

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

SAFETY RULES





Safe Operation Practices for Walk-Behind Powered Rotary Tillers

TRAINING

- Read the Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
- Disengage all clutches and shift into neutral before starting the engine (motor).
- Do not operate the equipment without wearing adequate outer garments. Wear footwear that will improve footing on slippery surfaces.
- Handle fuel with care; it is highly flammable.
- Use an approved fuel container.
- Never add fuel to a running engine or hot engine.
- Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
- Replace gasoline cap securely and clean up spilled fuel before restarting.
- Use extension cords and receptacles as specified by the manufacturer for all units with electric drive motors or electric starting motors.
- Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by manufacturer).

OPERATION

- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, thoroughly inspect the tiller for any damage, and repair the damage before restarting and operating the tiller.
- Exercise caution to avoid slipping or falling.
- If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine (motor) when leaving the operating position.
- Take all possible precautions when leaving the machine unattended. Disengage the tines, shift into neutral, and stop the engine.
- Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting. Disconnect the cord on electric motors.
- Do not run the engine indoors; exhaust fumes are dangerous.
- Never operate the tiller without proper guards, plates, or other safety protective devices in place.

- Keep children and pets away.
- Do not overload the machine capacity by attempting to till too deep at too fast a rate.
- Never operate the machine at high speeds on slippery surfaces. Look behind and use care when backing.
- Never allow bystanders near the unit.
- Use only attachments and accessories approved by the manufacturer of the tiller (such as wheel weights, counterweights, cabs, and the like).
- Never operate the tiller without good visibility or light.
- Be careful when tilling in hard ground. The tines may catch in the ground and propel the tiller forward. If this occurs, let go of the handlebars and do not restrain the machine.

MAINTENANCE AND STORAGE

- Keep machine, attachments, and accessories in safe working condition.
- Check shear pins, engine mounting bolts, and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition
- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
- Always refer to the operator's guide instructions for important details if the tiller is to be stored for an extended period.

- IMPORTANT -

CAUTIONS, IMPORTANTS, AND NOTES ARE A MEANS OF ATTRACTING ATTENTION TO IMPORTANT OR CRITICAL INFORMATION IN THIS MANUAL.

IMPORTANT: USED TO ALERT YOU THAT THERE IS A POSSIBILITY OF DAMAGING THIS EQUIPMENT.

NOTE: Gives essential information that will aid you to better understand, incorporate, or execute a particular set of instructions.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

A WARNING A

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. **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 authorized Sears Service Center/Department. They have competent, welltrained 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 917.295852

SERIAL NUMBER

DATE OF PURCHASE

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE TOP OF THE TRANSMISSION.

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

PRODUCT SPECIFICATIONS

HORSEPOWER:	5.0 HP
DISPLACEMENT:	9.03 cu. in. (148cc)
GASOLINE CAPACITY:	3 Quarts Unleaded Regular
OIL (API-SF/SG) : (CAPACITY: 20 oz.)	SAE 30 (Above 32°F) SAE 5W-30 (Below 32°F)
SPARK PLUG : (GAP: .030")	Champion RJ19LM (STD361458)

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 the "Customer Responsibilities" and "Storage" sections of this Owner's Manual.

IMPORTANT: 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/DEPARTMENT FOR SPARK ARRESTER. REFER TO THE REPAIR PARTS SECTION OF THIS MANUAL FOR PART NUMBER.

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN TILLER

For two years from date of purchase, when this Craftsman Tiller is maintained, lubricated, and tuned up according to the operating and maintenance 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 rights, and you may also have other rights which vary from state to state

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

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ACCESSORIES

These accessories were available when the tiller was purchased. They are also available at most Sears Retail outlets 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 PERFORMANCE



TILLER MAINTENANCE

BELT	TINES	SHEAR PIN	HAIRPIN CLIP
	0		

ASSEMBLY

Your new tiller has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tiller all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

OPERATOR'S POSITION (See Fig. 1)

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- (1) Utility knife
- (1) Wire cutter
- (1) Screwdriver
- (1) Tire pressure gauge
- (1) Pair of pliers
- (1) 9/16" wrench

When right or left hand is mentioned in this manual, it means when you are in the operating position (standing behind tiller handles).





ASSEMBLY

UNPACKING CARTON (See Fig. 2)



CAUTION: Be careful of exposed staples when handling or disposing of cartoning material.

IMPORTANT: WHEN UNPACKING AND ASSEMBLING TILLER, BE CAREFUL NOT TO STRETCH OR KINK CABLES.

- While holding handle assembly, cut cable ties securing handle assembly to top frame and depth stake. Let handle assembly rest on tiller.
- · Remove top frame of carton.
- Slowly ease handle assembly up and place on top of carton.
- Cut down right hand front and right hand rear corners of carton, lay side carton wall down.
- Remove packing material from handle assembly.
- Separate shift rod from handle assembly.





INSTALL HANDLE (See Figs. 3, 4, and 5)

 Insert one handle lock (with teeth facing outward) in gearcase notch. (Apply grease on smooth side of handle lock to aid in keeping lock in place until handle assembly is lowered into position.)



Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.



