OWNER'S MANUAL

- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

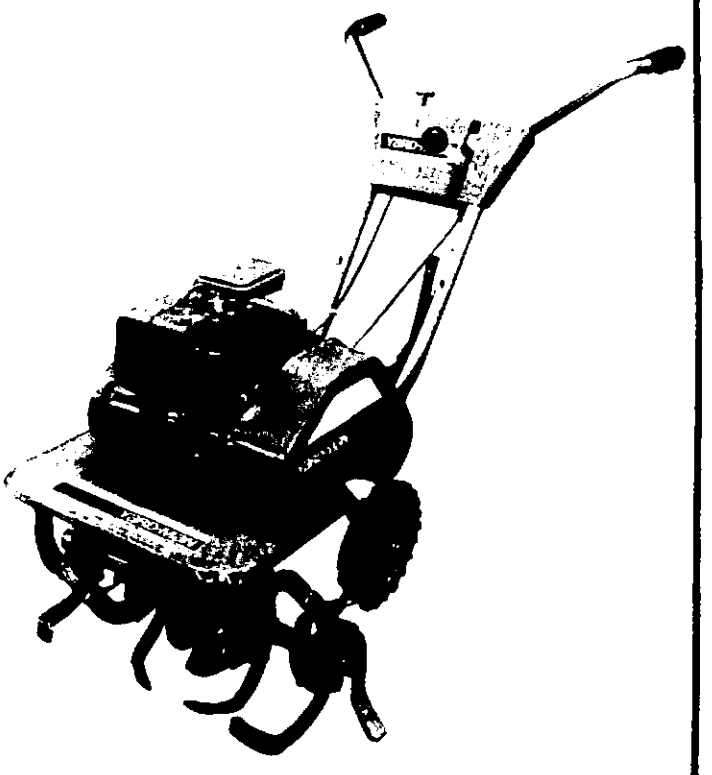
Model No. 21756-9

Important:

Read Safety Rules and Instructions Carefully

YARD-MAN

5 H.P. 4-SPEED CHAIN DRIVE TILLER



PRINTED IN U.S.A.

FORM NO. 770-8332

LIMITED WARRANTY

For one year from the date of original retail purchase, YARD-MAN COMPANY will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by YARD-MAN COMPANY.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of YARD-MAN.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by YARD-MAN.

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

WARNING TO PURCHASERS
OF INTERNAL COMBUSTION ENGINE EQUIPPED
MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

➡ 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.

INDEX

To prepare your tiller for operation, the following steps are necessary:

1. Handle Panel Attachment
2. Drive Control Linkage Connections
3. Throttle Control Lever
4. Depth Bar Attachment
5. Tine Attachment
6. Tail Piece Attachment
7. Engine Operation

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

TOOLS REQUIRED: See Figure 1

1. (1) ½" Socket, open or box wrench.
2. (2) 9/16" Socket, open or box wrench.
3. (1) ¼" Flat Screwdriver.

MATERIALS REQUIRED:

1. Funnel (for gas and oil-**NOTE: DO NOT MIX**)
2. One quart SAE-30 heavy duty detergent oil.
3. Gas (regular) leaded or low leaded
4. Cleaning rag

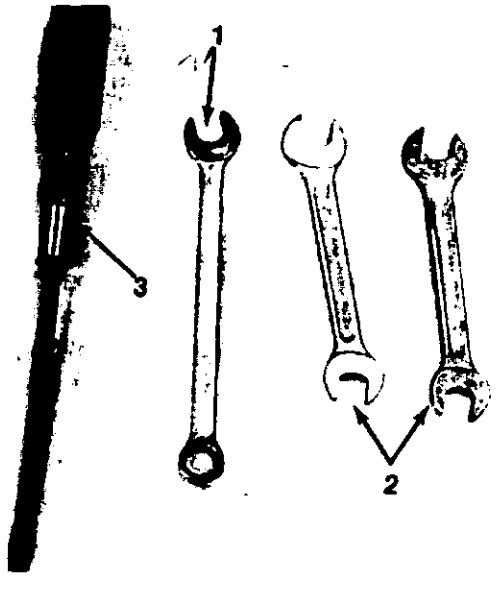


FIGURE 1.

LIST OF PARTS IN CARTON: See Figure 2.

Tiller
Handle panel assembly
Depth bar attachment
Tail piece attachment
Control rod
Hardware pack
Shift Lever

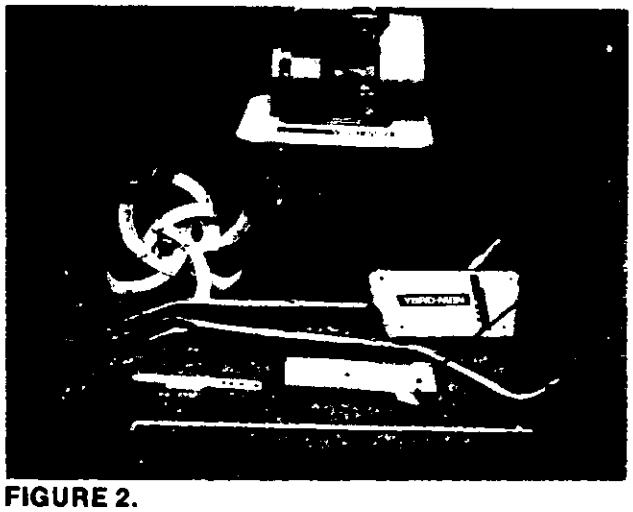
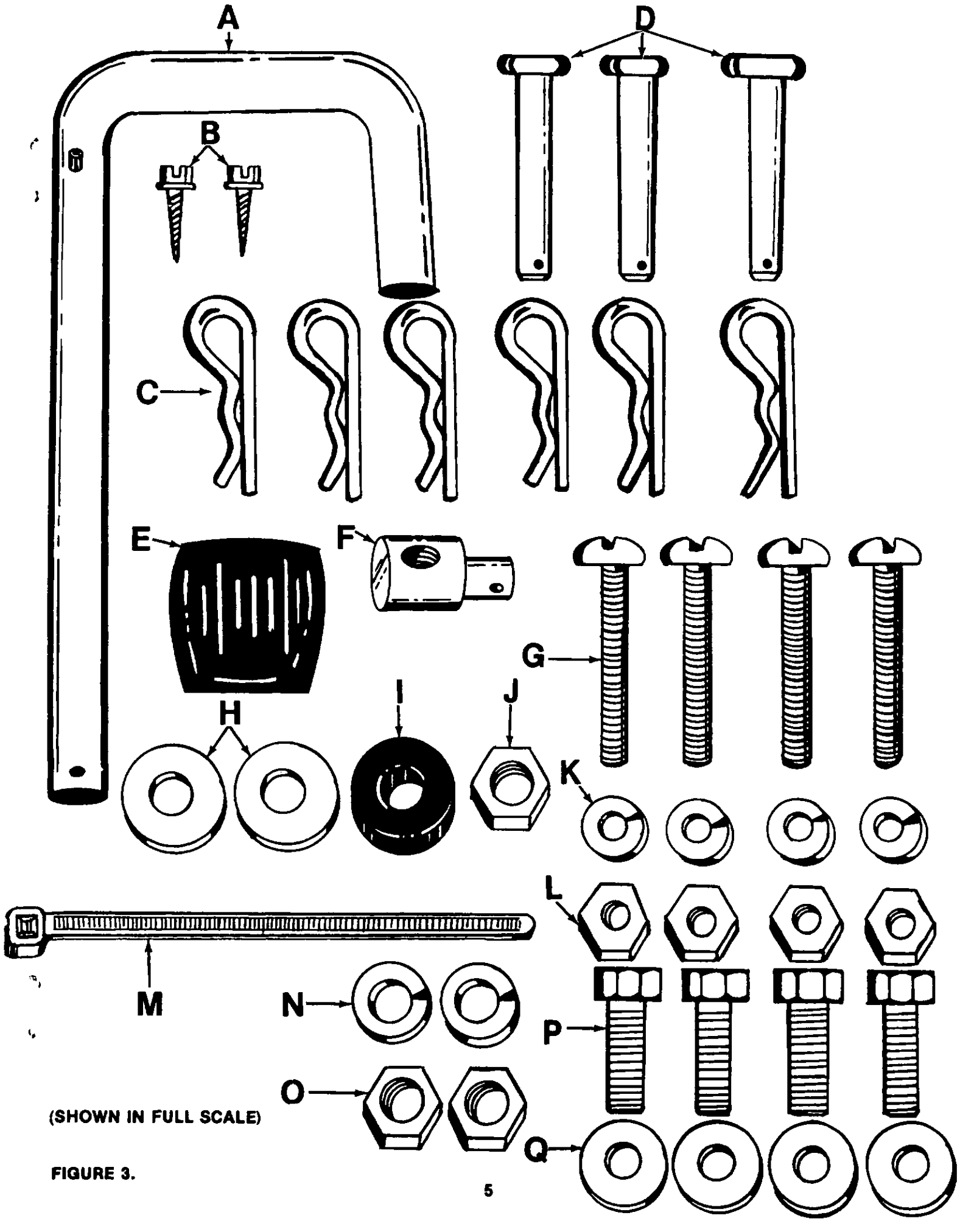


FIGURE 2.

