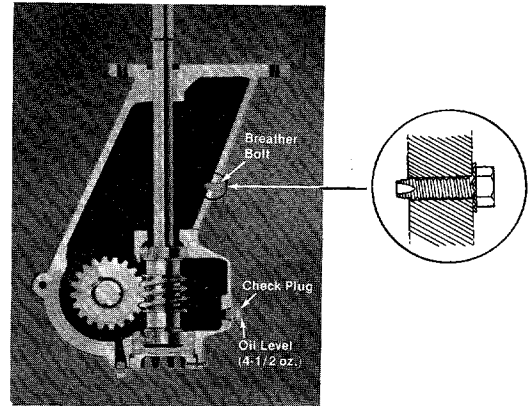
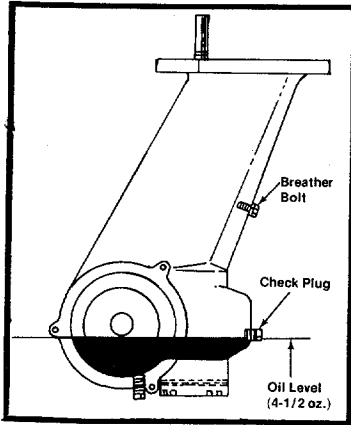
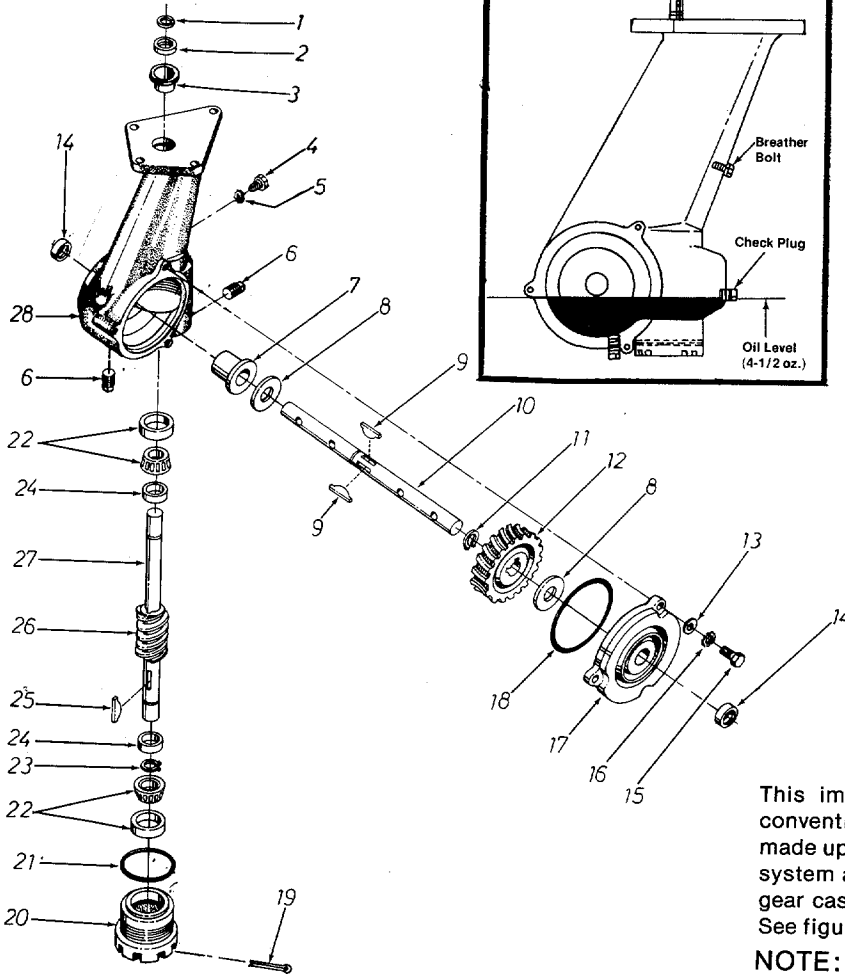


FIGURE 1.

This improved tiller gear case is not equipped with the conventional type breather plug. In its place is an assembly made up of a self tapping screw and a star type washer. This system allows adequate relief of built up pressure within the gear case. It also reduces lubricant leakage to a minimum. See figure 1.