FIG. 4

- Rotate handle assembly down. Insert rear carriage bolt first, with head of bolt on L.H. side of tiller and loosely assemble locknut. (See Fig. 5)
- Insert pivot bolt in front part of plate.
- Cut down rear panel of carton.
- Lower the handle assembly. Tighten bolts so handle moves with some resistance. This will allow for easier adjustment.
- Place flat washer on threaded end of handle lock lever.
- Insert handle lock lever through handle base and gearcase. Screw in handle lock lever just enough to hold lever in place.
- Insert second handle lock (with teeth inward) in the slot of the handle base (just inside of washer).
- With handle assembly in lowest position, securely tighten handle lock lever by rotating clockwise. Leaving handle assembly in lowest position will make it easier to remove tiller from carton.





ASSEMBLY

CONNECT SHIFT ROD (See Fig. 6)

- Insert end of shift rod farthest from bend into hole of shift lever indicator.
- Insert hairpin clip through hole of shift rod to secure.
- Insert other end of shift rod into hole in shift lever.
- Insert second hairpin clip through hole of shift rod.



FIG. 6

REMOVE TILLER FROM CRATE

- Make sure shift lever indicator is in "N" (neutral) position (See Fig. 6)
- Tilt tiller forward by lifting handle. Separate cardboard cover from leveling shield.
- Rotate tiller handle to the right and pull tiller out of carton.

INSERT CABLE CLIP (See Fig. 7)

• Insert plastic cable clip into hole on the back of handle column. Push cables into clip.



FIG. 7

CHECK TIRE PRESSURE

The tires on your unit were overinflated at the factory for shipping purposes. Correct and equal tire pressure is important for best tilling performance.

Reduce tire pressure to 20 PSI.

HANDLE HEIGHT

 Handle height may be adjusted to better suit operator. (See "TO ADJUST HANDLE HEIGHT" in the Service and Adjustments section of this manual).

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 this manual for future reference.

These symbols may appear on your Tiller or in literature supplied with the product. Learn and understand their meaning.



FIG. 8

MEETS ANSI SAFETY REQUIREMENTS

Our tillers conform to the safety standards of the American National Standards Institute.

DRIVE CONTROL BAR - Used to engage tines. DEPTH STAKE - Controls depth at which tiller will dig. LEVELING SHIELD - Levels tilled soil.

OUTER SIDE SHIELD - Adjustable to protect small plants from being buried.

THROTTLE CONTROL - Used to control engine speed.

SHIFT LEVER - Used to shift transmission gears SHIFT LEVER INDICATOR - Shows which gear the transmission is in.

RECOIL STARTER HANDLE - Used to start the engine. **CHOKE CONTROL** - Used when starting a cold engine.



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 a wide vision safety mask over the spectacles or standard safety glasses.

HOW TO USE YOUR TILLER

Know how to operate all controls before adding fuel and oil or attempting to start engine.

STOPPING (See Fig. 9)

TINES AND DRIVE

- Release drive control bar to stop movement.
- Move shift lever to "N" (neutral) position.

ENGINE

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





TINE OPERATION - WITH WHEEL DRIVE

- Always release drive control bar before moving shift lever into another position.
- Tine movement is achieved by moving shift lever to "T" (till) position and engaging drive control bar.

FORWARD-WHEELSONLY/TINESSTOPPED

 Release drive control bar and move shift lever indicator to "F" (forward) position. Engage drive control bar and tiller will move forward.

REVERSE - WHEELS ONLY/TINES STOPPED

- DO NOT STAND DIRECTLY BEHIND TILLER.
- Release the drive control bar.
- Move throttle control to "SLOW" position.
- Move shift lever indicator to "R" (reverse) position.
- Hold drive control bar against the handle to start tiller movement.

DEPTH STAKE (See Fig. 10)

The depth stake can be raised or lowered to allow you more versatile tilling and cultivating, or to more easily transport your tiller.



FIG. 10

TILLING (See Fig. 11)

- Release depth stake pin. Pull the depth stake up for increased tilling depth. Place depth stake pin in hole of depth stake to lock in position.
- Place shift lever indicator in "T" position.
- Hold the drive control bar against the handle to start tilling movement. Tines and wheels will both turn.
- Move throttle control to "FAST" position for deep tilling. To cultivate, throttle control can be set at any desired speed, depending on how fast or slow you wish to cultivate.

IMPORTANT: ALWAYS RELEASE DRIVE CONTROL BAR BEFORE MOVING SHIFT LEVER INTO ANOTHER POSITION.



FIG. 11

TURNING

- Release the drive control bar.
- Move throttle control to "SLOW" position.
- Place shift lever indicator in "F" (forward) position.
 Tines will not turn.
- Lift handle to raise tines out of ground.
- Swing the handle in the opposite direction you wish to turn, being careful to keep feet and legs away from tines.
- When you have completed your turn-around, release the drive control bar and lower handle. Place shift lever in "T" (till) position and move throttle control to desired speed. To begin tilling, hold drive control bar against the handle.

OUTER SIDE SHIELDS (See Fig. 11)

The front edges of the outer side shields are slotted so that the shields can be raised for deep tilling and lowered for shallow tilling to protect small plants from being buried. Loosen nut "A" in slot and nut "B". Move shield to desired position (both sides). Retighten nuts.