LIST OF CONTENTS IN HARDWARE PACK:

A (1) "U" Clevis Pin
B (2) Self Tapping Screws #8 x .62
C (6) Hair Pin Cotters
D (3) Clevis Pins
E (1) Throttle Control Knob
F (1) Adjustment Ferrule
G (4) Truss Machine Screws ¼-20 x 1.75"
H (2) Belleville Washers
I (1) Rubber Washer
J (1) Hex Center Locknut 5/16-18 Thread
K (4) Lockwashers ¼-20
L (4) Hex Nuts ¼-20 Thread
M (1) Cable Tie
N (2) Lockwashers 3/8"
O (2) Hex Locknuts 3/8-16 Thread
P (4) Hex Screws 3/8-16 x 1.00"
Q (4) Belleville Washers 3/8"



(SHOWN IN FULL SCALE)

FIGURE 3.

ASSEMBLY INSTRUCTIONS

1. Tail Piece Attachment.

Slide the tail piece into the chassis and secure with "U" clevis (A) and hair pin cotter (C). See figure 4.

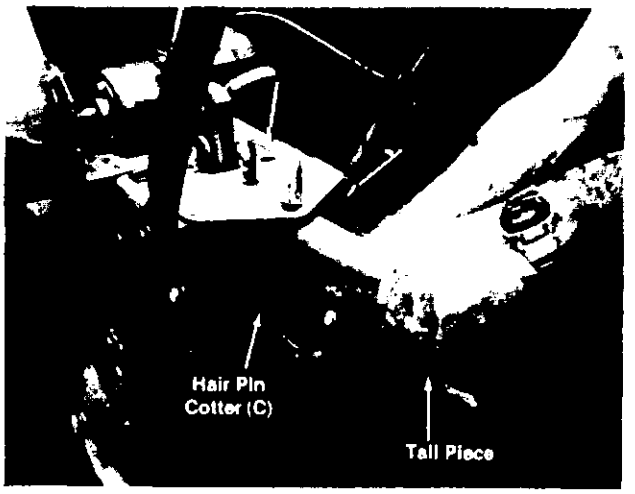


FIGURE 4.

2. Depth Bar Attachment.

Slide the depth bar into the tail piece to desired depth and secure with clevis pin (D) and hair pin (C). See figure 5.

FIGURE 5.

3. Handle Assembly Attachment.

Place preassembled handle in position on tiller chassis. Secure the bottom hole in handle bars to first hole in tiller chassis. Use hex screw (P), and belleville washer (Q). See figure 6. Secure second hole in handle bars to one of three holes in chassis. Use hex screw (P), belleville washer (Q) and place lockwasher (N) and hex nut (O) on inside of chassis. See figures 6 and 7.

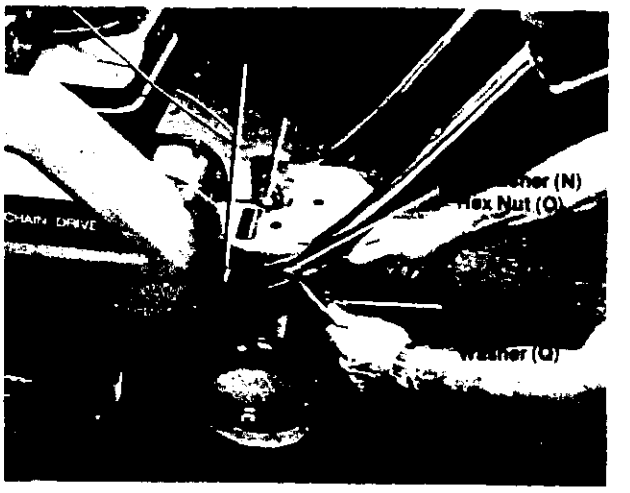


FIGURE 6.

NOTE

This tiller is a variable speed unit. Any movement in the handle (after assembly) may change your speed. The handle mount brackets **must be** as tight as possible. See figure 7.

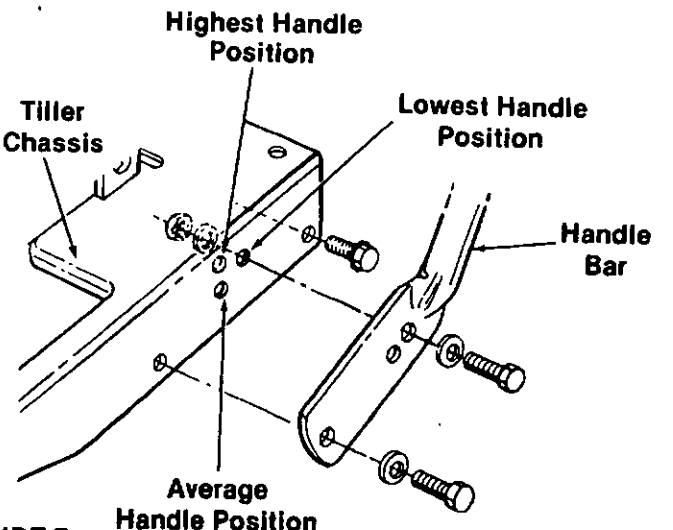


FIGURE 7.

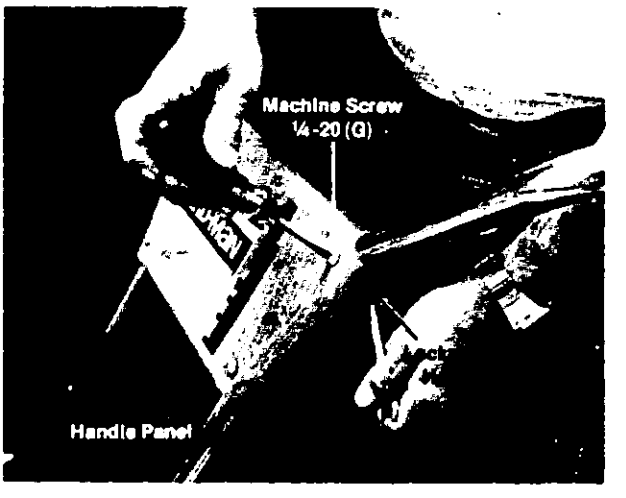


FIGURE 8.

4. Using a screwdriver and 7/16" wrench, assemble the handle panel to handles with four machine screws ¼-20 (G), four lockwashers ¼" (K) and four hex nuts ¼-20 thread (L). See figure 8.

5. Shift Lever Assembly.

The shift lever is mounted to the handle panel in the following steps.

A. Place the top hole of the shift lever over weld bolt on handle panel. See figure 9.

B. Place belleville washer (H), rubber washer (I) and another belleville washer (H) over weld bolt as shown in figure 9.

C. Secure with hex locknut (J). See figure 9.

NOTE

Tighten hex locknut just to the point the rubber washer starts to compress.

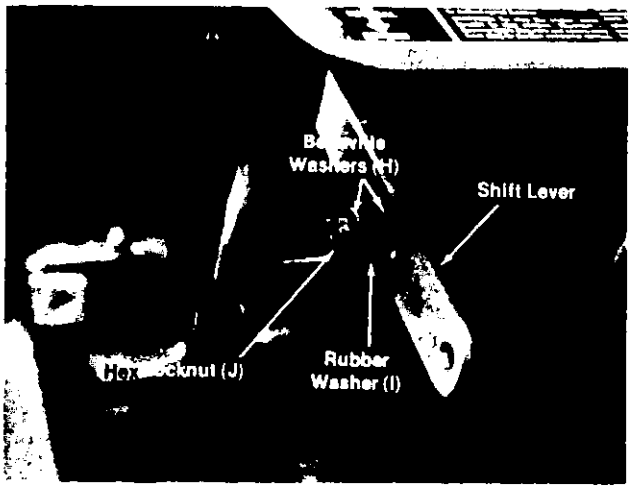


FIGURE 9.

6. Throttle Control Lever.

The throttle control is already attached to the engine.

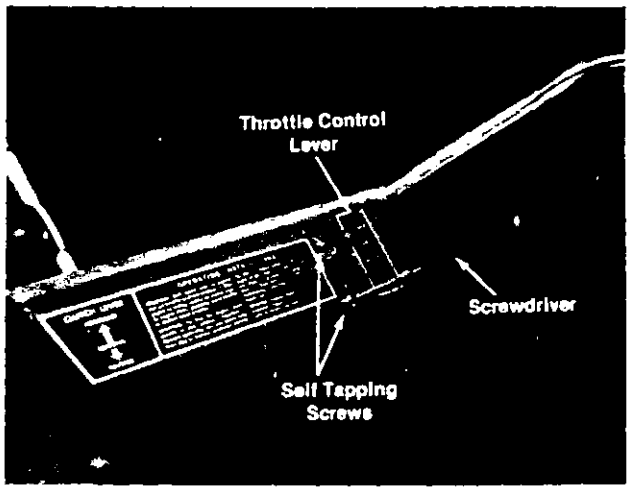


FIGURE 10.

Place throttle control lever up through the handle panel and secure with two (2) self tapping screws (B), using a ¼" flat screwdriver. See figure 10.

7. Throttle Control Knob.

Place throttle control knob on throttle control lever and tap with a hammer. See figure 11.

FIGURE 11.

8. Clutch Control Rod.

A. Thread adjustment ferrule (F) on end of control rod. See figure 12.

B. Hook other end of control rod into idler arm and secure with hairpin cotter (C). See figure 3.

C. Place shift lever in "N" Neutral position and thread ferrule up or down control rod so that ferrule lines up with hole in shift lever. See figure 12. Secure ferrule with hairpin cotter (C).

