

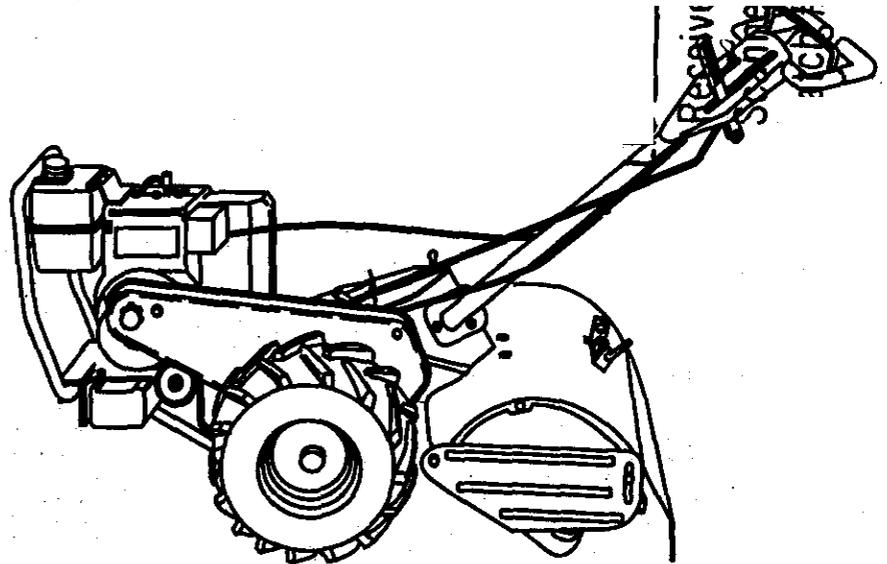
Owner's Manual

CRAFTSMAN®

**9.0 HP
21 INCH TINE WIDTH
REAR TINE WITH
COUNTER ROTATING TINES
TILLER**

Model No.
917.293340

- Safety
- Assembly
- Operation
- Maintenance
- Español
- Repair Parts



 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.

For answers to your questions about this product, Call:

1-800-659-5917

Sears Craftsman Help Line
5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, IL 60179
Visit our Craftsman website: www.sears.com/craftsman

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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

IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

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.

- 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.

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

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

▲ WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY:	4 QUARTS UNLEADED REGULAR
OIL (API-SF/SG/SH): (CAPACITY: 44 OZ.)	SAE 30 (ABOVE 32°F) SAE 3W-30 (BELOW 32°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

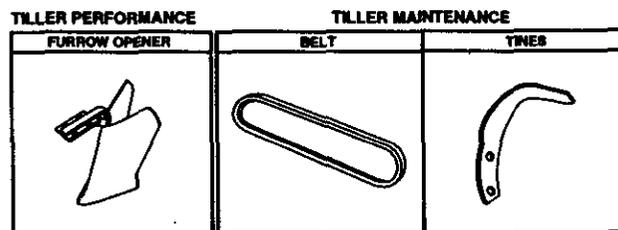
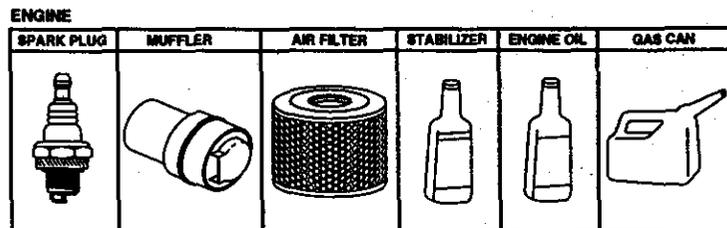
- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tiller.
- Follow the instructions under the "Maintenance" and "Storage" sections of this Owner's Manual.

⚠ 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.



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.

