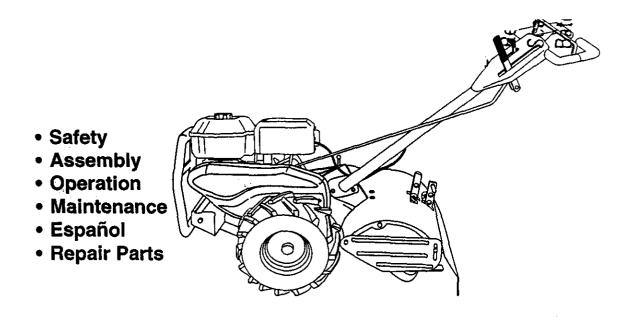
Owner's Manual

CRAFTSMAN®

6.5 HP
19 INCH TINE WIDTH
REAR TINE WITH
DUAL ROTATING TINES

TILLER

Model No. 917.293320





This product has a low emission engine which operates differently from previously built engines; Before you start the engine; read and understand this Owner's Manual.

CAUTION:

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

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

TABLE OF CONTENTS

Warranty2	Service and Adjustments15
	Storage3 & 19
	Troubleshooting20
Assembly 5	Illustrated Parts List42
Operation3 & 8	
Maintenance13	•

WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN TILLER

For two (2) 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 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

SAFETY RULES

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.

ACAUTION: 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 defects, or other reproductive harm.

PRODUCT SPECIFICATIONS

HORSEPOWER:	6.5 HP
DISPLACEMENT:	12.48 CU. IN.
	(206 CC)
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

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

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

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

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

must be tightened securely.

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
				<==	<

TILLER PERFORMANCE



TILLER MAINTENANCE

BELT	TINES	SHEAR PIN	HAIRPIN CLIP

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.

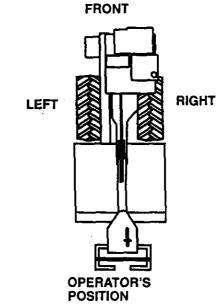
TOOLS REQUIRED FOR ASSEMBLY

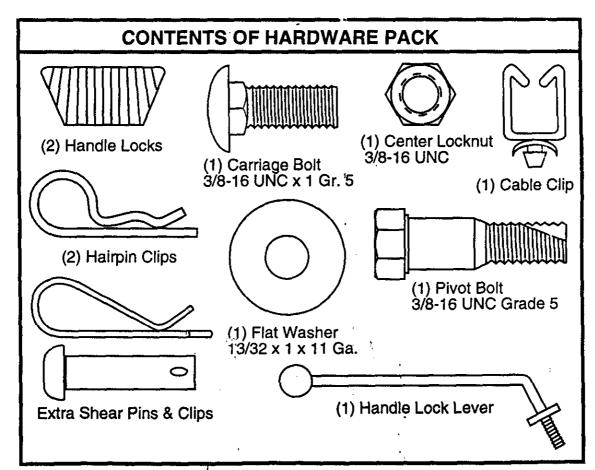
A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- (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).



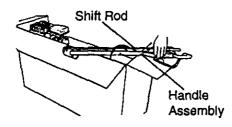


UNPACKING CARTON

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.

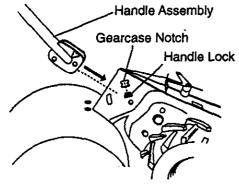
- While holding handle assembly, cut cable ties securing handle assembly to top frame. Let handle assembly rest on tiller.
- Remove top frame of carton.
- Slowly ease handle assembly up and place on top of carton.
- Cut down right hand front and right hand rear corners of carton, lay side carton wall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



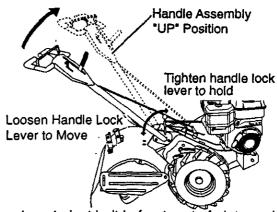
INSTALL HANDLE

 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.)

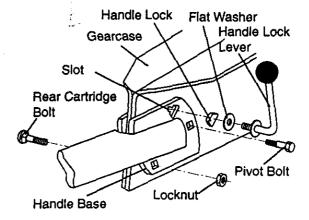




- Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.
- Rotate handle assembly down. Insert rear carriage bolt first, with head of bolt on L.H. side of tiller and loosely assemble locknut.

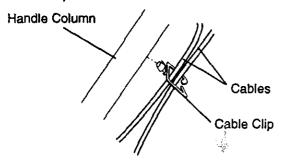


- Insert pivot bolt in front part of plate and tighten.
- Cut down remaining corners of carton and lay panels flat.
- Lower the handle assembly. Tighten nut on carriage bolt so handle moves with some resistance. This will allow for easier adjustment.
- Place flat washer on threaded end of handle lock 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.

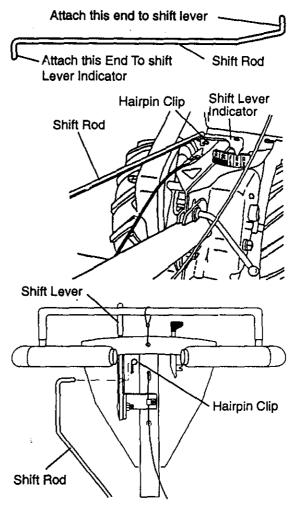


CONNECT SHIFT ROD

- 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.

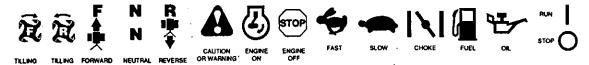
• Reduce tire pressure to 20 PSI.

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

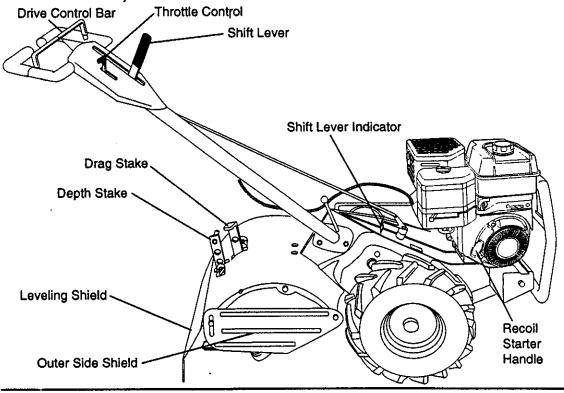
These symbols may appear on your Tiller or in literature supplied with the product. Learn and understand their meaning.