NOTE

Ferrule and control rod must be adjusted each time you change the handle height.

CLUTCH ROD AND ENGINE ADJUSTMENT

When engaging the clutch rod, you may encounter difficulty in putting the unit in reverse. This may arise when the friction disc on the variable speed does not make contact with the engine disc. To remedy this problem, loosen the four hex screws securing the engine to the tine shield and the frame until you are able to slide the engine back a little in the slots in the frame. Then tighten the hex screws, start the engine and put unit in reverse. When the spring idler makes contact on the variable speed pulley or transmission input pulley, engine is too far back and should be moved forward.

NOTE

Changing the handle position may require readjustment of the clutch rod.

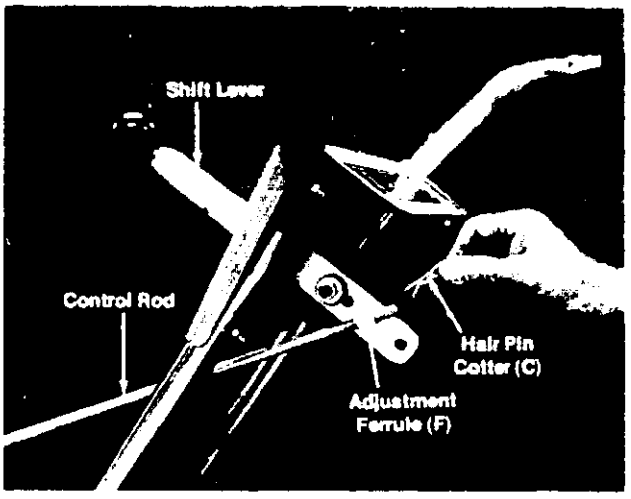


FIGURE 12.

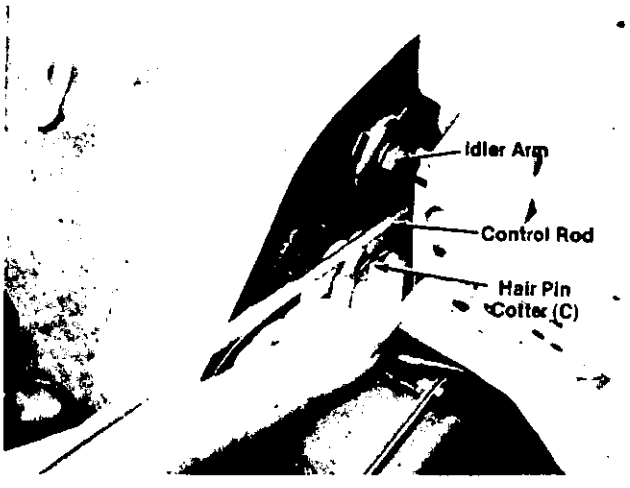


FIGURE 13.

9. Tine Attachment.

The inner tine assemblies are installed at the factory. The outer tine assemblies are inverted. See figure 13. The right hand outer tine assembly has been removed, inverted and slid onto the left hand side for shipping only. The same has been done with the left hand outer tine assembly.

Remove the outer tine assemblies and turn around so that the sharp edge of the tines enter the soil first. Secure with clevis pins (D) and cotter hair-pins (C). See figure 14. See cultivating page 10.

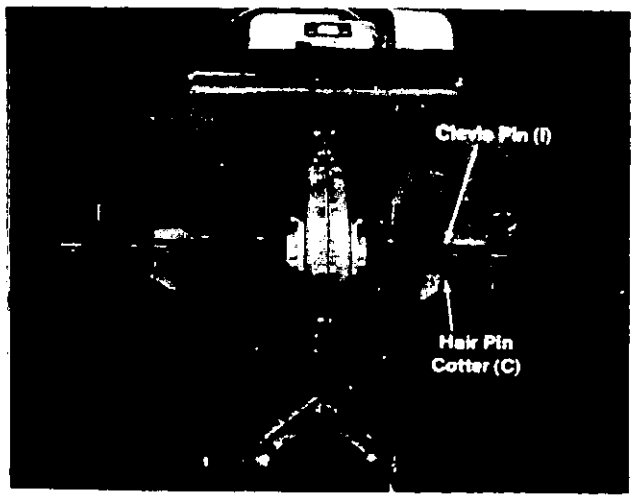


FIGURE 14.

ENGINE OPERATION

BEFORE STARTING ENGINE:

1. Before starting, fill crankcase with oil or to top of filler neck. Be sure that the engine is level. See engine manual for correct amount.
2. Use S.A.E. No. 30 MS, SC, SD or SE oil. If not available, use Multi-grade oil (S.A.E. 10W-30W) MS, SC, SD or SE. (NOTE: Below 32° F. use 10W) MS, SC, SD or SE.
3. Change oil after first 2 hours of operation and every 25 hours thereafter. Check oil every 8 operating hours.

TO START ENGINE:

CAUTION

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

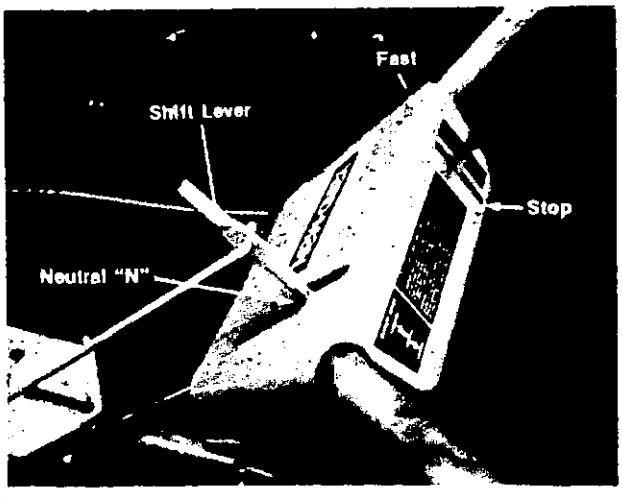


FIGURE 15.

1. Place the shift lever in the neutral (N) position. See figure 15.

2. Choke Engine. See engine manual packed with tiller.

HOW TO USE YOUR TILLER

Your tiller has a variable speed pulley. This allows you to change gears, First (1) through Fourth (4) without stopping. The gear shift lever is located on the top left hand side of handle panel. You have four (4) forward speeds, Neutral (N) and Reverse (R).

A. Forward Gears: First and Second gears are generally used for tilling sod or soil which has not been tilled before. Third and Fourth gears are usually used for fine tilling or cultivating. The soil conditions in your area will determine the speed you will want to use. If you stop your tiller or stall the engine while in a forward gear, you MUST proceed as follows:

   1.) Remove the spark plug wire and ground on engine block.

   2.) Pull the recoil starter rope and at the same time pull back on gear shift lever. Pull the rope out as many times as it takes to move the gear shift lever into Neutral (N) position. DO NOT force shift lever back into Neutral at any time.

   3.) Place the spark plug wire back on the spark plug. Start your tiller.

   4.) Push down on handle so that the tines do not touch the ground.

   5.) Move the gear shift lever through the forward gears, Neutral and Reverse. Readjust control rod if necessary.

B. Neutral (N): The Neutral detent on the handle panel is used when starting, stopping the tiller and going from a forward gear to Reverse.

C. Reverse (R) Gear: The reverse gear is a deadman type. That means if you put the tiller into reverse to back up, or to unclog the tines and you let go of gear shift lever, the reverse motion will STOP. Reverse will ONLY work when you pull the gear shift lever back and hold it in that position.

TRANSPORT WHEEL AND DEPTH BAR ADJUSTMENT

The Tiller is shipped with the wheels adjusted such that the unit sits level. During digging as the tines enter the ground and the front of the Tiller lowers, the wheels must be raised to level the unit. This is essential for proper engine operation. This adjustment is made by removing the clevis pin and hairpin cotter from wheel yoke, raising the wheels to the desired height, and replacing the clevis pin and hairpin cotter. See figure 16. The working depth of the tiller is determined by the position of the depth bar. Remove the clevis pin and hairpin to raise or lower depth bar.

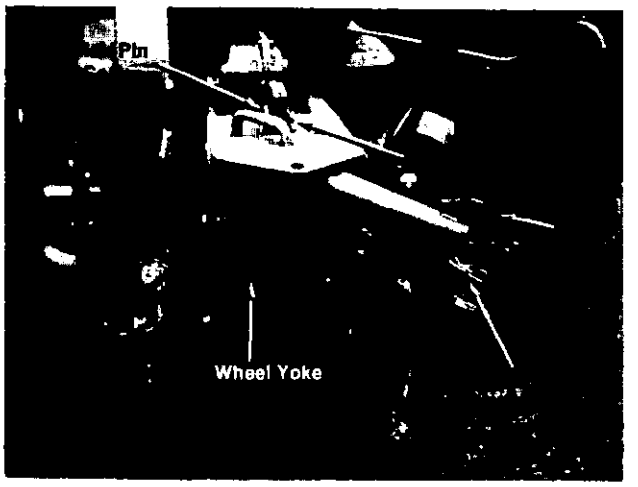


FIGURE 16.

