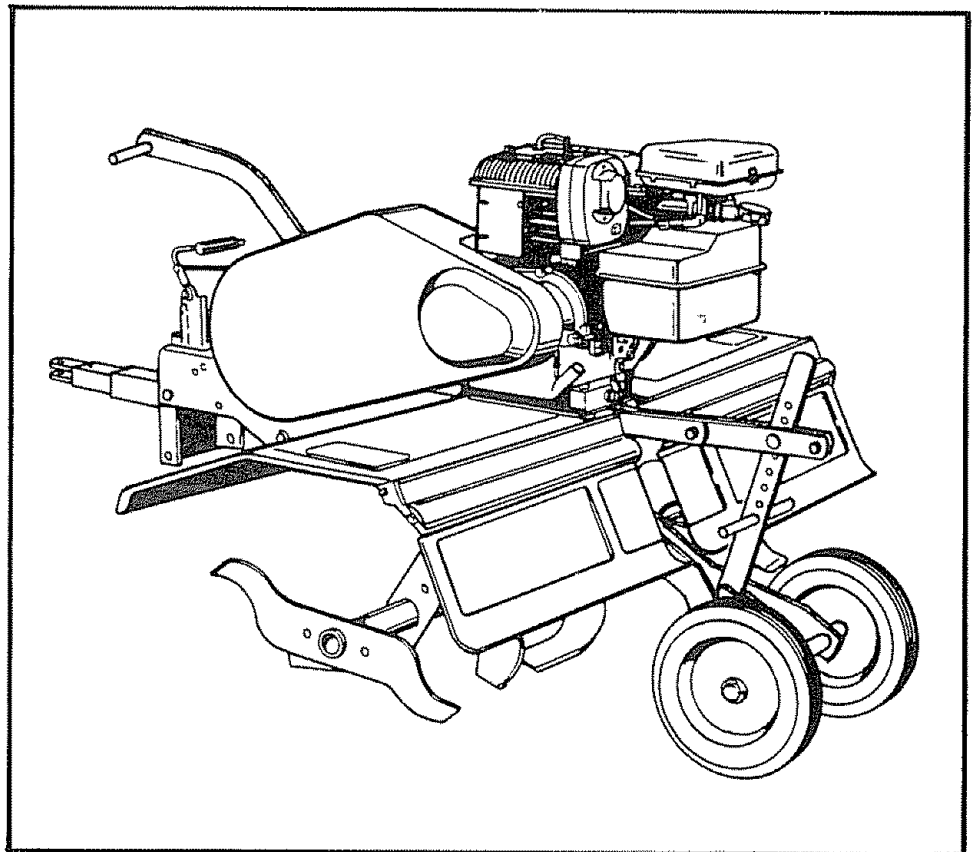


**SEARS**

**OWNER'S  
MANUAL**

**MODEL NO.  
842.252440**

**Caution:**  
Read and follow  
all Safety Rules  
and Instructions  
Before Operating  
This Equipment



**CRAFTSMAN<sup>®</sup>**

**5.0 HORSEPOWER  
36 INCH TINE WIDTH  
VERSATILE TOW BEHIND  
TILLER ATTACHMENT**

- . Assembly
- . Operation
- . Customer Responsibilities
- . Service and Adjustment
- . Repair Parts

---

**Sears, Roebuck and Co., Hoffman Estates, IL 60179, U.S.A**

---



# SAFETY RULES



## Safe Operation Practices for the Tow-Behind Tiller Attachment

### TRAINING

- Read opening and Service instructions carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- Never allow children to operate the machine. Do not allow adults to operate the machine without proper instruction.
- Keep the area of operation clear of all persons, particularly small children and pets.

### PREPARATION


- Check the fuel and lubrication before starting the engine. Do not fill the gasoline tank indoors when the engine is running or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
- Inspect the area to be filled. Remove glass, wire, metal objects, large sticks and stones. Avoid underground pipes and wiring.
- Have a complete working knowledge of your tractor and know how to handle your tractor with a tiller or other attachment attached.

### OPERATION

- Give complete and undivided attention to the job at hand. Operate the tiller in daylight or good artificial light.
- Personal injury may result from contact with the tines or debris thrown by this machine. Therefore, always stay a safe distance away from tines.
- Stop the tiller engine when leaving your tiller unattended.
- Check before each use for loose fasteners or parts.

### IMPORTANT

Warnings, Cautions, and Notes are a means of attracting attention to important or critical information in this manual.



**LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS-ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.**

- 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 an enclosure.
- Stop engine and disconnect spark plug lead wire before cleaning tines, removing obstacles or making adjustments except for any instructions which must be done while the engine is running.
- Never place hands or feet under or into rotating parts or concealed areas. Keep hands and feet clearly away from tine elements, belts, pulleys, etc., while engine is running.
- Wear substantial shoes and eye protection while using tiller.
- Never attempt to make a maintenance adjustment except on the carburetor, while engine is running.
- Do not run the engine indoors; carbon monoxide fumes are dangerous to inhale.
- Never operate machine without proper guards, plates or other safety protective devices in place.
- Disengage the Tine Drive Clutch, stop tiller and tractor engines before getting off the tractor.
- Disengage the Tine Drive Clutch and stop the tiller engine during transportation to and from the work area.

### MAINTENANCE AND STORAGE

- Follow maintenance instructions as outlined in this manual and your Engine Owners Manual supplied with the unit.
- Disconnect spark plug wire before making any maintenance adjustment or repair.
- Store gasoline in an approved metal container in a cool, dry place.
- Keep all nuts, bolts and screws tight. Keep machine in good operating condition and keep safety devices in place.
- Safety and performance levels can be assured only by the use of specified replacement parts.

CONGRATULATIONS on your purchase of a Sears tiller. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problems you cannot easily remedy, please contact your nearest Sears Authorized Service Center. Sears has competent, well trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tiller properly. Always observe the "SAFETY RULES".

MODEL  
NUMBER 842-252440

SERIAL  
NUMBER \_\_\_\_\_

DATE OF  
PURCHASE \_\_\_\_\_

THE MODEL AND SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE RIGHT HAND CHASSIS.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

## MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

## CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your Tiller
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this Owner's Manual.

## PRODUCT SPECIFICATIONS

HORSEPOWER:	5.0 H.P.
DISPLACEMENT:	12.57 cu. in.
GASOLINE CAPACITY:	3 QUARTS Regular Unleaded
OIL (20 oz. Capacity):	Above 32 F: SAE 30 Below 32 F: SAE 5W30
SPARK PLUG (GAP .030 IN.):	Champion RJ19LM
TILLING GROUND SPEED:	Approx. 2 MPH
TILLING WIDTH:	36 IN.
TILLING TINE SPEED:	260 RPM

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered, or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. See your Sears Authorized Service Center for spark arrester. Refer to the repair Parts section of this manual for part number.

## LIMITED ONE YEAR WARRANTY ON CRAFTSMAN TILLER

For one year from date of purchase, when this Craftsman Tiller is maintained, lubricated, and tuned up according to the operating and customer responsibilities instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

This Warranty does not cover:

Expendable items which become worn during normal use, such as tines, spark plugs, air cleaners and belts.

Repairs necessary because of operator abuse or negligence, including bent crankshafts and the failure to maintain the equipment according to the instructions contained in the owner's manual.

If this Craftsman Tiller is used for commercial or rental purposes, this warranty applies for only 30 days from the date of purchase.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE CRAFTSMAN TILLER TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN USE IN THE UNITED STATES.

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

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, IL 60179

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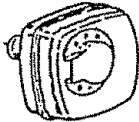

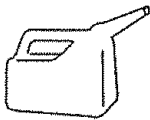
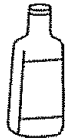

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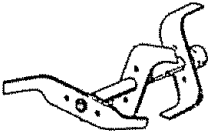
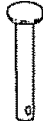

# ACCESSORIES

THESE ACCESSORIES WERE AVAILABLE WHEN THE TILLER WAS PURCHASED. THEY ARE ALSO AVIALABLE AT MOST SEARS RETAIL OUTLETS, CATALOG AND SERVICE CENTERS. MOST SEARS STORES CAN ORDER REPAIR PARTS FOR YOU WHEN YOU PROVIDE THE MODEL NUMBER OF YOUR TILLER.


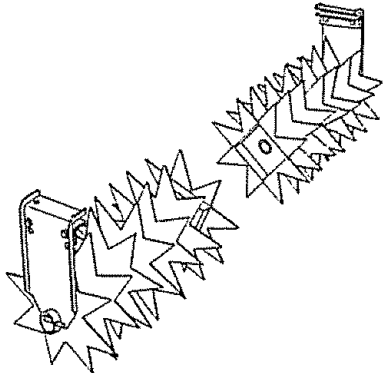
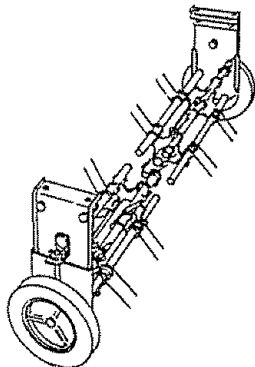
## ENGINE

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
					

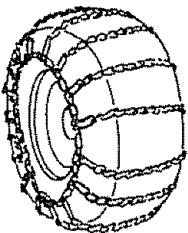
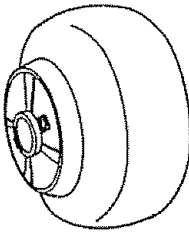
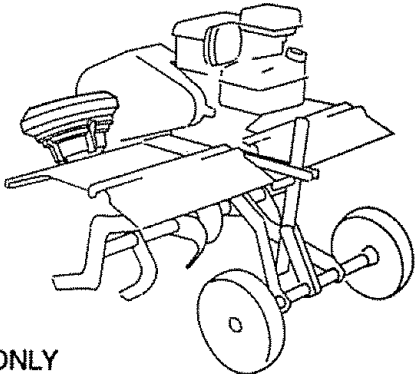
## TILLER MAINTENANCE

BELT	TINES	CLEVIS PIN	HAIR COTTER PIN
			

## ACCESSORIES

HILL ROW	AERATOR	DETHATCHER
		

## TRACTION/COMFORT ATTACHMENTS

TIRE CHAINS	WHEEL WEIGHTS	
	TRACTOR	TILLER
		 30 LB ONLY

# ASSEMBLY

## TO REMOVE UNIT FROM CARTON

### UNPACK CARTON

- Cut from top to bottom all four corners of the carton and lay panels flat. (See Fig 1)
- Remove lag screw that holds the floating hitch to the packing skid.
- Disassemble and discard wood top and side carton supports.
- Remove four Hex Bolts, four Hex nuts, and four Flat Washers from the hold down Brackets at rear of Tiller carton.
- Remove two Flat Washers and two Cotter Pins from rear Axle and save for use when attaching Gauge Wheels.
- Discard all other packing Hardware and hold down Brackets.
- Remove Gauge Wheels from Wheel Box

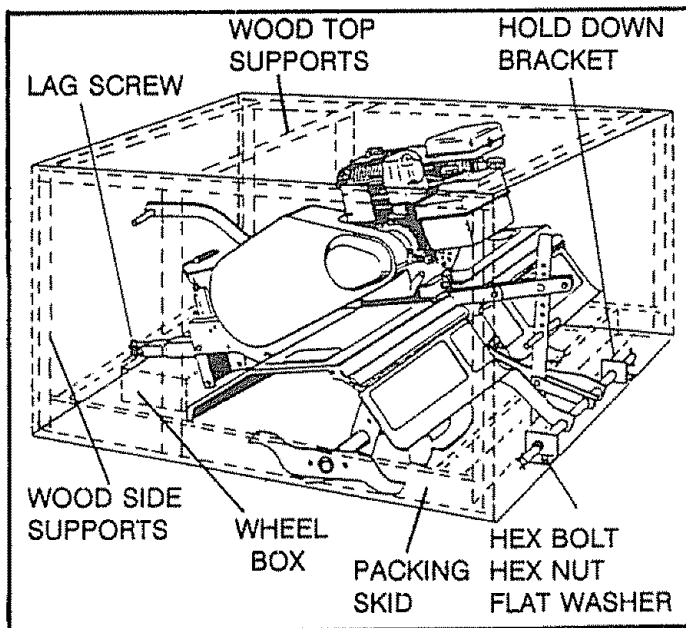


FIG. 1

## TO INSTALL THE TILLER GAUGE WHEELS

### ATTACH GAUGE WHEELS

- Assemble Gauge Wheels onto the Rear Axle with extended Hub inward and secure with a Flat Washer and Cotter Pin. (See Fig. 2)

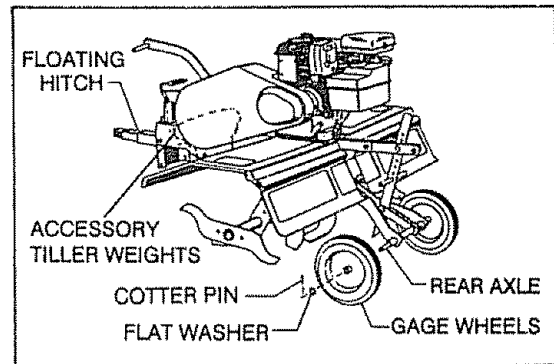


FIG. 2

## TO INSTALL THE TILLER (WHEEL) WEIGHT ACCESSORIES

**NOTE:** Tiller (Wheel) Weights are not furnished with Tiller. They are an accessory that may be purchased if required. (See Operation section of the manual.)