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 which gear the transmission is in.

RECOIL STARTER HANDLE - Used to start the engine.

DRAG STAKE - Controls forward speed. In forward rotating till mode.



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.

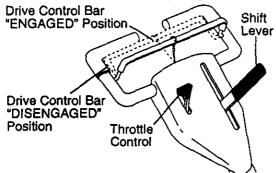
STOPPING

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.



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 either the counter rotating (元) till position or the forward rotating (元) till position and engaging drive control bar.

FORWARD - WHEELS ONLY/TINES STOPPED

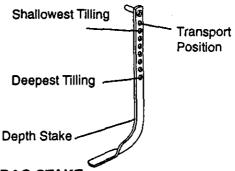
 Release drive control bar and move shift lever indicator to "F" (forward) position.
 Engage drive control bar and tiller will move forward.

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.

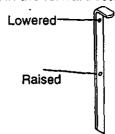
DEPTH STAKE

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



DRAG STAKE

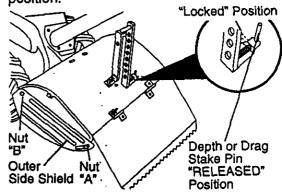
The drag stake should be raised when tilling in the counter rotating (說)till position. The drag stake should be lowered when tilling in the forward rotating (說)till position.



TILLING

- Use the counter rotating tine drive when tilling hard or rockey soil, virgin ground, or sod.
- Release depth and drag stake pins. Pull the depth stake up for increased tilling depth. Raise the drag stake. Place proper pin in hole of depth stake or drag stake to lock in position.
- Place shift lever indicator in counter rotating 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.

IMPORTANT: Always release drive control bar before moving shift lever into another position.



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 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.

CULTIVATING

- Use the forward rotating tine drive when cultivating, tilling soft ground or tilling pre-tilled soil.
- Release depth and drag stake pins.
 Lower drag stake. Pull the depth stake up for increased tilling depth. Place proper pin in hole of depth stake or drag stake to lock in position.
- Place shift lever indicator in forward rotating 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.
- Always lower the drag stake when using the forward rotating tine drive.

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

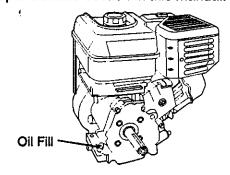
- · Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

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 overlowing when engine is level. For approximate capacity see "PRODUCT SPECIFICATIONS" 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 40°F (4°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.

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.

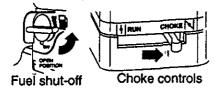
Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE

ACAUTION: Keep drive control bar in "DISENGAGED" position when starting enquine.

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 starting.

- Move throttle control to desired running position.
- Allow engine to warm up for a few minutes before engaging tines.

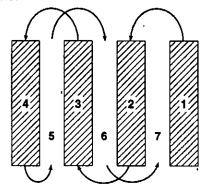
NOTE: If at a high altitude (3000 feet) or in cold temperatures (below 40°F), the carburetor fuel mixture may need to be adjusted for best engine perfomrance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual. NOTE: If engine does not start, see troubleshooting points.

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 furthe, 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.

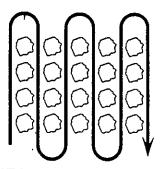
Do not lean on handle. This takes
weight off the wheels and reduces raction. To get through a really tough section of sod or hard ground, apply upward
pressure on handle or lower the depth
stake.



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.
- Do not lean on handle, this takes weight off the wheels, reduces traction, and may cause the tiller to skip over the ground.
- Always lower the drag stake when using the forward rotating tine drive.



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.

MAINTENANCE

MAINTENANCE SCHEDULE		EN TONE ENC.	38 34 34 34 34 34 34 34			7						
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE			87 1 0 1 S				SE	ERVI	CE 1	DAT	ES	
Check Engine Oil Level	~	1										
Change Engine Oil				1,2	i		t					
Oil Pivot Points		~										
Inspect Spark Arrester / Muffler				1								
Inspect Air Screen	~											
Clean or Replace Air Cleaner Cartridge				V ₂								
Clean Engine Cylinder Fins				>								
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.

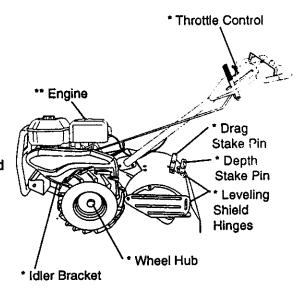
BEFORE EACH USE

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

LUBRICATION

Keep unit well lubricated (See "LUBRICATION 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.

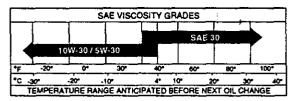
Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt, and debris.

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.

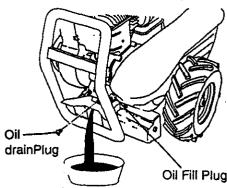
Change the oil after every 50 hours of operation or at least once a year if the tiller is not used for 50 hours in one year.
Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil or equivalent. Tighten oil iller plug securely each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

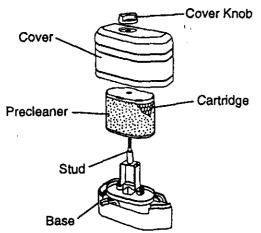
TO SERVICE PRE-CLEANER

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

TO SERVICE CARTRIDGE

- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, cover with pre-cleaner and secure with knob.

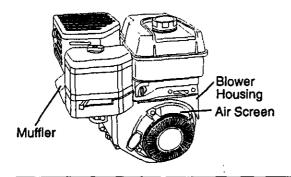
IMPORTANT: Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.