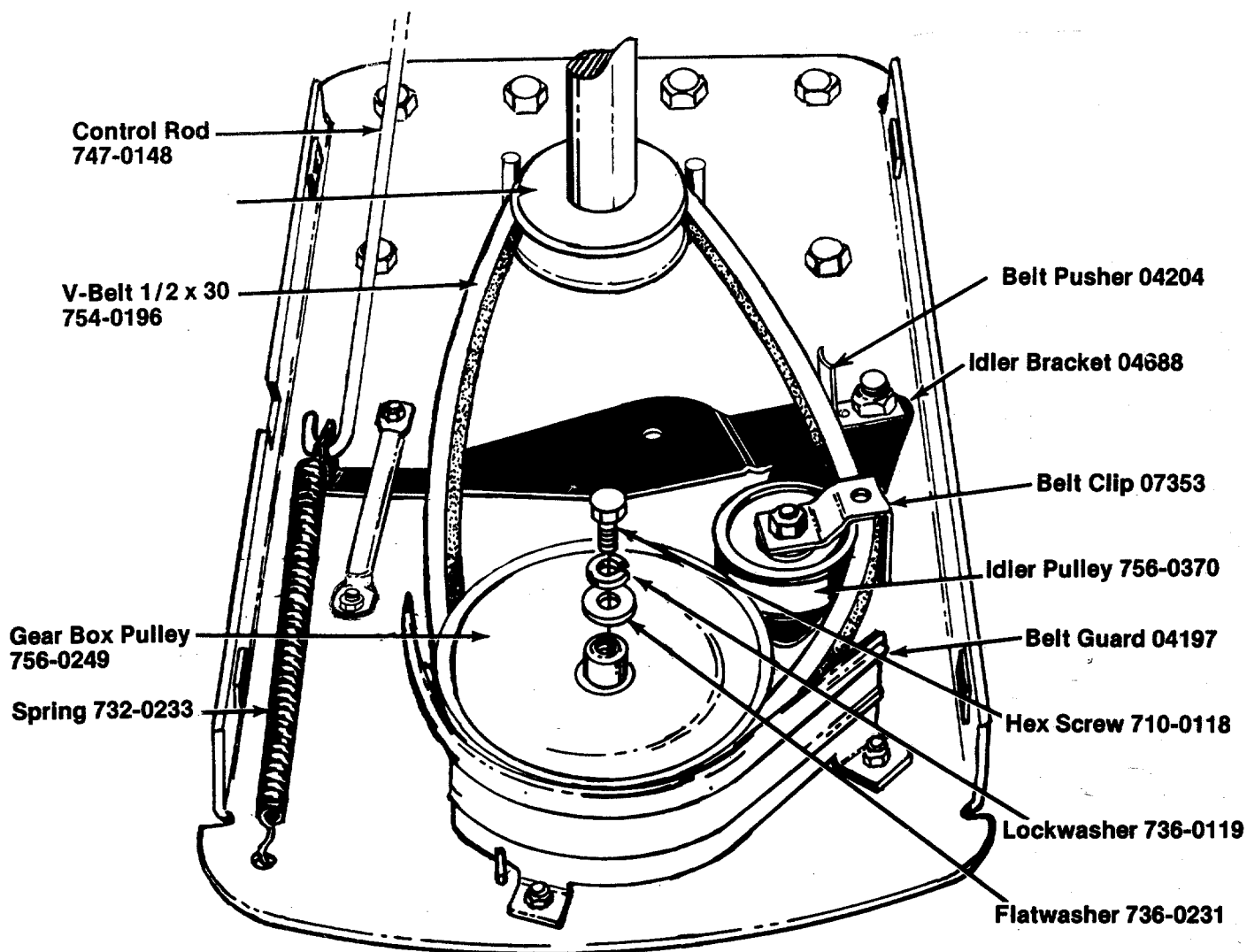
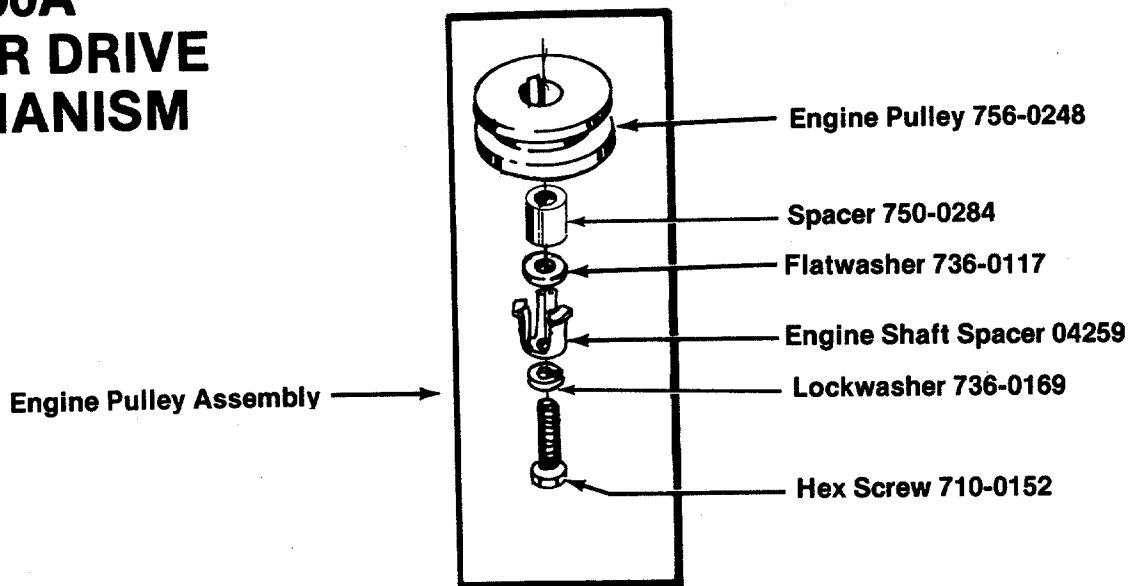
NOTE: Use 4½ ounces of Pennant Oil EP#35000. Order Part No. 737-0136.

