

Sears

**owners  
manual**

**MODEL NO.  
247.298770**

**CAUTION:**  
Read **SAFETY  
RULES** and  
**INSTRUCTIONS**  
carefully



Sears

**CRAFTSMAN®**

**5 H.P. CHAIN DRIVE  
REAR TINE TILLER**

- **Assembly**
- **Operating**
- **Maintenance**
- **Repair Parts**

**SEARS, ROEBUCK AND CO., Chicago, Ill. 60684 U.S.A.  
and SIMPSONS-SEARS LIMITED, Toronto, Canada**

## FULL ONE YEAR WARRANTY

For one year from the date of purchase, Sears will repair any defect in material or workmanship in this TILLER at no charge.

If the TILLER is used for commercial or rental purposes, this warranty applies for only thirty days from the date of purchase.

Warranty service is available by contacting the nearest Sears store or Service Center throughout the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co.  
Sears Tower  
BSC 41-3  
Chicago, IL 60684

## 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.

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## INTRODUCTION

This Product has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears, or Simpson-Sears Service Department. They have well qualified, competent trained technicians and the proper tools to service or repair this unit.

## PRE-ASSEMBLY



### NOTE

The right and left side of your tiller is determined from operator's position.

Before any step is undertaken, the instructions for that step should be read through.

### TOOLS REQUIRED:

1. (2) 7/16" Socket, open or box wrench.
2. (1) 9/16" Socket, open or box wrench.
3. (1) 1/4" Flat Screwdriver.
4. (1) Adjustable Wrench.

### MATERIALS REQUIRED:

1. Funnel (for gas and oil—NOTE: DO NOT MIX)
2. S.A.E.-30 Oil—2¾ pints

3. Gas (regular)
4. Cleaning rag

### PARTS IN CARTON

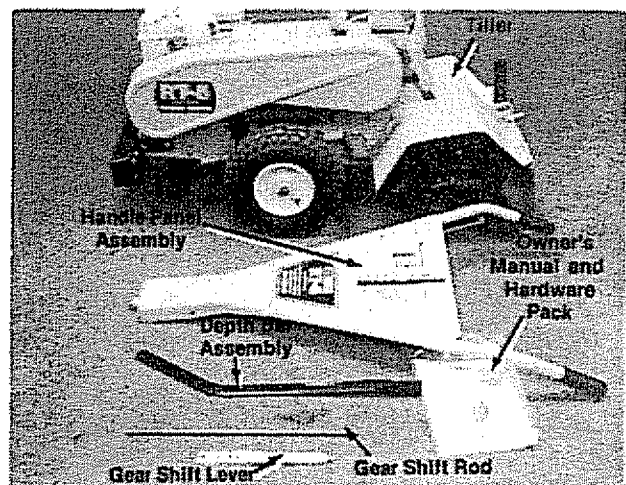


FIGURE 1.

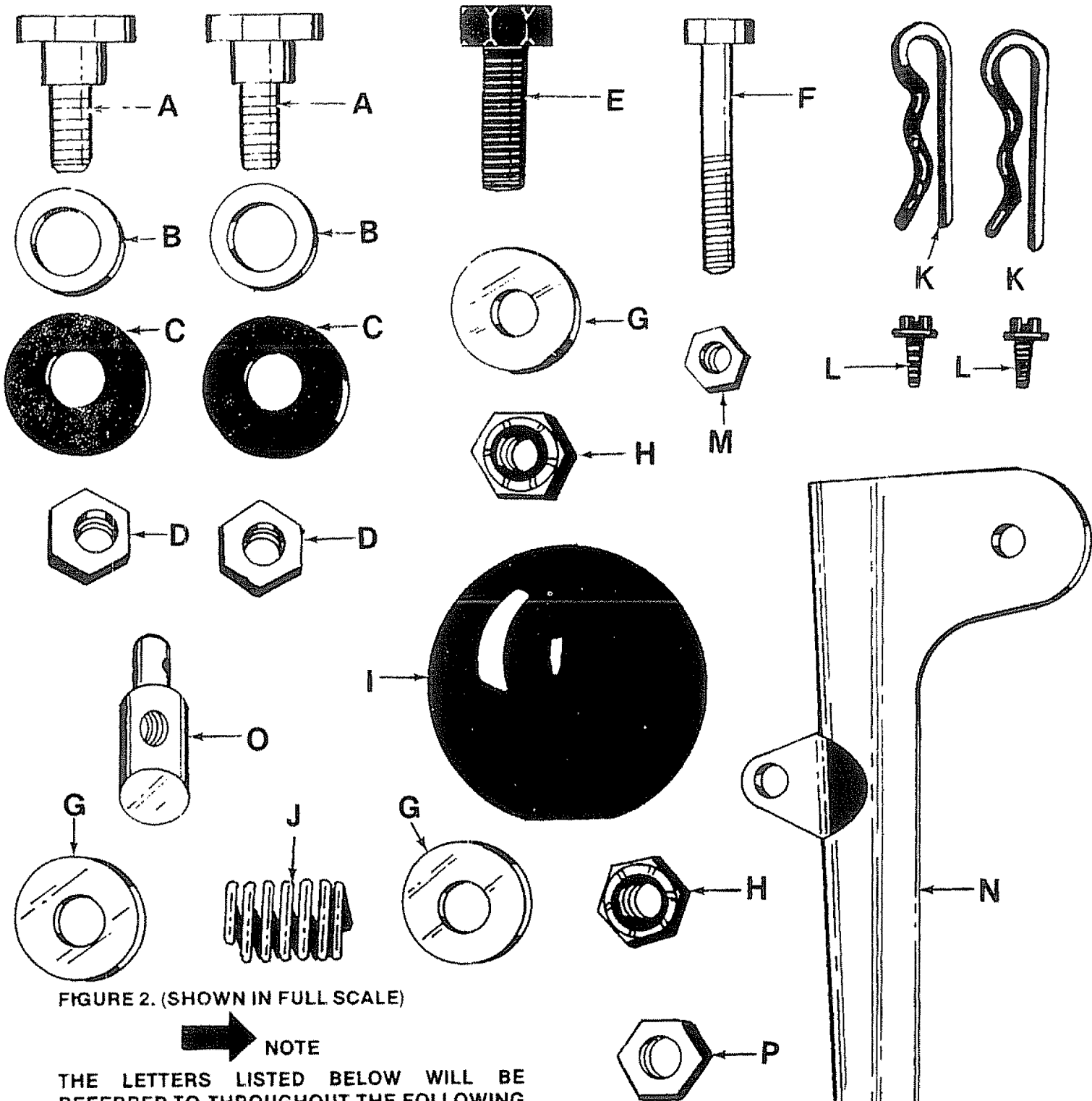


FIGURE 2. (SHOWN IN FULL SCALE)

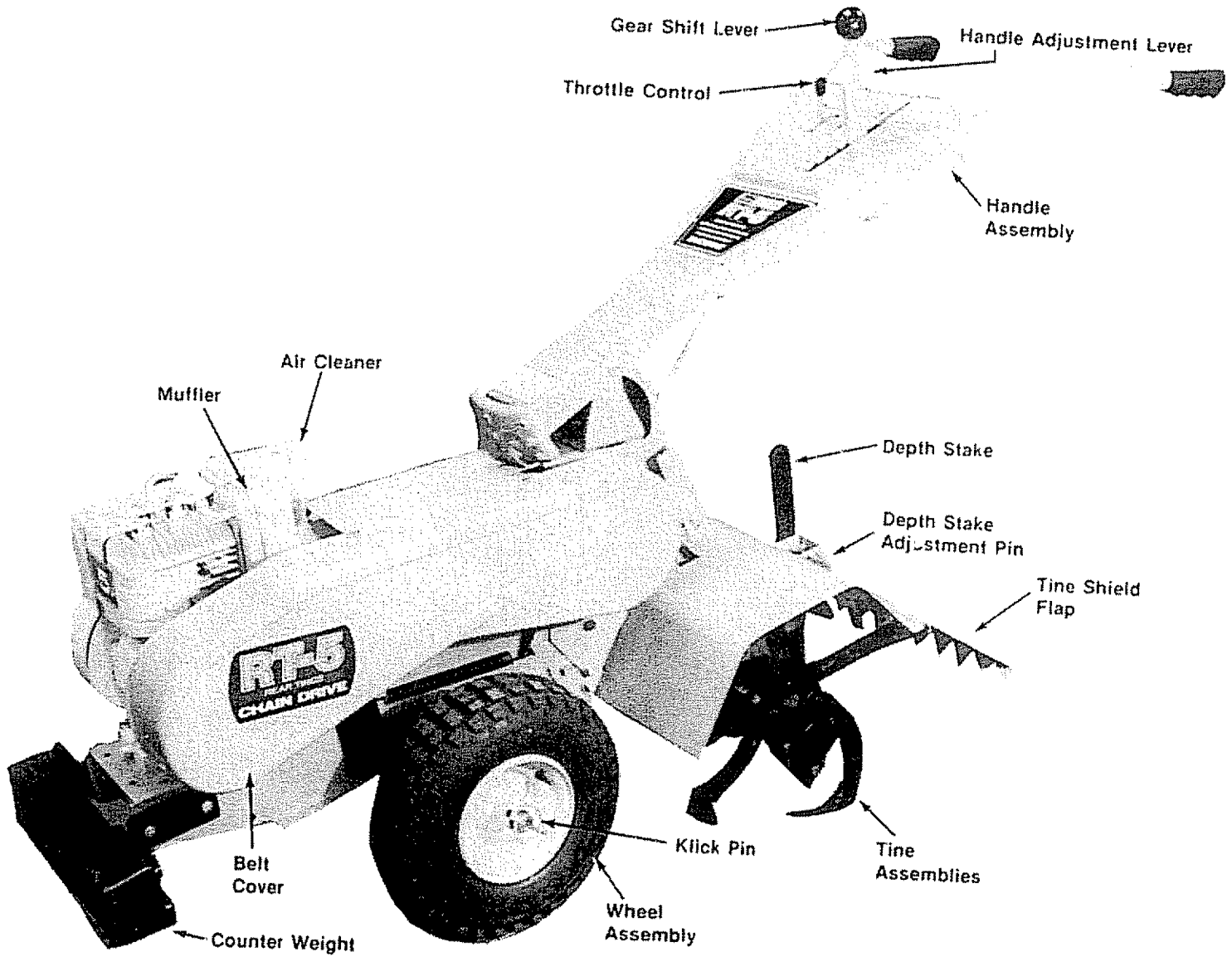
**NOTE**

THE LETTERS LISTED BELOW WILL BE REFERRED TO THROUGHOUT THE FOLLOWING TEXT FOR EASIER HARDWARE IDENTIFICATION.

**LIST OF CONTENTS IN HARDWARE PACK:**

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| A (2) Shoulder Bolts                | I (1) Gear Shift Knob           |
| B (2) Flat Washers                  | J (1) Compression Spring        |
| C (2) Belleville Washers            | K (2) Hair Pin Cotter           |
| D (2) Hex Nuts 3/8-18 Thread        | L (2) Self Tapping Screws       |
| E (1) Hex Screw 3/8-24 x 1.25" Long | M (1) Hex Nut 1/4-20 Thread     |
| F (1) Hex Screw 1/4-20 x 1.75" Long | N (1) Lever                     |
| G (3) Flat Washers 3/8"             | O (1) Ferrule                   |
| H (2) Hex Locknuts 3/8-24 Thread    | P (1) Hex Jam Nut 3/8-24 Thread |

# TILLER IDENTIFICATION



# ASSEMBLY INSTRUCTIONS

## 1 Handle Assembly

- A. Place the handle assembly in position on the tiller so that the holes in handle line up with holes in mounting bracket.
- B. Place flat washer (B) and belleville washer (C) over shoulder on shoulder bolt (A). Place shoulder bolt and two washers through handle mounting holes and secure with hex nut (D) from the inside of handle. See figure 4.

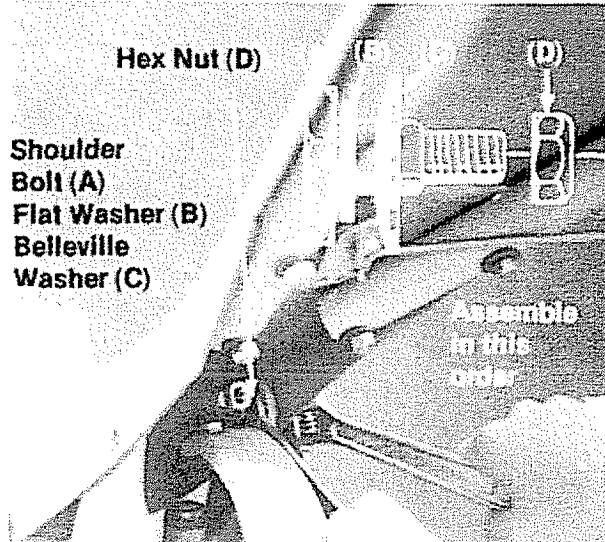


FIGURE 4.

- C. Remove depth stake from tiller and preassemble depth stake to drag bar assembly with hex screw (E), flat washer (G) and hex locknut (H). See Figure 5. Tighten nut and bolt, but do not over tighten. Parts must pivot.



### NOTE

Flat washer must go against slot on drag bar assembly.

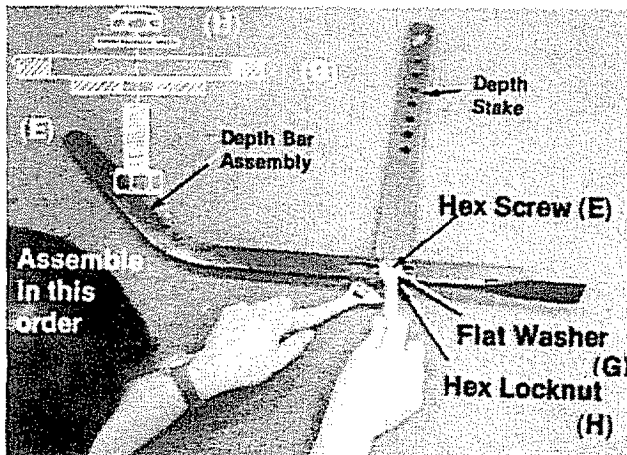


FIGURE 5.