CONTROLLING SPEED AND TILLING DEPTH:

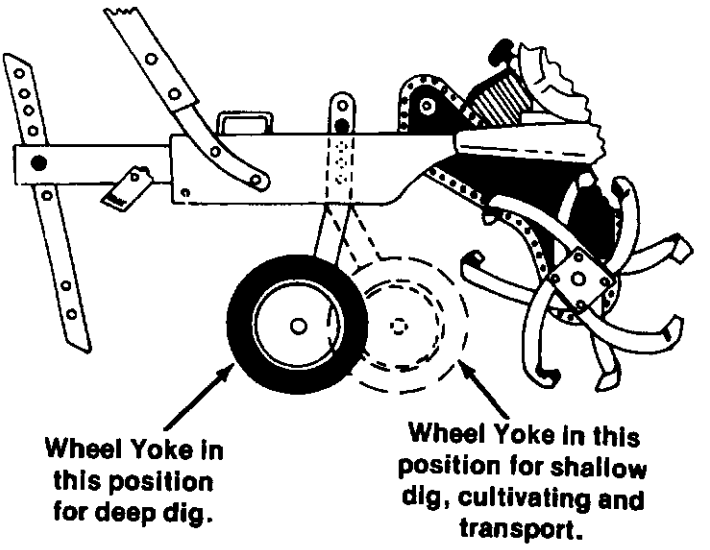


FIGURE 17.

1. **Wheel Yoke Adjustment:** By placing wheel yoke so that the wheels are forward, (nearest point between wheels and tines). See figure 17. This position will allow for shallow tilling, cultivating, transport and also the forward speed will increase. By turning the wheel yoke around (farthest point between wheels and tines) this will allow for deep tilling, and the forward speed will decrease. See figure 17.

2. **Depth Bar Adjustment:** The depth bar acts as a brake for the tiller and controls the depth and speed at which the machine will operate. See figure 18.

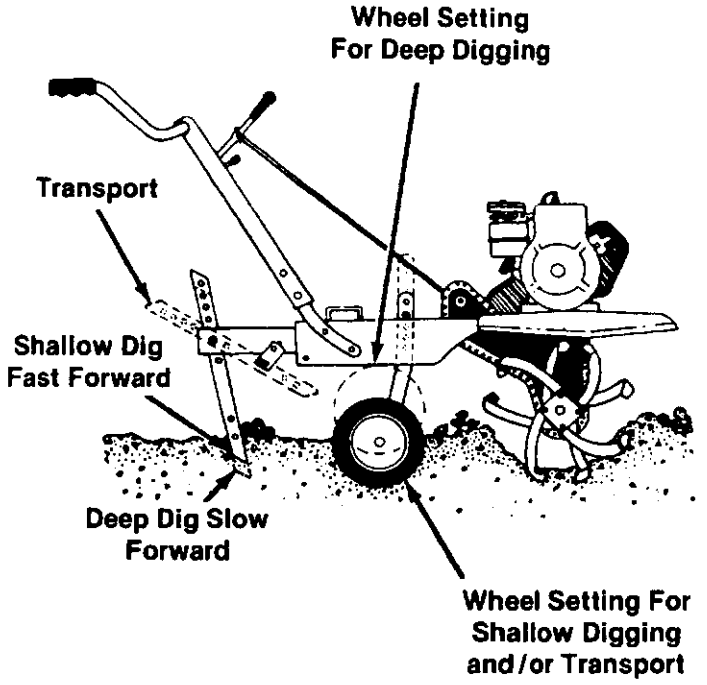


FIGURE 18.

By increasing the depth of the depth bar, the forward speed of the machine is reduced, and the working depth is increased. When the depth bar is raised, the working depth of the machine is reduced and the forward speed is increased. The working depth of the machine may be predetermined by setting the depth bar and wheels so that the wheels are about four inches from the ground when the tines and depth bar are resting on the ground. This setting will permit a working depth of about four inches. Use maximum engine speed for deep tilling. When presetting the working depth, the handles should be a little above waist height because the complete tiller will be lower when the tines and depth bar penetrate the ground. 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 bar should be lowered 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.

3. **Handle Pressure:** Further control of tilling depth and travel speed can be obtained by variation of pressure on the handles. A downward pressure on the handles will reduce the working depth and increase the forward speed. An upward pressure on the handles will increase the working depth and reduce the forward speed. The type of soil and working conditions will determine the actual setting of the depth bar and the handle pressure required.

4. **Throttle Control:** The throttle control lever is located on the left side of handle panel.

NOTE

Left hand side is determined from the operator's position standing behind the tiller.

The throttle control lever adjusts the engine speed. It also gives finger tip control of the carburetor and magneto stop switch. With the throttle control knob pushed completely forward, the carburetor is in START position. Pulling the throttle control back slightly adjusts the engine speed to FAST. Pulling the throttle back further reduces the engine speed to SLOW. When the throttle is pulled completely back, the magneto stop switch grounds out the spark and stops the engine. Move the throttle control to slow when transporting the tiller. When the tiller is being moved to or from the garden, the depth bar should be pivoted forward until it engages the depth bar spring pin. The machine may be moved under its own power, without damaging grass areas as long as it is allowed to move freely. If the operator holds back, it will start to dig.

CULTIVATING

For cultivating, a two to three inch depth is desirable. Setting the wheels and depth bar so that the wheels are about two inches above the ground, while the tiller is resting on the tines and depth bar, will allow the machine to work at cultivating depth. The throttle should be set to control forward movement to a slow walking speed. With standard tines, the working width of the machine is 26 inches. See figure 19.

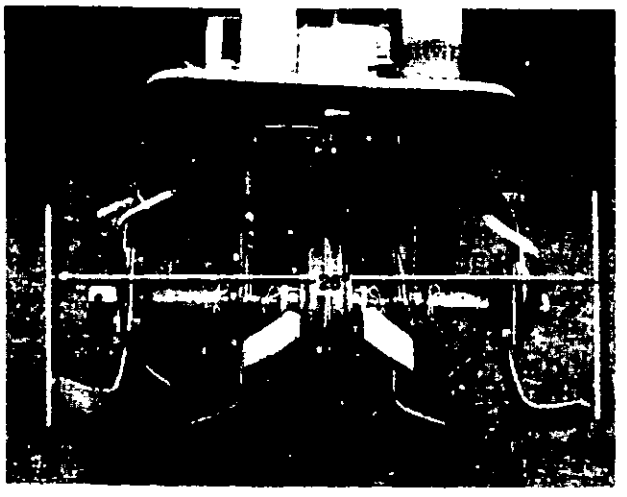


FIGURE 19.

For cultivation, this may be reduced to 14 inches by removing the outer tines. See figure 20.

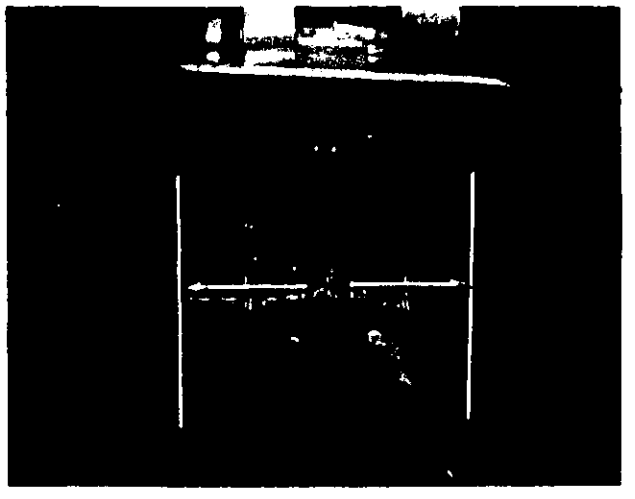


FIGURE 20.

In laying out plant rows be sure to allow enough width to permit cultivation between the rows.

In growing corn or similar crops, check-row planting will permit cross cultivation and practically eliminate hand hoeing. The tiller has many uses other than tilling and cultivating a garden. One of these is the preparation of lawn area for seeding. The tiller will prepare a deep seed bed which will be free of hard untilled spots, allowing a better stand of grass to grow. The tiller is very useful for loosening hard soil for excavation with a shovel. No tedious hand pickwork will be necessary. Your tiller may be used for mixing compost in the pile, or for mixing it with the soil in your garden. This should be done after the soil has been broken to the full working depth. The compost should be worked in to a depth of six to eight inches. This may be done by working the length of the garden, and then by mixing separate passes across its width. The addition of decayed organic matter will substantially increase the fertility of your garden. For proper decaying action, fertilizer should be applied and worked in with the mulch materials. The breaking up of the leaves and straw and the mixing of it with the several inches of soil cause the soil to hold moisture longer and allow proper aeration of the plant root system. This also retards the growth of weeds.

The U.S. Department of Agriculture and various state and local agencies offer published booklets and expert advice on all phases of gardening. They should be consulted regarding soil information, planting dates, and the most satisfactory varieties of crop for your particular area.

BELT REPLACEMENT

If belt replacement is required order belt or belts by part number from your authorized dealer listed on the back of your Owner's Manual.

FRONT DRIVE BELT—Part No. 754-0232
½" x 20" Lg.

REAR DRIVE BELT— Part No. 754-0231
½" x 28" Lg.

NO SUBSTITUTES:

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

Removing and replacing the FRONT DRIVE BELT.