PARTS LIST FOR GEAR CASE ASSEMBLY 717-0305

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|---------------------------------------|----------|
| 1 | 716-0119 | | Snap Ring .75" Dia. Shaft | | 16 | 736-0261 | | Wash.—Flat Toothed (Special) | |
| 2 | 721-0100 | | Oil Seal .75" Dia. Shaft | | 17 | 741-0188 | | Bearing Cap with Bearing | |
| 3 | 741-0197 | | Sleeve Brg. .752 I.D. x .878 O.D. x 1.00" Lg. | | 18 | 735-0101 | | "O"-Ring 3.62" I.D. x 3.88 O.D. x .12 | |
| 4 | 710-0599 | | Hex Wash. Self-Tapp. Scr. Ext. L-Wash. ¼" | | 19 | 714-0474 | | Cotter Pin 1/8" Dia. x .75" Lg.* | |
| 5 | 736-0222 | | Ext. L-Wash. ¼" | | 20 | 10583 | | Bearing Adjustment Cap | |
| 6 | 737-0103 | | Sq. Hd. Pipe Plug 3/8" Thd.* | | 21 | 735-0100 | | "O"-Ring 2.12 I.D. x 2.28 O.D. x .12 | |
| 7 | 741-0189 | | Flange Brg. 1.00 I.D. | | 22 | 741-0107 | | Roller Brg. Ass'y. .75 I.D. | |
| 8 | 736-0259 | | Fl-Wash. 1.00" I.D. x 1.62" O.D. x .095 | | 23 | 716-0101 | | Snap Ring for .75" Dia. Shaft | |
| 9 | 714-0103 | | #91 Woodruff Key ¼ x ¾" Dia. | | 24 | 711-0469 | | Spacer .755 I.D. x 1.265 O.D. x .502 | |
| 10 | 711-0622 | | Tine Shaft 1.00" Dia. | | 25 | 714-0126 | | #9 Hi-Pro Key 3/16 x .75" Dia. | |
| 11 | 716-0102 | | Snap Ring for 1.00" Dia. Shaft | | 26 | 717-0312 | | Worm | |
| 12 | 717-0311 | | Worm Wheel | | 27 | 738-0171 | | Worm Shaft | |
| 13 | 736-0119 | | L-Wash. 5/16" Scr.* | | 28 | 719-0223 | | Gear Case | |
| 14 | 721-0102 | | Oil Seal Double Lip 1.00" Shaft | | | | | | |
| 15 | 710-0371 | | Hex Scr. 5/16-18 x .88" Lg. (Plastic Insert) | | | | | | |

