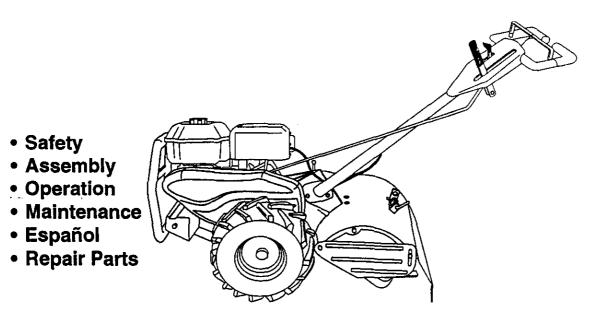
Owner's Manual **CRAFTSMAN®** 6.0 HP 17 INCH TINE WIDTH REAR TINE WITH COUNTER ROTATING TINES TILLER

Model No. 917.293310



Thisphole her allow emission endine which operates differonly from ano rously built engines. Before you start the address are include (contancial), complex Manual 2005.

CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment

Sears, Roebuck and Co., Hoffman Estates, IL 60179

TABLE OF CONTENTS

Safety Rules	2	Service and Adjustments	1
Weiranty Product Specifications	2	Storage	1
Product Specifications	4	Troubleshooting	2
Assembly	5	Illustrated Parts List	4
Assemby Operation	8	Parts Ordering	Back Cove
Maintenance	13	0	

WARRANTY

LIM ED TWO YEAR WARRANTY ON CRAFTSMAN TILLER

For two (2) years from date of purchase, when this Craftsman Tiller is maintained. lubr ated, and tuned up according to the operating and maintenance instructions in the wher's manual, Sears will repair free of charge any defect in material or workmanshir. his Warranty does not cover:

- Expendable items which become worn during normal use, such as tines, spark plugs aincleaners 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 thirty (30) days from the date of purchase.

Warranty service is available by returning the Craftsman power mower 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/817WA, HOFFMAN ESTATES, IL 60179

1

SAFETY RULES

TRAINING

16

- 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. Wea 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 electristarting motors.
- Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by manufacturer).

)PERATION

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. 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.

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.

WARNING

The engine exhuast from this product contains chemicals known to the State of California to cause cancer, birth defectd, or other reproductive harm.

PRODUCT SPECIFICATIONS

HORSEPOWER:	6.0 HP
DISPLACEMENT:	13.53 CU. IN.
GASOLINE CAPACITY:	3 Quarts Unleaded Regular
OIL (API-SF/SG/SH):	SAE 30
(CAPACITY: 19 oz.)	(Above 40°F) SAE5W-30/10W-30 (Below 40°F)
SPARK PLUG : (GAP: .030")	Champion RJ19LM OR J19LM

Congratulations on your purchase of a Craftsman 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. We have 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" 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.

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

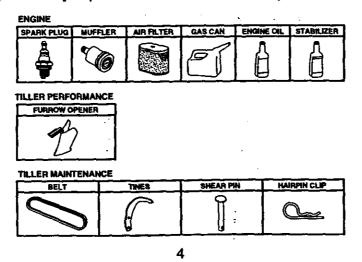
- · Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tiller.
- Follow the instructions under the "Maintenance" and "Storage" sections, this Owner's Manual.

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

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

ACCESSORIES

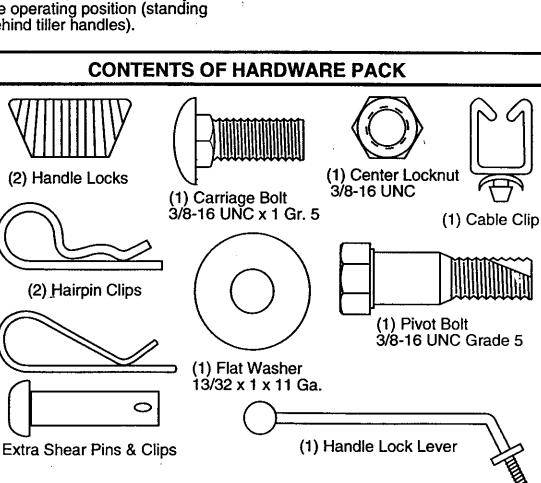
These accessories were available when the tiller was purchased. They are also available at most Sears Retail outlets and Service Centers. Most Sears Stores can order repair parts for you when you provide the model number of your tiller.



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 LEFT tightness. TOOLS REQUIRED FOR ASSEMBLY A socket wrench set will make assembly easier. Standard wrench sizes are listed. (1) Utility knife (1) Wire cutter (1) Tire pressure gauge (1) Screwdriver (1) Pair of pliers (1) 9/16" wrench

OPERATOR'S POSITION

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



5

RIGHT

FRONT

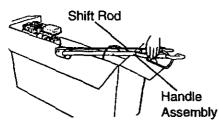
ASSEMBLY

UNPACKING CARTON

ACAUTION: 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.

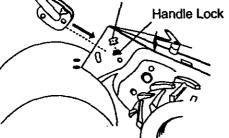
- While holding handle assembly, cut cable ties securing handle assembly to top frame. Let handle assembly rest on tiller.
- Remove top frame of carton.
- Slowly ease handle assembly up and place on top of carton.
- Cut down right hand front and right hand rear corners of carton, lay side carton wall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



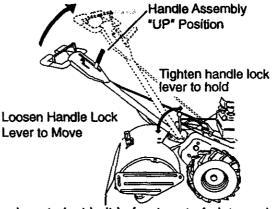
INSTALL HANDLE

 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.)
 VIEWED FROM R.H. SIDE OF TILLER

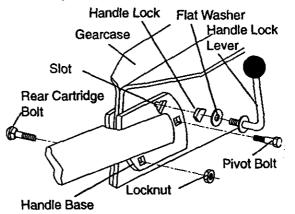
Handle Assembly Gearcase Notch Handle Lock



- Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.
- Rotate handle assembly down. Insert rear carriage bolt first, with head of bolt on L.H. side of tiller and loosely assemble locknut.

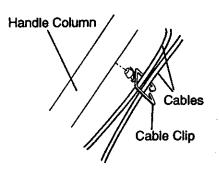


- Insert pivot bolt in front part of plate and tighten.
- Cut down remaining corners of carton and lay panels flat.
- Lower the handle assembly. Tighten nut on carriage bolt so handle moves with some resistance. This will allow for easier adjustment.
- Place flat washer on threaded end of handle lock 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).
- Raise handle assembly to highest position and securely tighten handle lock lever by rotating clockwise. Leaving handle assembly in highest position will make it easier to connect shift rod.



INSERT CABLE CLIP

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

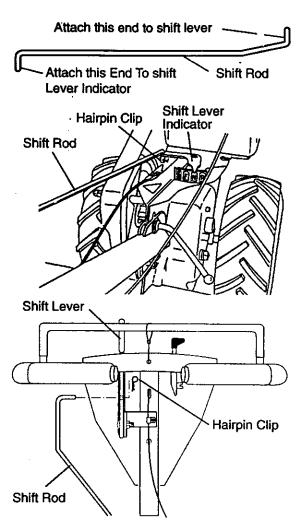


CONNECT SHIFT ROD

- 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 with bend of clip on right side.