1. Remove the Belt Cover by removing the two (2) Self Tapping Screws, and one (1) Hex Nut. See figure 21.

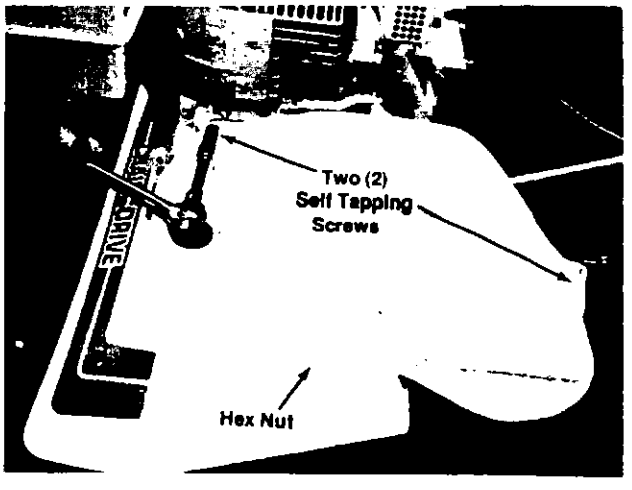


FIGURE 21.

2. Push the Shift Lever forward and lift off belt from Variable Speed Pulley and Engine Pulley. See figure 22.

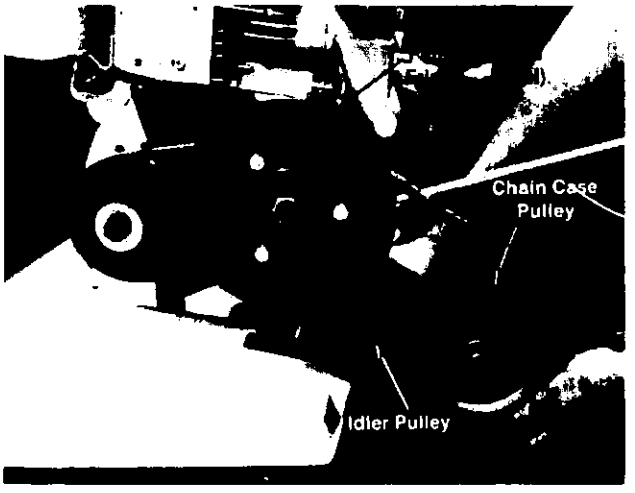


FIGURE 22.

Removing and replacing the REAR DRIVE BELT.

1. To remove the Rear Drive Belt you must remove the Front Drive Belt first. See removing the Front Drive Belt section above.
2. Push forward on the idler and lift belt off the chain case pulley, idler pulley and variable speed pulley. See figure 23.

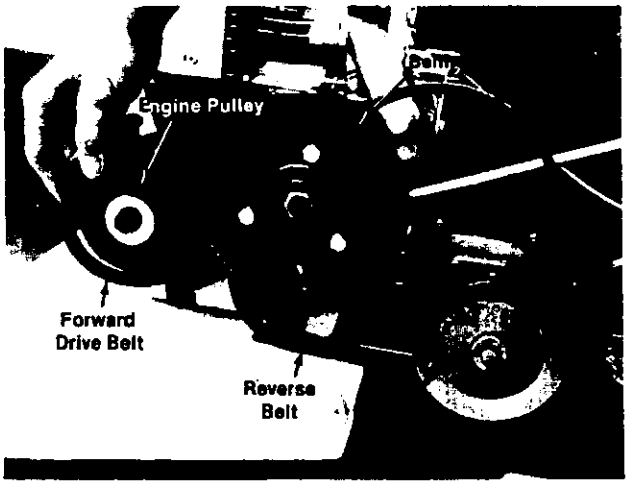


FIGURE 23.

REPLACE BELTS IN THE REVERSE ORDER.

When belts are replaced, it may be necessary to readjust the Clutch Rod and Engine. See Clutch Rod and Engine Adjustment.

CARE AND MAINTENANCE

Chain Case:

The chain case is pre-lubricated and sealed at the factory. It requires no checking unless the chain case is disassembled. To fill with grease, lay the left half of the chain case on its side, add 14 ounces of Plastilube #1 grease and assemble the right half to it. This grease can be obtained at your nearest authorized dealer listed on the back of this manual.

Engine:

1. You MUST CHANGE THE OIL in the crankcase after the first two hours of operation of your new engine and after each 25 hours of use thereafter to insure 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 24.

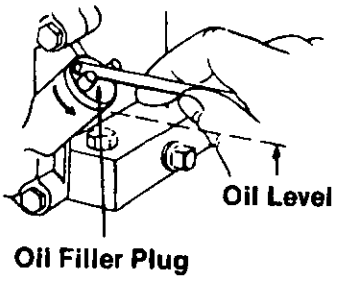


FIGURE 24.

To change oil remove drain plug and tip the tiller forward while engine is warm. See figure 25. Replace drain plug. Remove oil filler cap and refill with new oil of proper grade. Replace filler cap.

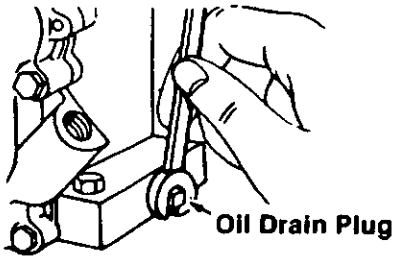


FIGURE 25.

2. Always use the PROPER FUEL in your engine. Use only a good grade of fresh, clean, regular gasoline. Do not use gasoline that has been sitting for a long period of time.
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:

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.

E. Wrap foam in cloth and squeeze dry.

F. Coat element with two tablespoons of engine oil kneading to saturate element. Squeeze to remove excess oil. See figure 26.

G. Clean air cleaner body with same solution to remove excess oil.

H. Reassemble (see figure 26) by inserting element into body and snapping cover into place, fasten to carburetor with screw.

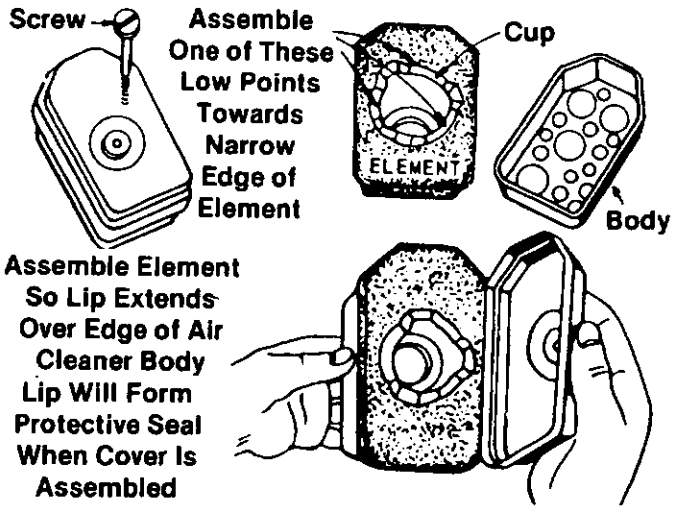


FIGURE 26.

NEVER RUN YOUR ENGINE WITHOUT AIR CLEANER COMPLETELY ASSEMBLED.

Carburetor Adjustment:

1. Never make unnecessary adjustments. The factory recommended settings are correct for most applications.
2. If adjustments are needed, proceed as follows:
   A. INITIAL ADJUSTMENT. See figure 27. 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 27. With engine running at normal 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.

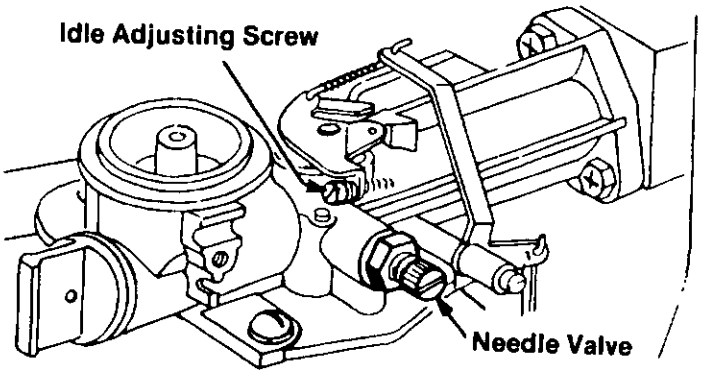


FIGURE 27.

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 28.
   A. The electrodes should be kept clean and FREE OF CARBON. The presence of carbon or excess oil will greatly deter proper engine performance.
   B. If possible, check the spark plug gap (area between electrodes) using a wire feeler gauge. This specification should be .030.

2. If you need a spark plug refer to the yellow pages of your phone book under "Engines—Gasoline" for an authorized dealer.

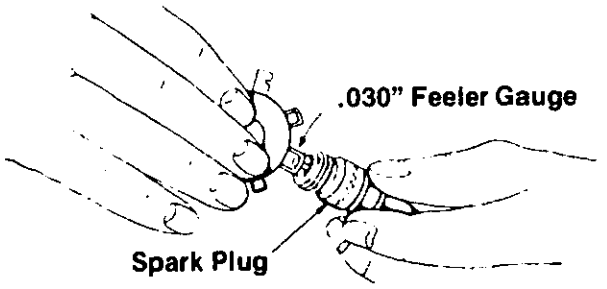


FIGURE 28.

STORAGE

If the tiller is not to be used for a while, the following procedure should be followed. The tines, depth bar, gear case and wheels should be cleaned of all dirt. It is very important that the unit be stored in a level position to prevent engine oil from draining into the cylinder head cavity.

Engines on tillers to be stored between seasons should be completely drained of fuel to prevent gum deposits forming on essential carburetor parts, and fuel tank.