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

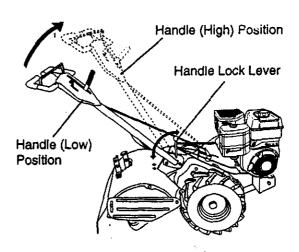
ACAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

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.



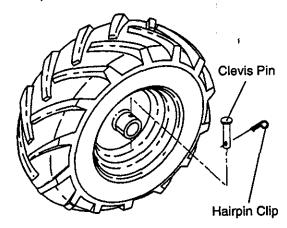
TIRE CARE

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

- Maintain 20 pounds of air 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

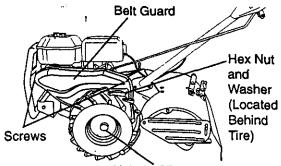
- Place blocks under transmission to keep tiller from tipping.
- Remove hairpin clip and clevis pin from wheel.
- · Remove wheel and tire.
- · Repair tire and reassemble.



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.



Hairpin Clip and Clevis Pin

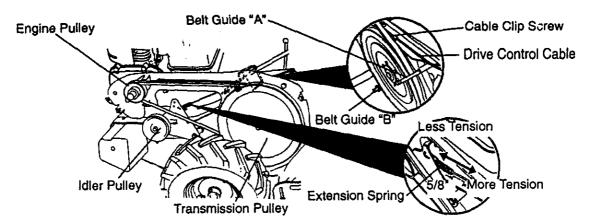
TO REPLACE GROUND DRIVE BELT

- 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. BELT 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:

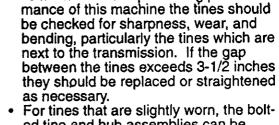
- Loosen cable clip screw securing the drive control cable.
- Slide cable forward for less tension and rearward for more tension until about 5/8 inch stretch is obtained while the drive control bar is engaged.
- Tighten cable clip screw securely.



TINE REPLACEMENT

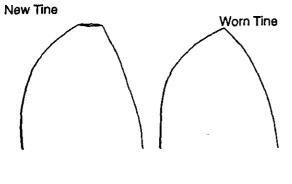
ACAUTION: Tines are sharp. Wear gloves or other protection when handling tines.

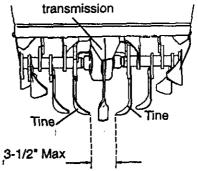
A badly worn tine causes your tiller to work harder and dig more shallow. Most important, worn tines cannot chop and shred organic matter as effectively nor bury it as deeply as good tines. A tine this worn needs to be replaced.

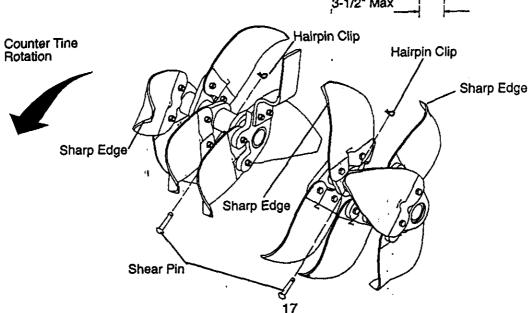


· To maintain the superb tilling perfor-

For tines that are slightly worn, the bolted tine and hub assemblies can be switched between sides to continue tilling in the same tilling mode. If tilling in a different mode is desired then the bolted tine and hub assemblies should be switched back to their original side so that the tine edge with the least wear will be used.





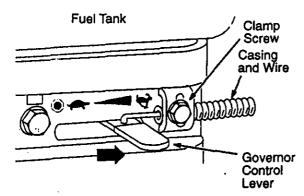


ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road 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 Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or tank during storage. also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

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

ENGINE OIL

Drain oil (with engine warm) and replace with clean oil. (See "ENGINE" in the Customer Responsibilities 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

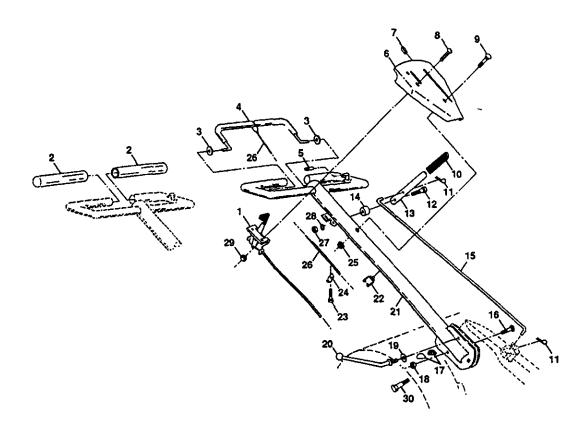
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. 	 Fill fuel tank. See "TO START ENGINE" in the Operation section. Wait several minutes before
	4. Dirty air cleaner.	attempting to start. 4. Clean or replace air cleaner car tridge.
	5. Water in fuel.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

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, muf fler area. Remove and clean muffler. Adjust carburetor to richer position.
Excessive bounce/ difficult handling	Ground too dry and hard. Depth stake incorrectly adjusted.	 Moisten ground or wait for more favorable soil conditions. Adjust depth stake.
Soil balls up or clumps	Ground too wet.	Wait for more favorable soil conditions.
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.
Tines skip over ground	Drag Stake not lowered in forward rotating till mode. Improper tilling mode.	Lower Drag Stake Forward rotating tine drive should only be used for soft ground or for soil that has already been tilled.