TO TRANSPORT



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

AROUND THE YARD

- Release the depth stake pin. Move the depth stake down to the top hole for transporting the tiller. Place depth stake pin in hole of depth stake to lock in position. This prevents tines from scuffing the ground.
- Place shift lever indicator in "F" (forward) position for transporting.
- Hold the drive control bar against the handle to start tiller movement. Tines will not turn.
- Move throttle control to desired speed.

AROUND TOWN

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

BEFORE STARTING ENGINE

IMPORTANT: BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL. USE CLEAN OIL AND FUEL AND STORE IN APPROVED, CLEAN, COVERED CONTAINERS. USE CLEAN FILL FUNNELS.

CHECK ENGINE OIL LEVEL (See Fig. 12)

- The engine in your unit has been shipped, from the factory, already filled with SAE 30 summer weight oil.
- With engine level, clean area around oil filler plug and remove plug.

- Engine oil should be to point of overflowing. For approximate capacity see "PRODUCT SPECIFICA-TIONS" on page 3 of this manual. All oil must meet A.P.I. Service Classification SF or SG.
- 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.





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.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F (0°C), USE FRESH, CLEAN, WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

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 within 1/2 inch of top of fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidentally spilled, move machine away from area of spill. Avoid creating any source of ignition until gasoline vapors have disappeared.

Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 17)



CAUTION: Keep drive control bar in "DISENGAGED" position when starting engine.

When starting engine for the first time or if engine has run out of fuel, it will take extra pulls of the recoil starter to move fuel from the tank to the engine.

- Make sure spark plug wire is properly connected.
- Move shift lever indicator to "N" (neutral) position.
- Place throttle control in "FAST" position.
- With engine fully choked, grasp recoil starter handle with one hand and grasp tiller handle with other hand. Pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull recoil starter handle quickly. Do not let starter handle snap back against starter. Repeat if necessary in half choked position.
- When engine starts, slowly move choke control to "RUN" position as engine warms up.
- NOTE: A warm engine requires less choking to start.
- 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 "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

NOTE: If engine does not start, see "Troubleshooting Points".



TILLING HINTS



CAUTION: Until you are accustomed to handling your tiller, start actual field use with throttle in slow position (midway between "FAST" and "IDLE").

- Tilling is digging into, turning over, and breaking up packed soil before planting. Loose, unpacked soil helps root growth. Best tilling depth is 4" to 6". A tiller will also clear the soil of unwanted vegetation. The decomposition of this vegetable matter enriches the soil. Depending on the climate (rainfall and wind), it may be advisable to till the soil at the end of the growing season to further condition the soil.
- For easier handling of your tiller, leave about 8 inches of untilled soil between the first and second tilling passes. The third pass will be between the first and second (See Fig. 14).

- Soil conditions are important for proper tilling. Tines will not readily penetrate dry, hard soil which may contribute to excessive bounce and difficult handling of your tiller. Hard soil should be moistened before tilling; however, extremely wet soil will "ball-up" or clump during tilling. Wait until the soil is less wet in order to achieve the best results. When tilling in the fall, remove vines and long grass to prevent them from wrapping around the tine shaft and slowing your tilling operation.
- Do not lean on handle. This takes weight off the wheels and reduces traction. To get through a really tough section of sod or hard ground, apply upward pressure on handle or lower the depth stake.



FIG. 14

CULTIVATING

Cultivating is destroying the weeds between rows to prevent them from robbing nourishment and moisture from the plants. At the same time, breaking up the upper layer of soil crust will help retain moisture in the soil. Best digging depth is 1" to 3". Lower the outer side shields to protect small plants from being buried.

 Cultivate up and down the rows at a speed which will allow tines to uproot weeds and leave the ground in rough condition, promoting no further growth of weeds and grass (See Fig. 15).



FIG. 15

TINE SHEAR PINS

The tine assemblies on your tiller are secured to the tine shaft with shear pins (See "TINE REPLACEMENT" in the Service and Adjustments section of this manual).

If the tiller is unusually overloaded or jammed, the shear pins are designed to break before internal damage occurs to the transmission.

 If shear pin(s) break, replace only with those shown in the Repair Parts section of this manual.

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE			- 4877 HOL	2 3 1 5 1 5	St. 2	 3200	/						
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	100		25	E ER				SE	ERVI	CEI	DAT	ES	
Check Engine Oil Level	V		2										
Change Engine Oil		~		V1,2									
Oil Pivot Points			4										
Inspect Spark Arrester / Muffler					V								
Inspect Air Screen	V												
Clean or Replace Air Cleaner Cartridge				V2									
Clean Engine Cylinder Fins				4									
Replace Spark Plug					~								

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.

GENERAL RECOMMENDATIONS

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

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

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 tines and belts for wear. A new spark plug and clean air filter assure proper airfuel 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") .

LUBRICATION CHART



* SAE 30 OR 10W-30 MOTOR OIL

** REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

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.

14

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

ENGINE

LUBRICATION

Use only high quality detergent oil rated with API service classification SF or SG. Select the oil's SAE viscosity grade according to your expected temperature.