(a) All fuel should be removed from fuel tank. Run the engine until it stops from lack of fuel. The small amount of fuel that remains in the sump of the tank should then be removed by absorbing it with a clean dry cloth.

(b) Clean dirt and chaff from cylinder, cylinder head fins and blower housing.

(c) Remove spark plug, pour 2 or 3 tablespoons of S.A.E.-30 oil into cylinder and pull crank cord out slowly to distribute oil. Replace spark plug.

Just as your automobile needs professional mechanical maintenance from time to time, so does your air cooled engine. Cleaning and adjusting of the carburetor and periodic replacement of the spark plug and ignition points is made necessary by NORMAL use.

Professional Air Cooled Engine Service is as close as your telephone book.

A yearly check-up or tune-up by an authorized engine dealer is a good idea to avoid breakdowns or delay...do it at the end of the season, then you're ready for the next.

TILLER WINTERIZING INSTRUCTIONS FOR USE WITH SNOW BLADE:

1. For cold weather (below 32°F.), drain oil from tiller engine crankcase and replace with SAE 10W or 10W-20W detergent oil.
2. Replace any remaining fuel on hand or in the engine fuel tank with a fresh supply of winter grade fuel. Winter fuels contain additives for faster starts. Keep fuel tank full.

NOTE

It may be necessary to enrich the carburetor idle and high speed jets 1/8 to ¼ turn (counterclockwise) for good performance.

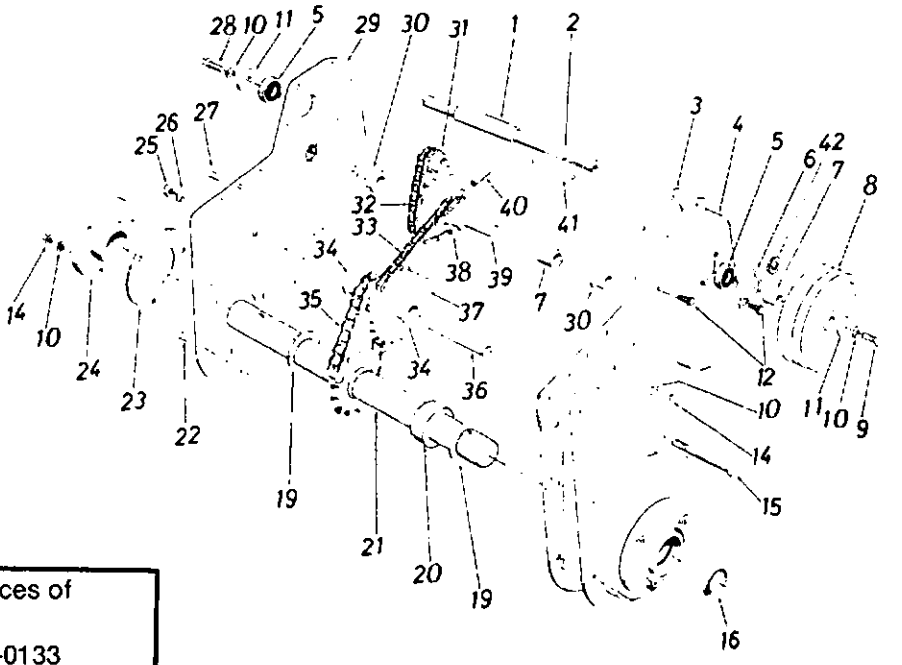
3. In the spring of the year, before the tilling season, be sure to change engine oil back to SAE 30W detergent oil.

ACCESSORIES AVAILABLE FOR TILLER MODEL 21756-9

29160-9	Pneumatic Tire Kit
29161-9	15" Sweep Plow
29163-9	32" Leveling Rake
29167-9	Hilling Plow (Must be used with 29169-9 "V" Bar Frame Adapter)
29168-9	Six Tang Cultivator (Recommended use of 29191-9 Depth Gauge Wheels)
29169-9	"V" Bar Frame Adapter (Recommended use of 29191-9 Depth Gauge Wheels)
29179-9	8" Furrow Opener
29181-9	Aereator (Recommended use of 29194-9 Wheel Weights in firm soil)
29190-9	Four Shovel Cultivator (Must be used with 29169-9 "V" Bar Frame Adapter)
29191-9	Depth Gauge Wheels
29192-9	Tine Cultivating Shields
29194-9	Wheel Weights
29195-9	Tire Chains
29196-9	32" Angle Dozer Blade

Chain Case Assembly 04907

21756-9



NOTE: Use 14 ounces of Plastilube #1
Order Part No. 737-0133

Parts List for Chain Case 04907

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	750-0315		Spacer .657 I.D. x .78 O.D. x 2.19	
2	738-0182		Jack Shaft	
3	721-0132		Gasket for Housing	
4	04887		Housing Half—L.H.	N
5	741-0155		Ball Bearing .625 I.D. x 1.375 O.D.	
6	05034		Bearing Housing	
7	750-0229		Spacer .625 I.D. x .88 O.D. x 1.035	
8	756-0305		Chain Case Pulley 4.5" Dia.	
9	710-0371		Hex Scr. 5/16-18 x .88" Lg. Special	
10	736-0119		L-Wash. 5/16" Scr.*	
11	736-0231		Fl-Wash. 5/16 I.D. x 1.125 O.D. x .125	
12	710-0599		Hex Wash. Hd. Self Tapp. Scr. ¼-20 x .50" Lg.	
14	712-0267		Hex Nut 5/16-18 Thd.*	
15	710-0644		Hex Scr. 3/8-16 x 3.25" Lg.	
16	721-0102		Oil Seal 1" I.D. x 1.357 O.D.	
19	736-0259		Fl-Wash. 1.0" I.D. x 1.62 O.D. x .090	
20	750-0314		Spacer 1.0" I.D. x 2.0" O.D. x .68	
21	06800		Tine Shaft Ass'y.	
22	710-0599		Thd. Rolling Scr. ¼-20 x .50" Lg.	
23	721-0133		Gasket for Bearing Hsg.	
24	741-0198		Bearing Housing Ass'y.	
25	712-0798		Hex Nut 3/8-16 Thd.*	
26	736-0169		L-Wash. 3/8" Scr.*	
27	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
28	710-0538		Hex Scr. 5/16-18 x .62" Lg. Special	
29	04888		Housing Half—R.H.	
30	748-0229		Hex Flanged Bearing .630 I.D.	
31	713-0206		Sprocket 10 Teeth x .500 Pitch	
32	713-0131		#41 Chain ½" Pitch x 34 Links Endless	
33	713-0186		#420 Chain ½" Pitch x 48 Links Endless	
34	748-0855		Flange Bearing .628 I.D.	
35	713-0187		#50 Chain 5/8" Pitch x 28 Links Endless	
36	738-0320		Sprocket Shaft	
37	713-0182		Sprocket Bearing Sleeve Ass'y.	
38	713-0181		Sprocket Sleeve Ass'y.	
39	738-0308		Sprocket Shaft	
40	715-0114		Spring Pin Spiral ¼" Dia. x 1.5" Lg.	
41	714-0133		Sq. Key 3/16 x 1.50" Lg.	
42	736-0162		Fl-Wash.	

*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.

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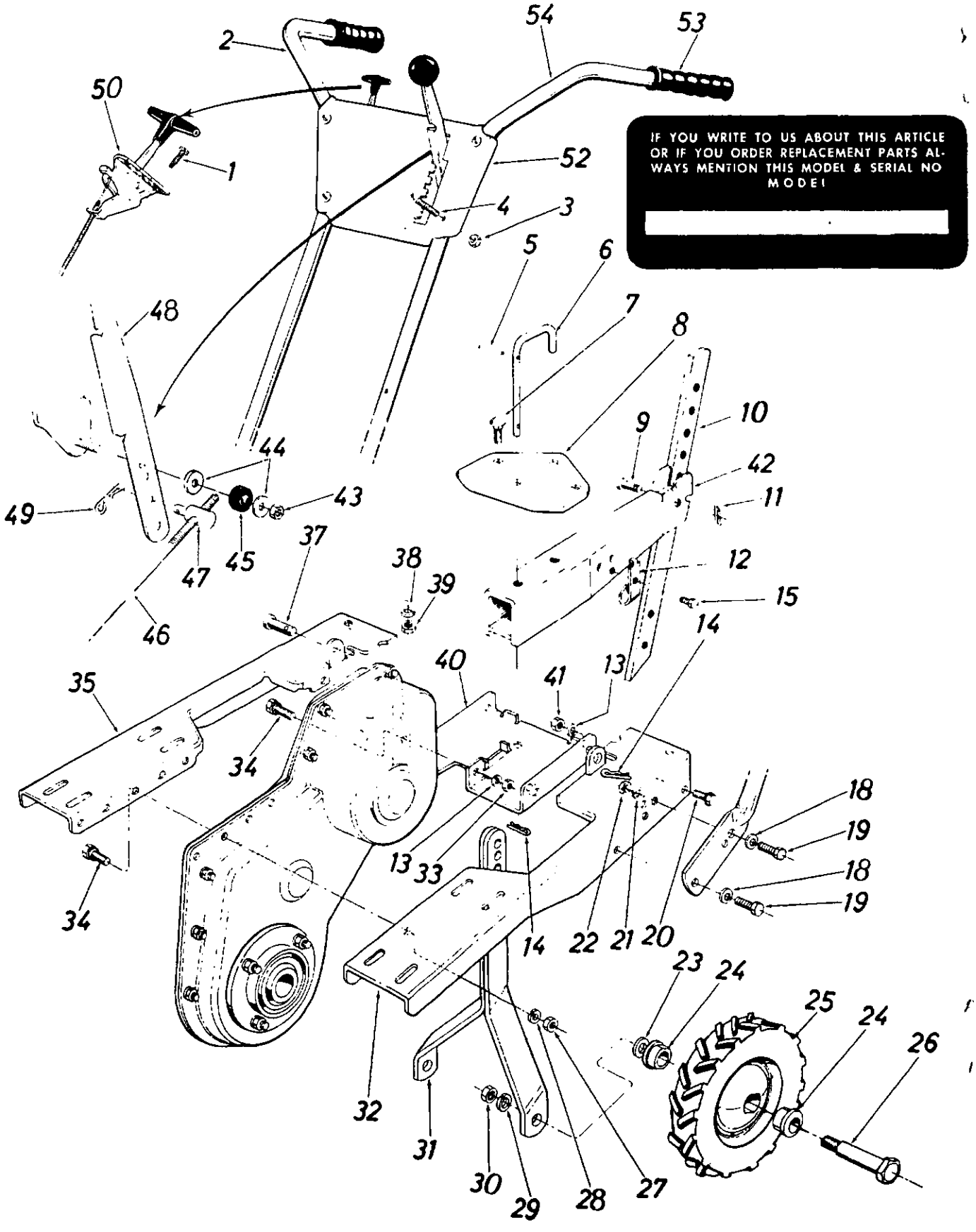