REMOVE TILLER FROM CRATE

- Adjust handle assemby to lowest position. Be sure lock lever is tightened securely.
- Make sure shift lever indicator is in "N" (neutral) position.
- Tilt tiller forward by lifting handle. Separate cardboard cover from leveling shield.
- Rotate tiller handle to the right and pull tiller out of carton.



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.

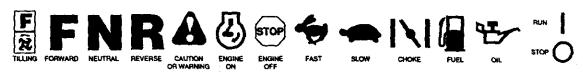
Reduce tire pressure to 20 PSI.

HANDLE HEIGHT

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

OPERATION

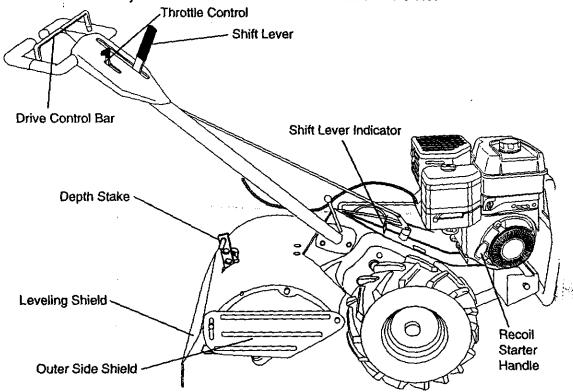
These symbols may appear on your Tiller or in literature supplied with the product. Learn and understand their meaning.



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.



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.

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

THROTTLE CONTROL - Used to control engine speed.

LEVELING SHIELD - Levels tilled soil. SHIFT LEVER - Used to shift transmission gears.

SHIFT LEVER INDICATOR - Shows while gear the transmission is in.

RECOIL STARTER HANDLE - Used start the 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 spectacles or standard safety glasses.

HOW TO USE YOUR TILLER

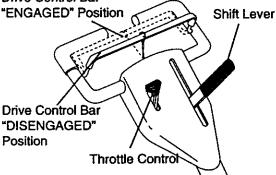
Know how to operate all controls before adding fuel and oil or attempting to start engine.

STOPPING

TINES AND DRIVE

- Release drive control bar to stop movement.
- Move shift lever to "N" (neutral) position. ENGINE
- Move throttle control to "STOP" position. If equipped with stop switch, move switch to "STOP" position.
- · Never use choke to stop engine.

Drive Control Bar



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 (x) till position and engaging drive control bar.

FORWARD - WHEELS ONLY/TINES STOPPED

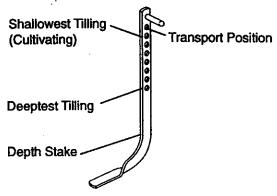
 Release drive control bar and move shift lever indicator to "F" (forward) position.
 Engage drive control bar and tiller will move forward.

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

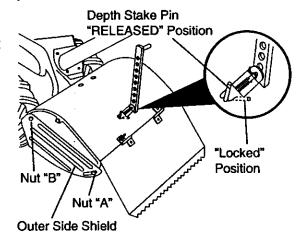
The depth stake can be raised or lowered to allow you more versatile tilling and cultivating, or to more easily transport your tiller.



TILLING

- 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 till 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.



TURNING

- Release the drive control bar.
- Niove 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 turnaround, release the drive control bar and lower handle. Place shift lever in till position and move throttle control to desired speed. To begin tilling, hold drive control bar against the handle.

OUTER SIDE SHIELDS

The back 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

ACAUTION: 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

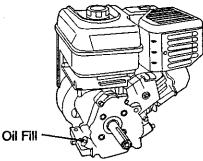
- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

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

- 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 overlow-
- ing when engine is level. For approximate capacity see "PRODUCT SPECI-FICATIONS" on page 4 of this manual. All oil must meet A.P.I. Service Classification SF, SG or SH.
- Reinstall engine oil cap and tighten
- 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 addition al information. Never use engine or carbu retor cleaner products in the fuel tank or permanent damage may occur.

ACAUTION: 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

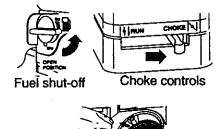
CAUTION: Keep drive control bar in "DISENGAGED" position when starting engine.

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.
- Turn fuel shut-off valve 1/4 turn to OPEN position.
- Move choke control to CHOKE position.
- 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.
- If engine fires but does not start, move choke control to half choke position. Pull recoil starter handle until engine starts.
- 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.



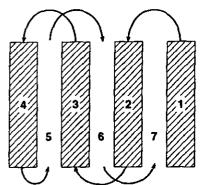
Rewind starter

NOTE: If at a high altitude (3000 feet) or in cold temperatures (below 40°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 (mid-way between "FAST" and "IDLE").

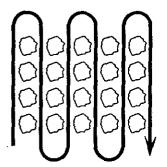
- Tilling is digging into, turning over, and breaking up packed soil before planting. Loose, unpacked soil helps root growth. Best tilling depth is 4" to 6". A tiller will also clear the soil of unwanted vegetation. The decomposition of this vegetable matter enriches the soil.
 Depending on the climate (rainfall and wind), it may be advisable to till the soil at the end of the growing season to further condition the soil.
- 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.
- You will find tilling much easier if you leave a row untilled between passes. Then go back between tilled rows. There are two reasons for doing this. First, wide turns are much easier to negotiate than about-faces. Second, the tiller won't be pulling itself, and you, toward the row next to it.
- 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.



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" (2.5-7.5 cm). 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.



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 sectior of this manual.

MAINTENANCE

MAINTENANCE SCHEDULE		2	ENSTROLES TO		SUN 01 101	[\$]	7			 		
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	12		1	E CE				SE	ERV	DAT	ES	
Check Engine Oil Level	~	~										
Change Engine Oil			ŀ	1.2								
Oil Pivot Points		~										
Inspect Spark Arrester / Muffler							1					
Inspect Air Screen	~	-										
Clean or Replace Air Cleaner Cartridge			•	2								
Clean Engine Cylinder Fins				1								
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 air-fuel mixture and help your engine run better and last longer.

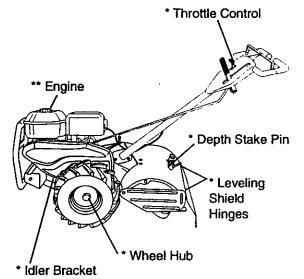
BEFORE EACH USE

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

LUBRICATION

Keep unit well lubricated (See "LUBRICA-TION CHART").

LUBRICATION CHART



* SAE 30 OR 10W-30 MOTOR OIL ** REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

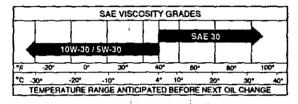
Disconnect spark plug wire before performing any maintenance (except carburetor adjustment) to prevent accidental starting of engine.