- D. Tip the tiller forward, so it rests on counterweight. Slide depth stake up through tiller as shown in figure 6. Pull depth stake adjustment pin on tiller to lock in place.

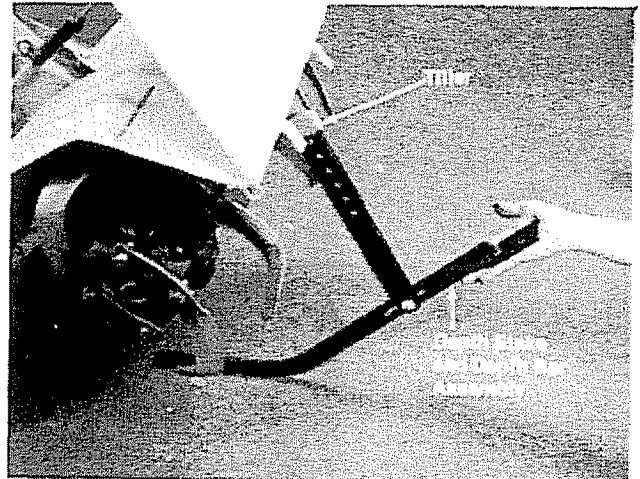


FIGURE 6.

- E. Attach front end of depth bar assembly to transmission housing. Slip depth bar over bolt and secure with hair pin cotter (K). See figure 7.

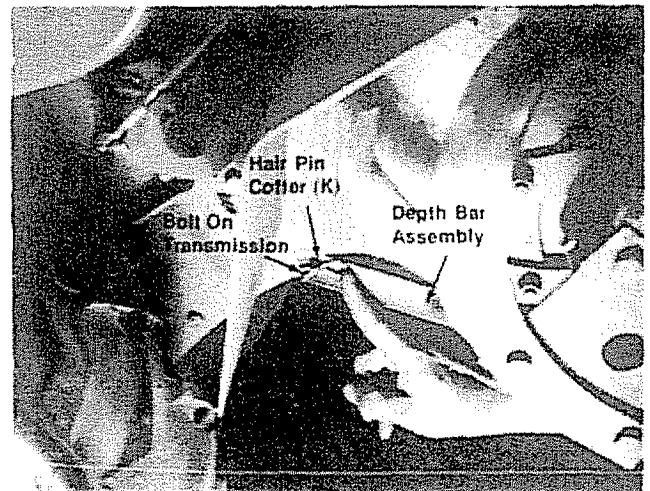


FIGURE 7

- F. Assemble notched edge of gear shift lever so notch faces forward. Place gear shift lever through slot in handle panel and bottom hole over weld stud. Secure with flat washer (G), compression spring (J), another flat washer (G) and hex locknut (H). See figure 8.

- G. Tighten hex locknut until nut is flush with stud. See figure 8.

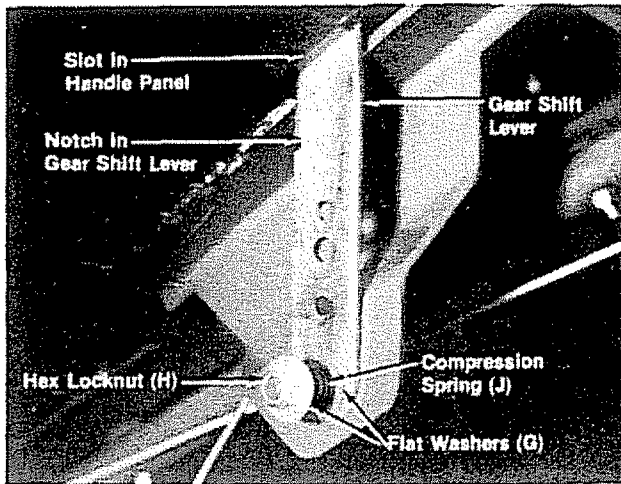


FIGURE 8.

H. Thread hex jam nut (P) on one end of gear shift rod, then thread gear shift rod into ball joint on the top of pivot horn assembly, 10 to 12 complete turns, approximately 1/2 inch. See figure 9.

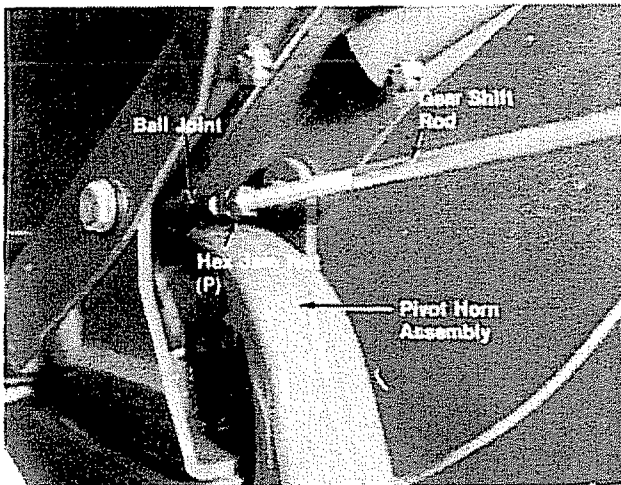


FIGURE 9.

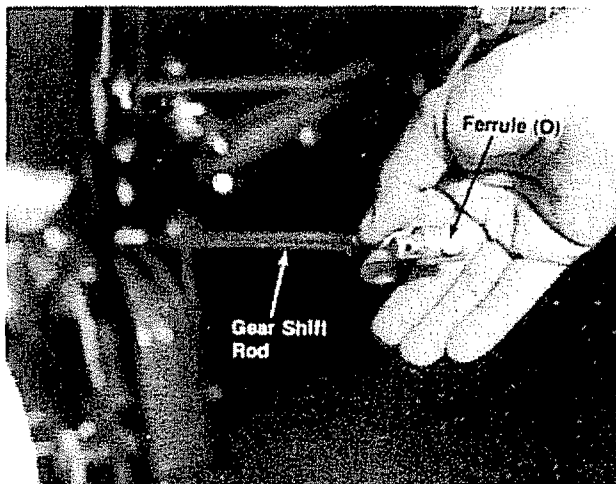


FIGURE 10.

- I. Thread ferrule (O) on other end of gear shift rod. See figure 10.
- J. Secure ferrule in gear shift lever (as shown in figure 11) with hair pin cotter (K).

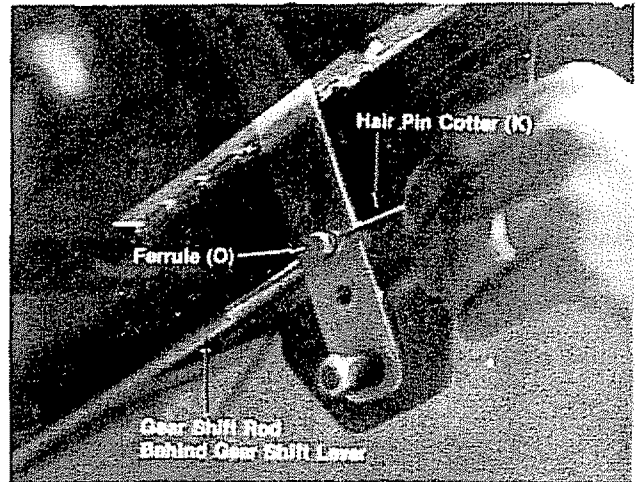


FIGURE 11.

- K. To assemble the handle adjustment lever, hook handle adjustment rod (already on handle) into lever. Hook to the outside. See figure 12.
- L. Place handle adjustment lever in place on handle and secure with hex screw (F) and locknut (M). See figure 12. Do not over tighten handle adjustment lever must pivot freely.

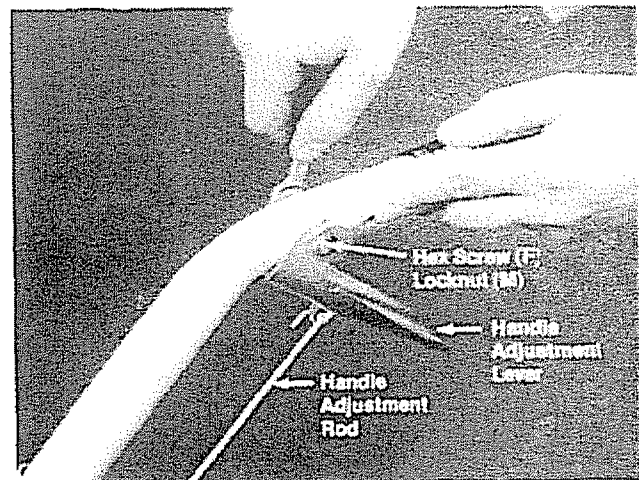


FIGURE 12.

- M. Throttle Control Lever.



The throttle control may have four holes in the lever bracket. The holes on the outside edge are to be used for mounting on this unit. See figure 13.



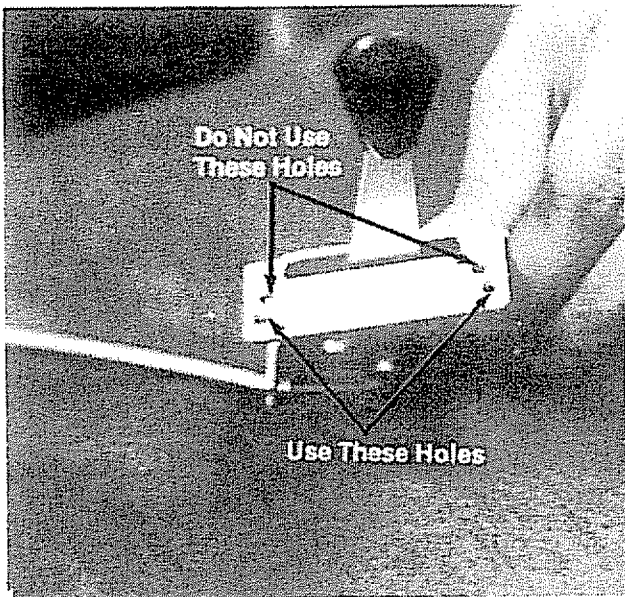


FIGURE 13.

Place throttle control lever up through the handle panel and secure with two self tapping screws (L), using a 1/4" flat screwdriver. See figure 14.

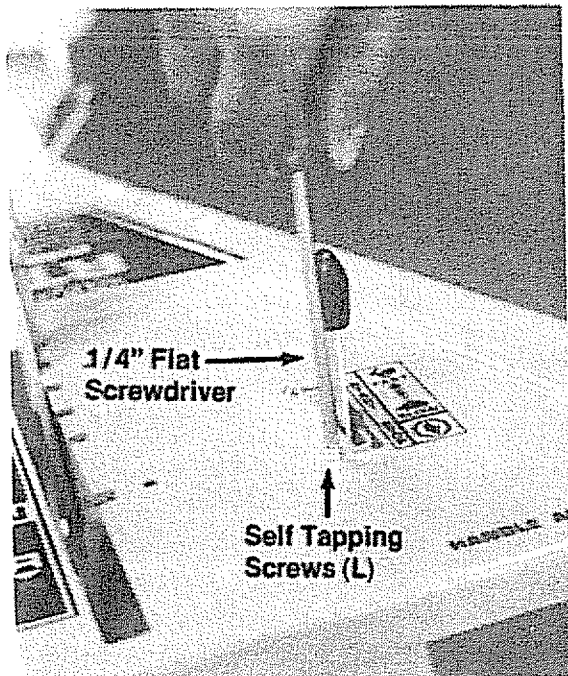


FIGURE 14.



**WARNING**

Engine is shipped without oil.

## ENGINE PREPARATION

1. Before starting. Fill crankcase with 2¾ pints of SAE 30 heavy duty detergent oil. Be sure that engine is level. See figure 15.

2. Change oil after first 2 hours of operation and every 25 hours thereafter. Check oil every 8 operating hours.

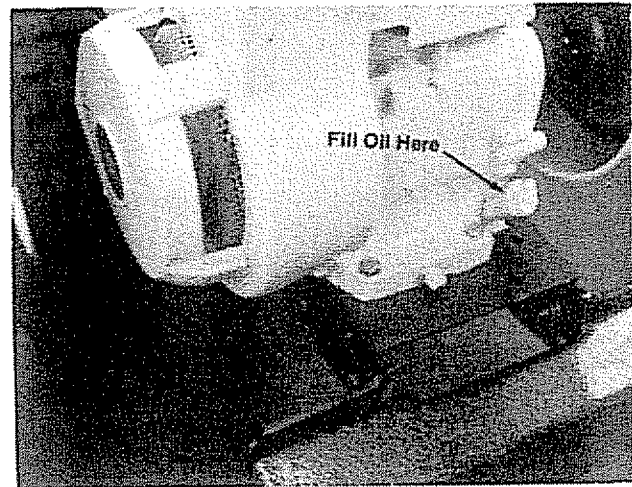


FIGURE 15.

3. Fill fuel tank with clean fresh regular grade of gasoline. See figure 16.

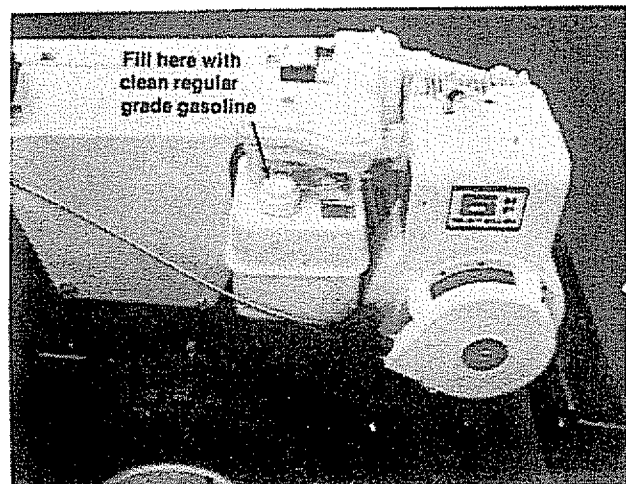


FIGURE 16.

## ADJUSTMENTS



**WARNING**

After all assembly is completed, this final adjustment must be made prior to initial operation.