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO
MODEL

PARTS LIST FOR MODEL 21756-9

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0160		Hex Wash. Hd. AB.-Tapp Scr. #8 x .62" Lg.*	
2	749-0292		Handle Tubing R.H.	
3	712-0324		Hex L-Nut ¼-20 Thd.	
4	710-0524		Truss Mach. Scr. 1/4"-20 x 1.75" Lg.	
5	715-0119		Spring Roll Pin 5/32" Dia. x 1.12" Lg.	
6	04602		"U" Clevis Pin .500" Dia.	
7	710-0451		Carriage Bolt 5/16"-18 x .75" Lg.*	
8	04586	—497	"U"-Channel Plate	
9	711-0599		Clevis Pin	
10	06811		Depth Bar	
11	714-0145		Inter. Cotter Pin 1/2" Dia.	
12	732-0322		Depth Stake Spring	
13	736-0119		L-Wash. 5/16" Scr.	
14	714-0145		Inter. Cotter Pin	
15	710-0599		Thd. Rolling Scr.	
18	736-0105		Belleville Wash. 3/8" I.D.	
19	710-0152		Hex Scr. 3/8"-24 x 1.00" Lg.*	
20	710-0118		Hex Sems Scr. 5/16-18 x .75" Lg.*	
21	736-0169		L-Wash. 3/8" Scr.*	
22	712-0241		Hex Nut 3/8" -24 Thd.*	
23	736-0253		Belleville Wash.	
24	741-0116		Flange Brg. .631 I.D. w/Flat	
25	734-0867		Wheel Ass'y. 10 x 1.75 Tractor Tire	
26	738-0318		Shld. Scr. .625" Dia. x 2.75" Lg. ½-20 Thd.	
27	712-0267		Hex Nut 5/16"-18 Thd.*	
28	736-0119		L-Wash. 5/16" Scr.*	
29	736-0921		L-Wash. 1/2" Scr.*	
30	712-0239		Hex Cent L-Nut 1/2"-20 Thd.	
31	06813		Wheel Bracket Assy.	
32	06792		Engine "U"-Channel Ass'y.—L.H.	
33	712-0267		Hex Nut 5/16-18 Thd.*	
34	710-0322		Hex Sems Scr. 5/16"-18 x 1.00" Lg.*	
35	06794		Engine "U"-Channel Ass'y.—R.H.	
37	711-0599		Clevis Pin	
38	736-0119		L-Wash. 5/16" Scr.*	
39	712-0267		Hex Nut 5/16-18 Thd.*	
40	06816	—497	"U"-Channel Brkt. Assy.	
41	712-0267		Hex Nut 5/16-18 Thd.*	
42	06807		Tail Piece Ass'y.	
43	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
44	736-0159		Fl-Wash. .344" I.D. x .87" O.D.	
45	735-0126		Rubber Washer	
46	747-0271		Control Rod	
47	711-0392		Ferrule	
48	04810		Clutch Handle Ass'y. w/Knob	
49	714-0145		Inter. Cotter Pin 1/2" Dia.	
50	746-0302		Throttle Control Complete	
52	15146	—497	Handle Panel Ass'y.	
53	720-0180		Grip	
54	749-0291		Handle Tubing L.H.	

*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.

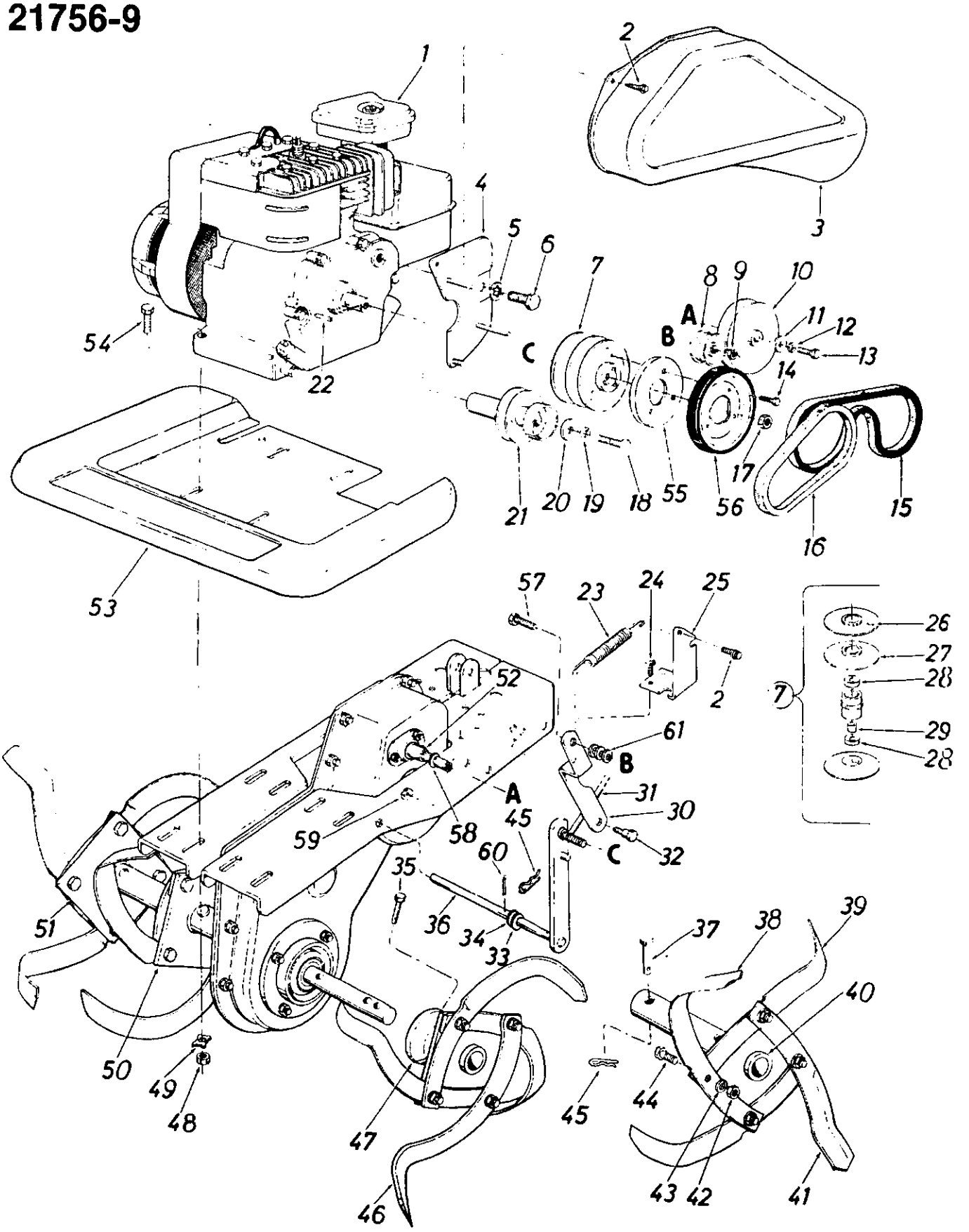
(497—Yard-Man Red) When ordering parts if color or finish is important, use the appropriate color code shown at left (e.g. Yard-Man Red Finish—04626 (497).)

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."

NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

21756-9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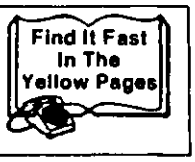
PARTS LIST FOR MODEL 21756-9

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	5 H.P.		Engine B&S		31	747-0271		Control Rod 3/8" Rod	
2	710-0599		Thread Rolling Scr. 1/4"-20 x .50" Lg.		32	738-0140		Shld. Bolt .437 Dia. x .180	
					33	748-0198		Spacer	
3	04899	—497	Belt Cover		34	736-0156		Fl-Wash.	
4	04896		Front Belt Guard Support Ass'y.		35	711-0679		Clevis Pin	
					36	04889		Pivot Arm Ass'y.	
5	736-0114		Internal L-Wash ½" Dia.		37	711-0599		Clevis Pin	
6	710-0121		Hex Scr. 1/2-20 x .15 Spec.		38	742-0175		Tine L.H.	
7	717-0390		Variable Speed Pulley		39	742-0174		Tine R.H.	
8	756-0313		Idler Pulley		40	06797		Outer Tine Adapter Ass'y.	
9	710-0116		Hex L-Nut 3/8-24 Thd.		41	04695		Outer Tine Ass'y.—Comp. L.H.	
10	756-0305		Pulley 4.50" Dia.						
11	736-0231		Fl-Wash 5/16" I.D. x 1.120" O.D.		42	712-0241		Hex Nut 3/8"-24 Thd.*	
					43	736-0169		L-Wash 3/8" Scr.*	
12	736-0119		L-Wash. 5/16" Scr.*		44	710-0191		Hex Scr. 3/8"-24 x 1.25" Lg.*	
13	710-0371		Hex Scr. 5/16-18 x .88" Lg.						
14	710-0230		Hex Scr. 1/4"-28 x .50" Lg.*		45	714-0145		Inter. Cotter Pin 1/2" Dia.	
					46	06821		Inner Tine Ass'y.—Comp. L.H.	
15	754-0231		"V"-Belt 1/2" x 28" Lg.						
16	754-0232		"V"-Belt 1/2" x 20" Lg.		47	06798		Inner Tine Adapter Ass'y.	
17	712-0200		L-Nut 1/2"-13 Thd.		48	712-0267		Hex Nut 5/16"-18 Thd.*	
18	710-0191		Hex Scr. 3/8"-24 x 1.25" Lg.*		49	736-0170		Shake-Proof Washer	
					50	06822		Inner Tine Ass'y.—Comp. R.H.	
19	736-0169		L-Wash 3/8" Scr.*						
20	736-0258		Fl-Wash. 3/8" I.D. x 1.00" O.D.		51	04696		Outer Tine Ass'y.—Comp. R.H.	
21	756-0306		Engine Pulley 3.00 Dia.		52	750-0229		Spacer .635" I.D. x .88 O.D. x 1.035" Lg.	
22	714-0133		Sq. Key 3/16" x 1.50" Lg.						
23	732-0376		Extension Spring		53	15160	—497	Tine Shield	
24	710-0599		Hex Tapp. Scr. 1/4"-20 x .50" Lg.		54	710-0442		Hex Scr. 5/16"-18 x 1.50" Lg.*	
25	04898		Belt Guard Support Rear		55	09164		Reinforcement Plate	
26	715-0124		Spring Pin Spiral 5/32 Dia. x .62" Lg.		56	04900		Friction Wheel Ass'y.	
					57	710-0459		Hex Scr. 3/8-24 x 1.50" Lg.	
27	10844		Sheave Half		58	736-0162		Fl-Wash.	
28	741-0139		Ball Bearing		59	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
29	750-0146		Spacer		60	714-0115		Cotter Pin 1/8" Dia.*	
30	04894		Idler Arm		61	736-0185		Fl-Wash.	

*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.

(497—Yard-Man Red) When ordering parts if color or finish is important, use color code shown at left. (e.g. Yard-Man Red Finish—11907 (497).)

The engine is not under warranty by the mower 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."



YARD-MAN
PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all YARD-MAN manufactured power equipment are available through the authorized service distributors listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required. DO NOT SEND PARTS ORDER TO FACTORY. Contact distributor for name of local dealer.

ALABAMA	**DOTHAN**	
Auto Elect. Co. of Ala. Inc.	1301 Montgomery Hwy.	36301
	DECATUR	
Alabama Farmers Co-op Inc.	121 Somerville Road	35601
	FLORENCE	
B.M. Ingram Inc.	705 S. Seminary	35630
ARKANSAS	**MALVERN**	
Power Edge Corp.	227 W. Page Ave.	72104
CALIFORNIA	**GARDENA**	
Quality Mower Dist.	15100 Crenshaw Blvd.	90249
	NORTHRIDGE	
Mower Sales and Service	8541 Reseda Blvd.	91324
	ORANGE	
Pearson's Lawn Mower	169 S. Hewes St.	92669
	SACRAMENTO	
Bliss Power Lawn Equip. Co.	101 Commerce Circle	95815
	SAN BERNARDINO	
Lawnmower Supply Co.	25608 E. Baseline	95926
	STOCKTON	
Central Valley Howe Co.	924 E. Church St.	95202
COLORADO	**STERLING**	
Stickney's	101 Main St.	80751
	WHEAT RIDGE	
Turf Equip. and Parts	8035 West 44th St.	80033
FLORIDA	**CORAL GABLES, MIAMI**	
Moz-All of Florida, Inc.	365 Greco	33146
	JACKSONVILLE	
Radco Dist., Inc.	2403 Market St.	32206
	OCALA	
Lovell Brothers	320 N.W. 10th St.	32670
ILLINOIS	**CERRO GORDO**	
Van Horn Sales	R.R. #1	61818
	LYONS	
Keen Edge	8615 Ogden Ave.	60534
	SULLIVAN	
Lawn Equip. Service Co.	1133 W. Jackson St.	61951
INDIANA	**FORT WAYNE**	
Lynn Koehlinger Co.	3675 North Wells-Box 96	46801
KENTUCKY	**HEBRON**	
J.A. Stevens Mower Co.	P.O. Box 38	41048
	HOPKINSVILLE	
Cayce Mill Supply Co.	505 East First St.	42240
LOUISIANA	**BATON ROUGE**	
S & S Distributing Co.	1307 Main St.	70821
MAINE	**BANGOR**	
M.L. Coffin Co.	725 Broadway	04401
MASSACHUSETTS	**SOUTHBORO**	
Crandall-Hicks Co.	Rt. #9	01772
MICHIGAN	**FERNDALE**	
Ideal Mower Sales, Inc.	811 Woodward Heights	48220
	GRAND RAPIDS	
Jac Van Dist., Inc.	4350 Airwest S.E.	49508
	JACKSON	
Factory Branch	440 East Prospect	49202
MISSOURI	**ROLLA**	
Ozark Equip. Co., Inc.	Hwy.63&BlackSt.-Box784	65401
MONTANA	**BILLINGS**	
Parking Montana Co.	2100 Sixth Ave. North	59101

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

NEBRASKA	**OMAHA**	
K & K Co. Inc.	711 S. 15th St.	68102
Midlands Automotive Warehouse Inc.	7400 Pacific Ave.	68114
NEW JERSEY	**PARSIPPANY**	
Elmco Dist., Inc.	2 Eastmans Rd.	07054
NEW MEXICO	**ALBUQUERQUE**	
Southwest Toro, Inc.	3700 Edith Blvd., N.E. P.O. Box 6307	87107
NEW YORK	**SYRACUSE**	
Morris Electronics Dist., Inc.	1153 W. Fayette St.	13201
NORTH CAROLINA	**WINSTON-SALEM**	
Carswell Dist., Co.	3750 N. Liberty St.-Box 4193 North Station	27105
OHIO	**CARROLL**	
Stebe's Inc.	P.O. Box 366	43112
	CLEVELAND	
Tecca Dist., Co.	4747 Manufacturing Ave.	44135
OKLAHOMA	**OKLAHOMA CITY**	
Moore Cycle & Supply	1537 W. Main St.	73106
PENNSYLVANIA	**MT. PLEASANT**	
Valley Equip. Dist.	203 N. Depot St.	15666
	HATFIELD	
Ronconi Equip. Inc.	2867 Sandstone Dr.	19440
TENNESSEE	**BRISTOL**	
Mitchell-Powers Hdwe. Co.	5th St. Extension	37623
	KNOXVILLE	
House Hasson Hdwe.	757 Western Ave.	37917
Master Repair Service	2423 Broadway, N.E.	37917
	UNION CITY	
Graves Dist. Co., Inc.	1318 Stad Ave.	38261
TEXAS	**COMANCHE**	
Higginbotham Bros.	203 W. Central & Mary	76442
	EL PASO	
Southwest Toro Inc.	1628 Myrtle P.O. Box 51	
	FORT WORTH	
Woodson Sales Corp.	1702 N. Sylvania	76111
	HOUSTON	
Outdoor Equip., Inc.	8000 Harwin St. P.O. Box 42146	77036
UTAH	**BOUNTIFUL**	
Powered Products	485 N. 500W	84010
VIRGINIA	**BLUEFIELD**	
Bluefield Supply Co.	St. Rte. 102, Box 112	24605
	LORTON	
Ronconi Equip. Inc.	8815 Telegraph Rd.	22079
	LYNCHBURG	
Bailey-Spencer Hardware Co.	1016-26 Commerce St.	24505
	RICHMOND	
Universal Tractor Equip. Corp.	Box 5489 928 N. Meadow St.	23220
WASHINGTON	**SEATTLE**	
Equip. North West Inc.	1410 Fourteenth Ave.	98122
CANADA	**KITCHENER, ONTARIO**	
MTD Products	97 Kent Ave.	N2G4J1

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—Date Repaired.
4. **Nature** of failure—Correction.

YARD-MAN COMPANY• 5389 WEST 130th STREET• P.O. BOX 2741 CLEVELAND, OHIO 44111