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

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



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 40°F (4°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

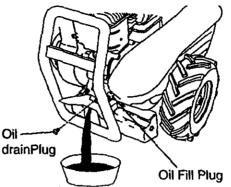
Change the oil after every 50 hours of operation or at least once a year if the tiller is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil or equivalent. Tighten oil filler plug securely each time you check the oil level.

TO CHANGE ENGINE OIL

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

- 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 oil drain plug. Be careful not to allow dirt to enter the engine. For easier removal of plug use 7/16 12 Pt. socket with extension.
- Tip tiller forward to drain oil.

- After oil has drained completely, replace oil drain plug and tighten securely.
- Remove oil fill plug.
- Refill engine with oil through oil fill tube.
 See "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.
- · Replace oil fill plug and tighten securely.



AIR FILTER

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 50 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

 Remove knob and cover. Lift air cleane: assembly off stud.

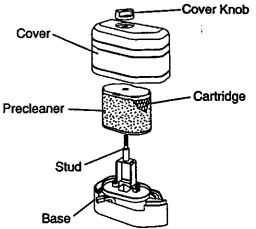
TO SERVICE PRE-CLEANER

- Remove foam pre-cleaner from air filter
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- If very dirty or damaged, replace precleaner.
- · Reinstall pre-cleaner onto air filter.

• Reinstall cover and secure with knob. TO SERVICE CARTRIDGE

- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Remove foam pre-cleaner from air filter
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall pre-cleaner onto air filter.

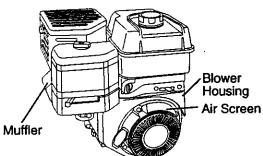
• Reinstall cover and secure with knob. **IMPORTANT:** Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deteriora tion of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dr cartridge.



COOLING SYSTEM

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

- Clean air screen frequently using a stiffbristled brush.
- Keep cylinder fins, levers, and linkage free of dirt and chaff.



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 "PROD-UCT SPECIFICATIONS" on page 4 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

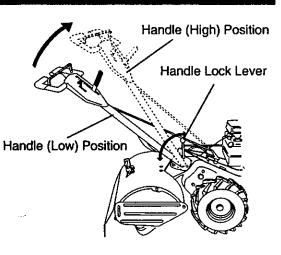
ACAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

TILLER

TO ADJUST HANDLE HEIGHT

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

- First loosen handle lock lever.(Do not loosen too much or handle locks may fall out.)
- Handle can be positioned at different settings between "HIGH" and "LOW" positions.
- Retighten handle lock lever securely after adjusting.



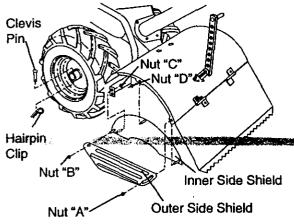
TIRE CARE

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

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

TO REMOVE WHEEL

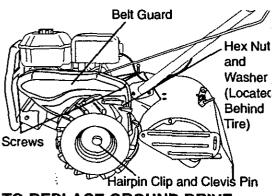
- Place blocks under transmission to keep tiller from tipping.
- Remove outer side shield by removing nuts "A" and "B".
- Remove inner side shield by removing nuts "C" and "D".
- Remove hairpin clip and clevis pin from wheel.
- Remove wheel and tire.•Repair tire and reassemble.



TO REMOVE BELT GUARD

NOTE: For ease of removal, remove hairpin clip and clevis pin from left wheel. Pull wheel out from tiller about 1 inch.

- Remove two (2) screws, one (1) nut and washer from side of belt guard.
- Pull belt guard out and away from unit.
- Replace belt guard by reversing above procedure.



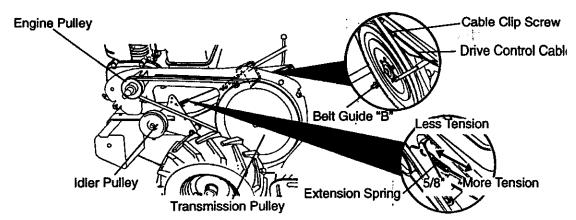
TO REPLACE GROUND DRIVE BELT

- Remove belt guard as described in "TO REMOVE BELT GUARD".
- Remove old belt by slipping off engine pulley first then remove from transmission pulley.
- Place new belt in groove of transmission pulley and into engine pulley. BEL'I MUST BE IN GROOVE ON TOP OF IDLER PULLEY. NOTE POSITION OF BELT TO GUIDES.
- Check belt adjustment as described below.
- Replace belt guard.
- Reposition wheel and replace clevis pin and hairpin clip.

GROUND DRIVE BELT ADJUST-MENT

For proper belt tension, the extension spring should have about 5/8 inch stretch when drive control bar is in "ENGAGED" 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/ inch stretch is obtained while the drive control bar is engaged.
- Tighten cable clip screw securely.

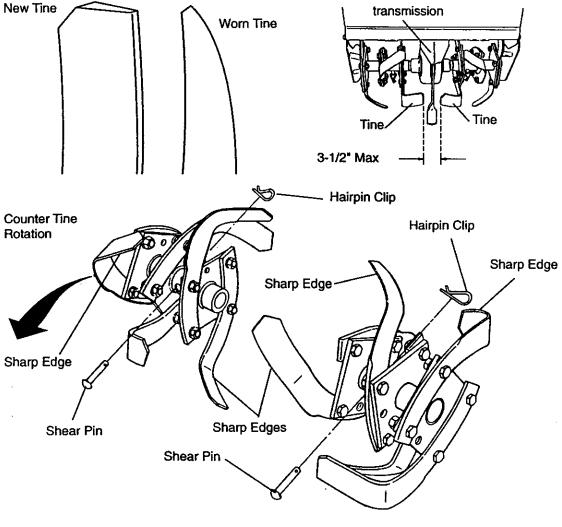


TINE REPLACEMENT

ACAUTION: 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. Sharpened tine edges will rotate rearward from above.



17

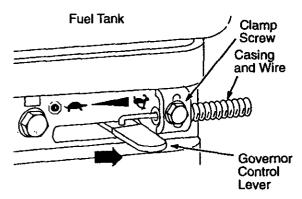
Download from Www.Somanuals.com. All Manuals Search And Download.

ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any nonroad engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

- The throttle control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, proceed as follows:
- With engine not running, move remote throttle control lever to "FAST" position.
- If throttle lever on engine touches high speed stop, no further adjustment is necessary. If throttle lever does not touch high speed stop, continue with adjustment procedure.
- Loosen cable clamp screw.
- Move throttle lever up until it touches high speed stop, and hold in this position.
- · Tighten cable clamp screw securely.



TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, engine performance can be affected by differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, contact your nearest authorized service center/department **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 authorized service center/department, which has the proper equipment and experience to make any necessary adjustments.

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.

ACAUTION: 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 Maintenance 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 Maintenance 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).

CYLINDER(S)

- · 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.