### Gear Shift Rod Final Adjustment

1. Place klick pins in freewheeling position. See figure 17.

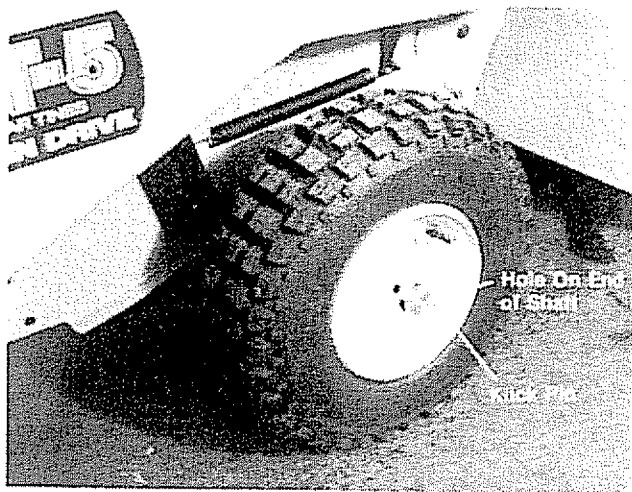


FIGURE 17.

2. Pull the depth bar adjustment pin and move the depth stake all the way down, so the lines DO NOT touch the ground. See figure 18.
3. Block the front wheels as shown in figure 18.

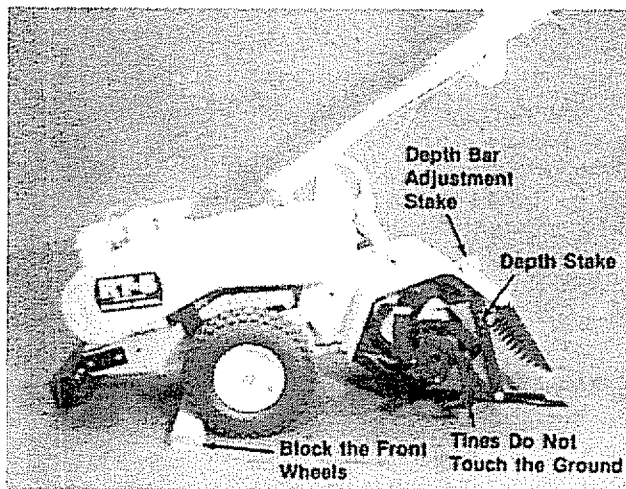


FIGURE 18.

4. Place the gear shift lever in Neutral (N) position.
5. Place the throttle in the Start position.
6. Pull choke lever out (if engine is cold).
7. Start the engine.
8. Engage the gear shift lever through the five gears with the engine running and return to Neutral (N).
9. Stop the engine.
10. Remove the hair pin from ferrule and pull out of gear shift lever.
11. Place gear shift lever in first gear (and pull lever to rear of slot). Adjust the ferrule to fit gear shift lever, and replace the hair pin.

Handle Adjustment Lever. (See figure 19.)



Figure 19 is viewed from the bottom of handle panel.

- A. Use if not enough free play.
- B. Normal setting.
- C. Use if pin will not withdraw completely from bracket.

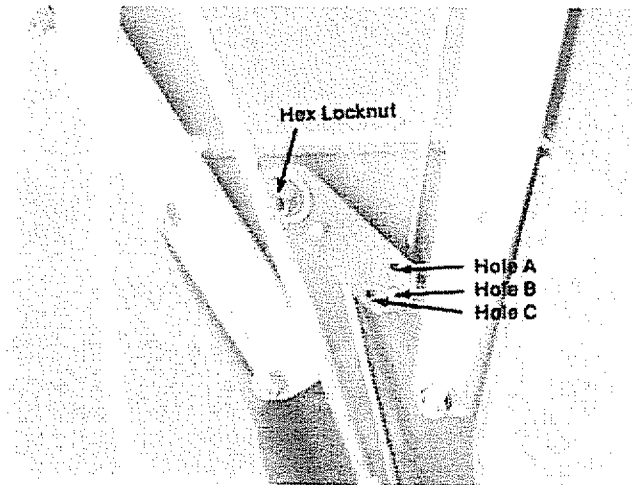


FIGURE 19.

To make the above adjustment loosen hex locknut and reposition the rod in Hole A, B or C.

Additional adjustment for the gear shift rod can be made after the tiller has been in service for a while.

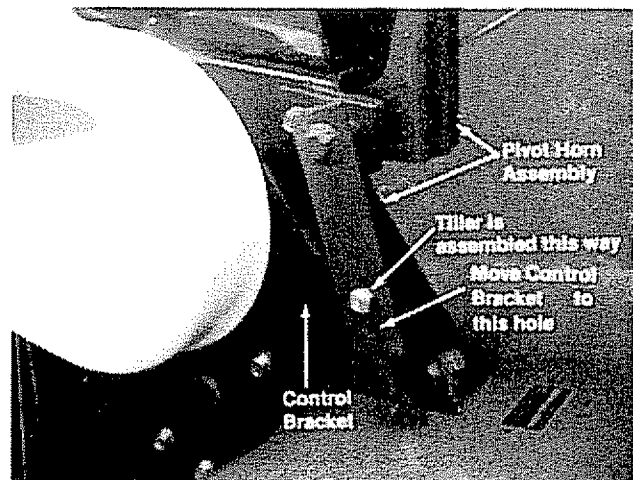


FIGURE 20.

When the belt has become worn and/or stretched or the friction wheel has become worn, make the following adjustment.

1. Move the control bracket to the bottom hole on the pivot horn assembly and readjust the gear shift rod. See figure 20.

# CONTROLS

## Location and Use.

1. **Gear Shift Lever:** The gear shift lever is located in the center of handle panel.

A. Forward (1 thru 5)—Move the lever to the left and forward for each gear. See figure 21.



**CAUTION**  
Do not attempt to shift gears unless engine is running.

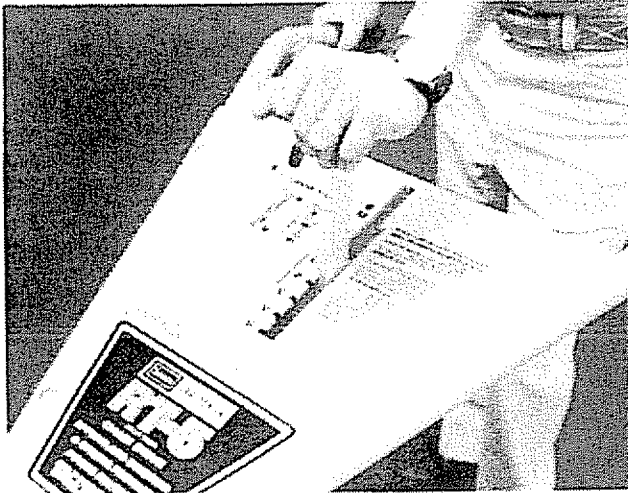


FIGURE 21.

B. Use (1) first and (2) second gears when breaking the sod for the first time.

C. Use (3) third and (4) fourth gears when tilling soil which has been tilled before.

D. Use (5) fifth gear for pulverizing soil.

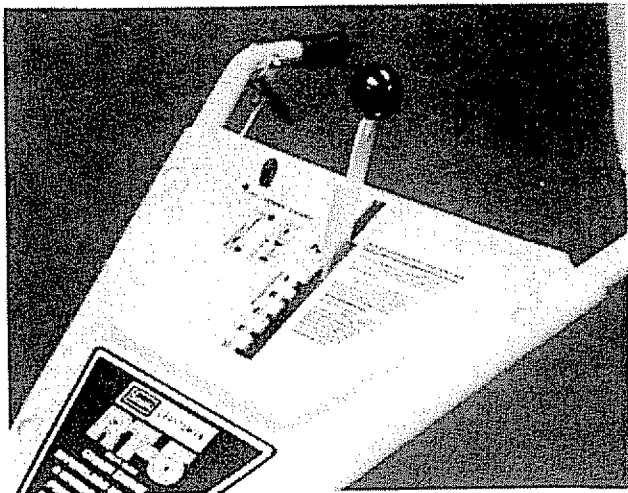


FIGURE 22.

E. Neutral (N)—Move lever to center detent. See figure 22.

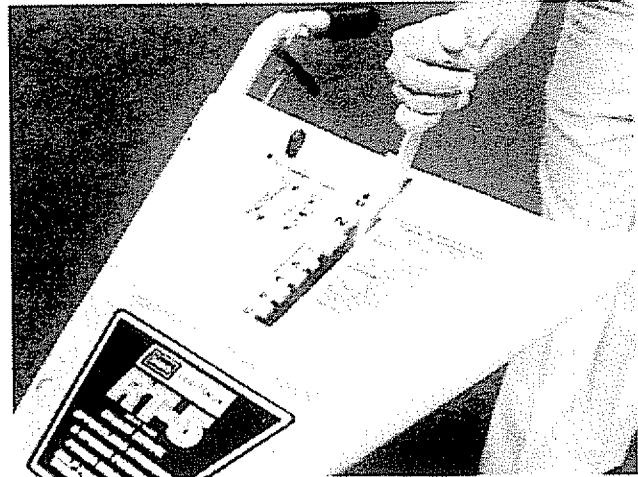


FIGURE 23.

F. Reverse (R)—Pull the gear shift lever back (upward) slowly to obtain reverse. Always use caution when using the reverse. When using reverse, if gear shift lever is released it will snap back into neutral (N). See figure 23.

2. **Throttle Control:** The throttle control lever is located on the right hand side of handle panel and controls the engine speed.

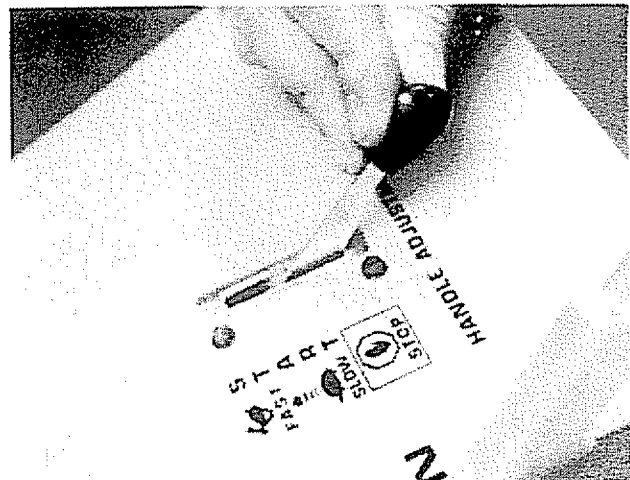


FIGURE 24.

A. Stop—Pull lever back (upward) to stop the engine. See figure 24.

B. Start—Push throttle control lever forward (down) to start position. See figure 25.

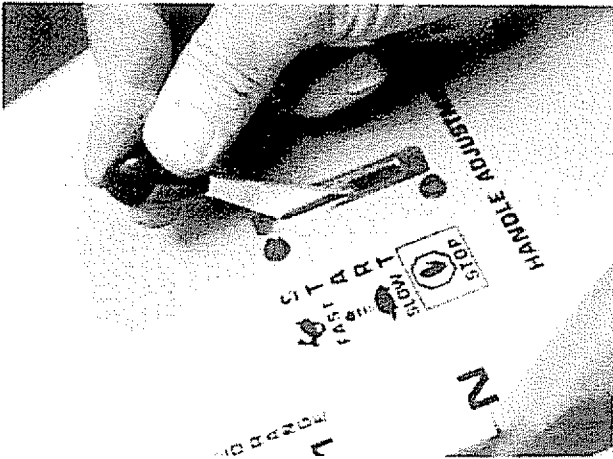


FIGURE 25.

3. **Choke:** The choke is located on the engine just below the air cleaner. To choke the engine pull the choke lever out. See figure 26.

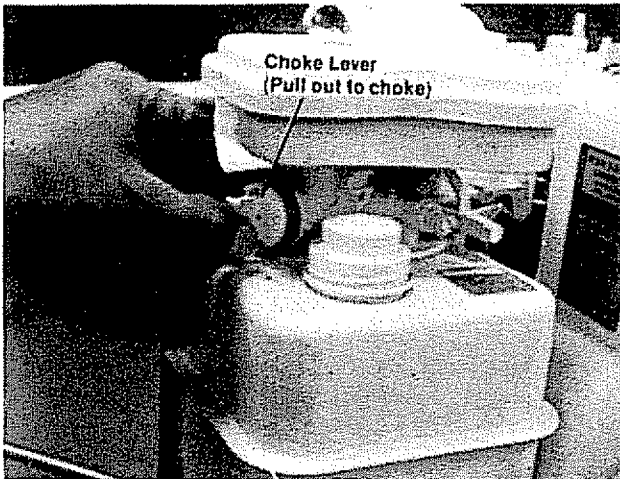


FIGURE 26.

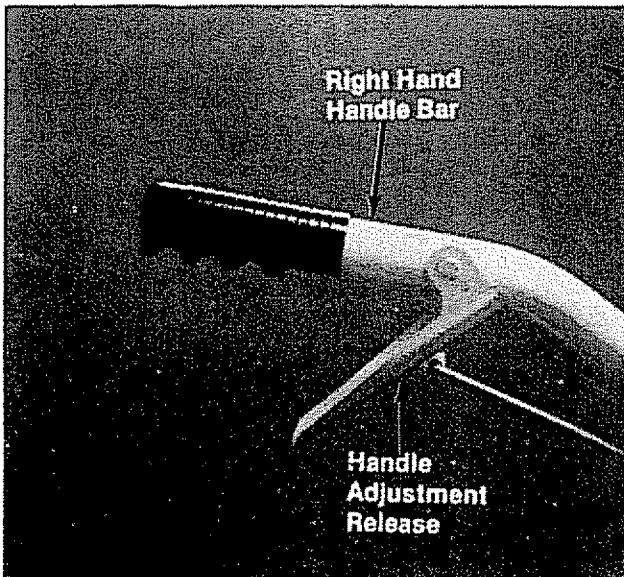


FIGURE 27.

4. **Handle Adjustment:** The handle adjustment release is located on the right hand handle bar. See figure 27.