- Remove two Carriage Bolts and Nuts from the front of each Tine Shield, located approximately 3-1/2 inches from the front edge. (See Fig 3)
- Place Tiller (Wheel) Weight on Tine Shield and secure with long Bolts and Nuts furnished with the Weights.

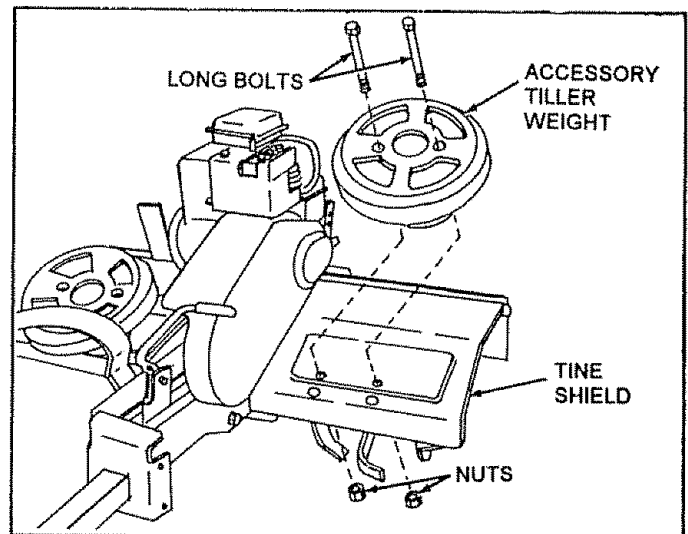


FIG. 3

When R.H. (Right Hand) or L.H. (Left Hand) are used, it means from a position behind the steering wheel as if you were seated on the tractor seat and facing forward.

**NOTE:** We recommend that you remove Mower Deck before using Tiller.

# OPERATION

## KNOW YOUR TILLER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TILLER.

Compare the illustrations with your tiller to familiarize yourself with the location of various controls and adjustments. Save the manual for future reference.

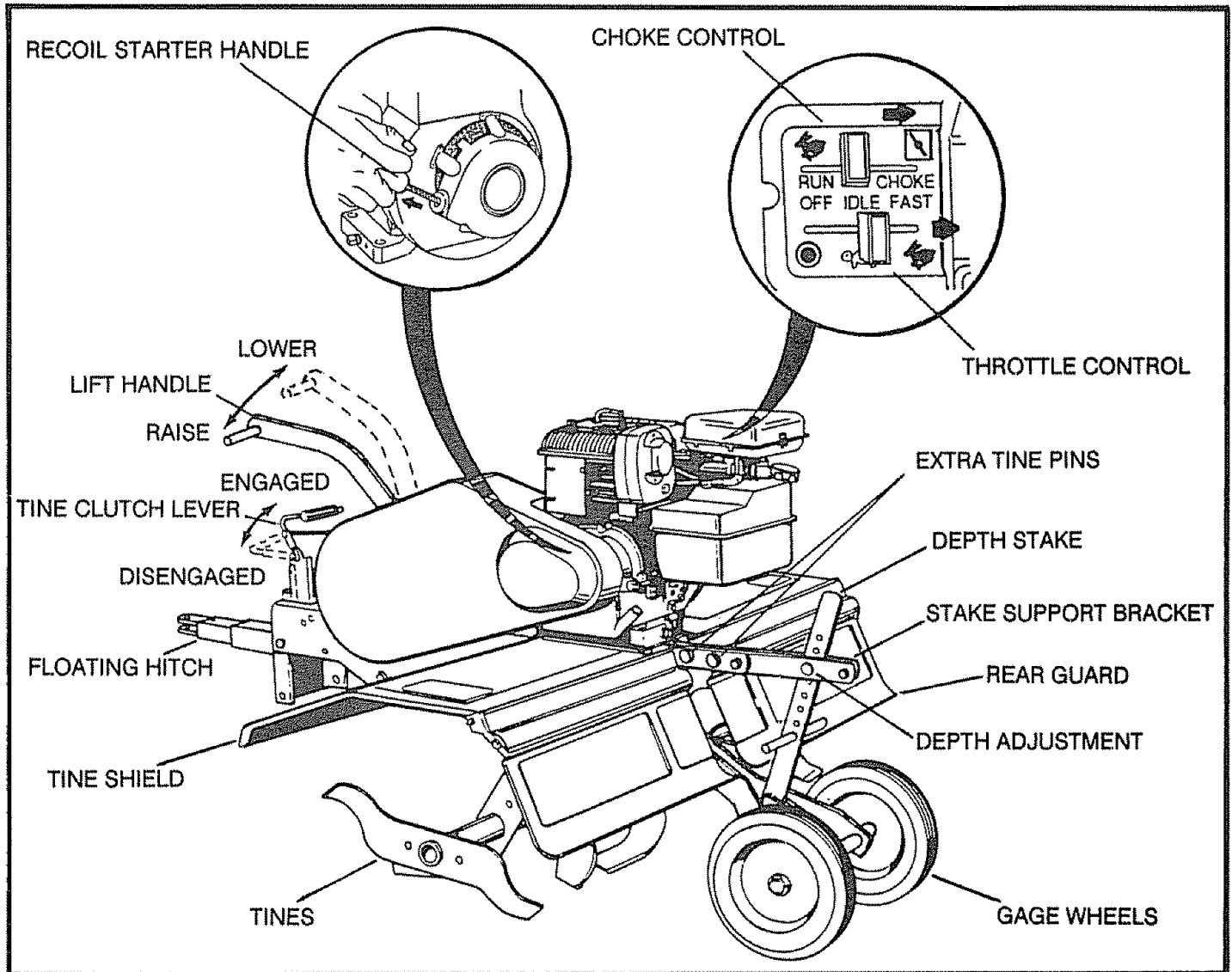
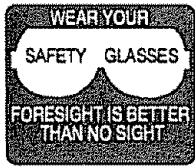


FIG. 4

TINE CLUTCH LEVER - starts and stops tine rotation  
LIFT HANDLE - selects tilling or transport position by moving gage wheels  
THROTTLE CONTROL - controls engine speed  
CHOKE CONTROL - used when starting a cold engine

FLOATING HITCH - telescoping hitch limits shock loads to tractor  
DEPTH STAKE - controls tilling/cultivating depth  
RECOIL START HANDLE - used to start the engine

# OPERATION



The operation of any tiller can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tiller and while tilling. We recommend wide vision safety mask for over the spectacles or standard safety glasses.

## HOW TO USE YOUR TILLER

### STOPPING (See Fig. 4)

#### TINES

- Raise Tiller to transport position.
- Pull forward on tine clutch lever.

#### ENGINE

- Move throttle control to "STOP" position.
- Never use choke to stop engine.

### ATTACHING TILLER TO TRACTOR (See Fig. 5)

- Rear wheel weights and tire chains can be used if additional traction is required for tilling.
- Place Tiller on ground level and back up tractor to it for assembly.
- Slide Floating Hitch of Tiller over the tractor drawbar so that the hitch pin holes line up.
- Insert hitch pin until it extends from the bottom of the Floating hitch. Insert hair cotter pin into hitch pin.

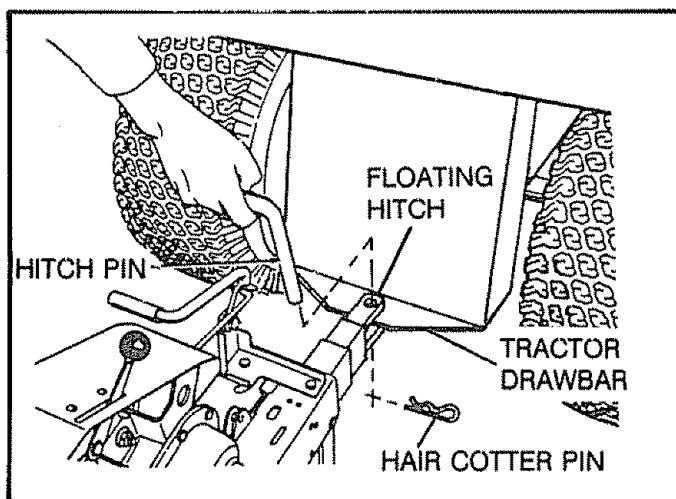


FIG. 5

## TRANSPORTING YOUR TILLER

### AROUND THE YARD

- Pull forward on lift handle until it locks in the up transport position.

### AROUND TOWN

- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in the upright position to prevent oil leakage.



**CAUTION:** Before lifting or transporting, allow tiller engine and muffler to cool. Disconnect spark plug wire. Drain gasoline from fuel tank.

## STARTING TO TILL

- Raise Tiller to transport position.
- Start Tiller engine and move throttle control to full speed.
- Push rearward on tine clutch lever to start tine rotation.
- Move Tiller lift handle to lower Tiller.
- Select lowest tractor ground speed at tractor engine idle.

## TO ADJUST DEPTH STAKE

- Depth stake has five position holes to select tilling depth from 1 to 5 inches.
- The top stake hole selects the shallowest tilling depth and the bottom stake hole selects the deepest position.
- To change depth remove the hair cotter pin from the clevis pin which is connecting the depth stake to the stake support bracket.
- Grasp the top of the depth stake, remove the clevis pin and reposition the drag stake. Insert clevis pin and hair cotter pin.

**IMPORTANT:** THE DRAG STAKE SHOULD NEVER BE REMOVED FROM THE TILLER. IT IS DESIGNED TO PROTECT THE TRACTOR TRANSAXLE FROM THRUSTING ACTION OF THE TILLER.



# OPERATION

## BEFORE STARTING ENGINE

### FILL ENGINE WITH OIL (See Fig. 6)

**IMPORTANT:** BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL. USE CLEAN SAE30 WEIGHT OIL AND STORE IN APPROVED, CLEAN, COVERED CONTAINERS. ALL OILS MUST MEET A.P.I. SERVICE CLASSIFICATION SG. USE CLEAN FILL FUNNELS.

- With engine level, remove engine oil filler plug.
- Fill engine with oil to point of overflowing. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3.
- Tilt tiller back on its wheels and then re-level.
- Check oil level. Refill to point of overflowing if necessary. Replace oil filler plug.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

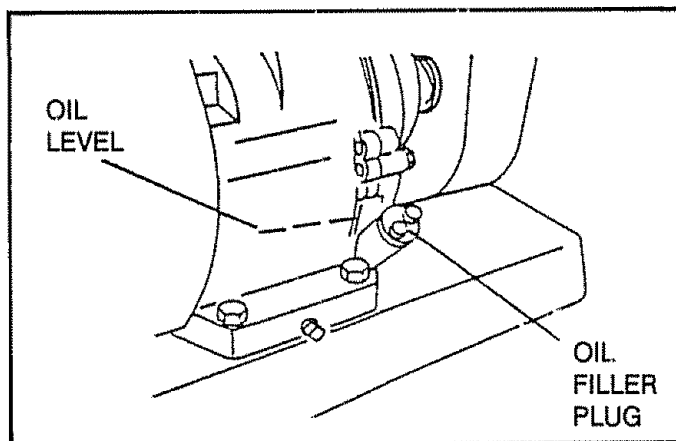


FIG. 6

### ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not use old gasoline from last season to avoid starting problems.