REPAIR PARTS

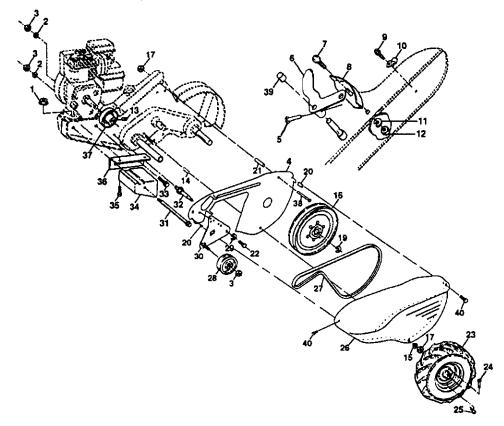
TILLER - - MODEL NUMBER 917.293320

HANDLES



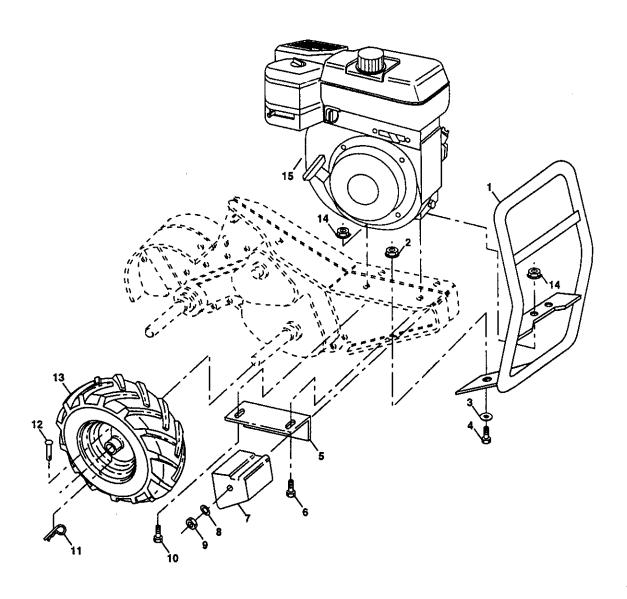
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13	164743 141406 110673X 127254X 6712J 137119 110641X 71191008 72010520 110646X STD624003 81328 138295 109313X	Throttie, Control Grip, Handle Grommet, Handle Bar, Drive Control Assembly Cap, Vinyl Panei, Control Bushing, Split *Screw, Pan Head #10-24 *Bolt, 5/16-18 x 2-1/2 Handle, Grip *Clip, Halrpin Bolt, Shoulder Handle, Shift Grommet, Rubber	18 19 20 21 22 23 24 25 26 27 28 29 30	STD541437 19131611 109228X 150628 165197 86777 9484R 73970500 110675X STD541025 STD551125 STD541462 150696	*Nut, Centerlock 3/8-16 Washer 13/32 x 1 x 11 Ga. Lever, Lock, Handle Handle, Assembly Clip, Plastic, Cable Screw, Hex, Washer Hd, Slotted #10-24 x 1/2 Clip Locknut, Hex, Flange Clutch, Cable *Nut, Hex 1/4-20 *Washer, Lock 1/4 *Nut, Keps #10-24 Bolt, Pivot
15 16 17	110702X STD533710 109229X	Rod, Shift *Bolt, Carriage 3/8-16 x 1 Gr. 5 Lock, Handle			WARE PURCHASE LOCALLY t dimensions given in U.S. inches.

MAINFRAME, LEFT SIDE



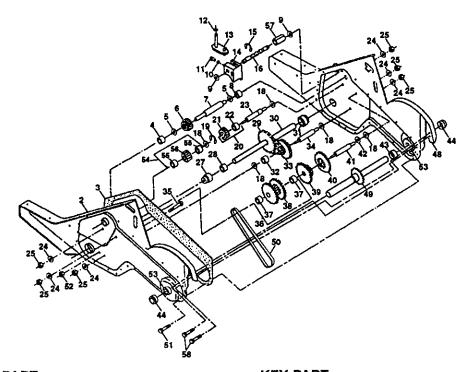
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	STD541431	Nut, Keps 5/16-18	24	126875X	Rivet, Drilled
2	STD551137	*Washer, Lock 3/8	25	STD624003	*Clip, Hairpin
3	STD541037	* Nut, Hex 3/8-16	26	165501X558	
4	165710	Shield Inner	27	132801	Belt, V
5	164329	Pin Shift Lever	28	104679X	Pulley, Idler
6	162756X505	Lever, Shift	29	12000032	Ring, Klip
7	STD532505	*Bolt, Carriage 1/4-20 x 1/2 Gr. 5	30	159229	Bracket, Idler
8	161530	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	*Bolt, Hex 3/8-16 x 1
10	9484R	Clip	34	102383X	Counterweight, L.H.
11	STD551125	*Washer, Lock 1/4	35	74760532	Bolt, Hex 5/16-18 x 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 0.327 x 0.42 x 2.09	39	140062	Cap, Plunger
15	STD551031	*Washer 11/32 x 11/16 x 16 Ga.	43	74760544	Bolt Hex 5/16-18 x 2
16	145102	Sheave, Transmission	44	74770508	Bolt Hex 5/16-2-1/2
17	STD541031	*Nut, Hex 5/16-18	45	165504	Nut, Clip
19	12000028	Ring, Retainer	46	165503	Screw, #8-18 x 1/2
21	156117	Spacer, Split 0.327 x 0.42 x 1.220	*STAN	DARD HARDY	VARE PURCHASE LOCALLY
23	102190X	Tire			
	124258X	Rim	MO1E:		nt dimensions given in U.S. inches.
	795R	Tire Valve		1 inch = 25.4) ITIEIT