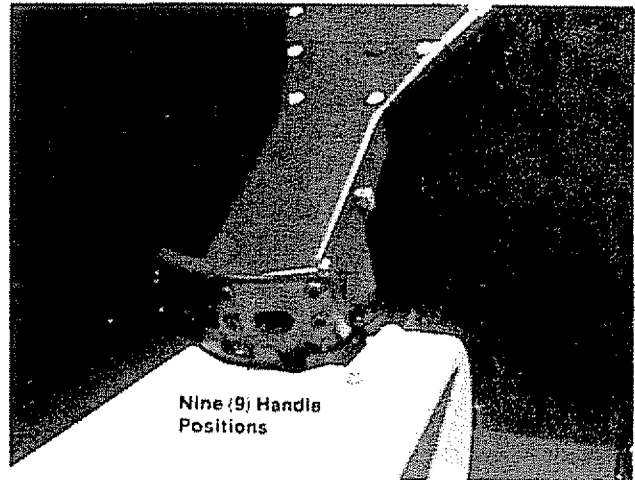


FIGURE 28.

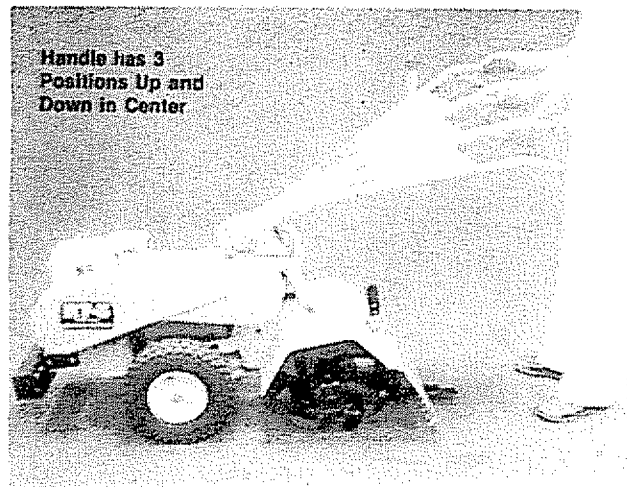


FIGURE 29.

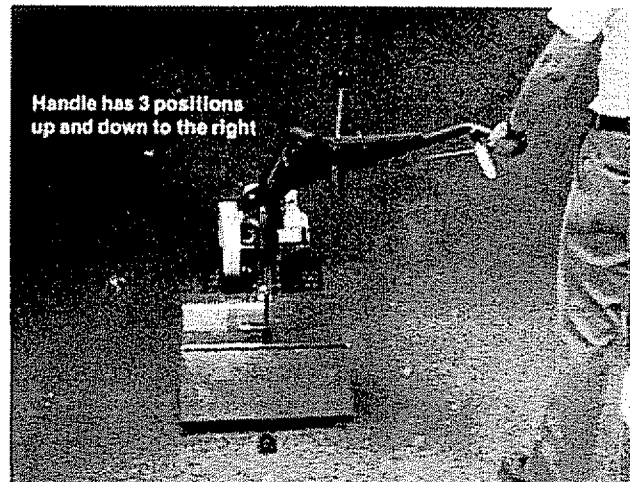


FIGURE 30.

A Squeeze up on handle adjustment lever and place the handle in one of nine (9) positions. See figures 28, 29, 30 and 31.



Figure 28 is viewed from the front of tiller for clarity.

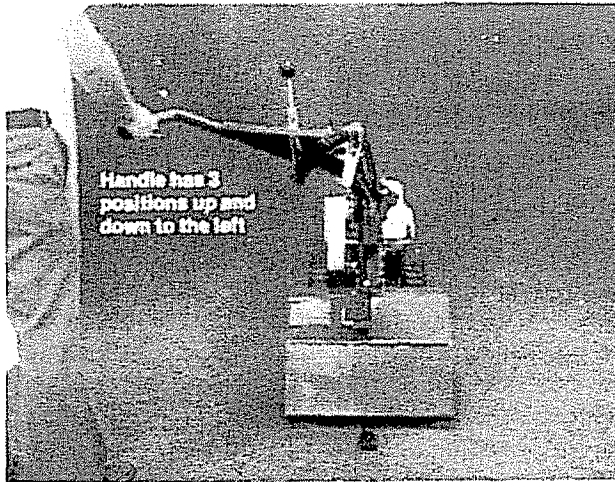


FIGURE 31.

## OPERATION

Your tiller has freewheeling and drive positions.

A Freewheeling position is when the klick pin is placed in the outer hole on wheel shaft, as shown in 32.

Freewheeling is used for transporting the tiller to and from the work area, with the engine off and the gear shift lever in Neutral (N) position.

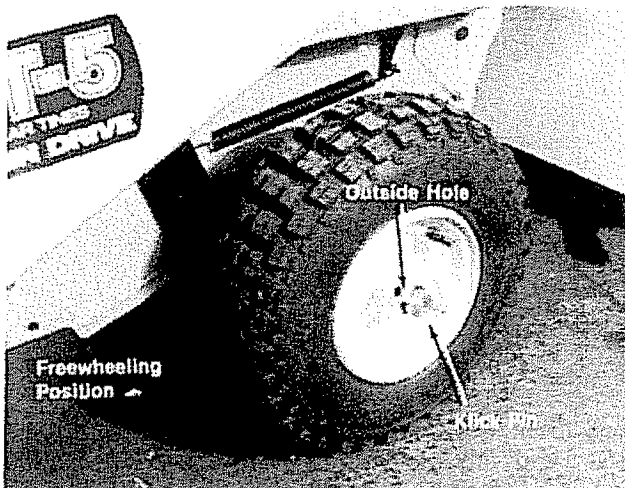


FIGURE 32.

B Drive position is when the klick pin is inserted into the inside hole of wheel shaft (hole in wheel hub) as shown in figure 33. Drive position is used for tilling.

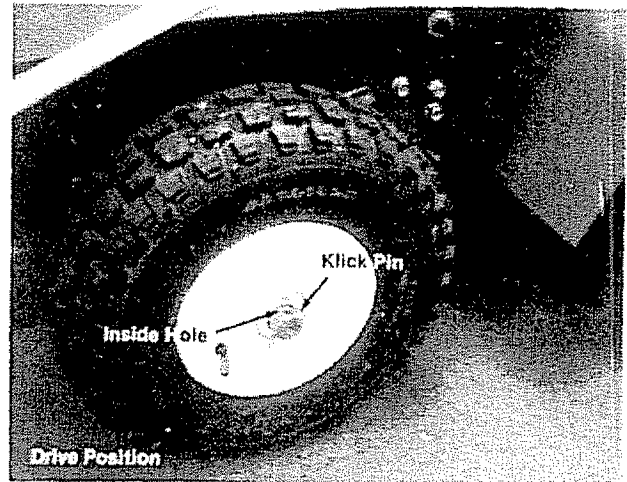


FIGURE 33.

TO START ENGINE:



**CAUTION**

BE SURE NO ONE IS STANDING IN FRONT OF THE TILLER WHILE THE ENGINE IS RUNNING OR BEING STARTED.

1. Place the gear shift lever in neutral (N) position. See figure 22.
2. Place the throttle control lever in FAST position. See figure 25.
3. Choke engine. Pull choke lever out. See figure 26. Once the engine starts, push the lever up.
4. Stand at side of tiller, grasp the starter handle and pull out rapidly. Return it slowly to the engine. Repeat as necessary. See figure 34.

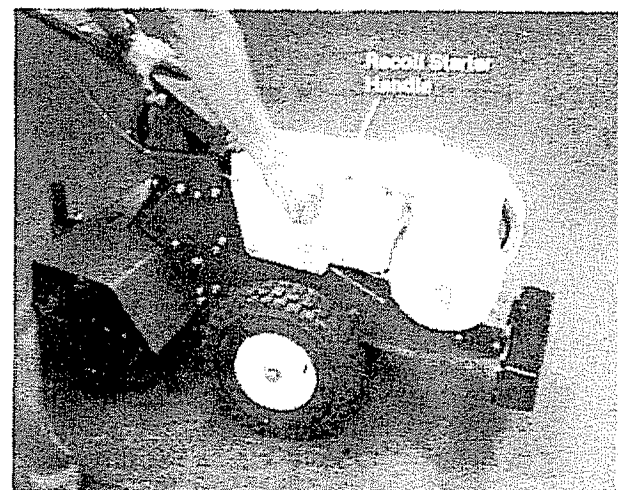


FIGURE 34.

# TILLING

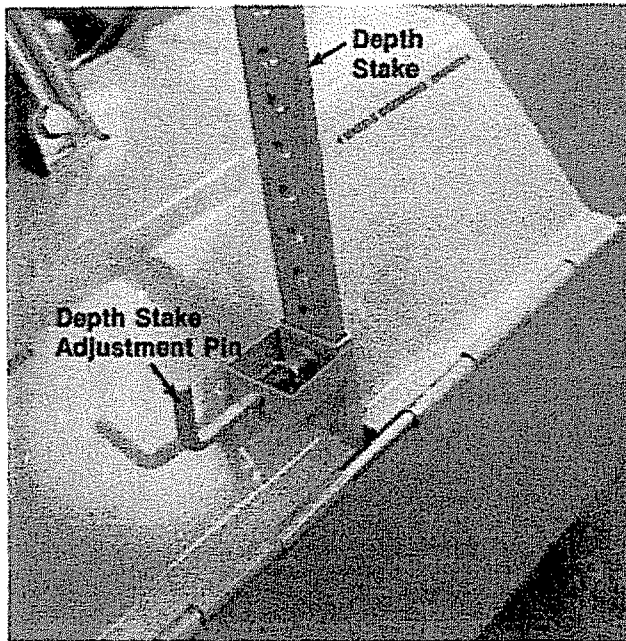


FIGURE 35.

1. Adjust the depth stake by pulling the depth stake adjustment pin. Release the depth stake. See figure 35.
2. Lower the depth stake for shallow tilling and raise the depth stake for deeper tilling.
3. Select gear on handle panel and tiller will propel itself.
  - A. For tilling in sod, raise the depth stake so the depth bar is one to two inches above the tines.

This setting is used for breaking up the sod and shallow cultivation. For further depth raise the depth stake and make one or two more passes over the area.
  - B. For tilling loose and sandy soil, further depth in tilling can be achieved by raising the depth stake to its highest setting.



When tilling, if a hard spot or rock is encountered, the tines may lift the back of the tiller out of the ground and start to walk across the ground. To correct this problem raise up on the handles.

# TILLING HINTS

Soil conditions are important for proper tilling

The tines will not readily penetrate dry, hard soil. This may contribute to excessive bounce and difficult handling of the tiller. Hard soil should be moistened prior to tilling.

Extremely wet soil will cause soil to ball up or clump.

When tilling in the Fall, all vines and long grass should be removed. This will prevent vines from wrapping around the tine shaft which slows tilling operation.

The best method will be determined by the soil condition. In some soils, the desired depth is obtained the first time over the garden. In other soils, the desired depth is obtained by going over the garden two or three times. In the latter case, the depth stake should be raised before each succeeding pass over the garden, and passes should be made across the length and width of the garden alternately. Rocks which are turned up should be removed from the garden area.

**Handle Pressure:** Further control of tilling depth and travel speed can be obtained by variation of pressure on the handles.

When using the depth stake 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 stake.

# MAINTENANCE

## BELT REPLACEMENT:



Do not use an off-the-shelf belt.

If belt replacement is required, order belt or belts by part number from your nearest Sears Service Center.

Part No. 754-0224  
5/8" x 26" Short Belt

Part No. 754-0221  
5/8" x 52" Long Belt

Your tiller has been engineered with the above belts and should not be replaced with an off-the-shelf belt. The above belts are made of special material (Kevlar Tensile) for longer life and better performance.

## REMOVING AND REPLACING BELTS

1. Remove belt cover remove three bolts, two nuts and two flat washers. See figure 36.



### CAUTION

HOT muffler in the area of belt cover Only remove the belt cover when engine is cool



FIGURE 36.

2. To remove the front belt (short) pull gear shift lever back to Reverse (R) position and hold. With a 7/16" wrench remove three screws and lockwashers holding the friction disc. See figure 37.



FIGURE 37.

3. Hold the gear shift lever in Reverse (R) position and slip the belt off engine pulley, towards the engine as shown in figure 38.

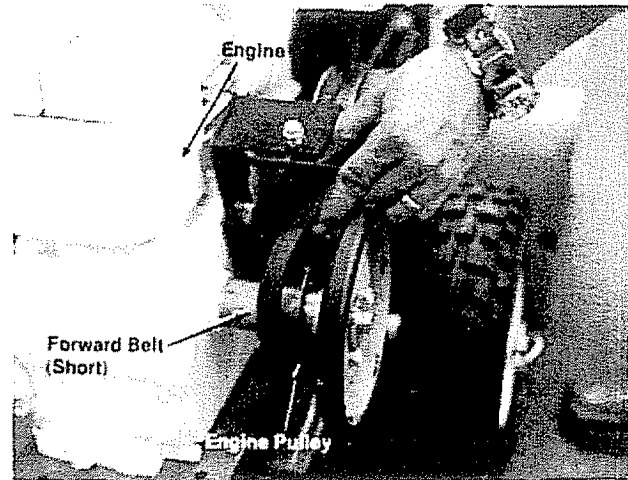


FIGURE 38.

4. Place the gear shift lever in one of the forward gears (as far forward as possible).
5. Pull the idler pulley down by hand and remove the belt from idler pulley and transmission pulley. See figure 39.

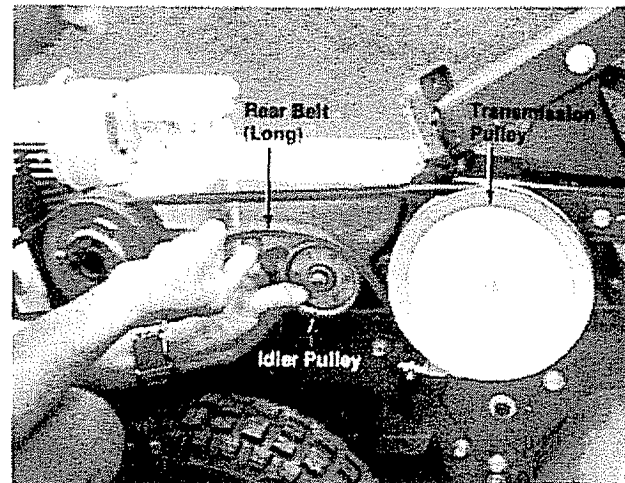


FIGURE 39.