**WARNING:** Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage section of this manual for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



**CAUTION:** Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near open flame.

### TO START ENGINE (See Fig. 7)



**CAUTION:** Keep the tine Clutch Lever in "OFF" position when starting engine.

- Make sure spark plug wire is properly connected.
- Place throttle control in "FAST" position.
- Place choke control in "CHOKE" position if the engine is cold. A warm engine may not require choking to start.
- Grasp starter handle with one hand. Pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle and let rope rewind slowly. Do not let starter handle snap back against starter.
- When engine starts, move choke control on engine to the "RUN" position.
- Move throttle control to desired running position.
- Allow engine to warm up for a few minutes before engaging tines.

**NOTE:** If at a high altitude (above 3000 feet) or in cold temperatures (below 32 F), the carburetor fuel mixture may need to be adjusted for best engine performance. See Service and Adjustment section of this manual.

# OPERATION

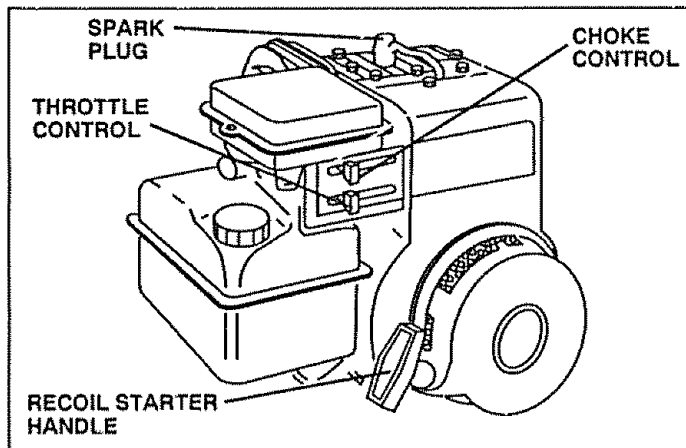


FIG. 7

## BREAKING IN YOUR TILLER

Break-in your belts, pulleys and the control before you actually begin tilling.

- Start engine, tip tines off ground by pressing handles down and engage tine control to start tine rotation. Allow tines to rotate for five minutes.
- Check tine operation and adjust if necessary. See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual.

## TILLING

- The most efficient tillage is obtained when Tiller Engine is operated at full throttle. The sound of the Tiller Engine will tell you. When Tiller Engine is lightly loaded, raise Gauge Wheels to increase tilling depth. If Engine seems to be overloaded or stalls out, lower Gauge Wheels for shallower tilling.
- Operate Tiller Engine at full throttle and operate tractor in slowest forward speed, with tractor engine at idle speed or just above idle. You will soon learn the proper combination of tilling depth and speed for good tillage.
- Soil conditions will determine how deep Tiller can penetrate on the first pass. In extremely hard ground, several passes may be necessary to till to a depth of 6 inches. While in soft ground, Tiller may penetrate to a depth of 6 inches in the first pass.

## TILLING HINTS

### IMPORTANT OPERATING HINTS

NOTE: The following is a general guideline of tilling, but may vary depending upon soil conditions.

- In virgin soil, the tiller should be started in the shallowest depth position and lowered one position at a time after each pass in each position.

- If the soil is extremely hard and dry, it may be desirable to cross till an area at shallow depth first, then till in the direction of planting rows on the second pass at the final depth.
- Where possible, we recommend tilling in a pattern similar to that shown in Fig. 8. Make the first pass, then skip a space equal to the width of the tiller, and make the return pass. Then till the skipped area. Tilling in this pattern will enable you to maintain better control. If the passes were made side-by-side, the tractor and tiller would tend to pull toward the tilled (soft) side.
- Check ground moisture: If you can make a ball in your hand out of ground to be tilled, do not till soil if too wet. This causes lumps which are difficult to work up.
- When operating for the first time, proceed slowly and carefully until you become familiar with the proper method of operating the tiller.
- In soil that has tilled the year before, select the tilling depth at which the tiller engine runs comfortably and does not stall or pull down. Lower depth for additional passes if greater depth is desired.
- Whenever working multiple passes, go perpendicular to the previous tilling direction.
- In cases where the soil is too hard to get proper penetration or if tilling action causes Tiller to hop or bounce, it will be necessary to purchase a set of Tiller (Wheel) Weights.

## CULTIVATING

- Your tiller may be used for cultivating which required a minimum of two (2) inches of soil penetration.
- Set depth stake so the Tiller will penetrate soil to a depth of 2 to 3 inches. The Tiller Engine should be run at full throttle except when cultivating small plants. A slower engine is necessary to prevent burying the plants.

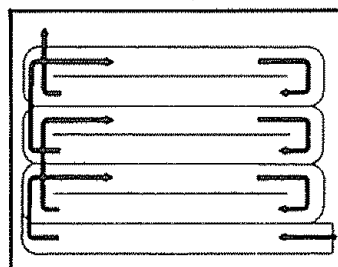


FIG. 8

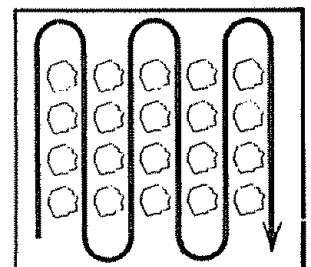


FIG. 9

# CUSTOMER RESPONSIBILITIES

## GENERAL RECOMMENDATIONS

The warranty on this Vehicle does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain unit as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your unit.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year you should replace the spark plug, clean or replace air filter, and check tires and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

## BEFORE EACH USE

- Check engine oil level.
- Check tine operation.
- Check for loose fasteners.

## LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

MAINTENANCE SCHEDULE	SERVICE DATES																					
	BEFORE EACH USE	FIRST 2 HOURS	EVERY 5 HOURS	EVERY 25 HOURS OR EACH YEAR																		
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE																						
Check Engine Oil Level	✓		✓																			
Change Engine Oil		✓		✓ <sup>1,2</sup>																		
Inspect Spark Arrester Muffler				✓																		
Inspect Air Screen	✓																					
Check and Clean Air Cleaner			✓																			
Replace Air Cleaner Cartridge				✓ <sup>2</sup>																		
Clean Engine Cylinder Fins				✓																		
Replace Spark Plug				✓																		
Lubricate Tiller				✓																		
Chaincase Lubrication				✓																		

1 - Change more often when operating under a heavy load or in high ambient temperatures.

2 - Service more often when operating in dirty or dusty conditions.

- ① REFER TO CUSTOMER RESPONSIBILITIES "ENGINE SECTION."
- ② REFER TO CUSTOMER RESPONSIBILITIES "TILLER LUBRICATION SECTION."
- ③ GENERAL PURPOSE GREASE

**IMPORTANT:** DO NOT OIL OR GREASE PIVOT POINTS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT CAN CAUSE WEAR ON PIVOT POINTS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY POWERED GRAPHITE TYPE LUBRICANTS.

## LUBRICATION CHART

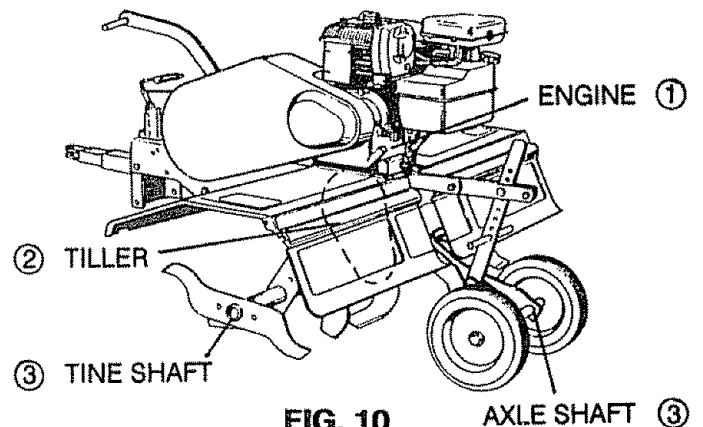


FIG. 10

AXLE SHAFT ③

# CUSTOMER RESPONSIBILITIES



Disconnect spark plug wire before performing any maintenance (except carburetor adjustment) to prevent accidental starting of engine.

Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt and debris.

Do not touch hot muffler or cylinder fins as contact may cause burns.

## ENGINE LUBRICATION

Change the oil after the first two hours of operation and every 25 hours thereafter or at least once a year if the tiller is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE30 motor oil or equivalent. Tighten oil filler plug securely each time you check the oil level. SAE 5W-30 motor oil may be used to make starting easier in areas where temperature is consistently 30 F or lower.

TO CHANGE ENGINE OIL (See Figs. 11 and 12)

Only use high quality oil rated with API service classification SG. Select the oil's SAE viscosity grade according to your expected operating temperature.

- Be sure tiller is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove drain plug.
- Tip tiller forward to drain oil.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Remove oil filler plug. Be careful not to allow dirt to enter the engine.
- Refill engine with oil. See "FILL ENGINE WITH OIL" in Operation section of this manual.

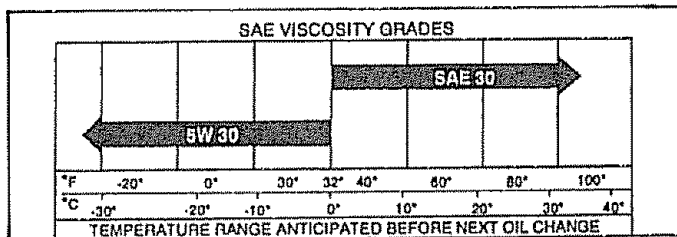


FIG. 11

**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

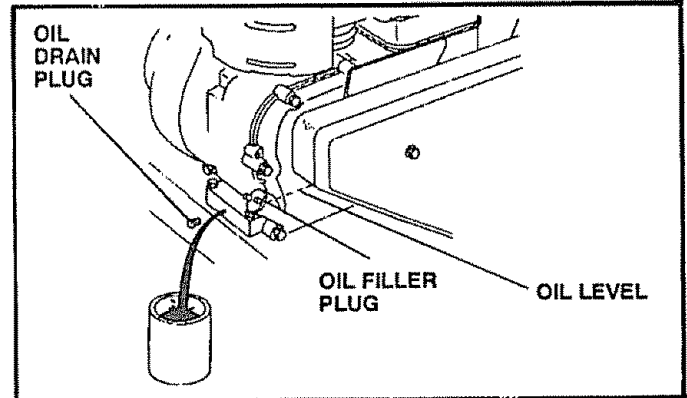


FIG. 12

## CHECK AND CLEAN AIR FILTER (See Fig. 13)

- Loosen two screws and remove cover.
- Carefully remove pre-cleaner and wash in liquid detergent and water.
- Squeeze dry in a clean cloth.
- Saturate in engine oil. Squeeze in clean absorbent cloth to remove all excess oil.
- Carefully remove cartridge.
- Clean by tapping gently on flat surface.
- If very dirty, replace or wash in nonsudsing detergent and warm water solution. Rinse thoroughly with water flowing from mesh side until water is clear. Allow cartridge to stand and air dry thoroughly before using.
- Reinstall cartridge and pre-cleaner.
- Reinstall air cleaner cover and tighten two screw.

## REPLACE AIR CLEANER (See Fig. 13)

Replace air cleaner cartridge and pre-cleaner every twenty five hours, more often if engine is used in very dusty conditions.

- Loosen two screws and remove cover.
- Carefully remove air cleaner cartridge and pre-cleaner. Be careful! Do not allow dirt or debris to fall into carburetor.
- Install new air cleaner cartridge and pre-cleaner.
- Clean and replace cover, tighten two screw.