FIG. 16

NOTE: Although multi-viscosity oils (5W-30, 10W-30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F (0°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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 SAE 30 motor oil or equivalent. Tighten oil filler plug securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Figs. 16 and 17)

Determine temperature range expected before oil change. All oil must meet API service classification SF or SG.

- Be sure tiller is on level surface.
- Oil will drain more freely when warm.
- Use a funnel to prevent oil spill on tiller, and 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 "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.



AIR CLEANER (See Fig. 18)

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

- Loosen air cleaner screws, one on each side of cover.
- Remove air cleaner cover.
- Carefully remove air cleaner cartridge. Be careful. Do not allow dirt or debris to fall into carburetor.
- Clean by tapping gently on a flat surface.
- If very dirty or damaged, replace cartridge.
- Clean and replace cover. Tighten screws securely.





FIG. 18

COOLING SYSTEM (See Fig. 19)

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.



CUSTOMER RESPONSIBILITIES

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.

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 SPECI-FICATIONS" on page 3 of this manual.

TRANSMISSION

Your transmission is sealed and will only require lubrication if serviced.

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.

SERVICE AND ADJUSTMENTS



CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

TILLER

TO ADJUST HANDLE HEIGHT (See Fig. 20)

Select handle height best suited for your tilling conditions. Handle height will be different when tiller digs into soil.

- First loosen handle lock lever.
- Handle can be positioned at different settings between "HIGH" and "LOW" positions.
- Retighten handle lock lever securely after adjusting.



TIRE CARE



CAUTION: When mounting tires, unless beads are seated, overinflation can cause an explosion.

- Maintain 20 pounds of tire pressure. If tire pressures are not equal, tiller will pull to one side.
- Keep tires free of gasoline or oil which can damage rubber.

TO REMOVE WHEEL (See Fig. 21)

- Place blocks under transmission to keep tiller from tipping.
- Remove outer side shield by removing nuts "A" and "B".
- Remove inner side shield by removing nuts "C" and "D".
- Remove hairpin clip and clevis pin from wheel.
- Remove wheel and tire.
- Repair tire and reassemble.



SERVICE AND ADJUSTMENTS

TO REMOVE BELT GUARD (See Fig. 22)

- Remove L.H. inner and outer side shields (See "TO REMOVE WHEEL" in this section of this manual).
- Remove hairpin clip and clevis pin from left wheel. Pull wheel out from tiller about 1 inch.
- Remove two (2) cap nuts and washers from side of belt guard.
- Remove hex nut and washer from bottom of belt guard (located behind wheel).
- Pull belt guard out and away from unit.
- Replace belt guard by reversing above procedure.



FIG. 22

TO REPLACE GROUND DRIVE BELT (See Figs. 22 and 23)

- Remove belt guard. (See "TO REMOVE BELT GUARD" in this section of this manual).
- Loosen belt guides "A" and "B" and also nuts "C" and "D".
- Remove old belt by slipping from engine pulley first.
- Place new belt in groove of transmission pulley and into engine pulley. BELT MUST BE IN GROOVE ON TOP OF IDLER PULLEY. NOTE POSITION OF BELT TO GUIDES.
- Tighten belt guides "A" and "B" and nuts "C" and "D".
- · Check belt adjustment as described below.
- Replace belt guard.
- Reposition wheel and replace clevis pin and hairpin clip.
- Replace inner and outer side shields.

GROUND DRIVE BELT ADJUSTMENT (See Fig. 23)

For proper belt tension, the extension spring should have about 5/8 inch stretch when drive control bar is in "EN-GAGED" position. This tension can be attained as follows:

- Loosen cable clip screw securing the drive control cable.
- Slide cable forward for less tension and rearward for more tension until about 5/8 inch stretch is obtained while the drive control bar is engaged.
- Tighten cable clip screw securely.





SERVICE AND ADJUSTMENTS

TINE REPLACEMENT (See Figs. 24, 25 and 26)



CAUTION: Tines are sharp. Wear gloves or other protection when handling tines.

A badly worn tine causes your tiller to work harder and dig more shallow. Most important, worn tines cannot chop and shred organic matter as effectively nor bury it as deeply as good tines. A tine this worn needs to be replaced.





- To maintain the superb tilling performance of this machine the tines should be checked for sharpness, wear, and bending, particularly the tines which are next to the transmission. If the gap between the tines exceeds 3-1/2 inches they should be replaced or straightened as necessary.
- New tines should be assembled as shown in Fig 26 Sharpened tine edges will rotate rearward from above.





FIG. 26

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 27)

- Loosen cable clamp screw to allow cable to move.
- Move throttle control lever on upper handle to "FAST" position.
- Pull throttle cable out until engine bellcrank is back as far as it will go.
- Hold cable in this position and tighten clamp screw securely.



FIG. 27

TO ADJUST CARBURETOR (See Fig. 28)

The carburetor has a high speed jet and 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 idle 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.
- Be sure the throttle control cable is adjusted properly (see above).
- With engine off, turn idle 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 at idle and drive control bar in "DISENGAGED" position.
- With throttle control lever in "SLOW" position, turn idle needle valve in (clockwise) until engine begins to die then turn out (counterclockwise) until engine runs rough. Turn valve to a point midway between those two positions.