6. Remove the forward belt (short) from the variable speed pulley and slip belt off the engine pulley. See figure 40.
7. Remove rear belt (long) and replace with new belts



### NOTE

Upon reassembly make sure the short belt is inside the guide pins. See figure 41.

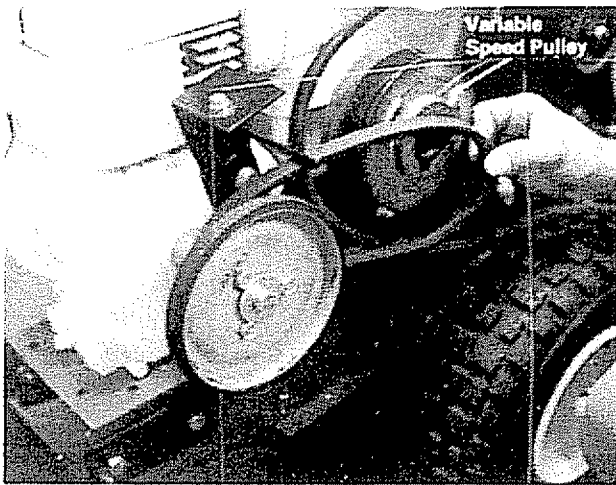


FIGURE 40.

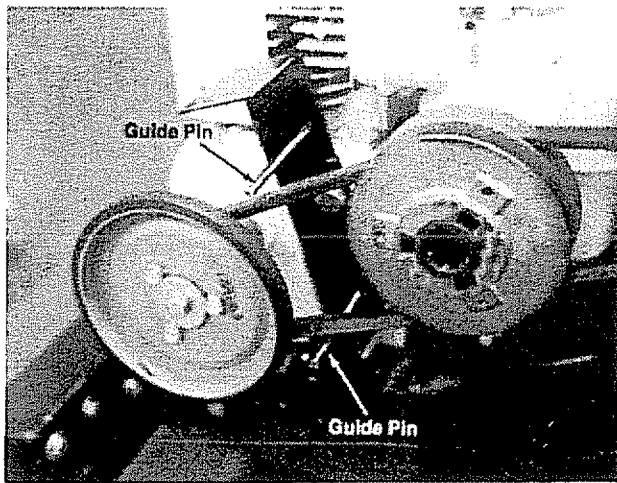


FIGURE 41.

8. Reverse steps 1 through 7 for reassembly.



Upon reassembly of friction disc, tighten three screws equally.

#### CARE AND MAINTENANCE:

##### Transmission:

The transmission is pre-lubricated and sealed at the factory. It requires no additional lubrication unless the transmission is disassembled. To fill with grease, lay the left half of the transmission on its side, add 28 ounces of Plastilube #1 grease and assemble the right half to it. This grease can be purchased from your nearest authorized dealer. (Order Part No. 737-0133.)

##### Engine:

1. You **MUST CHANGE THE OIL** in the crankcase after the first two hours of opera-

tion of your new engine and after each 25 hours of use thereafter to ensure proper lubrication of internal parts for trouble free operation and to prevent costly repair due to excessive wear. (Take care to remove dirt around filler plug.) Be sure oil level is maintained full to point of overflowing. See figure 42.

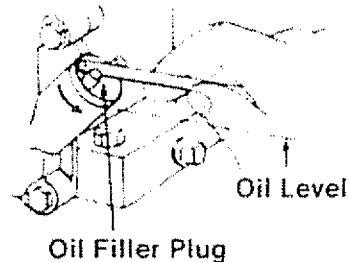


FIGURE 42.

To change oil remove drain plug (figure 43) and tip the tiller forward while engine is warm. Replace drain plug. Remove oil filler cap and refill with SAE 30 heavy duty detergent oil. Replace filler cap.

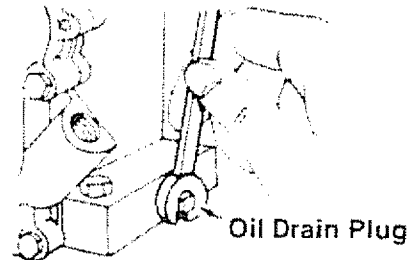


FIGURE 43.

2. Use only a good grade of fresh, clean, regular gasoline. Do not use gasoline that has been sitting for a long period of time. Stale gasoline may cause engine to run poorly or not at all.
3. Keep your engine **CLEAN**. Wipe off all spilled fuel and oil. Keep the engine clean of foreign matter and be sure the cooling fins on the cylinder are kept clean to permit proper air circulation. You must **REMEMBER** that this is an air cooled engine and free flow of air is essential to proper engine performance and life.
4. You must **SERVICE YOUR AIR CLEANER**. The air cleaner prevents damaging dirt, dust, etc. from entering the carburetor and being forced into the engine and is important to engine life and performance.

To remove air cleaner: See figures 44 and 45.

- A. Remove screw.
- B. Remove air cleaner carefully to prevent dirt from entering carburetor.



- C. Take air cleaner apart.
- D. Wash element in detergent and solution by squeezing similar to a sponge

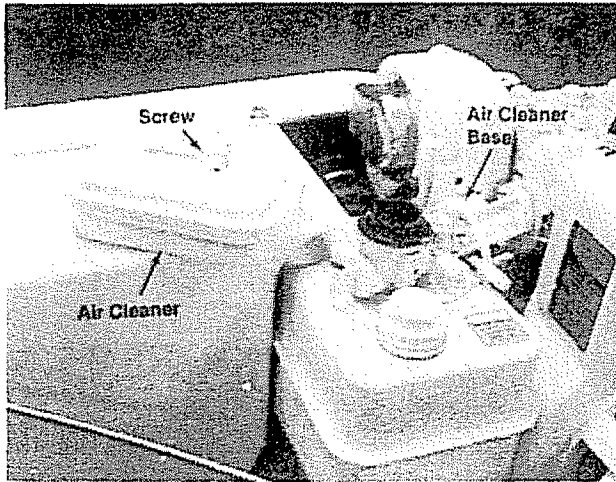


FIGURE 44.

- E. Wrap foam in cloth and squeeze dry.
- F. Coat element with two tablespoons of engine oil, squeeze to distribute and remove excess oil. See figure 45.
- G. Wipe air cleaner body with same solution to remove excess oil.
- H. Reassemble (See figure 44.) by inserting element into body and snapping cover into place, fasten to carburetor with screw.

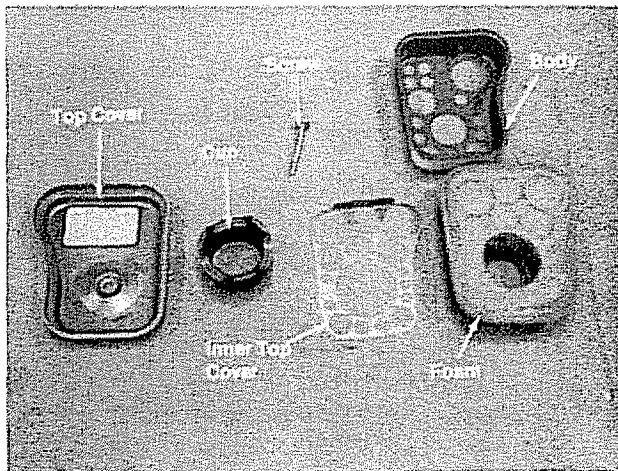


FIGURE 45.

**NEVER RUN YOUR ENGINE WITHOUT AIR CLEANER COMPLETELY ASSEMBLED.**

**Carburetor Adjustment:**

1. Never make unnecessary adjustments. The factory settings are correct for most applications.
2. If adjustments are needed, proceed as follows:

- A. INITIAL ADJUSTMENT. See figure 46. Close needle valve (turn clockwise) then open 1½ turns (turn counterclockwise). This initial adjustment will permit the engine to be started and warmed up before making final adjustment.
- B. FINAL ADJUSTMENT. See figure 46. With engine running at fast operating speed (approximately 3,000 RPM without load) close the needle valve (turn clockwise) until engine starts to lose speed (lean mixture). Then slowly open needle valve (turn counterclockwise) past the point of smoothest operation until engine just begins to run unevenly. This mixture should be rich enough for best performance under load. Hold throttle in idling position. Turn idle speed adjusting screw until fast idle is obtained (1,750 RPM). Test the engine and if it tends to stall or die out, it usually indicates that the mixture is slightly lean and it may be necessary to open the needle valve slightly to provide a richer mixture. This richer mixture may cause a slight unevenness in idling.

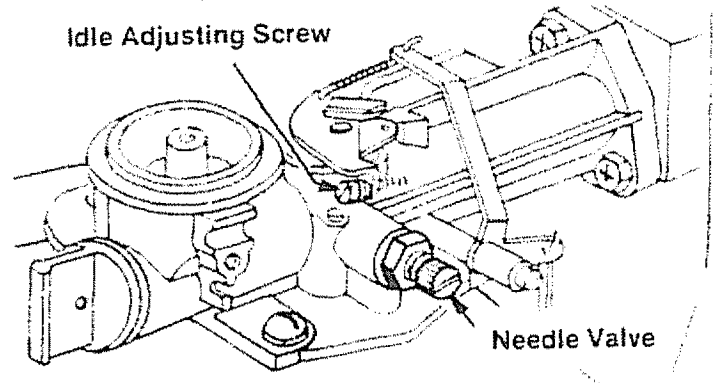


FIGURE 46.

**NOTE**

ALWAYS ALLOW SEVERAL SECONDS BETWEEN EACH ADJUSTMENT FOR THE ENGINE CARBURETOR TO REACT TO THE NEW SETTING.

3. Never attempt to change maximum engine speed as THIS IS PRESET AT THE FACTORY. Excessive speed, caused by by-passing the governor, can cause extensive damage to your engine.

**SPARK PLUG:**

1. Remove the spark plug each time you change the oil and inspect it. See figure 47.

- A. The electrodes should be kept clean and free OF CARBON. The presence of carbon or excess oil will greatly deter proper engine performance.

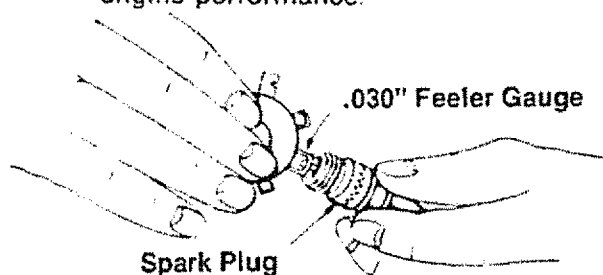


FIGURE 47.

- B. If possible, check the spark plug gap (area between electrodes) using a wire feeler gauge. This plug gap should be .030.

2. If you need a spark plug refer to the parts list for the proper replacement spark plug.

#### ADJUSTMENT OF THROTTLE CONTROL CABLE

1. Place the throttle control lever in stop position.
2. Loosen the casing clamp screw and move the throttle control wire in as far as possible.
3. Tighten the casing clamp screw. See figure 48.

#### TIRE PRESSURE

Tires should be inflated from 8 to 15 p.s.i.



FIGURE 48.

## OFF-SEASON STORAGE

If the tiller is to be inoperative for a period longer than 30 days, the following precautions are recommended. Keep your tiller in a weatherproof dry area. If stored for over 30 days the following steps will protect the essential engine parts from gum deposits.

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.



DO NOT DRAIN FUEL WHILE SMOKING, OR IF NEAR AN OPEN FIRE.

2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil. See figure 15.
3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
4. Clean the engine and the entire tiller thoroughly.
5. Wipe tines with oiled rag to prevent rust.

#### TILLER INSTRUCTIONS FOR WINTER OPERATION (under 40°F.)

**Engine Lubrication.** Drain the summer engine oil while engine is warm. Refill with new "winter grade" oil. Run engine until warm to distribute the new winter oil.

Use oil "for service" SC, SD, or SE. Use 5W-20 or 5W-30. If not available, use 10W, or 10W-30.

**Fuel.** Replace any summer gasoline on hand or in the fuel tank with fresh winter-grade gasoline. Use lead-free or leaded "regular" grade automotive gasoline. Winter fuels have additives for faster starting. Keep fuel tank full.



#### NOTE

Many automotive gasolines no longer contain "de-icer." A can of gasoline de-icer fluid added to your gasoline supply will help maintain the engine's winter reliability.

#### Cold Starting Hints

1. Be sure to use proper winter-grade oil and gasoline.
2. Declutch all possible external loads.
3. Set governor control at low-speed position.
4. Turn carburetor needle valve approximately 1/8 turn counterclockwise. (Richer fuel mixture) This will improve cold weather starting and operation.