TROUBLE SHOOTING

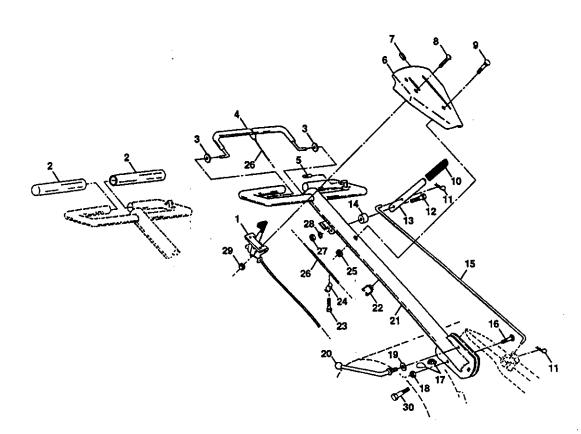
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. 	 Fill fuel tank. See "TO START ENGINE" in the Operation section.
	3. Engine flooded.	3. Wait several minutes before attempting to start.
	4. Dirty air cleaner.	 Clean or replace air cleaner car tridge.
	5. Water in fuel.	Drain fuel tank and carburetor, and refill tank with fresh gasoline.
	6. Clogged fuel tank.	6. Remove fuel tank and clean.
	7. Loose spark plug wire.	 Make sure spark plug wire is seat ed properly on plug.
	8. Bad spark plug or	8. Replace spark plug or adjust gap.
	improper gap.	9. Make necessary adjustments.
	9. Carburetor out of adjust-	
Hard to start	1. Throttle control not set	1. Place throttle control in "FAST"
	properly.	position.
	2. Dirty air cleaner.	 Clean or replace air cleaner car tridge.
	3. Bad spark plug or	Replace spark plug or adjust gap
	improper gap.	4. Drain fuel tank and refill with frest
	4. Stale or dirty fuel.	gasoline.
	5. Loose spark plug wire.	5. Make sure spark plug wire is sea ed properly on plug.
	6. Carburetor out of .	6. Make necessary adjustments.
	adjustment.	
Loss of power	1. Engine is overloaded.	1. Set depth stake and wheels for shallower tilling.
	2. Dirty air cleaner.	2. Clean or replace air cleaner car tridge.
	3. Low oil level/dirty oil.	3. Check oil level/change oil.
	4. Faulty spark plug.	 Clean and regap or change spark plug.
	5. Oil in fuel.	5. Drain and clean fuel tank and refill, and clean carburetor.
	6. Stale or dirty fuel.	Drain fuel tank and refill with fresh gasoline.
	7. Water in fuel.	7. Drain fuel tank and carburetor, and refill tank with fresh gasoline.
	8. Clogged fuel tank.	8. Remove fuel tank and clean.
	 Spark plug wire loose. wire. 	9. Connect and tighten spark plug
	10. Dirty engine air screen.	10. Clean engine air screen.
	11. Dirty/clogged muffler.	11. Clean/replace muffler.
	12. Carburetor out of adjustment.	12. Make necessary adjustments.
	13. Poor compression.	13. Contact an authorized Sears Service Center/Department.
	20	-

PROBLEM	CAUSE	CORRECTION
Engine overheats	 Low oil 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, mut fier area. Remove and clean muffler. Adjust carburetor to richer posi tion.
Excessive bounce/ difficult handling	 Ground too dry and hard. Wheels and depth stake incorrectly adjusted. 	 Moisten ground or wait for more favorable soil conditions. Adjust wheels and depth stake.
Soil balls up or clumps	1. Ground too wet.	1. Wait for more favorable soil condi tions.
Engine runs but tiller won't move	 Tine control is not engaged. V-belt not correctly adjusted. V-belt is off pulley(s). 	 Engage tine 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 till ing. Check throttle control setting. Make necessary adjustments.

REPAIR PARTS

TILLER - - MODEL NUMBER 917.293310

HANDLES



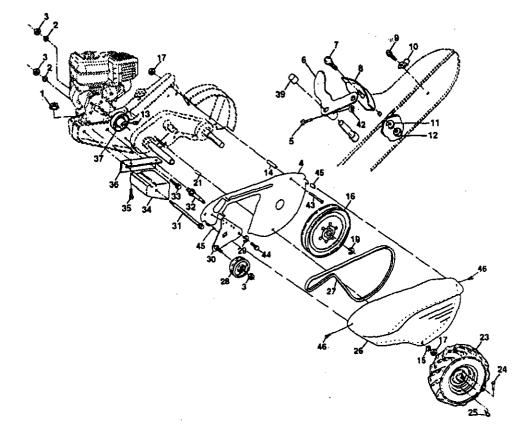
KEY	PART	•
NO.	NO.	DESCRIPTION
1	164743	Throttle, Control
2	141406	Grip, Handle
3	110673X	Grommet, Handle
4	127254X	Bar, Drive Control Assembly
5	6712J	Cap, Vinyl
6	137119	Panel, Control
7	110641X	Bushing, Split
8	71191008	*Screw, Pan Head #10-24
9	72010520	*Bolt, 5/16-18 x 2-1/2
10	110646X	Handle, Grip
11	STD624003	Clip, Hairpin
12	81328	Bolt, Shoulder
13	110741X	Handle, Shift
14	109313X	Grommet, Rubber
15	110702X	Rod, Shift
16	STD533710	*Bolt, Carriage 3/8-16 x 1 Gr. 5
17	109229X	Lock, Handle

KEY PART

NO.	NO.	DESCRIPTION
18	STD541437	*Nut, Centerlock 3/8-16
19	19131611	Washer 13/32 x 1 x 11 Ga.
20	109228X	Lever, Lock, Handle
21	150258	Handle, Assemble
22	165197	Clip, Plastic, Cable
23	86777	Screw, Hex, Washer Hd, Slotted #10-24 x 1/2
24	9484R	Clip
25	73970500	Locknut, Hex, Flange
26	110675X	Clutch, Cable
27	STD541025	*Nut, Hex 1/4-20
28	STD551125	*Washer, Lock 1/4
29	STD541462	*Nut, Keps #10-24
30	150696	Bolt, Pivot