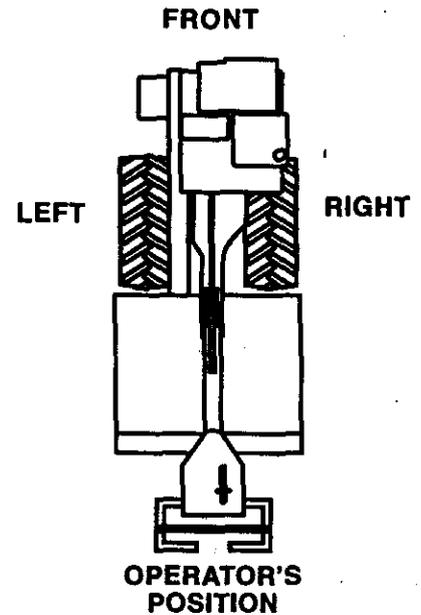
TOOLS REQUIRED FOR ASSEMBLY

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

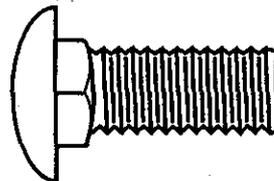
When right or left hand is mentioned in this manual, it means when you are in the operating position (standing behind tiller handles).



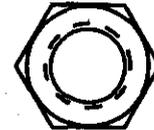
CONTENTS OF HARDWARE PACK



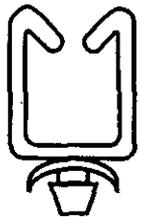
(1) Handle Locks



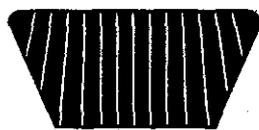
(1) Carriage Bolt
3/8-16 UNC x 1 Gr. 5



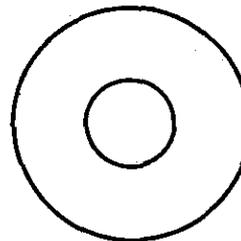
(1) Center Locknut
3/8-16 UNC



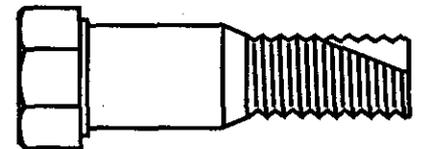
(1) Cable Clip



(1) Handle Lock
(Black)



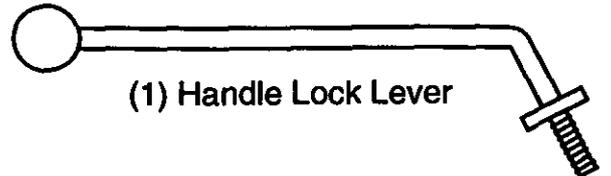
(1) Flat Washer
13/32 x 1 x 11 Ga.



(1) Pivot Bolt
3/8-16 UNC Grade 5



(2) Hairpin Clips



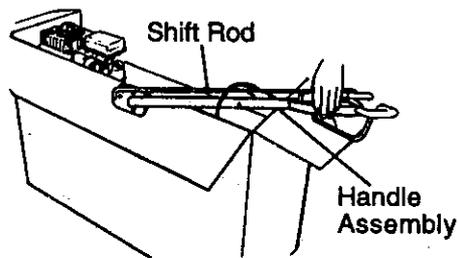
(1) Handle Lock Lever

UNPACKING CARTON

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

IMPORTANT: When unpacking and assembling tiller, be careful not to stretch or kink cables.

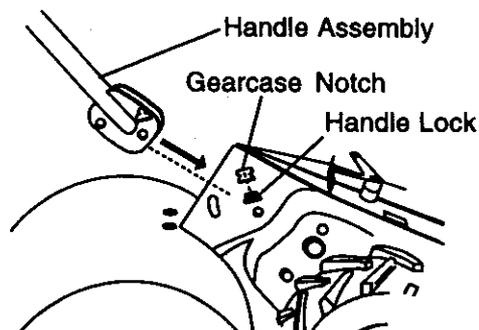
- While holding handle assembly, cut cable ties securing handle assembly to top frame. Let handle assembly rest on tiller.
- Remove top frame of carton.
- Slowly ease handle assembly up and place on top of carton.
- Cut down right hand front and right hand rear corners of carton. Lay side carton wall down.
- Cut down left hand rear corner of carton. Lay rear carton wall down, which will remove the protective cardboard flap from leveling shield.
- Remove packing material from handle assembly.