# NOTES

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# Repair Parts 5 H.P. Tiller Model 247.298770



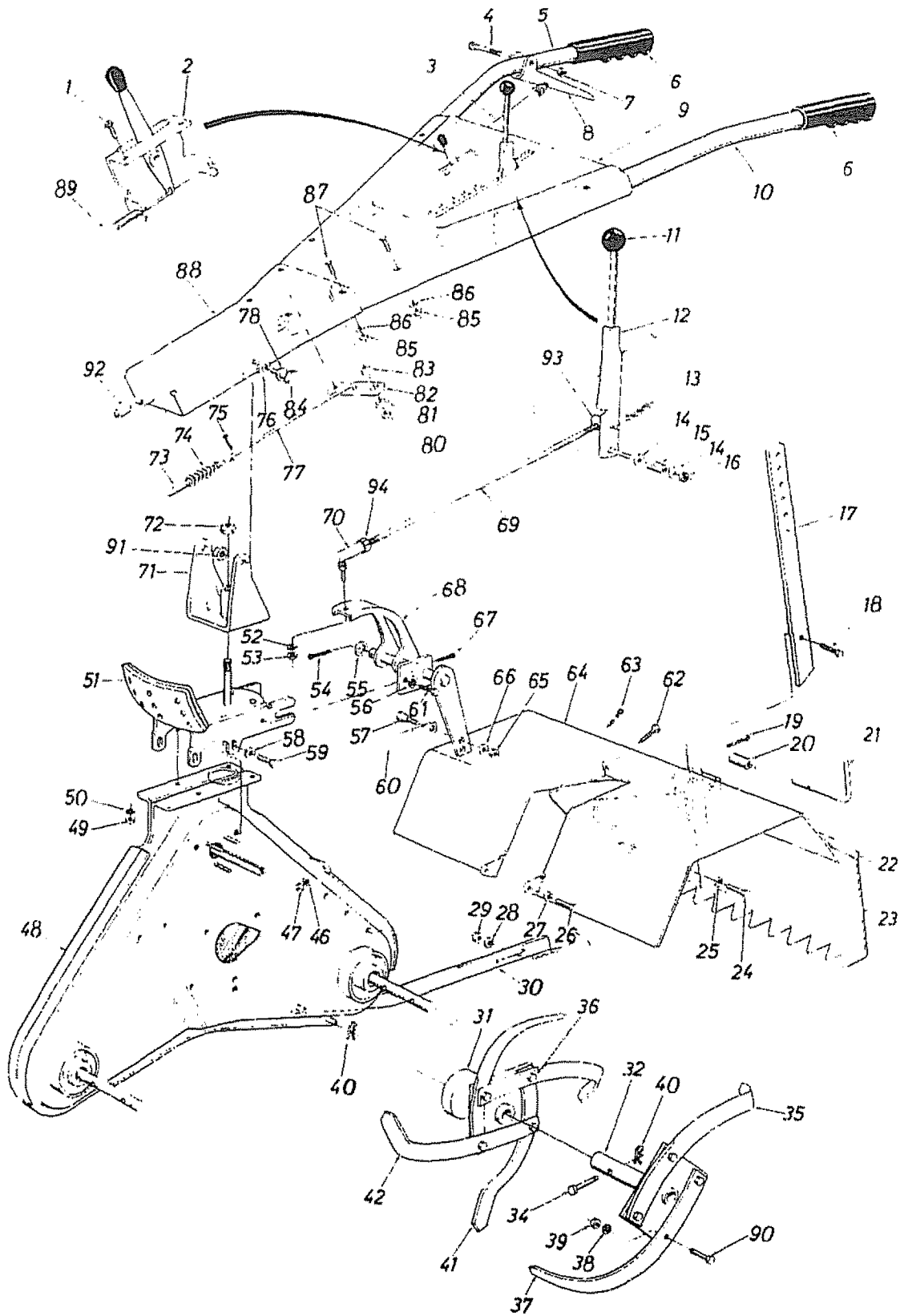
NOTE: Use 28 ounces of  
Plastilube #1 grease. Order  
part no. 737-0133.

# Repair Parts Transmission 04878

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	741-0155	Ball Bearing	1	736-0329	L-Wash 1/2" Scr *
2	04822	Transmission Ass'y — R H.	2	750-0388	Hub Sleeve 3/8" I.D. x 5/8" O.D. x 3.35 Lg.
3	738-0379	Input Shaft 5/8" Dia.	3	748-0184	Flange Brg. .628 I.D. x .753 O.D. x .75
4	714-0122	Sq. Key 3/16 x 3/16 x .75" Lg.	4	713-0226	Chain #50 — 5/8" Pitch x 52 Links Endless
5	750-0379	Spacer .637 I.D. x .781 O.D. x .85" Lg.	5	712-0376	Hex Cen. L-Nut 3/8-16 Thd.
6	717-0210	Sprocket 9" x 50" Pitch	6	713-0237	Sprocket Hub Ass'y.
7	750-0378	Spacer .637 I.D. x .781 O.D. x 1.44" Lg.	7	713-0155	#420 Chain 1/2" Pitch x 57 Links
8	04867	Tine Shaft Ass'y.	8	713-0154	Master Link 1/2" Pitch
9	736-0259	Fl-Wash 1.0" I.D. x 1.62" O.D. x .09	9	750-0314	Spacer 1.0" I.D. x 2.0" O.D. x .68
10	741-0189	Flange Brg. 1.00" I.D. x 1.188" O.D. x 1.12	10	713-0222	Sprocket Ass'y.
11	721-0163	Gasket—Housing	11	748-0184	Flange Brg. .628 I.D. x .753 O.D. x .75
12	04821	Transmission Ass'y.—L.H.	12	750-0374	Hub Sleeve .68 I.D. x .625 O.D.
13	05034	Bearing Housing	13	741-0189	Flange Brg. 1.00" I.D. x 1.188" O.D.
14	736-0329	L-Wash 1/2" Scr *	14	736-0259	Fl-Wash 1.0" I.D. x 1.62" O.D.
15	712-0138	Hex Nut 1/4-28 Thd.*	15	04873	Axle Shaft Ass'y.
16	721-0102	Seal 1.0" I.D. x 1.38" O.D.	16	713-0225	#420 Chain 1/2" Pitch x 42 Links Endless
17	736-0219	Bell Wash 3/8" I.D.	17	750-0314	Spacer 1.0" I.D. x 2.0" O.D.
18	736-0169	L-Wash 3/8" Scr *	18	710-0195	Hex Scr 1/4-28 x .62" Lg.*
19	712-0214	Hex Nut 3/8-24 Thd.*	19	736-0219	Belleville Wash
20	04872	Side Plate	20	710-0629	Hex Scr 3/8-24 x 2.75" Lg.*
21	736-0219	Bell Wash 3/8" I.D.	21	736-0159	Fl-Wash 5/16" Scr.*
22	736-0169	L-Wash 3/8" Scr *	22	736-0119	L-Wash 5/16" Scr.*
23	710-0411	Hex Scr 3/8-16 x 4.00" Lg.*	23	710-0627	Hex L-Scr 5/16-24 x .75" Lg.*
24	710-0601	Hex Taplite 5/16-18 x .75" Lg.	24	756-0297	Input Pulley—Transmission
25	736-0242	Bell Wash .345 I.D. x .88 O.D.			
26	721-0162	Gasket—Side Plate			
29	721-0102	Seal 1.0" I.D. x 1.38" O.D.			
30	712-0138	Hex Nut 1/4-28 Thd.*			

\*Standard Hardware Items—May Be Purchased Locally.

# Repair Parts 5-H.P. Tiller Model 247.298770



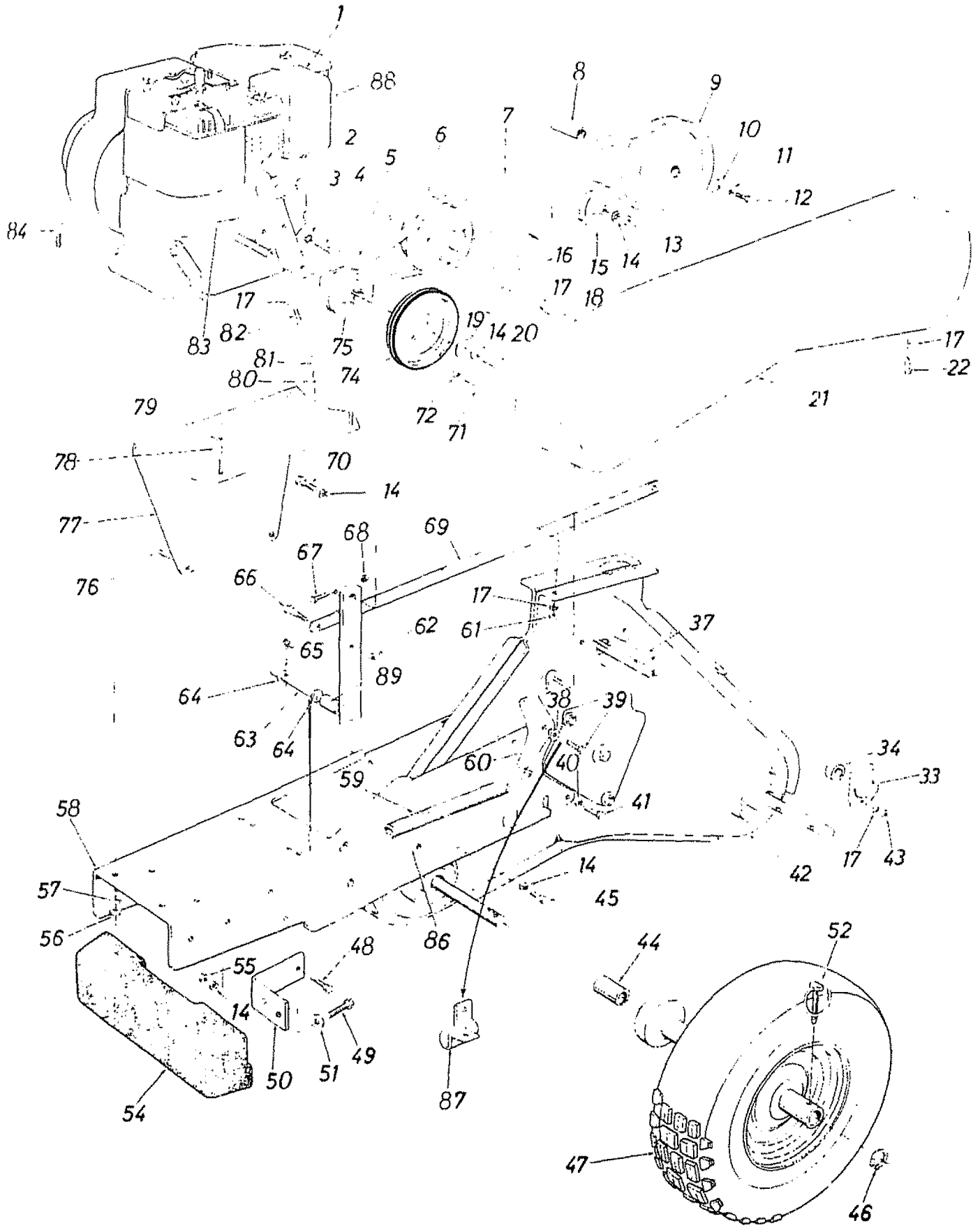
# Repair Parts 5-H.P. Tiller Model 247.298770

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
1	710-0227	Hex Wash Hd Tap Scr. #8 x .50" Lg.*	50	736-0119	L-Wash. 5/16" Scr.*
2	746-0304	Throttle Control Ass'y Comp	51	04850	Handle Positioner Ass'y.
3	747-0255	Handle Lock Rod	52	736-0169	L-Wash. 3/8" Scr.*
4	710-0136	Hex Scr. 1/4-20 x 1.75" Lg.*	53	712-0116	Hex Ins. L-Nut 3/8-24 Thd
5	749-0268	Handle—R.H.	54	714-0474	Cotter Pin 1/8" Dia. x .75" Lg.*
6	720-0180	Grip	55	736-0290	Fl-Wash. .630 I.D. x 1.0" O.D. x .063
7	712-0107	Hex Cent. L-Nut 3/8-20 Thd	56	736-0119	L-Wash. 5/16" Scr.*
8	04830	Clutch Grip	57	738-0258	Shld. Scr. 50 x .25
9	04831	Handle Panel Ass'y	58	736-0105	Belleville Wash
10	749-0269	Handle—L.H.	59	710-0623	Hex Wash Hd Self Tap Scr 3/8-16 x .75" Lg.
11	720-0183	Ball Knob 3/8-16 Thd	60	04841	Control Brkt.
12	04892	Clutch Handle Ass'y.	61	710-0601	Hex Wash Hd. Self Tap Scr
13	714-0104	Hair Pin Cotter	62	710-0216	Hex Scr. 3/8-16 x .75" Lg.*
14	736-0101	Fl-Wash.	63	714-0115	Cotter Pin 1/8" Dia. x 1.00" Lg.*
15	732-0193	Compression Spring .88 O.D. x .81 Lg.	64	04796	Tire Shield Ass'y.
16	712-0214	Hex Nut 3/8-24 Thd.*	65	712-0130	Hex Ins. L-Nut 3/8-16 Thd.
17	04833	Depth Bar	66	736-0169	L-Wash. 3/8" Scr.*
18	710-0344	Hex Scr. 3/8-16 x 1.50" Lg.*	67	714-0474	Cotter Pin 1/8" Dia. x .75" Lg.*
19	714-0115	Cotter Pin 1/8" Dia. x 1.00" Lg.*	68	04806	Pivct Horn Ass'y.
20	732-0306	Compression Spring	69	747-0278	Gear Shift Rod
21	747-0256	Depth Bar Adjustment Pin	70	723-0156	Rod End 3/8-24 Thd.
22	747-0252	Hinge Rod	71	04812	Pivct Brkt. Ass'y.
23	04804	Tire Shield Hinge Flap Ass'y.	72	712-0221	Hex Ins. L-Nut 5/8-16 Thd.
24	710-0623	Hex Wash Hd. Self Tap Scr. 3/8-16 x .75" Lg.	73	711-0663	Locking Pin
25	736-0169	L-Wash. 3/8" Scr.*	74	732-0132	Compression Spring
26	710-0623	Hex Wash Hd. Self Tap Scr. 3/8-16 x .75" Lg.	75	714-0474	Cotter Pin 1/8" Dia. x .75" Lg.*
27	736-0169	L-Wash. 3/8" Scr.*	76	736-0253	Bell. Wash. .505 I.D. x 1.00" O.D.
28	736-0101	Fl-Wash.	77	747-0254	Lower Handle Control Rod
29	712-0130	Hex Ins. L-Nut 3/8-16 Thd	78	726-0111	Push Cap
30	04879	Drag Bar Ass'y.	79	726-0106	Push Cap 3/8" Rod
31	04909	Inner Tire Adapter Ass'y	80	712-0158	Hex Nut 5/16-18 Thd.*
32	04683	Outer Tire Adapter Ass'y	81	748-0516	Pivot Handle Brg.
34	711-0599	Clevis Pin 3/8" Dia. x 1.75" Lg.	82	04819	Pivot Handle Link
35	742-0197	Tire—L.H.	83	736-0289	Bushing Wash
36	710-0191	Hex Scr. 3/8-24 x 1.25" Lg.*	84	736-0143	Shld. Scr. .500" Dia. x .660
37	04857	Outer Tire Ass'y. Comp — L.H.	85	712-0267	Hex Nut 5/16-18 Thd.*
38	736-0169	L-Wash. 3/8" Scr.*	86	736-0119	L-Wash. 5/16" Scr.*
39	712-0241	Hex Nut 3/8-24 Thd.*	87	710-0458	Carr. Bolt 5/16-18 x 1.75" Lg.
40	714-0145	Hair Pin Cotter	88	04792	Handle Mtg. Brkt. Ass'y.
41	742-0198	Tire—R.H.	89	746-0305	Conduit and Wire
42	04855	Inner Tire Ass'y. Comp — L.H.	90	710-0152	Hex Scr. 3/8-24 x 1.00" Lg.*
46	736-0169	L-Wash. 3/8" Scr.*	91	712-0181	Hex Top L-Nut 3/8-16 Thd.
47	712-0130	Hex Ins. L-Nut 3/8-16 Thd.	92	748-0150	Sleeve Brg. .50 I.D. x .62 O.D. x 1.12" Lg.
48	04878	Transmission Ass'y. Comp.	93	711-0198	Ferrule
49	712-0267	Hex Nut 5/16-18 Thd.*	94	712-0711	Hex Jam Nut 3/8-24 Thd.