# CUSTOMER RESPONSIBILITIES

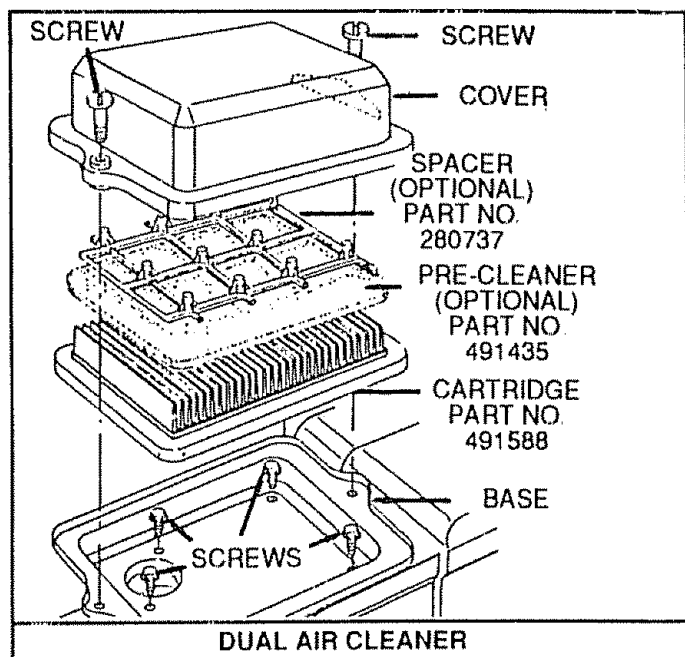


FIG. 13

## COOLING SYSTEM (See Fig. 14)

Your engine is air cooled. For proper engine performance and long life keep your engine clean.

- Clean air screen frequently using a stiff-bristled brush.
- Remove blower housing and clean as necessary.
- Keep cylinder fins free of dirt and chaff.

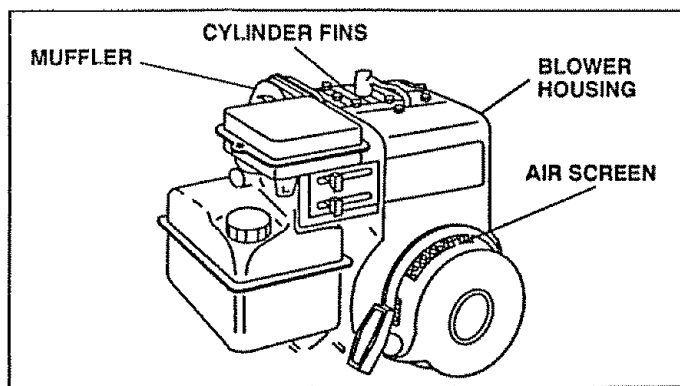


FIG. 14

## SPARK PLUG

Replace spark plugs at the beginning of each tilling season or after every 50 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

## CLEANING

- Clean engine, wheels, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

## MUFFLER

Do not operate tiller without muffler. Do not tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

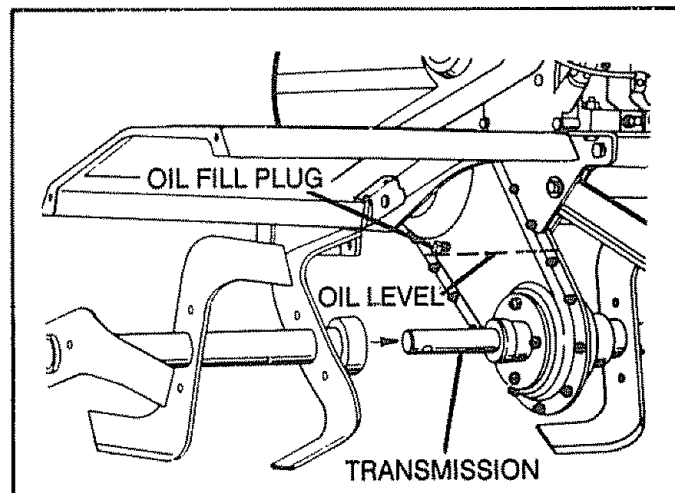


FIG. 15

## TILLER LUBRICATION

Check transmission oil level after first 5 hours of operation. Remove Oil Fill Plug (Fig. 15). Oil Level must be even with the Plug Hole (with Tiller level). If necessary, add Oil. Use SAE30 Non-Detergent Motor Oil. Replace Oil Fill Plug.

Check transmission oil level after each 10 hours of operation.

**NOTE:** It is not necessary to change the Oil in this Tiller Transmission. If for any reason it must be changed, Oil capacity is 22 oz.

# SERVICE AND ADJUSTMENTS

## TO REPLACE V-BELT

Replace V-belt if it has been damaged from slipping under heavy loads considerably or if it shows cracks or frayed edges.

Belt guard must be removed to service belt.

- Remove the screw from the top of the belt guard.
- Remove hex nut from front of guard.
- Remove belt guard to allow access of drive belt.
- Remove belt guide from engine.
- Disengage tine drive control and remove belt.
- Reverse the above procedures for installation of new belt.

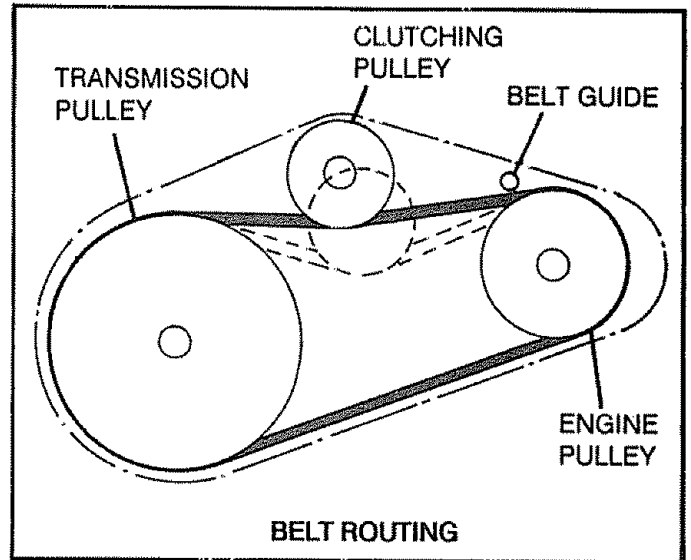


FIG. 17

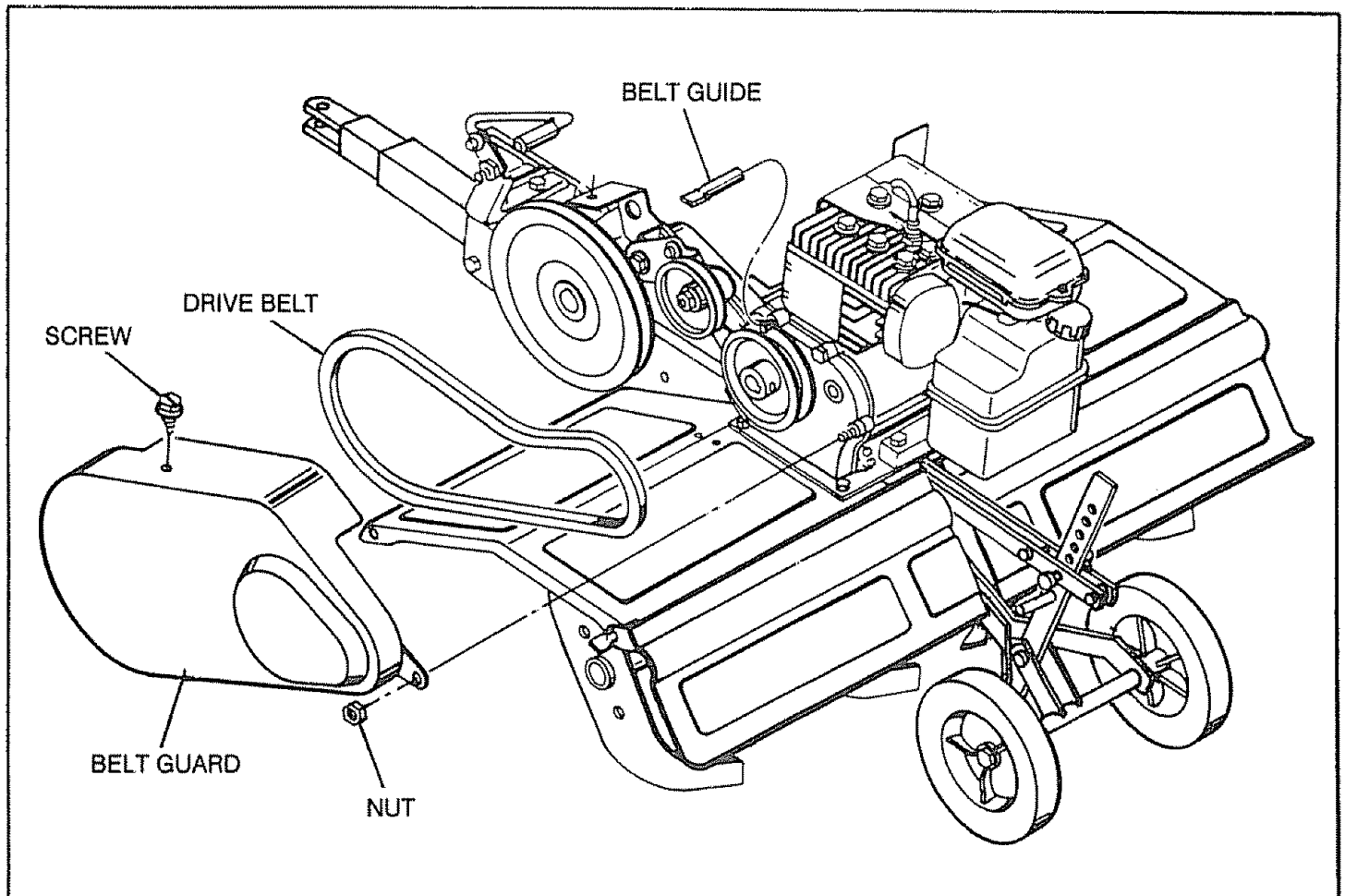


FIG. 16

# SERVICE AND ADJUSTMENTS

## ENGINE

### TO ADJUST CARBURETOR (See Fig. 18)

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustments may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows.

In general, turning the needle valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the needle valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

**IMPORTANT:** DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREWS ARE TURNED IN TOO TIGHT.

### PRELIMINARY SETTING

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- With engine off, turn needle valve in (clockwise) closing it finger tight and then turn valve out (counterclockwise) 1-1/2 turns.

### FINAL SETTING

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and gearshift control lever in "NEUTRAL" position.

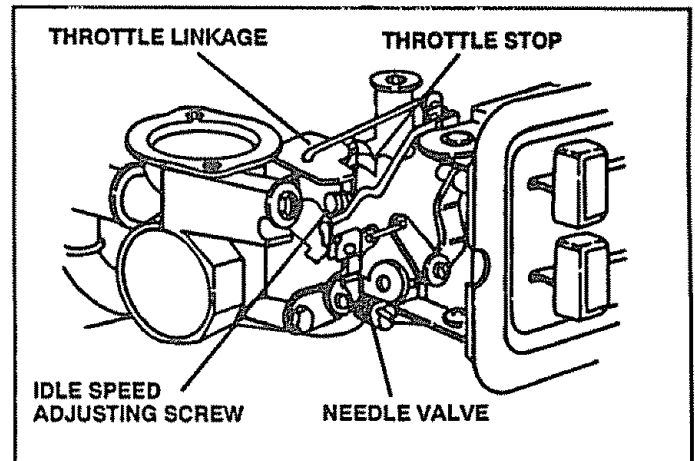
### IDLE RPM ADJUSTMENT

- To adjust idle RPM, rotate throttle linkage counterclockwise and hold against stop while adjusting idle speed adjusting screw to obtain 1750 RPM. Release throttle linkage.

### ACCELERATION TEST

- Move throttle control lever from "SLOW" to "FAST" position. If engine hesitates or dies, turn needle valve out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust or damage may result.



**FIG. 18**

**IMPORTANT:** NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVER-SPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST SEARS SERVICE CENTER WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

## TINE CARE

- For best results--Tine Blades should be kept reasonably sharp. The Tine Blade can be sharpened on a grinding wheel. Do not attempt to sharpen Tines while mounted to Tiller.