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

MAINFRAME, LEFT SIDE



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	STD541431	Nut, Keps 5/16-18	24	126875X	Rivet, Drilled
2	STD551137	*Washer, Lock 3/8	25	STD624003	*Clip, Hairpin
3	STD541037	*Nut, Hex 3/8-16	26	165501X558	Guard, Belt
4	165710	Shield, Inner Belt Guard	27	132801	Belt, V
5	154734	Screw Shift Lever	28	104679X 1	Pulley, Idler
6	110111X	Lever, Shift	29	12000032	Ring, Klip
7	STD532505	*Bolt, Carriage 1/4-20 x 1/2 Gr. 5	30	159229	Bracket, Idler
8	8700J	Plate, Shift Indicator	31	102384X	Bolt, Hex 5/16-16 x 12
9	86777	Screw, Hex, Washer Head,	32	102141X	Shaft, Idler Arm
		Slotted #10-24 x 1/2	33	STD523710	*Boit, Hex 3/8-16 x 1
10	9484R	Clip	34	102383X	Counterweight, L.H.
11	STD551125	*Washer, Lock 1/4	35	STD523120	Bolt, Hex 5/16-18 x 1 1/2
12	STD541025	*Nut, Hex 1/4-20	36	102331X	Bracket, Reinforcement, L.H.
13	23230506	*Screw, Set, 5/16-18 x 3/8	37	130812	Sheave, Engine
14	110652X	Spacer, Split .327 x .42 x 2.09	39	140062	Cap, Plunger
15	STD551031	*Washer 11/32 x 11/16 x 16 Ga.	42	69180	Nut Lock #10-24
16	145102	Sheave, Transmission	43	74760544	Bolt, Fin Hex 5/16-18 x 2-3/4
17	STD541031	*Nut, Hex 5/16-18	44	74770508	Beit, Fin Hex 5/16-24 x 1/2
19	12000028	Ring, Retainer	45	165504	Nut, J Clip #8
21	156117	Spacer, Split .327 x .42 x 1.220	46	165503	Screw Hex Wsh. Hd #8-18 x 1/2
23	5015J	Tire			
	128952	Rim	*STAN		VARE PURCHASE LOCALLY

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

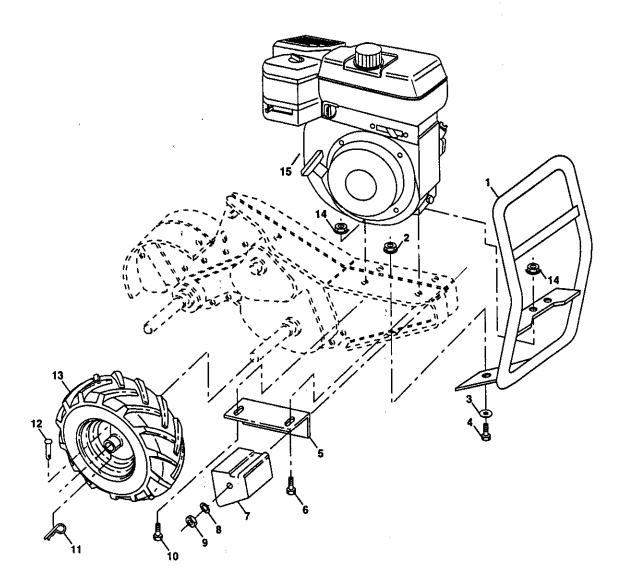
43

Tire Valve

795R

MAINFRAME, RIGHT SIDE

е н.

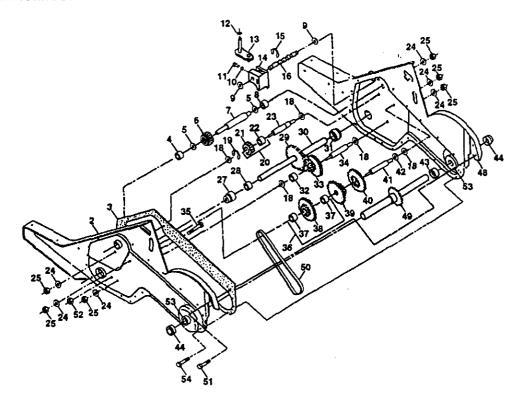


KE	Y PART		KE	Y	PART	
NO	. NO.	DESCRIPTION	NO),	NO.	DESCRIPTION
1	166532	Bumper	11	S	STD624003	*Clip, Hairpin
2	73970500	Locknut, Hex, Flange 5/16-18	12	1	26875X	Rivet, Drilled
3	STD551031	*Washer 11/32 x 11/16 x 16Ga.	13	5	601 5 J	Tire
4	STD523107	Bolt, Hex 5/16-18 x 3/4		1	28952	Rim
5	102332X	Bracket, Reinforcement		7	′95R	Tire Valve
6	STD523120	Bolt, Hex 5/16-18 x 2	14	5	STD541431	*Nut, Keps 5/16-18
7	102173X	Counter Weight, R.H.	15	-		Engine, (See Breakdown)
8	STD551137	*Washer, Lock 3/8				Craftsman Model No.
9	STD541037	*Nut, Hex 3/8-16				121432-0124-E1
10	74760524	Bolt, Hex 5/16-18 x 1-1/2				WARE PURCHASE LOCALLY ent dimensions given in U.S.inches.

1 inch = 25.4 mm

TILLER - - MODEL NUMBER 917.293310

TRANSMISSION



KE	Y PART		KE	Y PART	
NO	. NO.	DESCRIPTION	NO	. NO.	DESCRIPTION
1	165728	Transmission Assembly (Includes	30	150737	Ground Shaft Assembly
		Key Nos. 2-52)	31	143008	Bearing, Shaft, Ground Drive R.H.
2	165729	Gearcase, L.H. w/Bearing (Includes	32	106388X	Spacer 0.70 x 1.00 x 1.150
		Key No. 4)	33	102121X	Sprocket and Gear Assembly
3	161963	Gasket, Gearcase	34	102112X	Shaft, Reduction (2nd)
4	5020J	Bearing, Needle	35	102101X	Screw, Whiz, Lock 5/16-18 x 3-1/2
5	1370H	Washer, Thrust 5/8 x 1.10 x 1/32	36	154355	Sprocket Assembly w/Bearing
6	137335	Pinion, Input			(Includes Key Nos, 37 and 38)
7	145101	Shaft, Input	37	4422J	Bearing, Needle
8	4895H	Bearing, Needle	38	154356	Sprocket, Tine
9	154467	Washer, Seal	39	105345X	Gear, Cluster, Red 1st & 2nd
10	7392M	Ball, Steel	40	105346X	Gear, Reverse
11	100371K	Spring, Shift, Fork	41	8358J	Shaft, Reduction (1st)
12	106160X	O-Ring	42	4220R	Washer, Thrust
13	142145	Arm, Shift	43	106146X	Spacer 1.01 x 1.75 x 0.760
14	8353J	Fork, Shift	44	155236	Seal Asm. Oll
15	12000039	Ring, Klip	48	165732	Gearcase, R.H. w/Bearing (Includes
16	154466	Shaft, Shift			Key No. 8)
18	4358J	Washer	49	132688	Shaft, Tine
19	12000040	Ring, Klip	50	106147X	Chain, Roller #50-50 Pitch
20	102114X	Gear, Assembly, Reverse Idler	51	17720408	Screw 1/4-20 x 1/2
		(Includes Key Nos. 21 and 22)	52	STD541031	*Nut, Hex 5/16-18
21	102115X	Gear, Reverse Idler	53	165140	Bearing Kit, Tine Shaft
22	6803J	Bearing, Needle	54	17720412	Screw 1/4-20 x 3/4
23	102111X	Shaft, Reverse Idler		6066J	Grease, Plastilube #1
24	STD551143	*Washer, Lock 7/16			
25	STD541143	*Nut, Hex 7/16-20	* S1	ANDARD HA	RDWARE PURCHASE LOCALLY
	440000				