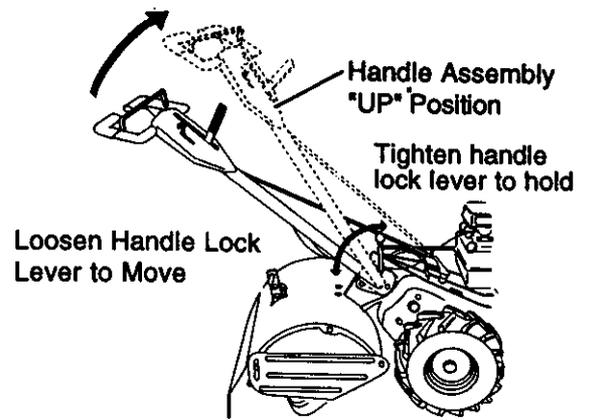
INSTALL HANDLE

- Insert the thicker black handle lock (with teeth facing to the right) in gearcase notch.
- Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.

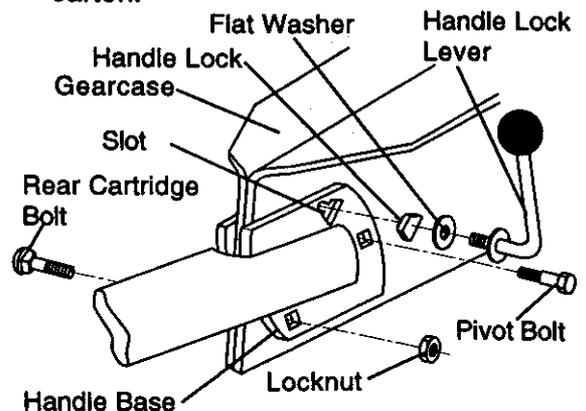
VIEWED FROM R.H. SIDE OF TILLER



- Rotate handle assembly down. Insert rear carriage bolt first, with head of bolt on L.H. side of tiller and loosely assemble locknut.

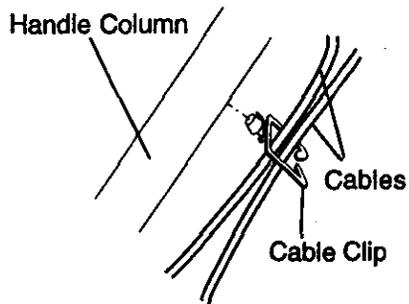


- Insert pivot bolt in front part of plate and tighten.
- Cut down remaining corners of carton and lay panels flat.
- Lower the handle assembly. Tighten nut on carriage bolt so handle moves with some resistance. This will allow for easier adjustment.
- Place flat washer on threaded end of handle lock lever.
- Insert handle lock lever through handle base and gearcase. Screw in handle lock lever just enough to hold lever in place.
- Insert the smaller silver handle lock (with teeth inward) in the slot of the handle base (just inside of washer).
- With handle assembly in lowest position, securely tighten handle lock lever by rotating clockwise. Leaving handle assembly in lowest position will make it easier to remove tiller from carton.



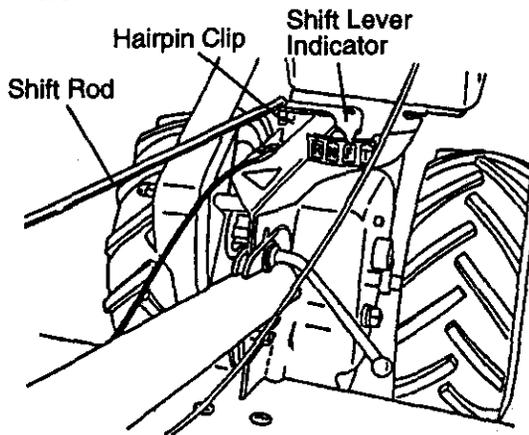
INSERT CABLE CLIP

- 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 with bend of clip on right side.