## SPARE TINE PINS

- The Tiller Drive components are protected from damage by a (Shearable) Tine Pin located in the Tine Assembly used to drive them and hold them in the proper location. Should the Tine Assembly strike or pick up a large hidden object or become jammed, the Tine Pin will break and the Drive Line will not be damaged.



**WARNING:** SHUT OFF (DISENGAGE) THE TINE CLUTCH LEVER, THE TILLER ENGINE, AND THE TRACTOR ENGINE BEFORE MAKING ANY REPAIRS.

- A number of extra Tine Pins have been included with the Tiller. They are located in the Tiller Stake Support Bracket. Additional Tine Pins can be obtained from your nearest Sears Service Center/Department.
- Tine Pins are designed to be loose fit. Do not attempt to use a Pin larger or harder than that provided as original equipment.

---

# STORAGE

---

Immediately prepare your tiller for storage at the end of the season or if the unit will not be used for 30 days or more.



**CAUTION:** Never store the tiller with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

## TILLER

- Clean entire tiller (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

## ENGINE

### FUEL SYSTEM

**IMPORTANT:** IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS THE CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

### ENGINE OIL

Drain oil (with engine warm) and replace with clean oil (See "ENGINE" in the Maintenance section of this manual).

### CYLINDERS

- Remove spark plug.
- Pour one ounce of oil through spark plug hole into cylinder.
- Pull starter handle slowly several times to distribute oil.
- Replace with new spark plug.

### OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

**IMPORTANT:** NEVER COVER TILLER WHILE ENGINE AND EXHAUST ARE STILL WARM.



# TROUBLESHOOTING

## PROBLEM:

Probable Cause —> Possible Remedy

### WILL NOT START OR HARD TO START

- |                                   |    |   |
|-----------------------------------|----|---|
| No gasoline in Fuel Tank          | —> | Fill tank with gasoline   |
| Choke not set properly            | —> | Place Choke Control in "CHOKE" position   |
| Throttle Control not set properly | —> | Place Throttle Control in "FAST" position   |
| Choked improperly, flooded Engine | —> | Move Choke control to "RUN" position, place Throttle Control in "FAST" position and pull Starter several times to clear out gas |
| Dirty Air Cleaner                 | —> | Remove to inspect, replace if dirty   |
| Loose Spark Plug Wire             | —> | Make sure Spark Plug Wire is seated properly on Spark Plug  |
| Spark Plug dirty or improper gap  | —> | Replace Spark Plug and adjust gap   |
| Water in gasoline or old fuel     | —> | Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug   |
| Improper Carburetor adjustment    | —> | Make necessary adjustments  |
| Clogged Fuel Tank                 | —> | Remove and clean  |

### ENGINE MISSES OR LACKS POWER

- |  |    |  |
|--|----|--|
| Engine overloaded                            | —> | Set Depth Stake and Wheels for shallower tilling |
| Partially plugged Air Cleaner                | —> | Remove and clean or replace                      |
| Dirty Air Screen                             | —> | Clean Air Screen                                 |
| Spark Plug dirty, improper gap or wrong type | —> | Replace Spark Plug and adjust gap                |
| Oil in gasoline                              | —> | Drain and refill gas Tank and Carburetor         |
| Improper Carburetor adjustment               | —> | Make necessary adjustments                       |
| Clogged Fuel Tank                            | —> | Remove and clean                                 |
| Poor compression                             | —> | Major Engine overhaul                            |

### ENGINE OVERHEATS

- |                                |    |   |
|--------------------------------|----|---|
| Low oil level or dirty oil     | —> | Add or change oil   |
| Dirty Air Screen               | —> | Clean Air Screen  |
| Dirty Engine                   | —> | Clean Air screen Clean Cylinder Fins, Air Screen and Muffler area |
| Partially Plugged Muffler      | —> | Remove and clean Muffler  |
| Improper Carburetor adjustment | —> | Adjust Carburetor to richer position                              |

### EXCESSIVE BOUNCE AND DIFFICULT HANDLING

- |   |    |   |
|---|----|---|
| Wheels and Depth Stake incorrectly adjusted | —> | Adjust Wheels and Depth Stake                             |
| Ground too dry and hard                     | —> | Moisten ground or wait for more favorable soil conditions |

### SOIL BALLS UP OR CLUMPS

- |                |    |   |
|----------------|----|---|
| Ground too wet | —> | Wait for more favorable soil conditions |
|----------------|----|---|

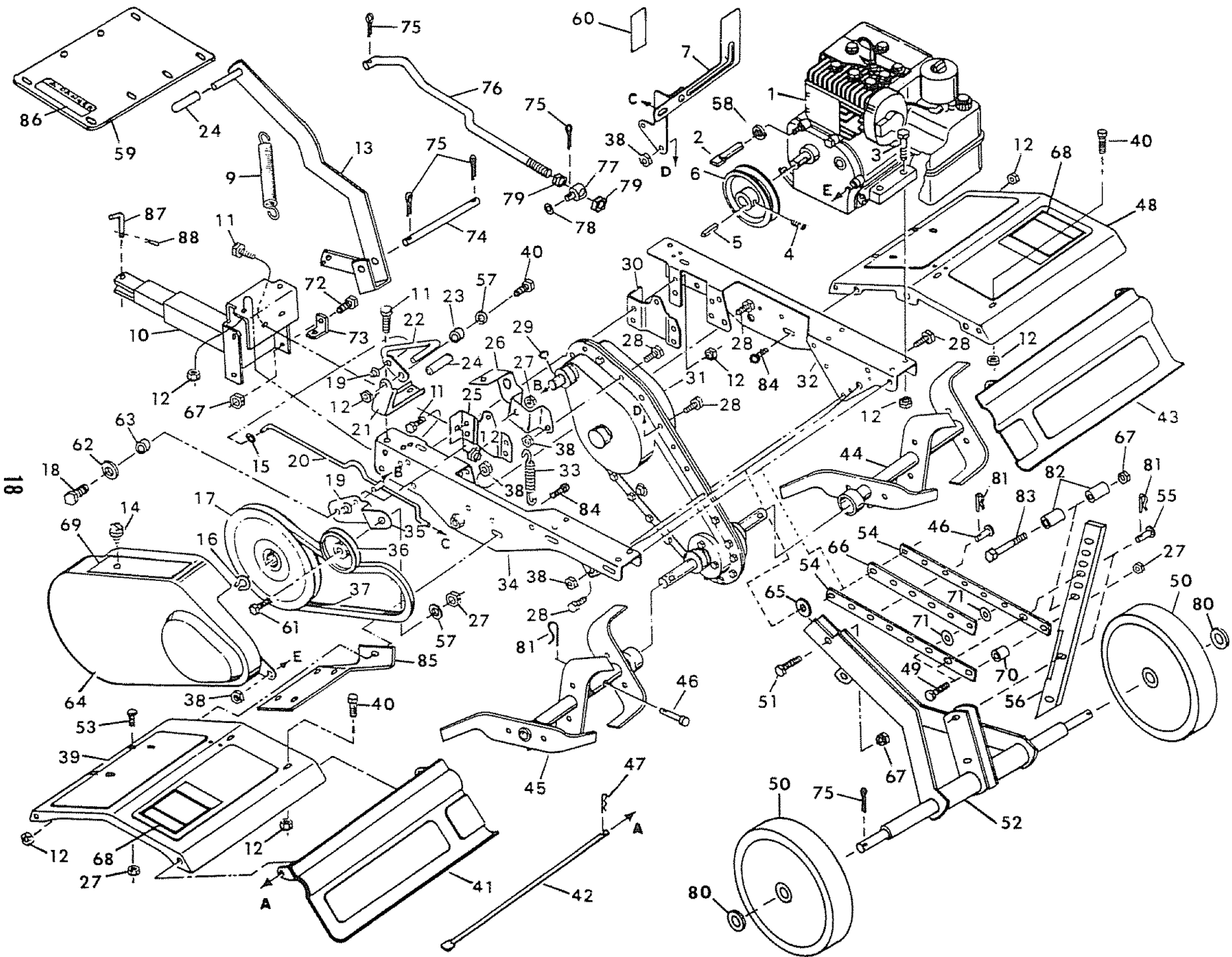
### ENGINE RUNS WELL BUT TILLER WON'T MOVE

- |                          |    |                     |
|--------------------------|----|---------------------|
| Tine Control not engaged | —> | Engage Tine Control |
| V-Belt off of pulleys    | —> | Check V-Belt        |

### ENGINE RUNS WELL BUT LABORS WHEN TILLING

- |  |    |                                |
|--|----|--------------------------------|
| Tilling too deep                       | —> | Adjust Depth Stake             |
| Throttle Control not properly adjusted | —> | Check Throttle Control setting |
| Carburetor not adjusted properly       | —> | Check Carburetor adjustment    |