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

45

Bearing, Shaft, Ground Drive L.H. Spacer 0.765 x 1.125 x 1.23

Chain #35-50 Pitch

27

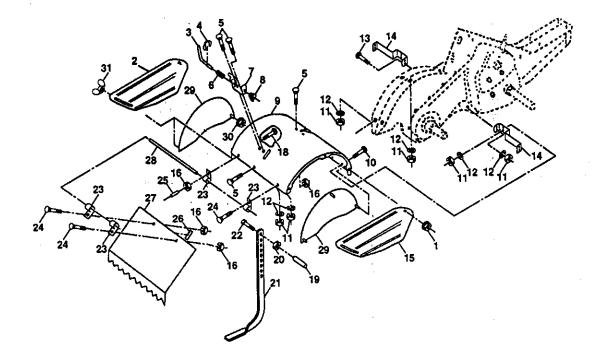
28

29

143009

106390X

102134X



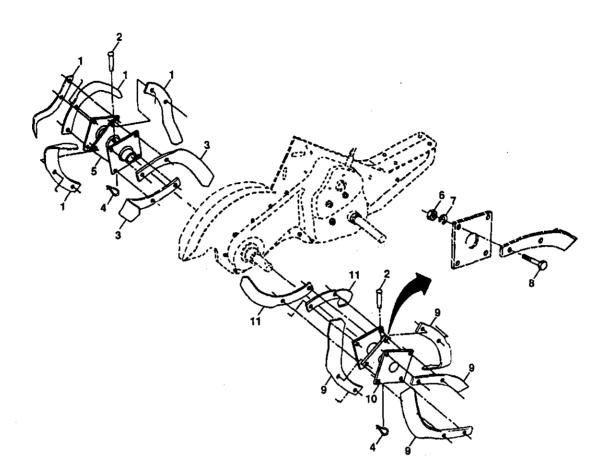
NO.	NO.	DESCRIPTION
1	98000129	Nut, Flange 5/16-18
2	161415X558	Shield, Side, Outer L. H.
3	8393J	Pin, Stake, Depth
4	12000036	Ring, Klip
5	STD533107	*Bolt, Carriage 5/16-18 x 3/4 Gr 5
6	8394J	Spring
7	8392J	Bracket, Latch
8	109230X	Spring, Depth Stake
9	124289X558	Shield, Tine
10	STD533110	*Bolt, Carriage 5/16-18 x 1 Gr. 5
11	STD541031	*Nut, Hex 5/16-18
12	STD551131	*Washer, Llock 5/16
13	STD533112	Bolt, Carriage 5/16-18 x 1-1/4
• •	124311X	Bracket, Shield Tine
15	161414X558	Shield, Side, Outer R.H.
16	73510400	Nut, Hex 1/4-20

KEY PART

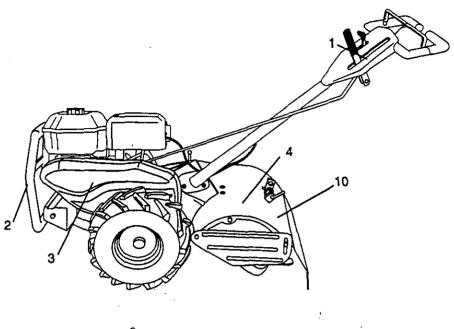
NO. NO. DESCRIPTION 18 STD532512 *Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5 19 102701X Grip *Nut, Hex 3/8-16 20 STD541037 Stake, Depth 21 102156X 22 74930632 Bolt, Hex 3/8-16 x 2 23 4440J Hinge *Bolt, Carriage 1/4-20 x 1/4 24 STD532505 Cap, Vinyi 25 6712J 26 109227X Pad, Idler 27 102695X558 Shield, Leveling Pin, Hinge 28 120588X Shield, Side 29 124309X558 Locknut, Hex, Flange 30 73970500 Nut, Wing Forged 5/16-18 31 162175

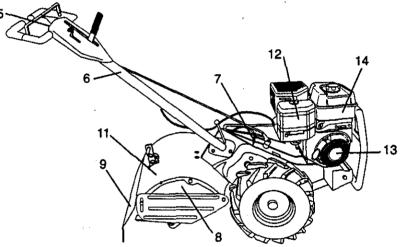
* STANDARD HARDWARE - - PURCHASE LOCALLY NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TINE ASSEMBLY



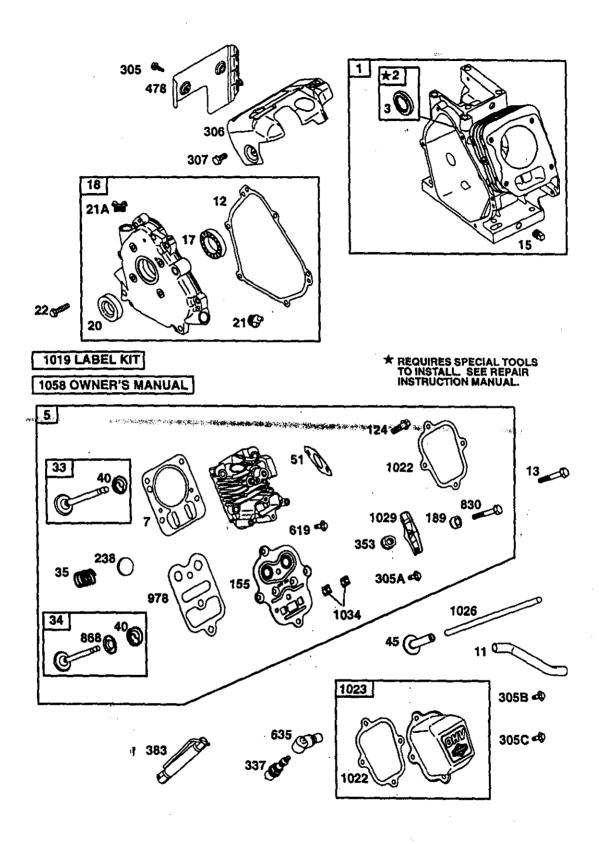
KEY	PART		KEY	PART			
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION		
1	4459J	Tine, Outer, L.H.	9	4460J	Tine, Outer, R.H.		
2	132673	Pin, Shear	10	132728	Assembly, Hub and Plate, R.H.		
3	6554J	Tine, Inner, L.H.	11	6555J	Tine, Inner, R.H.		
4	163552	*Clip, Hairpin			• •		
5	132727	Assembly, Hub and Plate, L.H.					
6	73610600	Nut, Hex 3/8-24	* STANDARD HARDWARE PURCHASE LOCALLY				
- 7	STD551137	*Washer, Lock 3/8	NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm				
8	74610616	Bolt, Hex 3/8-24 x 1					