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.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING 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/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.



FIG. 28

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 re-placement 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 Customer Responsibilities section of this manual).

CYLINDERS

- Remove spark plug.
- Pour 1 ounce (29 ml) 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 AREAS ARE STILL WARM.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION				
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Dirty air cleaner. Water in fuel Clogged fuel tank. Loose spark plug wire. Bad spark plug or improper gap. Carburetor out of adjustment Oil soaked air filter. 	 Fill fuel tank. See "TO START ENGINE" in Operation section Wait several minutes before attempting to start Clean or replace air cleaner cartridge. Drain fuel tank and carburetor, and refill tank with fresh gasoline. Remove fuel tank and clean. Make sure spark plug wire is seated properly on plug. Replace spark plug or adjust gap. Make necessary adjustments Replace air filter. 				
Hard to start	 Throttle control not set properly. Dirty air cleaner. Bad spark plug or improper gap. Stale or dirty fuel. Loose spark plug wire. Carburetor out of adjustment. 	 Place throttle control in "FAST" position. Clean or replace air cleaner cartridge. Replace spark plug or adjust gap. Drain fuel tank and refill with fresh gasoline. Make sure spark plug wire is seated properly on plug. Make necessary adjustments. 				
Loss of power	 Engine is overloaded. Dirty air cleaner Low oil level/dirty oil. Faulty spark plug. Oil in fuel. Stale or dirty fuel Water in fuel. Clogged fuel tank. Spark plug wire loose. Dirty engine air screen. Dirty/clogged muffler. Carburetor out of adjustment Poor compression. 	 Set depth stake for shallower tilling. Clean or replace air cleaner cartridge. Check oil level/charge oil Clean and regap or change spark plug Drain and clean fuel tank and refill, and clean carburetor. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, and refill tank with fresh gasoline. Remove fuel tank and clean. Connect and tighten spark plug wire. Clean engine air screen. Clean engine air screen. Clean tant and tighter. Make necessary adjustments. Contact an authorized service center/department. 				
Engine overheats	 Low oll level/dirty oil. Dirty engine air screen. Dirty engine. Partially plugged muffler. Improper carburetor adjustment 	 Check oil level/change oil. Clean engine air screen. Clean cylinder fins, air screen, and muffler area Remove and clean muffler. Adjust carburetor to richer position. 				
Excessive bounce/ difficult handling	1. Ground too dry and hard.	 Moisten ground or wait for more favorable soil conditions. 				
Soil balls up or clumps	1. Ground too wet.	1 Wait for more favorable soil conditions				
Engine runs but tiller won't move	 Drive control bar is not engaged. V-belt not correctly adjusted. V-belt is off pulley(s) 	 Engage drive control inspect/adjust V-belt inspect V-belt. 				
Engine runs but labors when tilling	 Tilling too deep. Throttle control not properly adjusted Carburetor out of adjustment. 	 Set depth stake for shallower tilling. Check throttle control setting. Make necessary adjustments. 				
Tines will not rotate	1. Shear pin(s) broken	1. Replace shear pin(s).				

TILLER - - MODEL NUMBER 917.295852

HANDLES



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	127012X	Throttle, Control	18	STD541437	* Nut, Centerlock 3/8-16
2	141406	Grip, Handle	19	19131611	Washer 13/32 x 1 x 11 Ga.
З	110673X	Grommet, Handle	20	109228X	Lever, Lock, Handle
4	127254X	Bar, Drive Control Assembly	21	150258	Handle, Assemble
5	6712J	Cap, Vinyl	22	121145X	Clip, Plastic, Cable
6	137119	Panel, Control	23	86777	Screw, Hex, Washer Hd, Slotted
7	110641X	Bushing, Split			#10-24 x 1/2
8	71191008	* Screw, Pan Head #10-24	24	9484R	Clip
9	STD533125	* Bolt, Carriage	25	73970500	Locknut, Hex, Flange
		5/16-18 UNC x 2-1/2 Gr. 5	26	110675X	Clutch, Cable
10	110646X	Handle, Grip	27	STD541025	* Nut, Hex 1/4-20
11	STD624003	* Clip, Hairpin	28	STD551125	* Washer, Lock 1/4
12	81328	Bolt, Shoulder	29	STD541462	* Nut, Keps #10-24
13	110741X	Handle, Shift	31	150696	Bolt, Pivot
14	109313X	Grommet, Rubber			
15	110702X	Rod, Shift	* ST.	ANDARD HAF	RDWARE PURCHASE LOCALLY
16	STD533710	* Bolt, Carriage 3/8-16 x 1 Gr. 5	NOT	E: All compo	nent dimensions given in U.S. inch
17	109229X	Lock, Handle		1 inch = 2	5.4 mm

* STANDARD HARDWARE - - PURCHASE LOCALLY NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