**REPAIR PARTS**  
**5 HP TILLER--MODEL NUMBER 842.252440**



# REPAIR PARTS

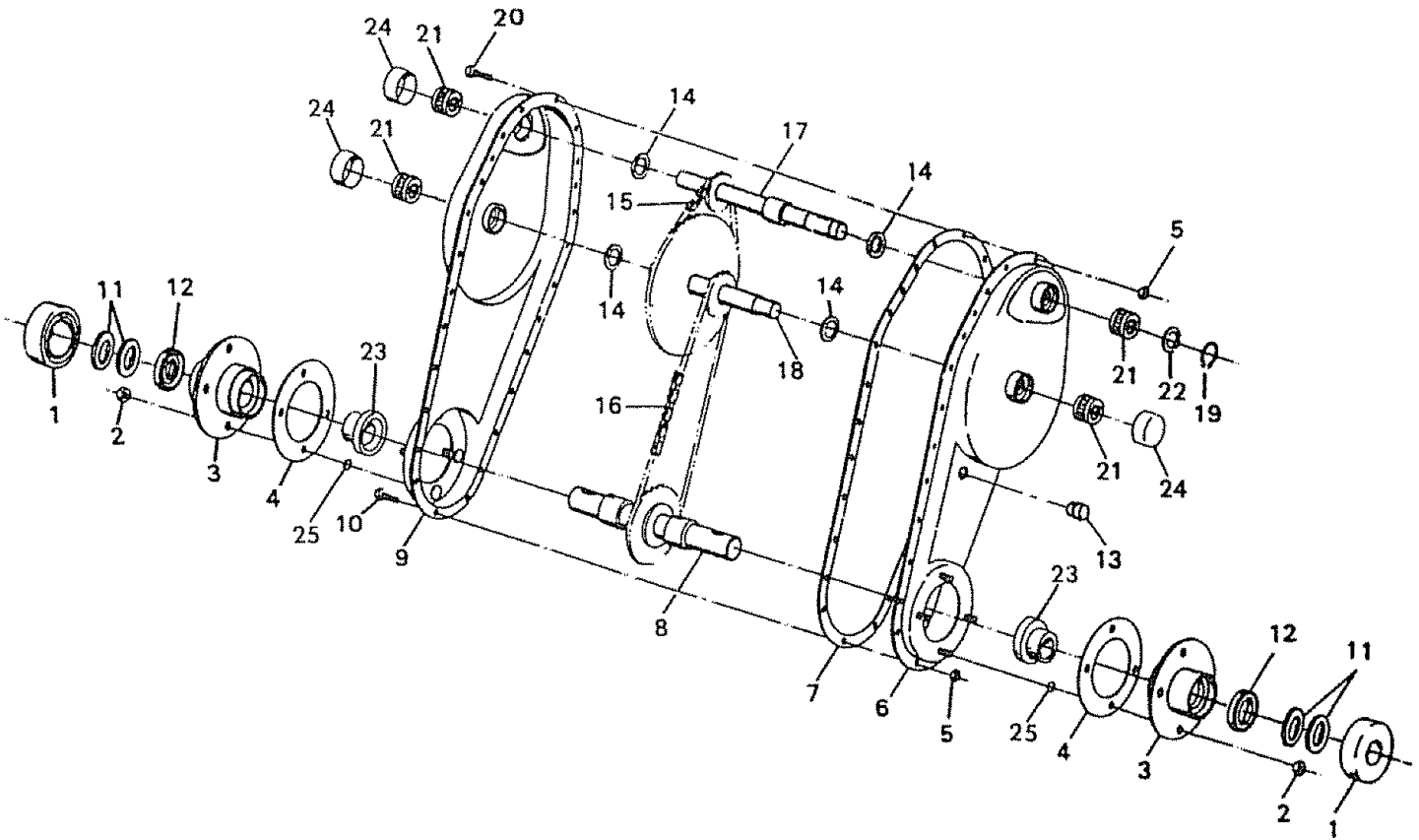
## 5 HP TILLER--MODEL NUMBER 842.252440

Ref. No.	Part Number	Description	Qty. Req.	Ref. No.	Part Number	Description	Qty. Req.
1	**	Engine	1	60	20941	Decal, Caution Flag	1
2	20295	Guide - Belt	1	61	*GM-180128	Bolt - 3/8"-16 x 1 3/4" Hex HD	1
3	*GM-180083	Bolt, 5/16"-18 x 1-1/2" Hex HD	4	62	*GM-120389	Washer - 1/2" x 1 1/4" x .083 Flat	1
4	*GM-115321	Screw, 5/16"-18 x 5/16" Cup Pt. Set	1	63	20342	Spacer	1
5	11154	Key, Square 3/16" x 2"	1	64	20704	Belt Gaurd (incl. #69)	1
6	20176	Pulley	1	65	14306	Washer	1
7	20171	Flag Assembly, Caution (incl. #60)	1	66	20691	Strap-Frame Extension Brace	1
9	19860	Spring, Depth Extension	1	67	*GM9414074	Nut - 1/2"-13 Hex Lock	3
10	20701	Hitch Bracket Assembly	1	68	20938	Decal, Danger	2
11	*GM-180079	Bolt, 5/16"-18 x 1" Hex HD	10	69	20942	Decal	1
12	*GM9413447	Locknut - 5/16" - 18 Hex	25	70	5713	Spacer	1
13	20679	Lift Handle Assembly	1	71	15200	Washer	2
14	15683	Screw, Self-Tapping 1/4" x 1/2"	1	72	*GM-180173	Bolt - 1/2"-13 x 1" Hex HD	1
15	20257	Ring - 1/4 Push On	1	73	13780	Anchor - Spring	1
16	20135	Ring, Retainer	1	74	20706	Rod - Lift Anchor	1
17	20184	Pulley, Input	1	75	*GM-120123	Pin - 1/8 x 1 1/4" Cotter	6
18	*GM-180120	Bolt - 3/8"-16 x 3/4" Hex HD	1	76	20688	Rod - Lift	1
19	20183	Cap, Push On	3	77	19649	Anchor - Adjustment	1
20	20180	Clutch Rod Assembly	1	78	*GM-120396	Washer - 17/32 x 1 1/16 x .095 Flat	1
21	20167	Bracket, Clutch Control	1	79	*GM-124934	Nut - 1/2-20 Hex Jam	2
22	20168	Lever, Clutch	1	80	*GM-456151	Washer - 13/16 x 1 1/2 x .134 Flat	2
23	20341	Spacer	1	81	20481	Pin - Hair Cotter	6
24	20170	Grip, Handle	2	82	7974	Spacer	2
25	20162	Bracket, Guide - LH	1	83	*GM-445608	Bolt-1/2-13 x 5 1/2 Hex HD	1
26	20134	Bracket, Belt Guide & Idler Mounting	1	84	*GM-126358	Bolt-5/16-18 x 1" Carriage	2
27	*GM9413534	Locknut - 3/8"-16 Hex	10	85	20932	Bracket-Wheel Weight Support	2
28	*GM-180022	Bolt, 1/4"-20 x 1" Hex HD	7	86	20940	Decal-Danger	1
29	20185	Key, Woodruff No. 61	1	87	5236	Pin-Locating	1
30	20163	Bracket, Guide - RH	1	88	3341	Pin-Hair Cotter	1
31	20119	Transmission - Complete	1	NP	20711	Manual - Owner's	1
32	20160	Chassis, Left	1				
33	20186	Spring, Extension	1				
34	20159	Chassis, Right	1				
35	20179	Bracket, Idler	1				
36	11496	Pulley, Idler	1				
37	20187	V-Belt	1				
38	4119	Nut - 1/4"-20 Hex Lock	8				
39	20936	Tine Shield Assembly - LH	1				
40	*GM-180077	Bolt, 5/16"-18 x 3/4" Hex HD	9				
41	20112	Rear Guard Assembly - LH	1				
42	20118	Connecting Pin, Rear Guard	2				
43	20113	Rear Guard Assembly - RH	1				
44	20094	Tine & Hub Assembly - RH	1				
45	20088	Tine & Hub Assembly - LH	1				
46	10070	Pin, Clevis	4				
47	3430	Hair Cotter Pin	2				
48	20935	Tine Shield Assembly - RH	1				
49	*GM-180126	Bolt, 3/8"-16 x 1 1/2" Hex HD	4				
50	20918	Wheel	2				
51	*GM-180179	Bolt - 1/2"13 x 1 3/4" Hex HD	1				
52	20670	Pivot Axle Assembly	1				
53	*GM-126227	Bolt, 3/8"-16 x 3/4" Carriage	4				
54	20725	Strap Frame Extension	2				
55	3433	Pin, Clevis	2				
56	20690	Stake, Drag	1				
57	*GM-446363	Washer	2				
58	*GM-120380	Lockwasher 1/4 Med.	1				
59	20316	Plate, Fender Support	1				

\*Standard Hardware - Purchased Locally

# REPAIR PARTS

5 HP TILLER--MODEL NUMBER 842.252440

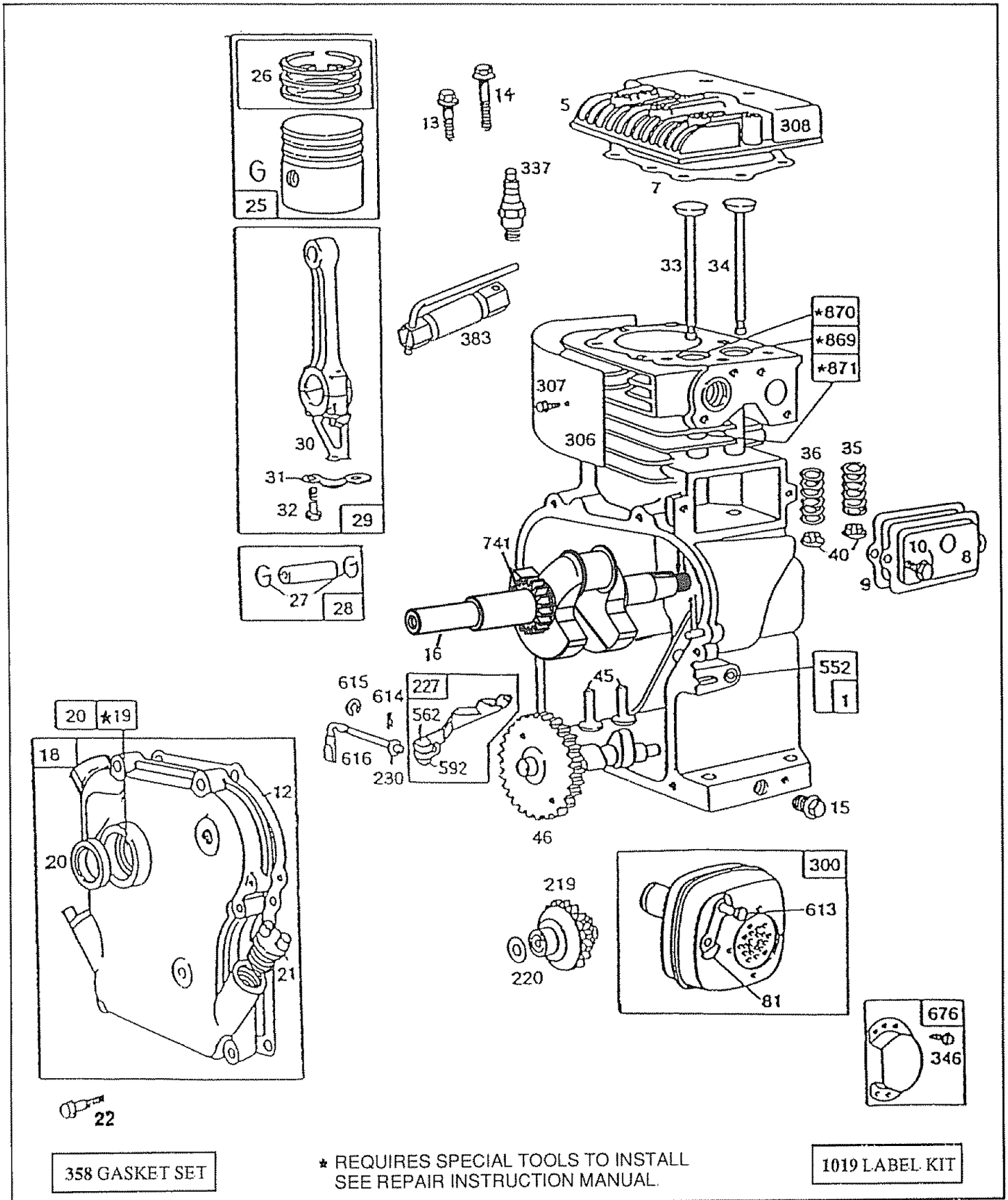


Ref. No.	Part Number	Description	Qty. Req.
1	20344	Dust Cap	2
2	*STD541431	Locknut, 5/16"-18	8
3	20123	Flange & Bearing Assy	2
4	20122	Gasket, Flange	2
5	4119	Locknut, 1/4"-20 Hex0	17
6	20120	Drive Housing & Bearing Assy - LH	1
7	20136	Gasket, Drive Housing	1
8	20127	Tine Shaft Assy	1
9	20121	Idler Pulley Assy	1
10	*GM-186676	Bolt, Hex 1/4"-20 x 5/8" Grade 8	15
11	20125	Washer, Felt	4
12	20124	Seal, Rubber	2
13	20130	Plug, Transmission Oil	1
14	20129	Washer, Thrust	4
15	20132	Chain Assembly #40	1
16	20128	Chain Assembly #40	1
17	20133	Input Shaft Assembly	1
18	20131	Idler Shaft Assembly	1
19	20135	Ring, Retainer 5/8" Dia. Shaft	2
20	*STD522512	Bolt - 1/4"-20 x 1 1/4" Hex Head	2
21	20137	Bearing	4
22	20145	Seal	1
23	20156	Bearing, Flange	2
24	20138	Cap, Bearing	3
25	22462	"O" Ring	8