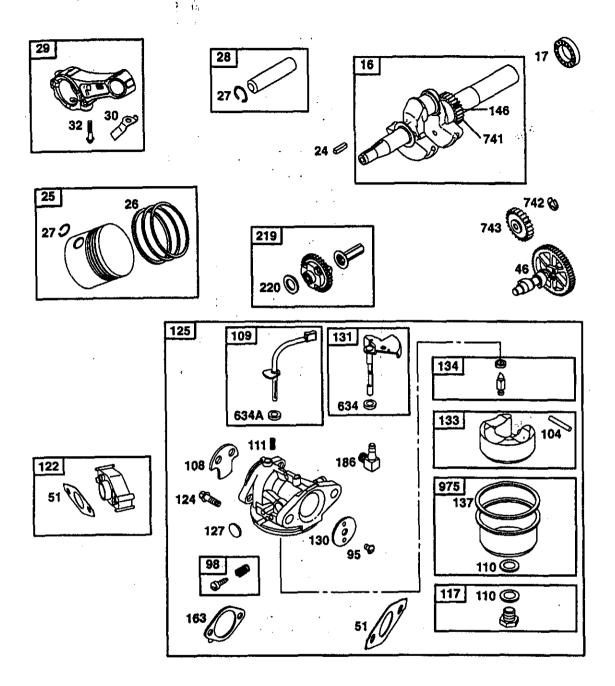


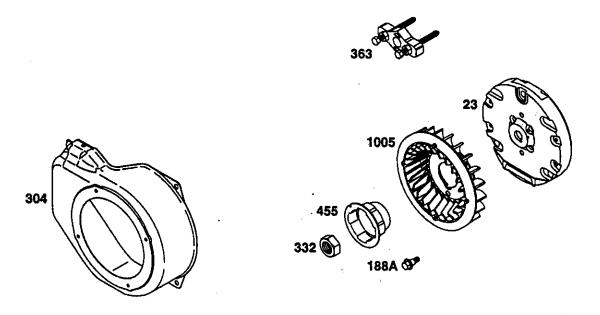


KEY PA	R	T	
--------	---	---	--

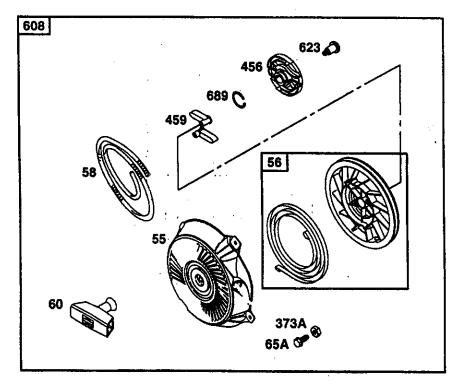
NO.	NO.	DESCRIPTION
1	166213	Decal, Logo
2	145023	Decal, Logo
3	166134	Decal, Logo
4	166133	Decal, Description
5	137538	Decal, Caution, Drive Control
6	120431X	Decal, Hand Placement
7	102180X	Decal, Shift Indicator
8	157984	Decal, Tine, Shield, Counter Rotating Tines
9	120075X	Decal, Warning, Rotating Tines
10	163094	Decal, Tine Depth Stake
11	162215	Decal, Tine, Shield, Warning Dom
12	166138	Decal, Engine
13	166854	Decal, Engine 6HP REF
14	167155	Decal, Craftsman IC
• •	166007	Manual, Owner's (Eng/Span)

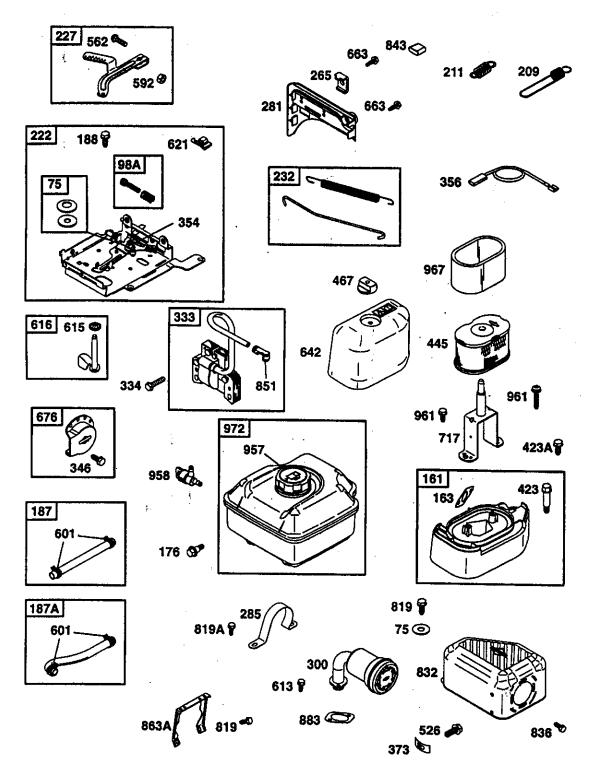




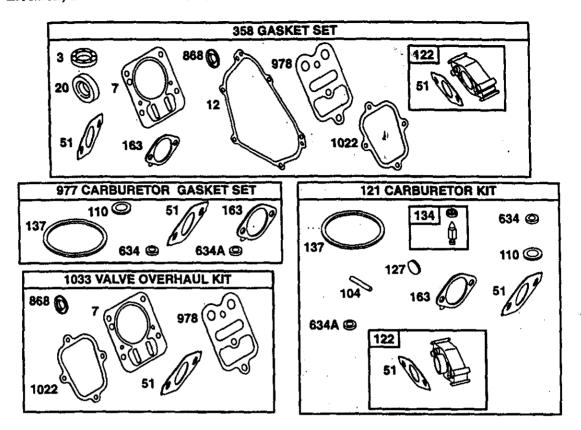








TILLER - - MODEL NUMBER 917.293310 ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 121432-0124-E1