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MAINFRAME, LEFT SIDE



TILLER - - MODEL NUMBER 917.295852

MAINFRAME, RIGHT SIDE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION			
1	STD541431	* Nut, Keps 5/16-18	9	5015J	Tire			
2	102332X	Bracket, Reinforcement		128952	Rim			
з	74760524	Bolt, Hex 5/16-18 x 1-1/2		795R	Tire Valve			
4	102173X	Counter Weight, R.H.	10	140535	Engine, Briggs & Stratton			
5	STD551137	* Washer, Lock 3/8			Model No. 135202,			
6	STD541037	* Nut. Hex 3/8-16			Type No. 0237-01			
7	STD624003	* Clip, Hairpin						
8	126875X	Rivet, Drilled	* ST	* STANDARD HARDWARE PURCHASE LOCALLY				
÷	12001011				a second strain the second second to the second			

NOTE: All component dimensions given in U.S.inches. 1 inch = 25.4 mm

STD541143

143009

25

27

* Nut. Hex 7/16-20

Bearing, Shaft, Ground Drive L.H.

TILLER - - MODEL NUMBER 917.295852 TRANSMISSION 24 ማ TTT 4 \mathfrak{S} 16 18 ହ 23 30 21 19 18 34 **1**8 28 42 48 41 27 53 32 18 35 39 37 **4**9 38 37 36 50 24 KEY PART DESCRIPTION ă۵ NO. NO. 28 106390X Spacer 0.765 x 1 125 x 1 23 29 102134X Chain #35-50 Pitch 51 Ground Shaft Assembly 30 150737 31 143008 Bearing, Shaft, Ground Drive R.H. DESCRIPTION **KEY** PART 32 106388X Spacer 0.70 x 1.00 x 1.150 NO. Sprocket and Gear Assembly NO. 33 102121X Shaft, Reduction (2nd) 34 102112X 1 150697 Transmission Assembly (Includes Key Nos. 2-52) Gearcase, L.H. w/Bearing (Includes Key No. 4) Screw, Whiz, Lock 5/16-18 x 3-1/2 35 102101X Sprocket Assembly w/Bearing 36 137300 2 150698 (Includes Key Nos 37 and 38) Bearing, Needle Sprocket, Tine Gasket, Gearcase 37 4422J З 106211X Bearing, Needle Washer, Thrust 5/8 x 1.10 x 1/32 Pinion, Input Shaft, Input 137301 38 5020J 4 Gear, Cluster, Red 1st & 2nd Gear, Reverse Shaft, Reduction (1st) 39 105345X 5 1370H 6 137335 40 105346X 41 8358J 7 145101 Bearing, Needle 42 4220R Washer, Thrust 8 4895H 43 Spacer 1.01 x 1.75 x 0.760 Washer, Seal 106146X 102136X 9 Ball, Steel 44 9672R Cup, Formed 7392M 10 Ring, Spiral Seal, Ring, Rubber Seal, Oil Spring, Shift, Fork 45 102144X 11 100371K O-Ring Arm, Shift 46 140576 106160X 12 47 7393R 13 142145 Fork, Shift Ring, Klip Shaft, Shift Gearcase, R H. w/Bearing 48 150700 14 8353J (Includes Key No. 8) Shaft, Tine 12000039 15 49 132688 16 140525 Chain, Roller #50-50 Pitch 50 4358J Washer 106147X 18 17720408 Screw 1/4-20 x 1/2 12000040 Ring, Klip 51 19 Gear, Assembly, Reverse Idler (Includes Key Nos. 21 and 22) 102114X 52 STD541031 Nut, Hex 5/16-18 20 53 122204X Bearing Kit, Tine Shaft Gear, Reverse Idler 6066J Grease, Plastilube #1 102115X 21 Bearing, Needle Shaft, Reverse Idler 22 6803J * STANDARD HARDWARE - - PURCHASE LOCALLY 23 102111X * Washer, Lock 7/16 24 STD551143

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

TILLER - - MODEL NUMBER 917.295852

TINE SHIELD



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	98000129	Nut Flance 5/16-18	18	STD532512	* Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5
5	1040862459	Shield, Side, Outer L. H.	19	102701X	Grip
2	8303.1	Pin Stake Depth	20	STD541037	* Nut, Hex 3/8-16
4	12000036	Ring, Klip	21	102156X	Stake, Depth
5	STD533107	* Bolt, Carriage 5/16-18 x 3/4 Gr 5	22	74930632	Bolt, Hex 3/8-16 x 2
ĕ	8394.1	Spring	23	4440J	Hinge
ž	8392.1	Bracket, Latch	24	72140404	* Bolf, Carriage 1/4-20 x 1/4
Ŕ	109230X	Spring, Depth Stake	25	6712J	Cap, Vinyl
ä	124289X459	Shield. Tine	26	109227X	Pad, Idler
10	STD533110	* Bolt, Carriage 5/16-18 x 1 Gr. 5	27	102695X459	Shield, Leveling
11	STD541031	* Nut Hex 5/16-18	28	120588X	Pin, Hinge
12	STD551131	*Washer Lock 5/16	29	124309X459	Shield, Side
13	72110510	Bolt, Carriage 5/16-18 x 1-1/4	30	73970500	Locknut, Hex, Flange
14	124311X	Bracket, Shield Tine			
15	104101X459	Shield, Side, Outer R.H.	* ST.	ANDARD HAF	DWARE PURCHASE LOCALLY
16	QTD5/1025	* Nut Hey 1/4-20	NOT		nont dimonsions given in U.S. inches