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

217-100A TILLER DRIVE MECHANISM



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

| | | |
|----------------------|-------------------------------------|--------------------------------|
| ALABAMA | BIRMINGHAM | |
| | Auto Electric & Carburetor Co. | 2625 4th Ave. S. 35233 |
| ARKANSAS | NORTH LITTLE ROCK | |
| | Sutton's Lawn Mower Shop | Rt. 4, Box 368 72117 |
| | FORT SMITH | |
| | Mity Mite Motors, Inc. | 2515 Towson Ave. 72901 |
| CALIFORNIA | SAN BERNARDINO | |
| | Lawn Mower Supply Co. | 25608 E. Baseline 92410 |
| | SAN FRANCISCO | |
| | J.W. Jewett Co. | 981 Folsom St. 94107 |
| | SACRAMENTO | |
| | Luttig & Severson | 2030 28th St. 95818 |
| COLORADO | DENVER | |
| | South Denver Lawn Equip. | 527 West Evans 80223 |
| CONNECTICUT | SUFFIELD | |
| | The Jones & Ramsey Co. | 850 Thompsonville Rd. 06078 |
| FLORIDA | JACKSONVILLE | |
| | Radco Distributors | 2403 Market St. 32206 |
| | CORAL GABLES | |
| | Moz-All of Florida, Inc. | 365 Greco Ave. 33146 |
| GEORGIA | EAST POINT | |
| | East Point Cycle & Key | 2834 Church St. 30344 |
| ILLINOIS | LYONS | |
| | Keen Edge Co. | 8615 Ogden Ave. 60534 |
| INDIANA | ELKHART | |
| | Parts & Sales Inc. | 2101 Industrial Pkwy. ...46514 |
| IOWA | DUBUQUE | |
| | Power Lawn & Garden Equip. | 2551 J.F. Kennedy 52001 |
| KANSAS | WICHITA | |
| | Hixon, Inc. | 3030 Mascot 67204 |
| LOUISIANA | NEW ORLEANS | |
| | Suhren Engine Co. | 8330 Earhart Blvd. 70118 |
| MARYLAND | TAKOMA PARK | |
| | Center Supply Co. | 6867 New Hampshire Ave. 20012 |
| MASSACHUSETTS | SPRINGFIELD | |
| | Morton B. Collins Co. | 300 Birnie Ave. 01107 |
| MICHIGAN | MOUNT CLEMENS | |
| | Power Equipment Dist. | 36463 South Gratiot... 48043 |
| | LANSING | |
| | Lorenz Service Co. | 2500 S. Pennsylvania .. 48900 |
| MINNESOTA | MINNETONKA | |
| | Hance Distributing Inc. | 11212 Wayzata Blvd. ...55343 |
| MISSISSIPPI | BILOXI | |
| | Biloxi Sales & Service, Inc. | 506 Caillavet St. 39533 |
| MISSOURI | KANSAS CITY | |
| | Automotive Equip. Service | 3117 Holmes St. 64109 |
| | ST. LOUIS | |
| | Henzler, Inc. | 2015 Lemay Ferry Rd. 63125 |
| NEW YORK | CARTHAGE | |
| | Gamble Dist., Inc. | West End Ave. 13619 |
| | SYRACUSE | |
| | Kimber's, Inc. | 115 N. Geddes St. 13204 |

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines Gasoline*, Briggs & Stratton or Tecumseh Lauson

| | | |
|-----------------------|--|--------------------------------|
| NORTH CAROLINA | GREENSBORO | |
| | Dixie Sales Company | 327 Battleground Ave.. 27402 |
| | GOLDSBORO | |
| | Smith Hardware Co. | 515 N. George St. 27530 |
| OHIO | WADSWORTH | |
| | National Central | 687 Seville Rd. 44281 |
| | CLEVELAND | |
| | Bleckrie, Inc. | 7900 Lorain Ave. 44102 |
| | CARROL | |
| | Stebe's Mid-State Mower Supply Box 366 | 43112 |
| | WILLARD | |
| | Sunshine Wholesale Tire Outlet Route 224 | 44890 |
| | MANSFIELD | |
| | McClure Lawn & Garden Supply...1114 Lexington Ave. . | 44903 |
| OKLAHOMA | MUSKOGEE | |
| | Victory Motors, Inc. | 605 S. Cherokee 74401 |
| | ADA | |
| | Ada Auto Supply | 301 E. 12th St. 74820 |
| OREGON | PORTLAND | |
| | Kenton Supply Co. | 8216 N. Denver Ave. . 97217 |
| PENNSYLVANIA | LANCASTER | |
| | Raub Supply Co. | James & Mulberry Sts...17604 |
| | PITTSBURGH | |
| | Bluemont Co. | 11125 Frankstown Rd.. 15235 |
| TENNESSEE | KNOXVILLE | |
| | Master Repair Service | 2423 Broadway, N.E. ...37917 |
| | MEMPHIS | |
| | Memphis Cycle & Supply Co. | 421 Monroe Ave. 38103 |
| | American Sales & Service, Inc. . | 1922 Lynnbrook 38116 |
| TEXAS | DALLAS | |
| | Marr Brothers, Inc. | 423 E. Jefferson 75203 |
| | HOUSTON | |
| | Bullard Supply Co. | 2409 Commerce St. 770 |
| | SAN ANTONIO | |
| | Catto & Putty, Inc. | P.O. Box 240878206 |
| | FORT WORTH | |
| | Woodson Sales Corp. | 1702 N. Sylvania 76111 |
| UTAH | SALT LAKE CITY | |
| | A-1 Engine & Mower Co. | 437 E. 9th St.84111 |
| VERMONT | BURLINGTON | |
| | Vermont Appliance Co. | 44 Lakeside Ave.05401 |
| VIRGINIA | RICHMOND | |
| | RBI Corp. | 963 Myers St. 23260 |
| WASHINGTON | SEATTLE | |
| | Bailey's Rebuild, Inc. | 1325 E. Madison St. ...98102 |
| WEST VIRGINIA | CHARLESTON | |
| | Young's, Inc. | 233 Virginia St., E. ... 25301 |
| WISCONSIN | APPLETON | |
| | Automotive Supply Co. | 123 S. Linwood Ave. ...54911 |

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.

MTD PRODUCTS INC • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>