### TIRE CHART

Not Shown	Inner Tire Ass'y. Comp.—R.H.	04854
42	Inner Tire Ass'y. Comp.—L.H.	04855
Not Shown	Outer Tire Ass'y. Comp.—R.H.	04856
37	Outer Tire Ass'y. Comp.—L.H.	04857

# Repair Parts 5-H.P. Tiller Model 247.298770





# Repair Parts 5-H.P. Tiller Model 247.298770

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	752-0668	Engine B & S 1302 02-0815-03	43	710-0118	Hex Scr 5/16-18 x 3/4 Lg
2	04869	Belt Cover Support Ass'y	51	04860	Weight Mtg Brkt
3	736-0114	Internal L-Wash 1/2" Scr	52	736-0159	FI-Wash 5/16 I.D. x 7/8 O.D. x .056
4	710-0121	Hex Scr 1/4-20 x .75 Lg	53	714-0151	Key 3/16
5	754-0224	V-Belt 5/8" x 36 Lg	54	723-0340	Weight
6	717-0343	Variable Speed Ass'y	55	712-0214	Hex Cent L-Nut 3/8-24 Thd
7	754-0221	V-Belt 5/8" x 42 Lg	56	712-0267	Hex Nut 5/16-18 Thd
8	750-0387	Spacer .637 I.D. x .78 O.D. x .44 Lg	57	736-0119	L-Wash 5/16 Scr
9	756-0297	Input Pulley—L.H. Case	58	04844	Frame Ass'y
10	736-0159	FI-Wash 5/16 Scr	59	732-0153	Extension Spring
11	736-0119	L-Wash 5/16 Scr	60	04864	Idler Arm Ass'y
12	710-0627	Hex L Nut 5/16-24 x .75 Lg	61	712-0138	Hex Cent L-Nut 1/4-28 Thd
13	712-0130	Hex Ins L-Nut 3/8-16 Thd	62	712-0130	Hex Ins L-Nut 3/8-16 Thd
14	736-0169	L-Wash 3/8" Scr	63	04837	Variable Speed Brkt. Ass'y
15	756-0225	FI-Idler 2.75" Dia	64	736-0256	FI Wash .625 I.D. x 1.25 O.D.
16	04836	Friction Disc	65	714-0474	Cotter Pin 1/8" Dia x 75" Lg
17	736-0329	L-Wash 1/2" Scr	66	738-0380	Shoulder Scr. 50 x .267
18	710-0230	Hex Scr 1/4-28 x .80 Lg	67	710-0106	Hex Scr 1/4-20 x 1.25 Lg
19	736-0133	FI-Wash .375 I.D. x 1.25 O.D. x .10	68	712-0324	Hex Ins L-Nut 1/4-20 Thd
20	710-0151	Hex Scr 3/8-24 x 1.00 Lg	69	04841	Control Brkt.
21	04790	Belt Cover	70	710-0623	Hex Wash Hd. Self Tap Scr
22	710-0599	Hex Wash Hd. Self Tap Scr	71	710-0621	Hex Scr 5/16-18 x .50 Lg
23	05034	Bearing Housing	72	736-0119	L-Wash 5/16 Scr
24	741-0155	Ball Bearing	74	05080	Friction Wheel Ass'y.
27	714-0122	Sq Key 3/16 x .75 Lg	75	756-0301	Engine Pulley Ass'y. 5/8 V x 75 I.D.
28	738-0372	Shoulder Spacer	76	710-0599	Hex Wash Hd. Self Tap Scr.
29	710-0502	Hex Self Tap Scr 3/8-16 x 1.25 Lg	77	04876	Belt Cover Extension Ass'y.
30	736-0169	L-Wash 3/8" Scr	78	736-0173	FI-Wash 1/2" Scr
31	710-0623	Hex SF tap Scr 3/8-16 x .75 Lg	79	712-0117	Hex Cent L-Nut 1/4-28 Thd.
32	04878	Transmission Ass'y Comp	80	736-0173	FI-Wash 1/4" Scr
33	712-0138	Hex Nut 1/4-28 Thd.	81	710-0195	Hex Scr 1/4-28 x .62 Lg
34	741-0246	Bearing 1.0" I.D. x 1.12 Lg	82	710-0599	Hex Wash Hd. Self Tap Scr
35	710-0347	Hex Scr 3/8-16 x 1.75 Lg	83	714-0105	Key 3/16 x 3/16 x 1.00 Lg
36	716-0102	Snap Ring	84	710-0380	Hex Scr 5/16-18 x 1.75 Lg
37	734-0832	Wheel Ass'y. Comp.—R.H.	86	750-0382	Spacer
38	734-0833	Wheel Ass'y. Comp.—L.H. (Not Shown)	87	04863	Rear Belt Cover Support Brkt.
39	734-0338	Tire Only	88	751-0233	Muffler Deflector
40	734-0339	Inner Tube Only	89	750-0379	Spacer .637 I.D. x .781 O.D. x .85 Lg
41	04874	Wheel Hub Ass'y.—R.H.	†	770-7763	Owner's Manual
42	04875	Wheel Hub Ass'y.—L.H. (Not Shown)	†	777-8517	Warranty Label
48	710-0152	Hex Scr 3/8-24 x 1.00 Lg			

\*Standard Hardware Items—May Be Purchased Locally.

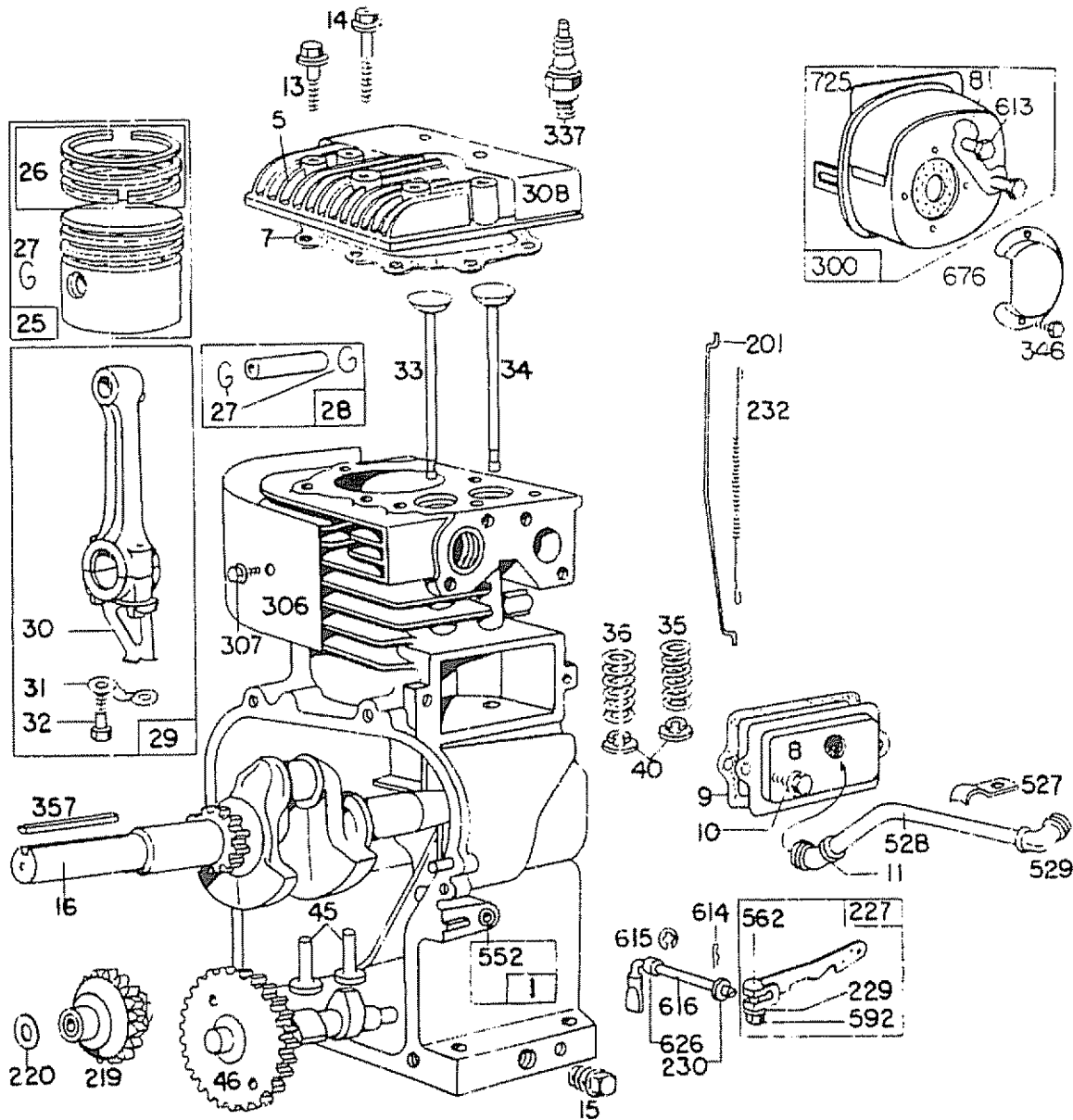
†Not Illustrated

## TILLER ACCESSORIES

Hilling Plow (Must be used with "V" Bar Frame Adapter)  
Six Tang Cultivator (Recommended use of Depth Gauge Wheels)  
"V" Bar Frame Adapter (Recommended use of Depth Gauge Wheels)  
Four Shovel Cultivator (Must be used with "V" Bar Frame Adapter)  
Depth Gauge Wheels  
Tine Cultivating Shields  
Wheel Weights  
Tire Chains (13" x 5")  
32" Angle Dozer Blade  
Front Hitch Mount (Required to mount 32" Angle Dozer Blade)