TILLER - - MODEL NUMBER 917.293320 MAINFRAME, RIGHT SIDE



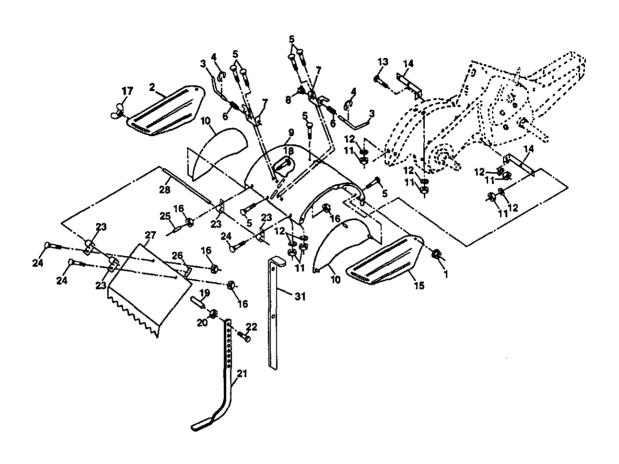
KE	Y PART		KEY PART	
NO	. NO.	DESCRIPTION	NO. NO.	DESCRIPTION
1	166532	Bumper	12 126875X	Rivet, Drilled
2	73970500	Locknut, Hex, Flange 5/16-18	13 102190X	Tire
3	STD551031	*Washer 11/32 x 11/16 x 16 Ga.	124258X	Rim
4	74760512	Bolt, Hex 5/16-18 x 3/4	795R	Tire Valve
5	102332X	Bracket, Reinforcement	14 STD541431	*Nut, Keps 5/16-18
6	74760532	Bolt, Hex 5/16-18 x 2	15	Engine, (See Breakdown)
7	102173X	Counter Weight, R.H.		Craftsman Model No.
8	STD551137	*Washer, Lock 3/8		121432, Type No. 0124-E1
9	STD541037	*Nut, Hex 3/8-16	STANDARD HARD	WARE PURCHASE LOCALLY
10	74760524	Bolt, Hex 5/16-18 x 1-1/2	NOTE: All compone	ent dimensions given in U.S.inches.
11	STD624003	*Clip, Hairpin	1 inch = 25.	4 mm

TRANSMISSION



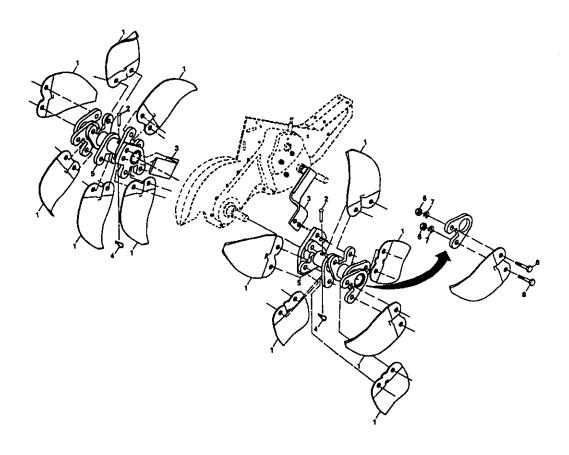
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	161509	Transmission Assembly	31	143008	Bearing, Shaft, Ground Drive R.H.
		(Includes Key Nos. 2-52)	32	106388X	Spacer 0.70 x 1.00 x 1.150
2	161510	Gearcase, L.H. w/Bearing	33	102121X	Sprocket and Gear Assembly
_		(Includes Key No. 4)	34	102112X	Shaft, Reduction (2nd)
3	161963	Gasket, Gearcase	35	102101X	Screw, Whiz, Lock 5/16-18 x 3-1/2
4	5020J	Bearing, Needle	36	161524	Sprocket Assembly w/Bearing
5	1370H	Washer, Thrust 5/8 x 1.10 x 1/32			(includes Key Nos. 37 and 38)
6	161520	Pinion, Input	37	1004131K	Bearing, Needle
7	161518	Shaft, Input	38	161525	Sprocket, Tine
8	4895H	Bearing, Needle	39	161526	Gear, Cluster, Red 1st & 2nd
9	154467	Washer, Seal	40	105346X	Gear, Reverse
10	7392M	Ball, Steel	41	161523	Shaft, Reduction (1st)
11	100371K	Spring, Shift, Fork	42	4220R	Washer, Thrust
12	106160X	O-Ring	43	106146X	Spacer 1.01 x 1.75 x 0.760
13	142145	Arm, Shift	44	155236	Seal Asm. Oll
14	8353J	Fork, Shift	48	161511	Gearcase, R.H. w/Bearing
15	12000039	Ring, Klip			(Includes Key No. 8)
16	161516	Shaft, Shift	49	132688	Shaft, Tine
18	4358J	Washer	50	106147X	Chain, Roller #50-50 Pitch
19	12000040	Ring, Kiip	51	17720408	Screw 1/4-20 x 1/2
20	102114X	Gear, Assembly, Reverse Idler	52	73220500	* Nut, Hex 5/16-18
		(Includes Key Nos. 21 and 22)	53	165140	Bearing Kit, Tine Shaft
21	102115X	Gear, Reverse Idler	54	161528	Gear, DRT Idler w/Bearing
22	6803J	Bearing, Needle			(Includes Key No. 55)
23	161527	Shaft, Reverse Idler	55	3400R	Bearing, Needle
24	STD551143	* Washer, Lock 7/16	56	161529	Gear, DRT Idler
25	STD541143	* Nut, Hex 7/16-20	57	165889	Spacer, Split .52 x .64 x 1.04
27	143009	Bearing, Shaft, Ground Drive L.H.	58	17720412	Screw 1/4-20 x 3/4
28	106390X	Spacer 0.765 x 1.125 x 1.23	+ -	6066J	Grease, Plastilube #1
29	102134X	Chain #35-50 Pitch	-		RDWARE PURCHASE LOCALLY
30	150737	Ground Shaft Assembly	NOT	•	nent dimensions given in U.S.inches.
				1 inch = 25	5.4 mm