\*Standard Hardware - Purchased Locally

# REPAIR PARTS

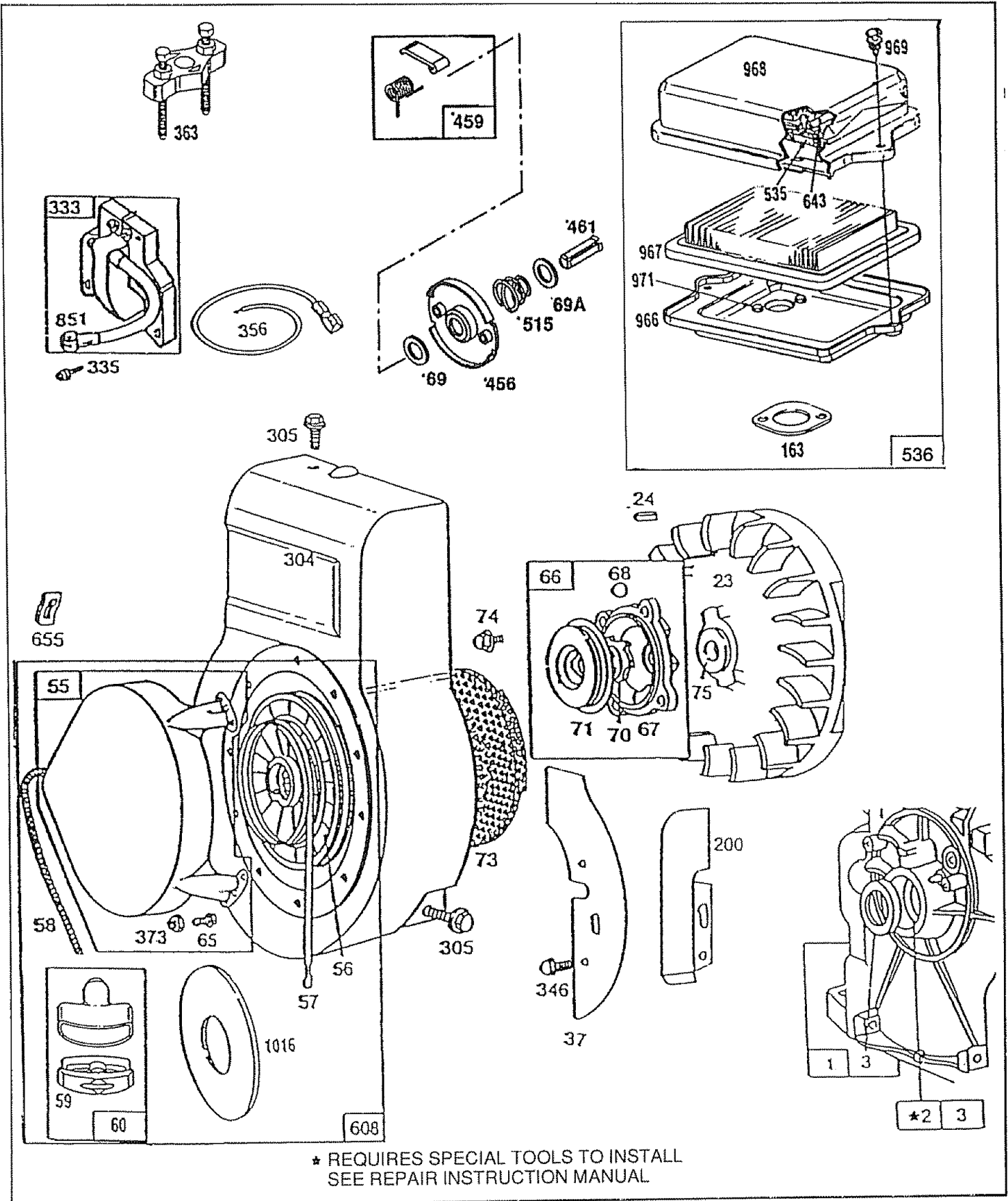
5 HP TILLER--MODEL NUMBER 842.252440 ENGINE--BRIGGS & STRATTON  
 MODEL NO.130202, TYPE NO.3286-01, & MODEL NO.135202, TYPE NO.0304-01



Assemblies include all parts shown in frames.

# REPAIR PARTS

5 HP TILLER--MODEL NUMBER 842.252440 ENGINE--BRIGGS & STRATTON  
 MODEL NO.130202, TYPE NO.3286-01, & MODEL NO.135202, TYPE NO.0304-01

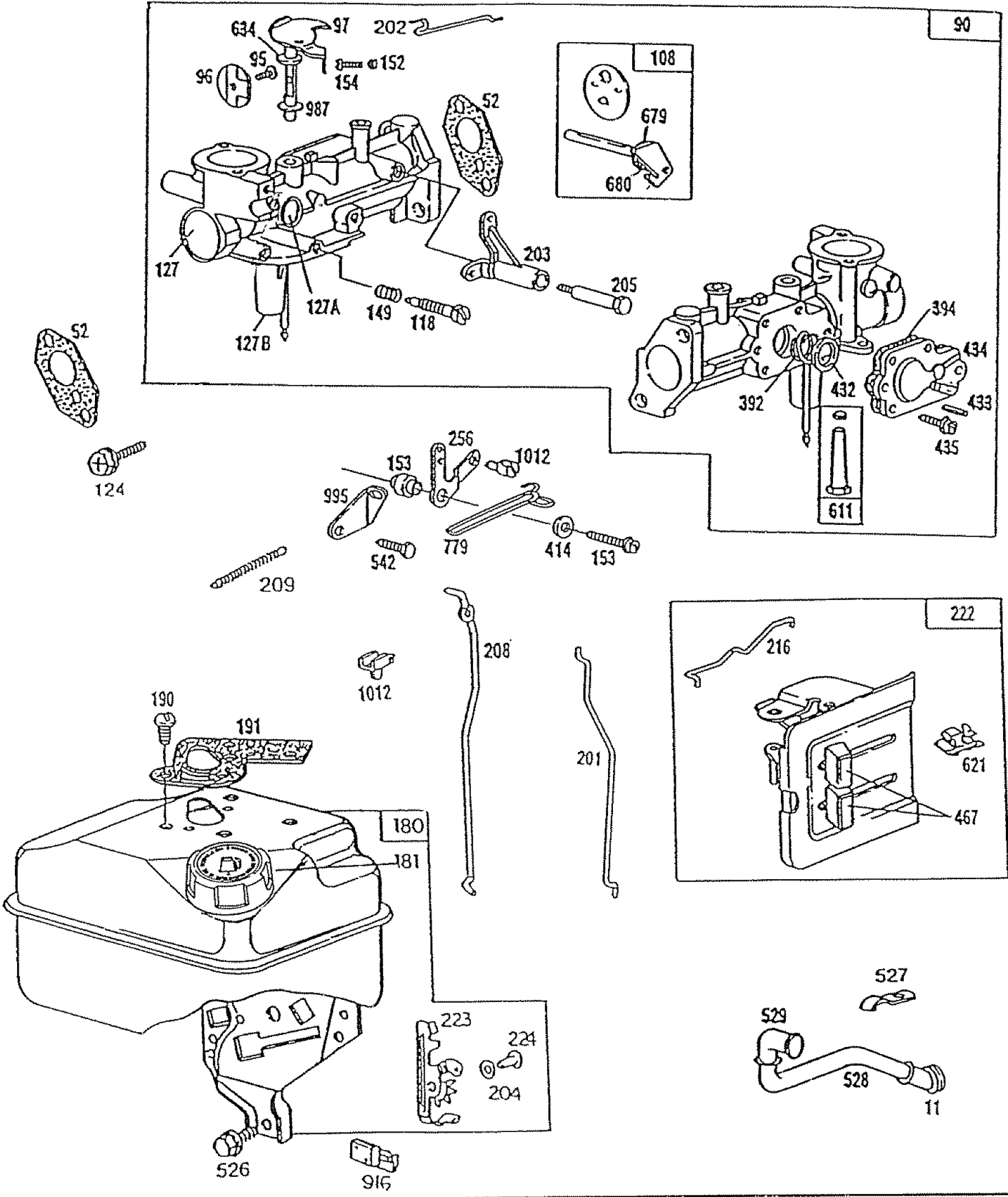


Assemblies include all parts shown in frames.

# REPAIR PARTS

5 HP TILLER--MODEL NUMBER 842.252440 ENGINE--BRIGGS & STRATTON  
MODEL NO.130202, TYPE NO.3286-01, & MODEL NO.135202, TYPE NO.0304-01

## 121 CARBURETOR OVERHAUL KIT



Assemblies include all parts shown in frames.

# REPAIR PARTS

5 HP TILLER--MODEL NUMBER 842.252440

ENGINE--BRIGGS & STRATTON, MODEL NO. 130202, TYPE NO. 3286-01

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	395990	Cylinder Assembly	26	298982	Ring Set--Piston (Standard)	74	93758	Screw--Hex. Head
2	297565	Bushing--Cylinder		298983	Ring Set--Piston (.010" O.S.)	75	224061	Washer--Spring
	<b>Note:</b>	Requires Special Tools For Installation		298984	Ring Set--Piston (.020" O.S.)	81	222263	Lock--Screw
3	299819	Seal--Oil		298985	Ring Set--Piston (.030" O.S.)	90	492611	Carburetor Assembly
5	211542	Head--Cylinder	27	26026	Lock--Piston Pin	95	93499	Screw--Throttle Valve to Shaft
7	*272157	Gasket--Cylinder Head	28	298909	Pin Assy.--Piston (Standard)	96	223793	Throttle--Carburetor
8	294178	Breather--Valve Chamber		298908	Pin Assy.--Piston (.005" O.S.)	97	490048	Shaft and Lever-- Throttle
9	*27549	Gasket--Valve Cover	29	299430	Rod Assy.--Connecting <b>Note:</b> For Connecting Rod With .020" Undersize Crankpin Bore--Order No. 390459	108	491177	Valve Group--Choke
10	94621	Screw--Breather Mtg.	30	221890	Dipper--Connecting Rod	118	231533	Valve--Needle
11	66578	Grommet--Brea. Tube	31	221876	Lock--Connecting Rod Screw	121	494624	Carburetor Overhaul Kit
12	*270080	Gasket--Crankcase (.015" Thick, Standard)	32	92296	Screw--Connecting Rod	124	93357	Screw--Hex. Head
	*270125	Gasket--Crankcase (.005" Thick)	33	211119	Valve--Exhaust	127	220352	Plug--Welch
	*270126	Gasket--Crankcase (.009" Thick)	34	261044	Valve--Intake	127A	223789	Plug--Welch (Mixing Chamber)
13	94221	Screw--Cylinder Head	35	260552	Spring--Intake Valve	149	26336	Spring--Needle Valve
14	93369	Screw--Cylinder Head	36	26478	Spring--Exhaust Valve	152	260575	Spring--Throttle Adjustment
15	94387	Plug--Pipe	37	222443	Guard--Flywheel	153	490589	Screw Assy.
16	492088	Crankshaft <b>Note:</b> To Replace Crankshaft Gear Pin, Order Part No. 230978.	40	93312	Retainer--Valve Spring	154	93527	Screw--Machine Rd. Hd.
18	297602	Cover Assy.--Crkcase.	45	260642	Tappet--Valve	163	271935	Gasket--Air Cleaner Mounting
19	297603	Bushing--Crkcase. Cover <b>Note:</b> Requires Special Tools For Installation.	46	212733	Gear--Cam	180	492927	Tank Assembly--Fuel
20	294606	Seal--Oil	52	*271936	Gasket--Carb. Mtg.	181	490075	Cap--Fuel Tank
21	66768	Plug--Oil Filler	55	299431	Housing--Rewind Starter	190	94094	Screw--Fuel Tank Mounting Sem
22	93032	Screw--Crankcase Cover Mounting Sem <b>Note:</b> 94666 Stud 90832 Lockwasher	56	295871	Pulley--Rewind Starter (Includes 63" Long Rope)	191	*272410	Gasket--Fuel Tank Mounting
23	297229	Flywheel--Magneto	57	490179	Spring--Rewind Starter	200	223886	Guide--Air
24	222698	Key--Flywheel	58	66884	Rope--Rewind Starter (63" Long)	201	262280	Link--Governor
25	298904	Piston Assy. (Standard)	59	490653	Insert--Starter Handle	202	262270	Link--Throttle
	298905	Piston Assy. (.010" O.S.)	60	490652	Handle--Rewind Starter	203	280720	Crank--Bell
	298906	Piston Assy. (.020" O.S.)	65	94128	Screw--Stamped Steel Housing Mtg. Sem	204	222962	Bushing--Gov. Lever
	298907	Piston Assy. (.030" O.S.)	66	399671	Clutch Assy.-- Rewind Starter	205	231520	Screw--Shoulder
			67	394897	Housing--Starter Clutch	208	262279	Rod--Control
			68	63770	Ball--Clutch	209	262282	Spring--Governor
			70	298799	Ratchet--Rewind Starter	216	262359	Link--Choke
			71	394506	Washer--Clutch Retainer	219	494845	Gear--Governor
			73	221923	Screen--Starter Pulley	220	221551	Washer--Thrust
						222	490649	Bracket--Control
						223	223455	Lever--Gov. Control
						224	93491	Rivet--Governor Control Lever Mounting
						227	490374	Lever Assy.--Governor
						230	222450	Washer--Gov. Lever
						256	223813	Crank--Bell
						300	393615	Muffler--Exhaust
						304	490169	Housing--Blower

**PISTON RING SETS:**

**Note:** For Chrome Piston  
Ring Set (Standard  
Size) Order Part No  
299742.

\* Included in Gasket Set--  
Part No. 397145.

• Included in Carburetor Overhaul Kit--  
Part No. 494624.