# Repair Parts

5-H.P. CHAIN DRIVE TILLER MODEL 247.298770  
 ENGINE MODEL 130202 TYPE 0815-03

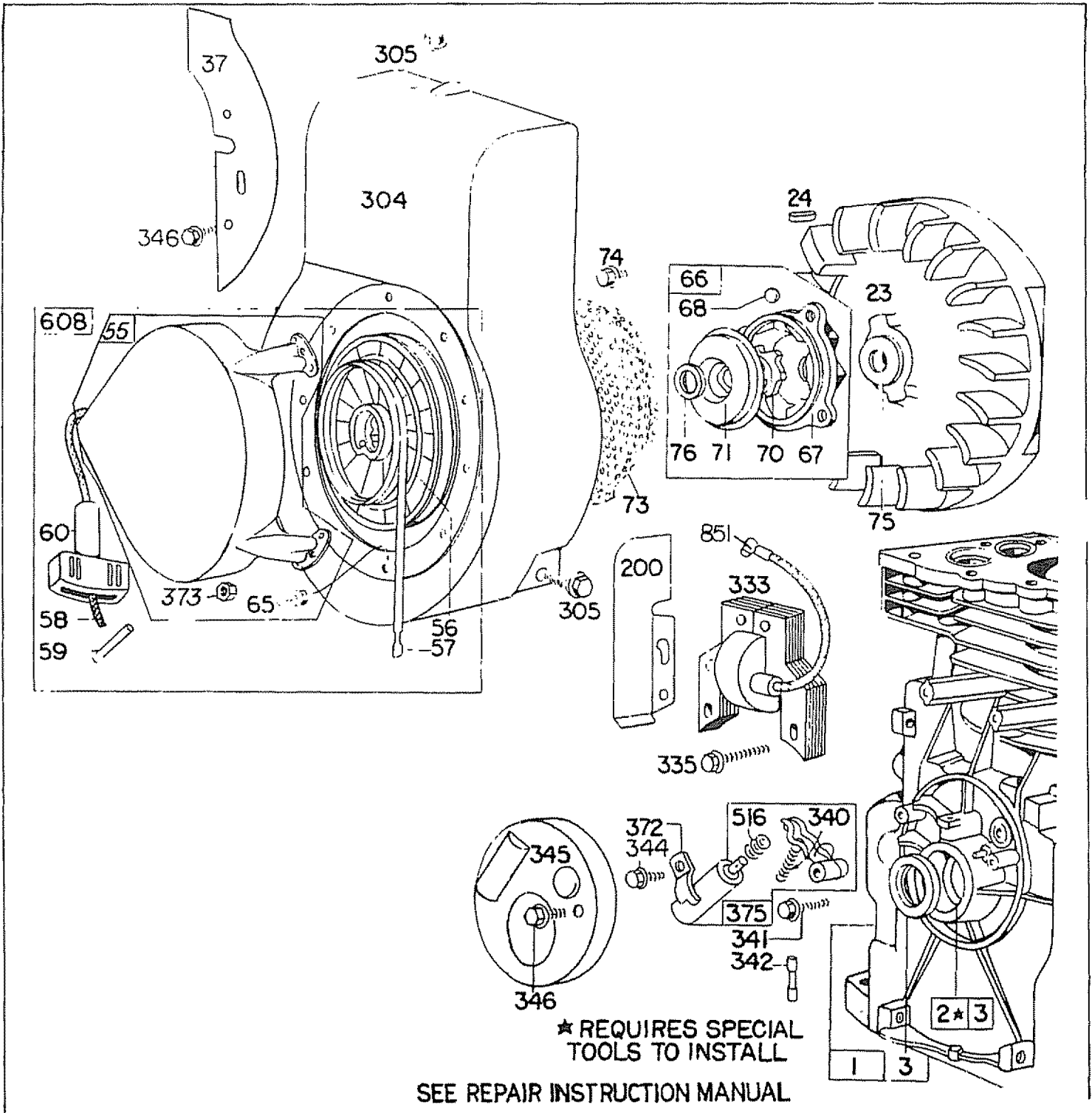


**358 GASKET SET**

**\* REQUIRES SPECIAL TOOLS TO INSTALL**  
 SEE REPAIR INSTRUCTION MANUAL

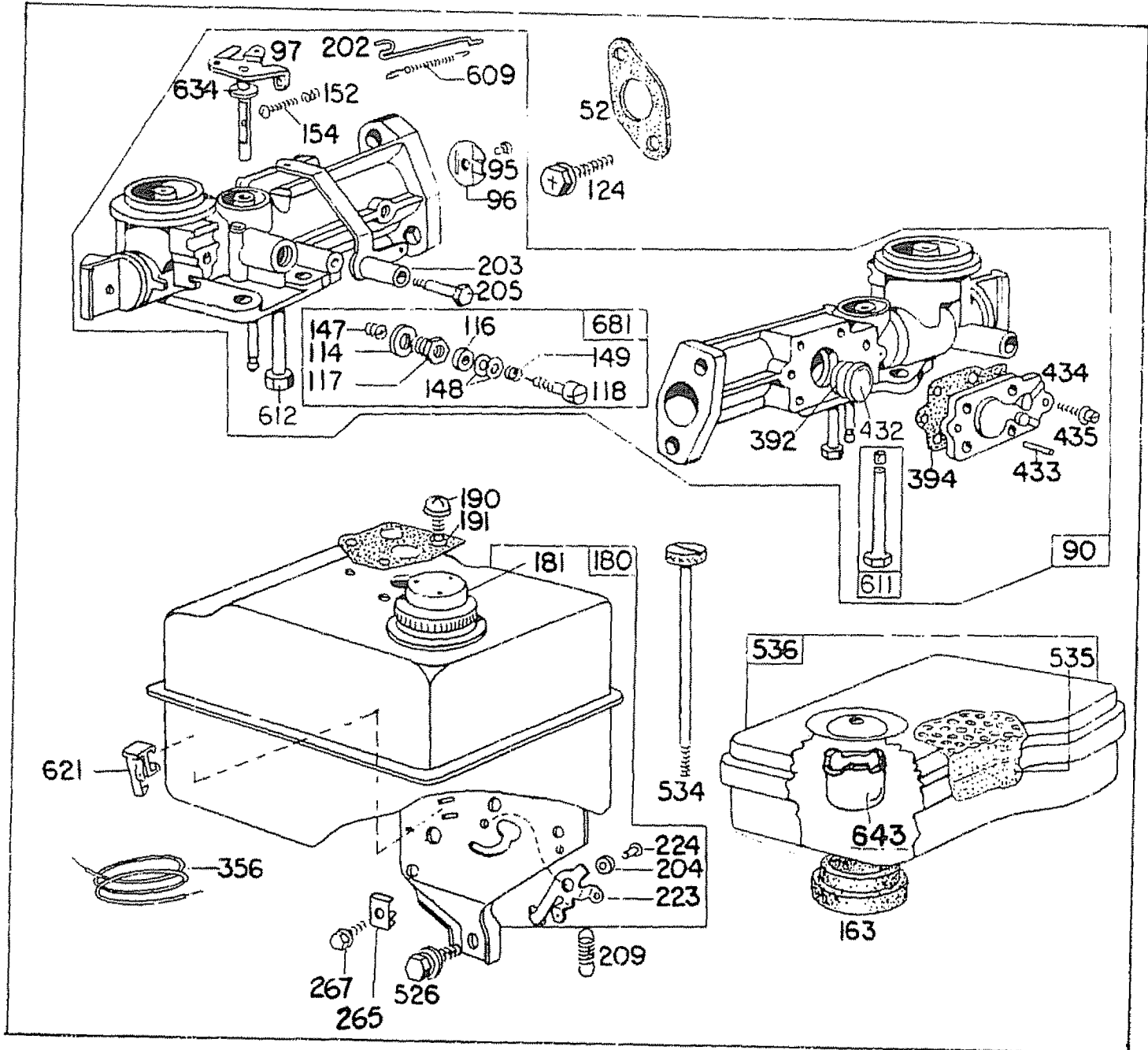
# Repair Parts

5-H.P. CHAIN DRIVE TILLER MODEL 247.298770  
ENGINE MODEL 130202 TYPE 0815-03



# Repair Parts

5-H.P. CHAIN DRIVE TILLER MODEL 247.298770  
ENGINE MODEL 130202 TYPE 0815-03



# Repair Parts

5-H.P. CHAIN DRIVE TILLER MODEL 247.298770  
ENGINE MODEL 130202 TYPE 0815-03

## PARTS LIST FOR ENGINE MODEL NO. 130202-0815-03

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	391977	Cylinder Ass'y.	33	211119	Valve—Exhaust
2	297565	Bushing—Cylinder NOTE: Requires special tools for installation.	34	261044	Valve—Intake
3	89660	Seal—Oil	35	260552	Spring—Intake Valve
5	211542	Head—Cylinder	36	26478	Spring—Exhaust Valve
7	*270383	Gasket—Cylinder Head	37	222443	Guard—Flywheel
8	294178	Breather—Valve Chamber	40	93312	Retainer—Valve Spring
9	*27549	Gasket—Valve Cover	45	260642	Tappet—Valve
10	93394	Screw—Breather Mtg. Sem	46	211117	Gear—Cam
11	66578	Grommet—Breather Tube	52	*27355	Gasket—Carburetor Mtg. (2)
12	*270080	Gasket—Crankcase—.015" thick (Standard)	55	299431	Housing—Rewind Starter
	*270125	Gasket—Crankcase—.005" thick	56	295871	Pulley—Rewind Starter (Includes 63" long rope) If longer rope is required, order rope no. 66894 and cut to length.
	*270126	Gasket—Crankcase—.009" thick	57	294303	Spring—Rewind Starter
13	93368	Screw—Cylinder Head (2-3/32" lg.)	58	66884	Rope—Rewind Starter— 63" long (For use with Plastic Pulley) if longer rope is required, order rope No. 66894 and cut to length.
14	93369	Screw—Cylinder Head (2-15/32" lg.)			
15	91249	Plug—Pipe, 1/4" Std., Square Head	59	230228	Pin—Starter Grip
16	261148	Crankshaft	60	66728	Grip—Starter Rope
18	297602	Cover Ass'y.—Crankcase	65	93067	Screw—Stamped Steel Hsg. Mtg. Sem
19	297603	Bushing—Crankcase Cover NOTE: Requires special tools for installation.	66	298310	Clutch Ass'y.—Rewind Starter
20	294606	Seal—Oil	67	211383	Housing—Starter Clutch
21	66768	Plug—Oil Filler	68	63770	Ball—Clutch
22	93032	Screw—Crankcase Cover Mtg. Sem	70	298436	Ratchet—Rewind Starter
23	297229	Flywheel—Magneto	71	221653	Washer—Clutch Retainer
24	61760	Key—Flywheel	73	221923	Screen—Starter Pulley
PISTON RING SETS:			74	93490	Screw—Sem
		NOTE: For Chrome Piston Ring Set—Std. Size—order Part No. 299742.	75	220865	Washer—Spring
25	298904	Piston Ass'y.—Std.	76	68238	Washer—Ratchet Sealing
	298905	Piston Ass'y.—.010" O.S.	81	222263	Lock—Screw
	298906	Piston Ass'y.—.020" O.S.	90	299437	Carburetor Ass'y.
	298907	Piston Ass'y.—.030" O.S.	95	93499	Screw—Throttle Valve to Shaft Sem
26	298982	Ring Set—Std. Piston	96	211203	Throttle—Carburetor
	298983	Ring Set—.010" O.S. Piston	97	299212	Shaft and Lever—Throttle
	298984	Ring Set—.020" O.S. Piston	114	66594	Gasket—Needle Valve Nut
	298985	Ring Set—.030" O.S. Piston	116	65978	Packing—Needle Valve
27	26026	Lock—Piston Pin	117	230590	Nut—Needle Valve
28	298909	Pin Ass'y.—Piston—Std.	118	23433	Valve—Needle
	298908	Pin Ass'y.—Piston—.005" O.S.	124	93357	Screw—Hex Head
29	299430	Rod Ass'y.—Connecting NOTE: For Connecting Rod with .020" undersize Crankpin Bore—order No. 390459.	147	230591	Seat—Needle Valve
30	221890	Dipper—Connecting Rod	148	22235	Washer—Needle Valve (2)
31	221876	Lock—Conn. Rod Screw	149	26336	Spring—Needle Valve
32	92296	Screw—Connecting Rod	152	260575	Spring—Throttle Adjustment
			154	92634	Screw—Machine, Rd. Hd.— 5-40 x 5/8"
			163	27660	Gasket—Air Cleaner Mtg.
			180	297600	Tank Ass'y.—Fuel
			181	392304	Cap—Fuel Tank
			190	93341	Screw—Fuel Tank Mtg. Sem
			191	*27911	Gasket—Fuel Tank Mtg. (2)

\*Included in Gasket Set—Part No. 297615.

# Repair Parts

5-H.P. CHAIN DRIVE TILLER MODEL 247.298770  
ENGINE MODEL 130202 TYPE 0815-03

## PARTS LIST FOR ENGINE MODEL NO. 130202-0815-03

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
200	221480	Guide—Air	342	65704	Plunger—Breaker Point
201	260661	Link—Governor	344	93042	Screw—Condenser Clamp
202	260678	Link—Throttle			Mtg. Sem
203	297718	Crank—Bell	345	220366	Cover—Breaker Point and
204	230844	Bushing—Governor Lever (Flat)	346	93705	Condenser
		NOTE: 230943 Bushing—	356	295413	Screw—Dust Cover and
		Governor Lever (with ½" dia.	357	91539	Flywheel Guard Mtg
		Flange) or:—	358	297615	Wire—Ground
		23688 Bushing—Governor	372	220477	Key
		Lever (with 3/8" dia. Flange)	373	92987	Gasket Set
		Used on type Nos. 0130, 0148,	375	294628	Clamp—Condenser
		0174, 0181, 0184, 0185, 0194,			Nut—Hex
		0196, 0221, 0230, 0233, 0237,	392	260455	Breaker Points and Condenser
		0239, 0247, 0255, 0316, 0352,			Set
		0353, 0359, 0364, 0406, 0414,	394	270026	Spring—Fuel Pump
		0416, 0418, 0419, 0422, 0425,	432	221377	Diaphragm
		0431, 0435, 0438, 0439, 0451,	433	93265	Diaphragm
		0458, 0471, 0480, 0481, 0485,	434	210959	Cap—Spring
		0514, 0520, 0540, 0568, 0573,	435	93141	Pin—Diaphragm Cover
		0607, 0608, 0620, 0635, 0636.	516	260374	Cover—Diaphragm
205	93838	Screw—Shoulder	526	93343	Screw—Diaphragm Cover
209	260695	Spring—Governor	527	221514	Screw—Connector
219	391737	Gear—Governor	528	230722	Spring—Tank Brkt. Mtg. Sem
220	221551	Washer—Thrust	529	67838	Clamp—Breather Tube
223	221517	Lever—Governor Control	534	93322	Tube—Breather
224	93491	Rivet—Governor Control	535	27987	Grommet—Breather Tube
		Lever Mtg.	536	297036	Screw—Air Cleaner
227	391966	Lever Ass'y.—Governor—	552	231079	Element—Air Cleaner
		For ¼" Dia. Crank			Cleaner Ass'y.—Air
229	220680	Washer—Governor Lever	562	92613	Bushing—Governor Crank
230	222450	Washer—Governor Lever	592	231082	(¼" I.D.)
		(¼" I.D.)	608	390463	Bolt—Governor Lever
232	260478	Spring—Governor Link	609	260694	Nut—Hex—10-24
265	221535	Clamp—Casing	611	391813	Starter Ass'y.—Rewind
267	93496	Screw—Sem	612	296811	Spring—Throttle Link
300	391313	Muffler—Exhaust	613	93704	Fuel Pipe and Clip Ass'y
304	299410	Housing—Blower	614	93306	Pipe—Fuel
305	93158	Screw—Blower Hsg. Mtg.	615	93307	Screw—Muffler Mtg.
306	221511	Shield—Cylinder	616	231077	Cotter—Hair Pin
307	93042	Screw—Cylinder Shield Mtg.	621	297472	Retainer—E-Ring
		Sem	626	230749	Crank—Governor (¼" Dia.)
308	221512	Cover—Cylinder Head	634	270167	Switch—Stop
333	298316	Armature—Magneto	643	221321	Spacer—Governor Crank
335	93414	Screw—Armature Mtg. Sem	676	222261	Washer, Throttle Shaft (Felt)
337	298809	Plug—Spark (with Gasket)	681	299060	Cup—Air Cleaner
		1 ½" High—37-42 M. M.	725	221885	Deflector—Exhaust
340	26018	Spring—Breaker Arm	851	221798	Needle Valve Kit
341	93381	Screw—Breaker Arm Mtg.			Shield—Heat
		Sem			Cable Terminal—Ignition

\*Included in Gasket Set—Part No. 297615.

**Sears**  
**owners**  
**manual**

**MODEL NO.**  
**247.298770**

**Sears**  
**SERVICE**  
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## HOW TO ORDER REPAIR PARTS

The Model Number will be found stamped on a plate attached to the chassis. Always mention the Model Number when requesting service or repair parts for your tiller.

All parts listed herein may be ordered through SEARS ROEBUCK AND CO. or SIMPSON SEARS LIMITED RETAIL or CATALOG STORE.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

1. The PART NUMBER
2. The MODEL NUMBER 247.298770
3. The PART DESCRIPTION
4. The NAME OF MERCHANDISE — Tiller

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for expedited handling.

Your Sears merchandise takes on added value when you discover that Sears has over 2,000 Service Units throughout the country. Each is staffed by Sears-trained, professional technicians.

**SEARS, ROEBUCK AND CO., Chicago, ILL. 60684 U.S.A.**  
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