REMOVE TILLER FROM CRATE

- Make sure shift lever indicator is in "N" (neutral) position.
- Tilt tiller forward by lifting handle.
- 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 HANDLE HEIGHT" in the Service and Adjustments section of this manual).

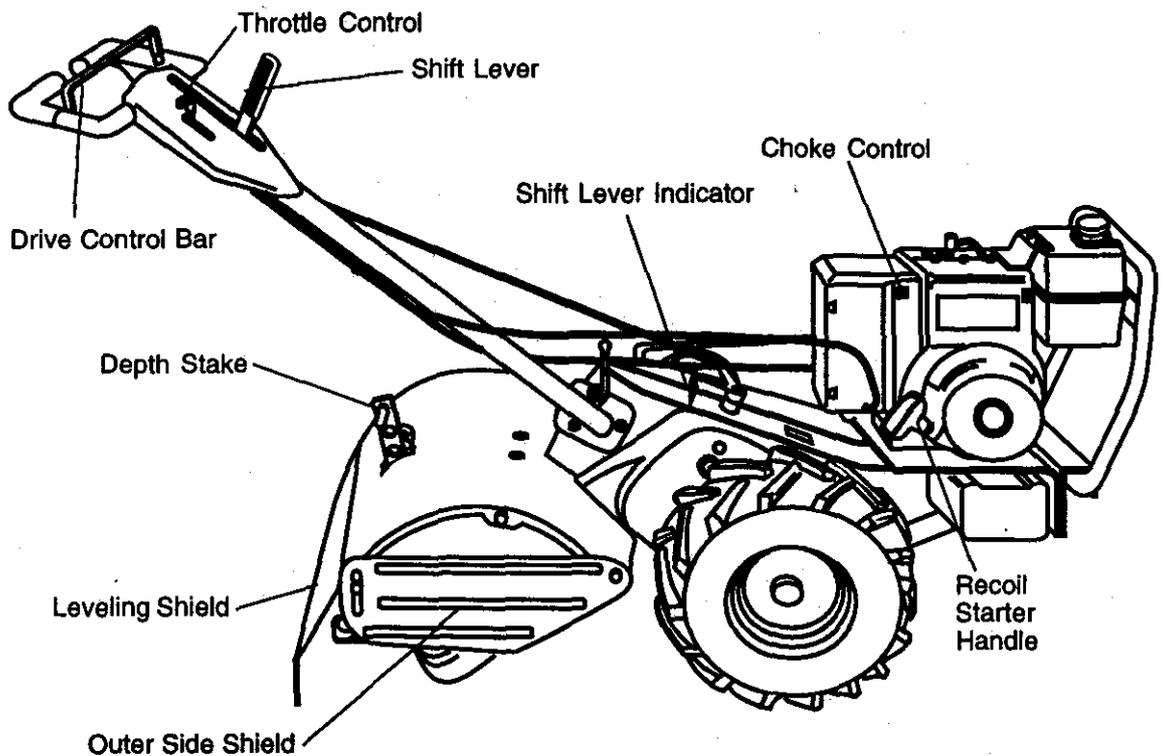
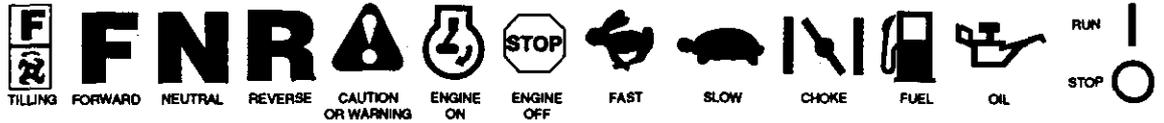
OPERATION

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.

CHOKE CONTROL - Used when starting a cold engine.