16 STD541025 * Nut, Hex 1/4-20 17 STD551125 * Washer, Lock 1/4 NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

TILLER - - MODEL NUMBER 917.295852

TINE ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	,	PART NO.	DESCRIPTION
1	4459J	Tine, Outer, L.H.	8	7	4610616	Bolt, Hex 3/8-24 x 1
2	132673	Pin, Shear	9	4	460J	Tine, Outer, R.H.
3	6554J	Tine, Inner, L.H.	10	1	32728	Assembly, Hub and Plate, R.H.
4	STD624008	* Clip, Hairpin	11	6	1555J	Tine, Inner, R.H.
5	132727	Assembly, Hub and Plate, L.H.	* ST.	A١	NDARD HAR	DWARE PURCHASE LOCALLY
7	STD551137 * Washer, Lock 3/8	NOT	E	All comport 1 inch = 25	nent dimensions given in U.S. inches. 5.4 mm	

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DECALS



KEY NO.	Y PART NO.	DESCRIPTION
1	141170	Decal, Logo
23	152400	Decal, Description
4	137538	Decal, Caution, Drive Control
5	120431X	Decal, Hand Placement
6	102180X	Decal, Shift Indicator
7	110719X	Decal, Operation and Lubrication
8	272931	Decal, Engine B&S
9	120075X	Decal, Warning, Rotating Tines
	153006	Manual, Owner's (English)
	153007	Manual, Owner's (Spanish)

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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
1	395990	Cylinder Assembly	40	93312		Retainer, Intake Valve and Exhaust
2	297565	Bushing, Cylinder				Spring
3	200810	* Seal. Oil	45	260642		Tappet, Valve
Ĕ	214040	Head, Cylinder	46	212733		Gear, Cam
7	272157	* Gasket, Cylinder Head	52	272585	***	Gasket, Carburetor Mounting (2)
ģ	495774	Breather Assembly	55	497442		Housing, Rewind Starter
ă	27549	* Gasket, Valve Cover	56	281504		Pulley, Rewind Starter
10	94621	Screw, Breather Mounting	57	263074		Spring, Rewind Starter
11	66578	Grommet, Breather Tube	58	280399		Rope, Rewind Starter
12	270080	* Gasket, Crankcase, Standard .015"				(Cut to Required Length)
14	270125	* Gasket, Crankcase .005" Thick	59	396892		Insert, Starter Handle
	270126	* Gasket, Crankcase .009" Thick	60	393152		Handle, Rewind Starter
13	94221	Screw, Cylinder Head 2-3/32"	65	94686		Screw, Housing Mounting
14	94679	Screw, Cylinder Head 2-15/32"	73	225176		Screen, Rotating
15	93448	Plug. Pine. Hex Socket	81	222263		Lock, Screw
10	94387	Plug, Oil Drain	90	495426		Carburetor Assembly
16	492088	Crankshaft	95	93499		Screw, Throttle Valve to Shaft
10	230978	Gear Pin. Crankshaft	96	223793		Throttle, Carburetor
18	494044	Cover Assembly, Crankcase	97	490048		Shatt and Lever, I hrottle
19	495660	Bushing, Crankcase Cover	108	491177		Valve and Shaft Group, Choke
20	294606	* Seal. Oil	118	231533		Valve, Needle
21	66768	Plug. Oil Filler	121	495606		Carburetor Overnaul Kit
22	94682	Screw, Cover Mounting	124	94616		Screw, Hex Head
	94666	Stud, Crankcase Cover	127	220352		Plug, Welch
23	399673	Flywheel, Magneto	1277	1 223789		Plug, weich
24	222698	Key, Flywheel	149	26336		Spring, Needle Valve
25	298904	Piston Assembly, Standard Size	152	200373		Spring, Througe Aujustment
	298905	Piston Assembly _010" Oversize	103	490569		Screw and Conar Screw Machine Round Head
	298906	Piston Assembly .020" Oversize	104	90027	**	* Casket Air Cleaner Mounting
	298907	Piston Assembly .030" Oversize	100	27 1935		Tank Accombly Eucl
26	298982	Ring Set, Piston, Standard Size	100	490391		Can Fuel Tank
	299742	Ring Set, Piston, Standard, Chrome	101	434003		Screw Evel Tank
	298983	Ring Set, Piston .010" Oversize	190	94/12 1 0/677		Screw Fuel Tank Mounting 1-3/4"
	298984	Ring Set, Piston .020" Oversize	101	272/80	**	* Gasket Fuel Tank to Carburetor
	298985	Ring Set, Piston 030" Oversize	200	203888		Guide Air
27	26026	Lock, Piston Pin	200	262280		Link Governor
28	298909	Pin Assembly, Piston, Standard	201	262270		Link Throttle
	298908	Pin Assembly, Piston .005" Over	<i></i>			
29	299430	Hod Assembly, Connecting	*	Included in	Ga	asket Set (495603)
	390459	Hod Assembly, Connecting	**	Included in	Če	arburetor Overhaul Kit (495606)
		.020° Undersize Grankpin Bore	***	Included in	bo	th Gasket Set (495603), and
30	221890	Dipper, Connecting Hod		Carburetor	õ	verhaul Kit (495606)
32	94745	Screw, Connecting Hod				
33	211119	Valve, EXNAUSI	NOT	E: All com	on	ent dimensions given in U.S. inches
34	261044	Valve, Intake		1 inch =	25	.4 mm
35	260552	Spring, intake valve				~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
36	26478	Spring, Exnaust valve				
37	222443	Guard, Fiywneei				