TILLER - - MODEL NUMBER 917.293310

'ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 121432-0124-E1

LIVEN	DART	5 E F F	KEY	PART	·
KEY	PART	DESCRIPTION	NO.	NO.	DESCRIPTION
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
4	600045	Cylinder Assembly	109	693628	Choke Shaft
1.		•	110		Washer, Seal (Sold In Kit Only)
2		Bushing, Cylinder	111	262715	Spring Friction (Choke)
3		Seal, Oil	117	690048	Jet, Main (Standard)
.5		Head, Cylinder		690032	Carburetor kit
7		Gasket, Cylinder Head	121		
11		Tube, Breather	122		Spacer, Carburetor
12		Gasket, Crankcase	124	692568	Screw, Carburetor
13		Screw, Cylinder Head	125	693518	Carburetor
15		Plug, Oil Drain	127		Plug, Welch (Sold in Kit Only)
16		Crankshaft	130	223470	Valve, Throttle
17		Bearing, Ball	131	690024	Shaft Throttle
18		Cover-Crankcase	133	398187	Float Carburetor
20		Seal, Oil	134		Valve, Needle
21		Cap, Oil Fill	137	+•	Gasket Float Bowl (Sold In Kit
21A		Cap,Oil Fill	140	04000	Only) Kov Timing
22	692551	Screw, Crankcase Cover	146	94388 225430	Key, Timing
23	692987	Flywheel	155		Plate, Cylinder Head
24	222698	Key, Flywheel	161	693459	Base, Air Cleaner
25	499627	Piston Assembly (Std.)	163		Gasket, Air Cleaner
	692788	Piston Assembly, .010" O/S	176	94905 493496	Screw, Shoulder
	692789	Piston Assembly, .020" O/S	186		Connector, Hose
	692790	Piston Assembly, .030" O/S	187	298049	Line, Fuel (Cut to Required Length)
26	499631	Ring Set, (Std.)	187A	692601	Line, Fuel (Molded)
	692785	Ring Set, .010" O/S	188	94644	Screw, Control Bracket
	692786	Ring Set, .020" O/S	188A	692590	Screw, Shoulder
	692787	Ring Set, .030° O/S	189	263108	Ball, Rocker Arm
27	263190	Lock, Piston Pin	209	693710	Spring, Governor
28	499423	Pin, Piston	203	693710	Spring, Governor Idle
29	690124	Rod, Connecting	219	693578	Gear Governor
30	225279	Dipper, Connecting Rod	220	221551	Washer -Thrust
32	94699	Screw, Connecting Rod	222	693405	Bracket, Control
33	499642	Vaive, Exhaust	227	499506	Lever, Governor
34	499641	Valve, Intake	232	693408	Spring, Link, Mechanical
35	263149	Spring, Valve	LOL	000 100	Governor
40	93312	Retainer, Valve			
45	262679	Tappet, Valve	RPM S	Settinas Low: 10	650-1850; High: 3500-3700.
46	693404	Camshaft		· · · · · · · · · · · · · · · · · · ·	.
51		Gasket, Intake	★ Incl	uded in Gasket S	Set, Ref Number 358.
55	497442	Housing, Rewind Starter			
· 56	498144	Pulley, Starter	Incl	uded in Carburel	tor Kit, Ref Number 121.
58	280399	Rope, Starter			•
60	281101	Grip, Starter Rope	♦ Incl	uded in Carburel	tor Gasket Set, Ref Number
65	692608	Screw, Hex.	977.		
65A	94904	Screw, Hex.			
75	495659	Washer, Set	∆ Inclu	uded in Value Ov	rerhaul Kit, Ref Number
95	94098	Screw, Choke/Slotted	1033		•
98	398185	Screw, Idle Speed		-	
98A	493280		NOTE	: All component	dimensions are given in U.S.
104		Pin, Float Hinge		s. 1 inch = 25.4	
108	223471	Valve, Choke			

TILLER - - MODEL NUMBER 917.293310

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 121432-0124-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
238	263131	Cap, Valve	743	692566		Gear, Idler
265	221535	Clamp, Casing	819	692598		Screw, Muffler Strap
281	693407	Panel, Control	819A	94914		Screw
285	692595	Strap, Muffler	830	94993		Screw-Hex.
300	693593	Muffler, Exhaust	832	693583		Guard, Muffler
304	693621	Housing, Blower	836	94896		Screw, Muffler Guard
305	692577	Screw,Panel	836A	692596		Bracket, Muffler
305A	690960	Screw, Blower Housing	851	493880		Terminal, Cable
305B	692557	Screw, Rocker Cover 3/8" Long	863A	692596		Bracket, Muffler
305C	94786	Screw, Rocker Cover 7/16" Long	868	498592	∆★	Seal, Valve
306	693610	Shield, Cylinder	883	272309		Gasket, Exhaust
307	94515	Screw, Cylinder Shield	957	493988		Cap, Fuel Tank
332	94877	Nut, Flywheel	958	692586		Valve, Shutoff
333	692605	Armature, Magneto	961	963598		Screw, Air Cleaner Bracket
334	94731	Screw, Armature Magneto	967	273356		Filter, Air Pre-Cleaner
337	491055	Spark Plug	972	692587		Tank, Fuel
346	94896	Screw	975	493640		Bowl, Float
353	95137	Nut-Hex	977	690033		Gasket Set, Carburetor
354	692575	Nut, Lock	978	273346	Δ*	Gasket, Plate
356 358	398808 690031	Wire, Stop Gasket Set	1005 1019	692592 690035		Fan, Flywheel Label Kit
363	19069	Flywheel Puller	1019	273241		Gasket, Rocker Cover
373	692582	Nut, Clip	1022	499924		Cover, Rocker
373A	94907	Nut, Hex.	1023	499924 693517		Rod, Push
383	19374	Wrench, Spark Plug	1020	225246		Arm,Rocker
423	94655	Screw, Air Cleaner Base	1023	690034		Kit, Valve Overhaul
423A	94929	Screw, Air Cleaner Base	1034	281621		Guide, Push Rod
445	498596	Filter A/C Cartridge	1058	273700		Owner's Manual
455	225457	Cup, Flywheel				Replacement Engine 121432-
456	281503	Retainer, Spring				0036-E2
459	281505	Pawl, Ratchet				Replacement S/B not available
467	493903	Knob, Air Cleaner				at this time
478	693709	Panel				
526	94974	Screw	RPM S	ettings L	ow: '	1650-1850; High: 3500-3700.
562	94852	Bolt, Governor Lever				• • • • • • • • • • • • • • • • • •
592	231082	Nut, Governor Lever	★ Inclu	ided in Ga	sket	Set, Ref Number 358.
601	93053	Clamp, Hose	.			the state of the s
608	497830	Starter, Rewind	INCIL	ided in Ca	noun	etor Kit, Ref Number 121.
613	94706	Screw, Muffler Mounting	A Inch	ided in Co		etor Gasket Set. Ref Number
615	94672	Retainer, Governor		ided in Cal	roun	stor Gasket Set, Her Number
616	692547	Crank, Governor	J//.			
619	94744	Screw, Cyl. Head Plate	A lock	ded in Val		verhaul Kit, Ref Number
621	. 396847	Switch, Stop	1033.			vernaul Kit, Hel (40mber
623	94943	 Screw, Shoulder	1000.			
634 6244		Washer Sold in Kit Only)	NOTE:	All compo	nen	t dimensions are given in U.S.
634A 635	805529	 Washer (Sold In Kit Only)		. 1 inch ≈		•
635 642	693460	Boot, Spark Plug Cover, Air Cleaner				
663	692577					
676	393757	Screw,Casing Clamp Deflector, Muffler				
689	263073	Spring, Friction				
717	693462	Air Cleaner Bracket				
741	263157	Gear, Timing				
742	692564	Ring, Retaining				
	- ,					

For the repair or replacement parts you need delivered directly to your home Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278) Para ordenar piezas con entrega a domicilio – 1-800-659-7084

For in-house major brand repair service Call 24 hours a day, 7 days a week

1-800-4-REPAIR

(1-800-473-7274) Para pedir servicio de reparación a domicilio – 1-800-676-5811

For the location of a Sears Parts and Repair Center in your area Call 24 hours a day, 7 days a week **1-800-488-1222**

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement Call 9 am – 5 pm, Monday–Saturday **1-800-827-6655**



SEARS

REPAIR SERVICE





America's Repair Specialists

When requesting service or ordering parts, always provide the following information:

- Product Type
 Part Number
- Model Number
 Part Description

166007 Rev. 1 11.4.98 TR

Printed in U.S.A.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com