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

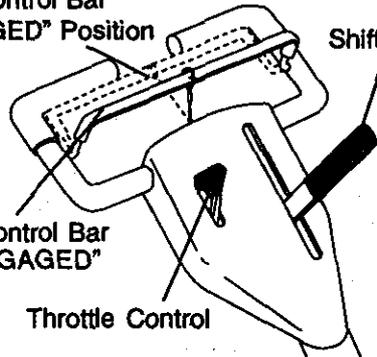
Drive Control Bar

"ENGAGED" Position

Shift Lever

Drive Control Bar
"DISENGAGED"
Position

Throttle Control



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 (N) 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.

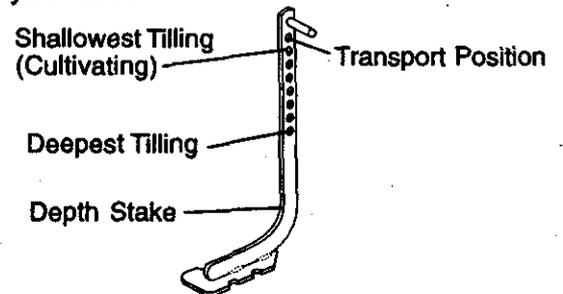
- Hold drive control bar against the handle to start tiller movement.

HARD TO SHIFT GEARS

- Briefly engage drive control bar and release or rock tiller forward and backward until are able to shift gears.

DEPTH STAKE

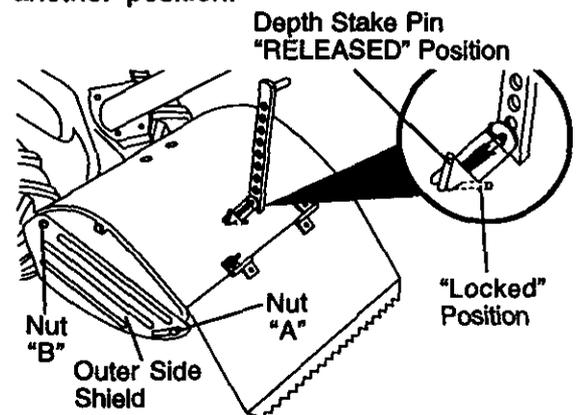
The depth stake can be raised or lowered to allow you more versatile tilling and cultivating, or to more easily transport your tiller.



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

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

AROUND THE YARD

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

AROUND TOWN

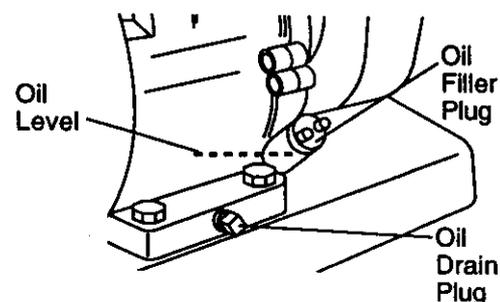
- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

BEFORE STARTING ENGINE

IMPORTANT: Be very careful not to allow dirt to enter the engine when checking or adding oil or fuel. Use clean oil and fuel and store in approved, clean, covered containers. Use clean fill funnels.

CHECK ENGINE OIL LEVEL

- The engine in your unit has been shipped, from the factory, already filled with SAE 30 summer weight oil.
- With engine level, clean area around oil filler plug and remove plug.
- Engine oil should be to point of overflowing 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 Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.



ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life.

IMPORTANT: When operating in temperatures below 32°F (0°C), use fresh, clean, winter grade gasoline to help insure good cold weather starting.