TINE SHIELD



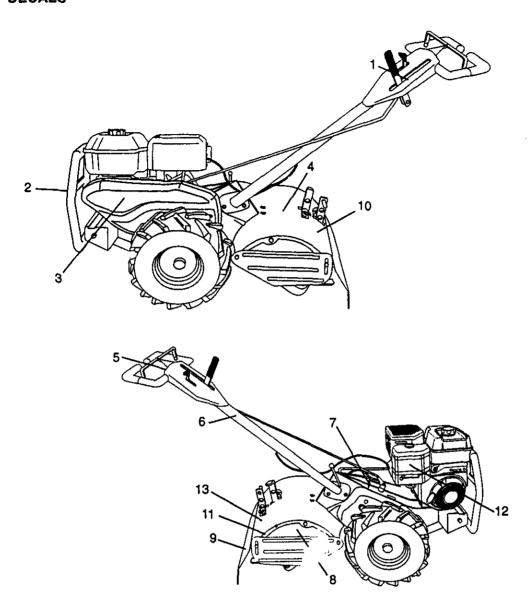
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	98000129	Nut, Flange 5/16-18	17	162175	Nut, Wing Forged 5/16-18
2	161415X558	Shield, Side, Outer L. H.	18	STD532512	*Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5
3	8393J	Pin, Stake, Depth	19	102701X	Grip
4	12000036	Ring, Klip	20	STD541037	*Nut, Hex 3/8-16
5	STD533107	*Bolt, Carriage 5/16-18 x 3/4 Gr 5	21	102156X	Stake, Depth
6	8394J	Spring	22	74930632	Bolt, Hex 3/8-16 x 2
7	8392J	Bracket, Latch	23	4440J	Hinge
8	109230X	Spring, Depth Stake	. 24	72140404	*Bolt, Carriage 1/4-20 x 1/2
9	163496X558	Shield, Tine	25	6712J	Cap, Vinyl
10	104085X558	Shield Asm	26	109227X	Pad, Idler
11	STD541031	*Nut. Hex 5/16-18	27	163497X558	Shield, Leveling
12	STD551131	*Washer, Lock 5/16	28	120588X	Pin, Hinge
13	72110510	Bolt, Carriage 5/16-18 x 1-1/4	31	163498X417	Stake, Drag
14	124343X	Bracket, Shield Tine	* STA	NDARD HARD	WARE PURCHASE LOCALLY
15	161414X558	Shield, Side, Outer R.H.			nt dimensions given in U.S. Inches
16	73510400	Nut, Hex 1/4-20			25.4 mm

TINE ASSEMBLY

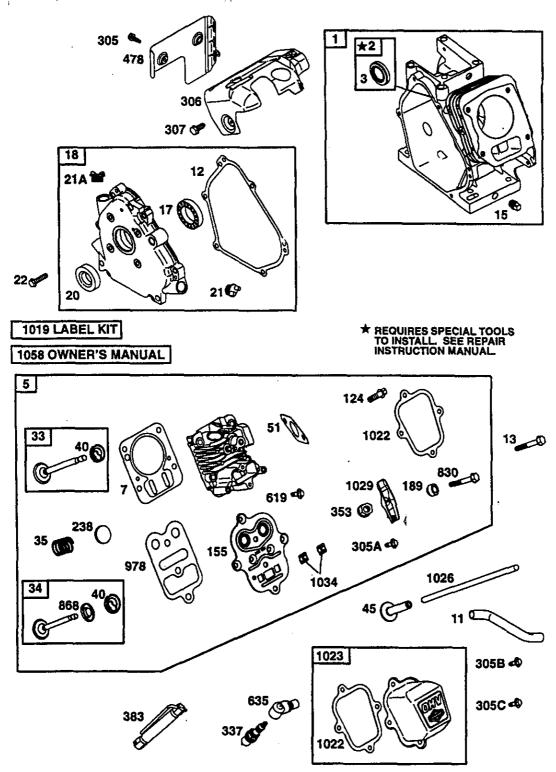


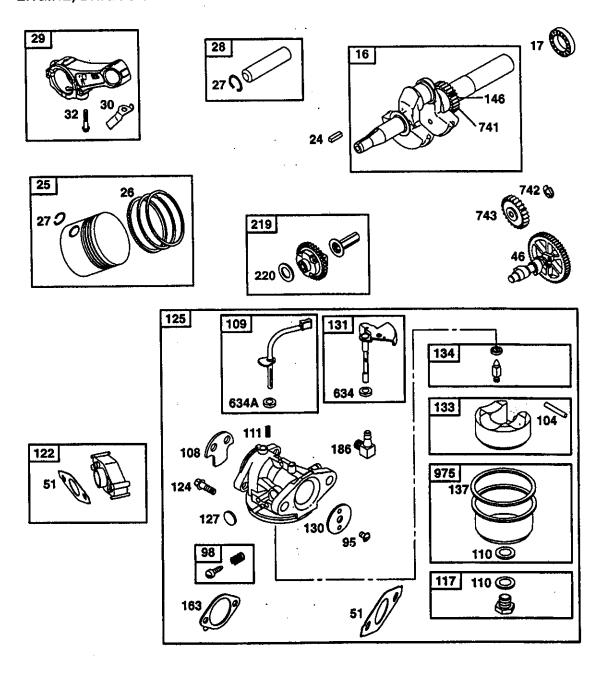
KEY	PAKI		VC1	PARI			
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION		
1	163499	Tine, Spade	6	73610600	Nut, Hex 3/8-24		
2	132673	Pin, Shear	7	STD551137	*Washer, Lock 3/8		
3	163500	Tine, Cleaning	8	74610616	Bolt, Hex 3/8-24 x 1		
4	163552	*Clip, Hairpin	* STANDARD HARDWARE PURCHASE LOCALLY				
5	163926	Assembly, Hub and Plate	NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm				