# REPAIR PARTS

## 5 HP TILLER--MODEL NUMBER 842.252440

### ENGINE--BRIGGS & STRATTON, MODEL NO. 130202, TYPE NO. 3286-01

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
305	93158	Screw--Blower Housing Mounting	529	67838	Grommet--Breather Tube	680	221839	Washer Choke Shaft (Brass)
306	221511	Shield--Cylinder	535	491435	Element--Air Cleaner	741	261696	Gear--Timing
307	93490	Screw--Cylinder Shield Mounting Sem	536	494279	Air Cleaner Kit	779	262276	Link--Control
308	221512	Cover--Cylinder Head	542	93572	Screw	851	221798	Cable Terminal--Ignition
333	397358	Armature Assembly	552	231079	Bushing--Governor Crank (1/4" I.D.)	869	211787	Seat--Intake Valve (Standard)
335	93414	Screw--ArmatureMtg.	562	92613	Bolt--Governor Lever	870	211172	Seat--Exhaust Valve (Standard)
337	492167	Plug--Spark	592	231082	Nut--Hex.			<b>Note: For Options See Repair Manual.</b>
346	93705	Screw--Sem	608	390463	Starter Assy.--Rewind	871	262001	Guide--Exhaust Valve
356	398808	Wire--Ground	611	391813	Fuel Pipe and Clip Assembly			<b>Note: 63709 Guide--Intake Valve</b>
358	397145	Gasket Set	613	93935	Screw--Hex. Hd. Shoulder			<b>See Repair Instruction Manual.</b>
363	19069	Flywheel Puller	614	93306	Pin--Cotter	916	280321	Gear Rack--Governor
373	92987	Nut--Hex.	615	93307	Retainer--E-Ring	966	490074	Base--Air Cleaner
383	89838	Wrench--Spark Plug	616	231077	Crank--Governor	967	491588	Filter--Air
392	262328	Spring--Fuel Pump Diaphragm	621	396847	Switch--Stop	968	223765	Cover--Air Cleaner
394	•270026	Diaphragm	634	271853	Washer--Throttle Shaft (Foam)	969	490073	Screw--Cover Mtg. (Includes Grommet)
414	220982	Washer	643	280737	Retainer--Foam Element	971	94018	Screw--Air Cleaner
432	221377	Cap--Spring	655	222598	Insert--Spring Anchor	987	398970	Seal--Throttle Shaft
433	93265	Pin--Diaphragm Cover	676	393757	Deflector--Exhaust (Side Outlet)	995	223887	Bracket--Link
434	210959	Cover--Diaphragm	679	270382	Washer Choke Shaft (Foam)	1012	490507	Link--Retainer
435	93141	Screw--Diaph. Cover				1016	490817	Spacer
467	280715	Knob--Control				1019	491100	Label Kit
526	94409	Screw--Tank Bracket Mounting Sem						
527	223786	Clamp--Breather Tube						
528	231550	Tube--Breather						

**Note: The following part is required by local law in some locations.**

399541 Spark Arrestor Assembly

\* Included in Gasket Set--Part No. 397145.

• Included in Carburetor Overhaul Kit--Part No. 494624.

# REPAIR PARTS

**5 HP TILLER--MODEL NUMBER 842.252440  
ENGINE--BRIGGS & STRATTON, MODEL NO.135202, TYPE NO. 0304-01**

REF. PART NO. NO.	DESCRIPTION	REF. PART NO. NO.	DESCRIPTION	REF. PART NO. NO.	DESCRIPTION	
1	385990 Cylinder Assembly	26	298982 Ring Set-Piston (Standard)	81	222263 Lock-Screw	
2	297565 Bushing-Cylinder		298983 Ring Set-Piston (.010" O.S.)	90	495426 Carburetor Assembly	
	Note: Requires Special Tools For Installation		298984 Ring Set-Piston (0.20" O.S.)	95	93499 Screw-Throttle Valve to Shaft	
3	299819 Seal-Oil		298985 Ring Set-Piston (.030" O.S.)	96	223793 Throttle-Carburetor	
5	214040 Head-Cylinder		27	26026 Lock-Piston Pin	97	490048 Shaft and Lever-Throttle
7	*272157 Gasket-Cylinder Head		28	298909 Pin Assembly-Piston (Standard)	108	491177 Valve Group-Choke
8	294178 Breather-Valve Chamber		298908 Pin Assembly-Piston (.005" O.S.)	118	231533 Valve-Needle	
9	*27549 Gasket-Valve Cover		29	299430 Rod Assy.-Connecting For Connecting Rod With .020" Undersize Crankpin Bore-Order No 390459	121	495606 Carburetor Overhaul Kit
10	94621 Screw-Breather Mtg.			124	94616 Screw-Hex Head	
11	66578 Grommet-Breather Tube			127	220352 Plug-Welch	
12	*270080 Gasket-Crankcase (.015" Thick Standard)			127A	223789 Plug-Welch (Mixing Chamber)	
	*270125 Gasket-Crankcase (.005" Thick)			149	26336 Spring-Needle Valve	
	*270126 Gasket-Crankcase (.009" Thick)			152	260575 Spring-Throttle Adjustment	
13	94221 Screw-Cylinder Head	30	221890 Dipper-Connecting Rod	153	490589 Screw Assembly	
14	94679 Screw-Cylinder Head			154	93527 Screw-Machine Round Head	
15	94387 Plug-Pipe			163	271935 Gasket-Air Cleaner Mounting	
16	492088 Crankshaft			180	495405 Tank Assembly-Fuel	
	Note: To Replace Crankshaft Gear Pin, Order Part No. 230978	32	94745 Screw-Connecting Rod	181	490075 Cap-Fuel Tank	
18	494044 Cover Assy.-Crankcase	33	211119 Valve-Exhaust	187	231068 Pipe-Fuel	
19	495660 Bushing-Crkcase Cover	34	261044 Valve-Intake	190	94712 Screw-Fuel Tank Mounting Sem	
	Note: Requires Special Tools For Installation	35	260552 Spring-Intake Valve	190A	94677 Screw	
20	294606 Seal-Oil	36	26478 Spring-Exhaust Valve	191	*272489 Gasket-Fuel Tank Mounting	
21	66768 Plug-Oil Filler	37	222443 Guard-Flywheel	200	223886 Guide-Air	
22	94682 Screw-Crankcase Cover Mounting Sem	40	93312 Retainer-Valve Spring	201	262280 Link-Governor	
	Note: 94666 Stud	45	260642 Tappet-Valve	202	262270 Link-Throttle	
23	297229 Flywheel-Magneto	46	212733 Gear-Cam	203	280720 Crank-Bell	
24	222698 Key-Flywheel	52	*271936 Gasket-Carburetor Mtg	204	222962 Bushing-Gov. Lever	
25	298904 Piston Assembly (Standard)	55	494846 Housing-Rewind Starter	205	231520 Screw-Shoulder	
	298905 Piston Assembly (.010" O.S.)	56	493824 Pulley-Rewind Starter (Includes 63" Long Rope)	208	262279 Rod-Control	
	298906 Piston Assembly (.020" O.S.)	57	262594 Spring-Rewind Starter	209	262282 Spring-Governor	
	298907 Piston Assembly (.030" O.S.)	58	280406 Rope-Rewind Starter (63" Long)	216	262359 Link-Choke	
	PISTON RING SETS:	59	396892 Insert-Starter Handle	219	494845 Gear-Governor	
	Note: For Chrome Piston Ring Set (Standard Size) Order Part No. 299742	60	393152 Handle-Rewind Starter	220	221551 Washer-Thrust	
		65	94686 Screw-Stamped Steel Housing Mtg. Sem	222	490649 Bracket-Control	
		69	280973 Washer	223	223455 Lever-Gov. Control	
		69A	224322 Washer	224	93491 Rivet-Governor Control Lever Mounting	
		73	221923 Screen-Starter Pulley	227	490374 Lever Assy.-Governor	
				230	222450 Washer-Gov. Lever	
				256	223813 Crank-Bell	
				300	393615 Muffler-Exhaust	
				304	495759 Housing-Blower	

\* Included in Gasket Set- Part No. 495603.

● Included in Carburetor Overhaul Kit- Part No. 495606

# REPAIR PARTS

## 5HP TILLER--MODEL NUMBER 842.252440 ENGINE--BRIGGS & STRATTON, MODEL NO. 135202, TYPE NO. 0304-01

REF. PART NO. NO.	DESCRIPTION	REF. PART NO. NO.	DESCRIPTION	REF. PART NO. NO.	DESCRIPTION	
305 94619	Screw-Blower Housing Mounting	529 67838	Grommet-Breather Tube	680 221839	Washer Choke Shaft (Brass)	
306 221511	Shield-Cylinder	535 491435	Element-Air Cleaner	741 261696	Gear-Timing	
307 93490	Screw-Cylinder Shield Mounting Sem	536 494279	Air Cleaner Kit	779 262570	Link-Control	
308 224738	Cover-Cylinder Head	542 93572	Screw	851 221798	Cable Terminal-Ignition	
332 92284	Nut-Flywheel	552 231079	Bushing-Governor Crank (1/4" I.D.)	869 211787	Seat-Intake Valve (Standard)	
333 397358	Armature Assembly	562 92613	Bolt-Governor Lever	870 211436	Seat-Exhaust Valve (Standard)	
335 93414	Screw-Armature Mtg	592 231082	Nut-Hex		<b>Note:</b> For Options See Repair Manual	
337 492167	Plug-Spark	608 495766	Starter Assy -Rewind		871 262001	Guide-Exhaust Valve
346 94680	Screw-Sem	611 391813	Fuel Pipe and Clip Assembly		<b>Note:</b> 63709 Guide-Intake Valve	
346A 93705	Screw-Sem	613 93935	Screw-Hex Head Shoulder		See Repair Instruction Manual	
356 398808	Wire-Ground	614 93306	Pin-Cotter		916 280321	Gear Rack-Governor
358 495603	Gasket Set	615 93307	Retainer-E-Ring		966 492797	Base-Air Cleaner
363 19069	Flywheel Puller	616 231077	Crank-Governor		967 491588	Filter-Air
373 92987	Nut-Hex	621 396847	Switch-Stop		968 495357	Cover-Air Cleaner
383 89838	Wrench-Spark Plug	634 271853	Washer-Throttle Shaft (Foam)		969 490073	Screw-Cover Mounting (Includes Grommet)
392 262328	Spring-Fuel Pump Diaphragm				971 94018	Screw-Air Cleaner
394 272538	Diaphragm				987 398970	Seal-Throttle Shaft
414 220982	Washer				995 223887	Bracket-Link
432 221377	Cap-Spring	676 393757	Deflector-Exhaust (Side Outlet)		1012 490507	Link-Retainer
433 93265	Pin-Diaphragm Cover				1016 224278	Spacer
434 214021	Cover-Diaphragm	679 270382	Washer Choke Shaft (Foam)		1019 491102	Label Kit
435 93141	Screw-Diaph. Cover					
455 224250	Cup-Starter					
456 224321	Retainer					
459 492833	Pawl-Starter					
461 262626	Pin-Spring					
515 262625	Spring					
526 94409	Screw-Tank Bracket Mounting Sem					
527 223786	Clamp-Breather Tube					
528 231550	Tube-Breather					

**Note:** The following part is required by local law in some locations.

399541 Spark Arrestor Assembly

\* Included in Gasket Set- Part No. 495603.

• Included in Carburetor Overhaul Kit- Part No. 495606.

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# SERVICE NOTES

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# SERVICE NOTES

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**SEARS**  
**OWNER'S**  
**MANUAL**

**MODEL NO.**  
**842.252440**

**HOW TO ORDER**  
**REPAIR PARTS**

**CRAFTSMAN®**

**5.0 HORSEPOWER**  
**36 INCH TINE WIDTH**  
**VERSATILE TOW BEHIND**  
**TILLER ATTACHMENT**

Each tiller has its own model number. Each engine has its own model number.

The model number for your tiller will be found on the right hand chassis.

The model number for your engine will be found on the blower housing of the engine adjacent to the spark plug.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT - TOW BEHIND TILLER
- MODEL NUMBER - 842-252440
- ENGINE MODEL NUMBER - 135202  
TYPE 0304-01
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians..... professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.

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