TILLER - - MODEL NUMBER 917.295852 ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 135202, TYPE NO. 0237-01

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
202A	262470	Link, Control	526	94659	Screw, Sems, Tank Bracket Mount.
203	280720	Bell Crank	527	223786	Clamp, Breather Tube
204	222962	Bushing, Governor Lever, Flat	528	231550	Tube, Breather
205	231520	Screw, Shoulder	529	67838	Grommet, Breather Tube
208	262279	Rod. Speed Control	542	93572	Screw
200	262282	Spring Governor	552	231079	Bushing, Governor Crank
216	262250	Link Choke	562	92613	Bolt, Governor Lever
210	10/8/5	Gear Governor	592	231082	Nut, Hex
220	201551	Washer Thrust	608	497830	Starter Assembly, Rewind
220	100610	Panel Control	611	391813	Fuel Pipe and Clip Assembly
222	490049	Lever Governor Control	613	93935	Screw, Hex Head, Shoulder
220	02/01	Bivet Governor Control Lever	614	93306	Pin, Cotter
224	93491	Mounting	616	231077	Crank, Governor
007	400974	Lovor Assembly Governor	621	396847	Switch, Stop
227	490374	Mashar Governor Lover	623	94943	Screw, Shoulder
230	222400	Crank Ball	634	271853	Washer, Throttle Shaft, Foam
255	223813	Muffler Exhaust	635	66538	Elbow, Spark Plug
300	393615		676	393757	Deflector, Exhaust, Side Outlet
304	495759	Housing, Blower	679	270382	Washer Foam
305	94619	Screw, Blower Housing Mounting	680	221839	Washer Brass
306	224820	Shield, Cylinder	741	261696	Gear Timing
307	94680	Screw, Cylinder Snield	851	201000	Cable Terminal Ignition
308	224738	Cover, Cylinder Head	860	211787	Soat Intake Valve Standard
332	92284	Nut, Flywneel	870	211/07	Seat Exhaust Valve, Standard
333	397358	Armature Group	071	262001	Guide Exhaust Valve
334	93414	Screw, Armature Mounting	0/1	202001	Guido Intako Valvo
337	802592	Plug, Spark	046	00703	Dook Coor Control
346	93705	Screw, Sems	910	200321	Pace Air Cleaner
356	398808	Wire, Ground	900	492/9/	Filter Air Cleaner
358	495603	Gasket Set	967	491000	Piller, Air Cleaner
363	19069	Flywheel Puller	968	495872	Cover, Air Cleaner
373	92987	Nút, Hex	969	490073	Screw, Air Cleaner
383	89838	Wrench, Spark Plug	9/1	94018	Screw, Hex Head
392	262328	Spring, Fuel Pump Diaphragm	987	398970	Seal, I nrottle Shatt
394	272650 *	* Diaphragm	995	491577	Lever, Bracket Assembly
414	220982	Washer	1012	2 490507	Retainer, Link
432	221377	Cap. Spring	1016	5 224278	Spacer
433	93265	Pin, Diaphragm Cover			
434	213963	Cover, Diaphragm	RPN	I Settings:	Low: 1200-1600, High: 3500-3700
435	93141	Screw, Diaphragm Cover			
455	225121	Cun. Starter	*	Included in Ga	sket Set (495603)
456	281503	Retainer	**	Included in Ca	rburetor Overhaul Kit (495606)
450	281505	Pawl Starter	***	Included in bot	th Gasket Set (495603), and
461	262626	Pin Spring		Carburetor Ov	erhaul Kit (495606)
401	202020	Knob Control			· · ·
407 515	2630713	Spring Friction	NOT	E: All compone	ent dimensions given in U.S. inches
010	200010	opinig, ritotori		1 inch = 25.	4 mm

SERVICE NOTES

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SEARS owner's manual	CRAFTSMAN [®] 5.0 HP 17 INCH TINE WIDTH REAR TINE TILLER WITH COUNTER ROTATING TINES
MODEL NO. 917.295852	Each tiller has its own model number. Each engine has its own model number. The model number for your tiller will be found on a plate attached to the top of the transmission. The model number for your engine will be found on the blower housing of the engine.
IF YOU NEED REPAIR SERVICE OR PARTS:	All parts listed herein may be ordered from any Sears, Roebuck and Co Service Center/Department and most Retail Stores. WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOW- ING INFORMATION: • PRODUCT - REAR TINE TILLER • MODEL NUMBER - 917.295852
1-800-4-HEPAIH (1-800-473-7247) FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER: 1-800-FON-PART (1-800-366-7278)	 ENGINE MODEL NUMBER - 135202, TYPE NUMBER 0237-01 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.

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