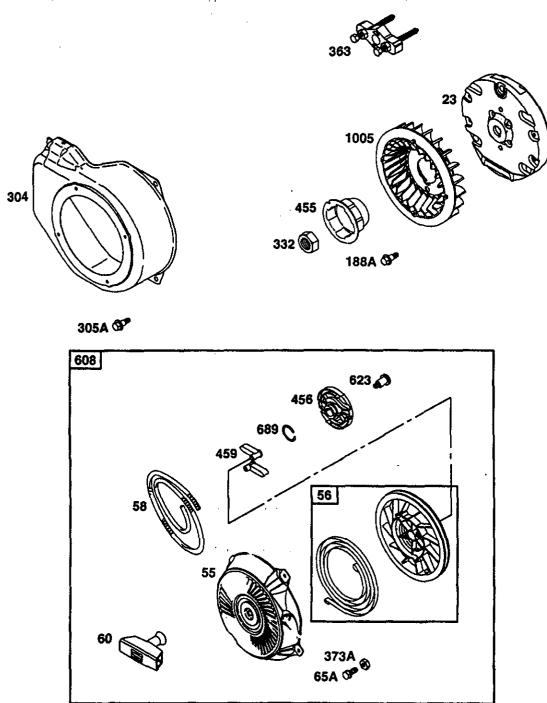
DECALS

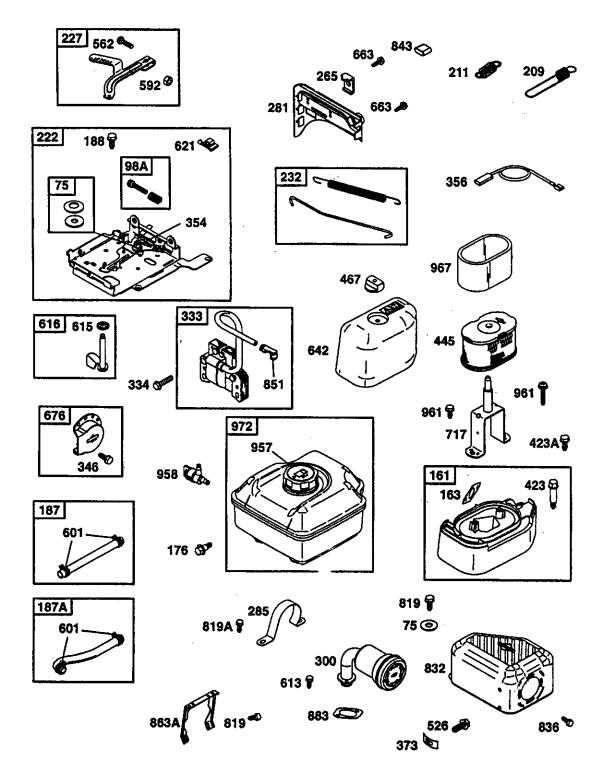


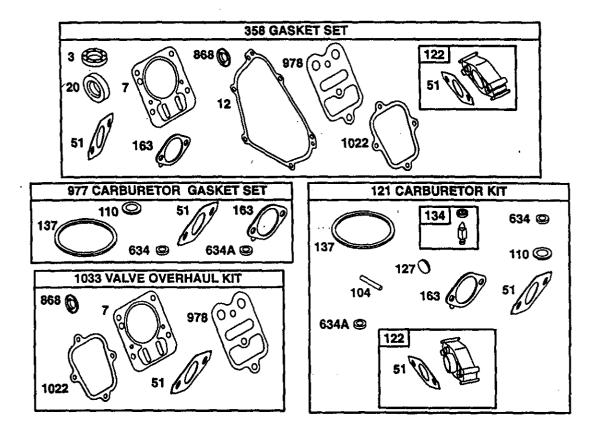
KEY PART					
NO.	NO.	DESCRIPTION			
1	164709	Decal, Logo			
2	145023	Decal, Logo			
3	166186	Decal, Logo			
4	166187	Decal, Description			
5	137538	Decal, Caution, Drive Control			
6	120431X	Decal, Hand Placement			
47	166202	Decal, Shift Indicator			
8	166188	Decal, Tine, Shield, Counter Rotating Tines			
9	120075X	Decat, Warning, Rotating Tines			
10	165836	Decal, Tine Drag Stake			
11	162215	Decal, Tine, Shield, Warning Dom			
12	166138	Decal, Oper/Lub Instructions			
13	165837	Decal, Tine Depth Stake			
	165984	Manual, Owner's (English/Spanish)			











	•	,			•
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	690045	Cylinder Assembly	109	693628	Choke Shaft
2	399269	Bushing, Cylinder	110	+0	Washer, Seal (Sold in Kit
3	299819 *	Seal, Oil			Only)
5	693643	Head, Cylinder	111	262715	Spring Friction (Choke)
7	273489 A*	Gasket, Cylinder Head	117	690048	Jet, Main (Standard)
11	693647	Tube, Breather	121	690032	Carburetor kit
12		Gasket, Crankcase	122	690043 *	Spacer, Carburetor
13	95049	Screw, Cylinder Head	124	692568	Screw, Carburetor
15	94916	Plug, Oil Drain	125	693518	Carburetor
16	693403	Crankshaft	127	•	Plug, Welch (Sold in Kit Only)
17	498185	Bearing, Bali	130	223470	Vaive, Throttle
18	693204	Cover-Crankcase	131	690024	Shaft Throttle
20		Seal, Oil	133	398187	Float Carburetor
21	281658	Cap, Oil Fill	134	398188	Valve, Needle
21A	693463	Cap,Oil Fill	137		Gasket Float Bowl (Sold In Kit
22	692551	Screw, Crankcase Cover			Only)
23	692987	Flywheel	146	94388	Key, Timing
24	222698	Key, Flywheel	155	225430	Plate, Cylinder Head
25	499627	Piston Assembly (Std.)	161	693459	Base, Air Cleaner
	692788	Piston Assembly, .010" O/S	163	272948 ◆●★	Gasket, Air Cleaner
	692789	Piston Assembly, .020" O/S	176	94905	Screw, Shoulder
	692790	Piston Assembly, .030" O/S	186	493496	Connector, Hose
26	499631	Ring Set, (Std.)	187	298049	Line, Fuel (Cut to Required
	692785	Ring Set, .010" O/S			Length)
	692786	Ring Set, .020" O/S	187A	692601	Line, Fuel (Molded)
	692787	Ring Set, .030" O/S	188	94644	Screw, Control Bracket
27	263190	Lock, Piston Pin	188A	692590	Screw, Shoulder
. 28	499423	Pin, Piston	189	263108	Ball, Rocker Arm
29	690124	Rod, Connecting	209	693710	Spring, Governor
30	225279	Dipper, Connecting Rod	211	693710	Spring, Governor Idle
32	94699	Screw, Connecting Rod	219	693578	Gear Governor
33	499642	Valve, Exhaust	220	221551	Washer -Thrust
34	499641	Valve, intake	222	693405	Bracket, Control
35	263149	Spring, Valve	227	499506	Lever, Governor
40	93312	Retainer, Valve	232	693408	Spring, Link, Mechanical
45	262679	Tappet, Valve			Governor
46	693404	Camshaft	DDM C	Sattleman I aven	1650 4050. U!-b. 2500 2700
51	692555 ★●◆△	Gasket, Intake	HPM 3	ettings Low:	1650-1850; High: 3500-3700.
55	497442	Housing, Rewind Starter	- inch	udad in Gaeka	Set, Ref Number 358.
56	498144	Pulley, Starter	× IIICII	uueu III Gaske	364, nei Hulliber 330.
58	280399	Rope, Starter	A Inci	luded in Carbu	retor Kit, Ref Number 121.
60	281101	Grip, Starter Rope		idded iii Caibu	retor Aug mer Humber 121.
65	692608	Screw, Hex.	▲ Incl	udad in Carbu	etor Gasket Set, Ref Number
65A	94904	Screw, Hex.	977.		etor dasket set, her Hulliber
75	495659	Washer, Set	arr.		
95	94098	Screw, Choke/Slotted	A Incl	ided in Value (Verhaul Kit, Ref Number
98	398185	Screw, Idle Speed	1033.		rranieur ing nei Hullisei
98A	493280	Screws Idle Speed	1000	•	
104		Pin, Float Hinge	NOTE	: All componer	nt dimensions are given in U.S.
108	223471	Valve, Choke		. All componers. 3. 1 inch = 25.	
			11 10 100		7 710037

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 121432, TYPE NO. 0124-E1

,,,,,	,		1,				-,
KEY	PART			KEY	PART		
NO.	NO.		DESCRIPTION	NO.	NO.		DESCRIPTION
							·
238	263131		Cap, Valve	743	692566		Gear, Idler
265	221535		Clamp, Casing	819	692598		Screw, Muffler Strap
281	693407		Panel, Control	819A		:	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"	863A	692596		Bracket, Muffler
			Long	868	498592	$\Delta \star$	Seal, Valve
305C	94786		Screw,Rocker Cover 7/16"	883	272309		Gasket, Exhaust
			Long	957	493988		Cap, Fuel Tank
306	693610		Shield, Cylinder	958	692586		Valve, Shutoff
307	94515		Screw, Cylinder Shield	961	963598		Screw, Air Cleaner Bracket
332	94877		Nut, Flywheel	967	273356		Filter, Air Pre-Cleaner
333	692605		Armature, Magneto	972	692587		Tank, Fuel
334	94731		Screw, Armature Magneto	975	493640		Bowi, Float
337	491055		Spark Plug	977	690033		Gasket Set, Carburetor
346	94896		Screw	978	273346		Gasket,Plate
353	95137		Nut-Hex	1005	692592	Δ×	Fan, Flywheel
354	692575		Nut, Lock	1019	690035		Label Kit
356	398808		Wire, Stop	1019	273241	4.4	Gasket, Rocker Cover
358	690031		Gasket Set	1022	499924	Δ×	Cover, Rocker
363	19069		Flywheel Puller	1025	693517	4	-
373	692582		Nut, Clip	1029			Rod, Push
373A			Nut, Hex.		225246		Arm,Rocker
383	19374		Wrench, Spark Plug	1033	690034		Kit, Valve Overhaul
423	94655		Screw, Air Cleaner Base	1034	281621		Guide, Push Rod
423A			Screw, Air Cleaner Base	1058	273700		Owner's Manual
445	498596		Filter A/C Cartridge				Replacement Engine 121432-
455	225457		Cup, Flywheel				0036-E2
456	281503		Retainer, Spring				Replacement S/B not available at this time
459	281505		Pawl, Ratchet				at tills titlig
467	493903		Knob, Air Cleaner	DDM 6	Cottings I	~ '	1650-1850; High: 3500-3700.
478	693709		Panel	nrme	ettings L	OW:	iesu-iesu; nign: ssuu-sruu.
526	94974		Screw	Li Inoli	udod in Co	مداه	Set, Ref Number 358.
562	94852		Bolt, Governor Lever	n inçii	uded III Ga	SKUL	Sel, Rei Mulliper 350.
592	231082			l look	alad la Car	.b	tor Vit Bef Number 404
601	93053		Nut, Governor Lever	i incit	ided in Car	Dure	tor Kit, Ref Number 121.
608	497830		Clamp, Hose Starter, Rewind	Imalı			stan Controt Cat. But Number
						rbure	tor Gasket Set, Ref Number
613	94706		Screw, Muffler Mounting	977.			
615	94672		Retainer, Governor	A formula	and and the beaut		
616	692547		Crank, Governor			ue U	verhaul Kit, Ref Number
619	94744		Screw, Cyl. Head Plate	1033.			
621	396847		Switch, Stop	NOTE			
623	94943		Screw, Shoulder				t dimensions are given in U.S.
634			Washer Sold in Kit Only)	inches	3. 1 inch =	25.4	mm
634A		79	Washer (Sold in Kit Only)				
635	805529		Boot, Spark Plug				
642	693460		Cover, Air Cleaner				
663	692577		Screw,Casing Clamp				
676	393757		Deflector, Muffler				
689	263073		Spring, Friction				
717	693462		Air Cleaner Bracket				
741	263157		Gear, Timing				
742	692564		Ring, Retaining				

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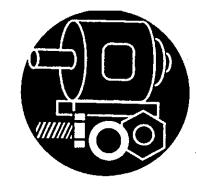
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- Model Number Part Description











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