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

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

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

TO START ENGINE

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

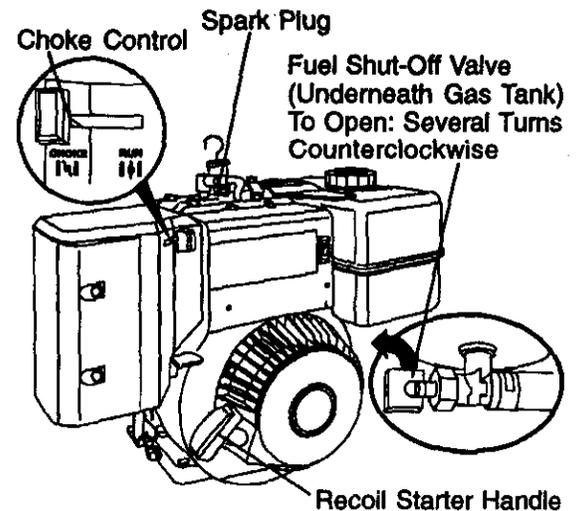
- Make sure spark plug wire is properly connected, and fuel shut-off valve is open.
- Move shift lever indicator to "N" (neutral) position.
- Place throttle control in "FAST" position.
- Move choke control to full "CHOKE" position. Grasp recoil starter handle with one hand and grasp tiller handle with 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. Repeat if necessary.
- 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.

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

NOTE: If engine does not start, see troubleshooting points.

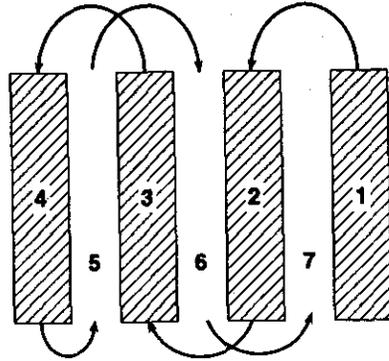


TILLING HINTS

CAUTION: Until you are accustomed to handling your tiller, start actual field use with throttle in slow position (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.

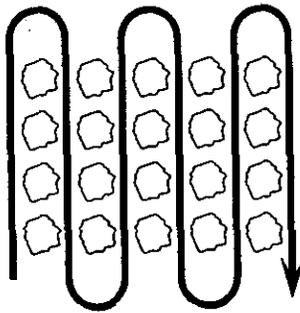
- Do not lean on handle. This takes weight off the wheels and reduces traction. To get through a really tough section of sod or hard ground, apply upward pressure on handle or lower the depth stake.



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.

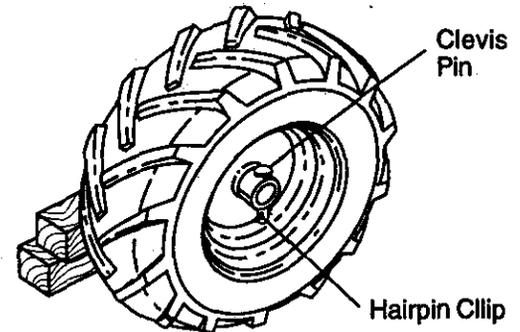
- If shear pin(s) break, replace only with those shown in the Repair Parts section of this manual.

ADJUST WHEELS FOR CULTIVATING

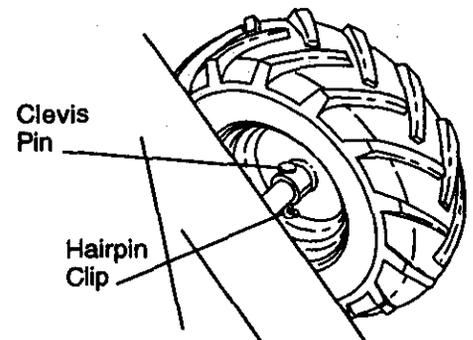
- Place blocks under right hand side of tiller and remove hairpin clip and clevis pin from right hand wheel.
- Move wheel outward approximately 1 inch until hole in inner wheel hub lines up with inner hole in axle.
- Replace clevis pin and hairpin clip on inside of wheel and remove blocks.
- Repeat preceding steps on left hand side.

NOTE: In extremely rough conditions and while cultivating, the wheels should be moved outward on the axle for increased stability.

OUTER VIEW OF TIRE



INNER VIEW OF TIRE



MAINTENANCE

MAINTENANCE SCHEDULE						SERVICE DATES														
	BEFORE EACH USE	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY SEASON															
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE																				
Check Engine Oil Level	✓	✓																		
Change Engine Oil				✓ _{1,2}																
Oil Pivot Points		✓																		
Inspect Spark Arrester / Muffler				✓																
Inspect Air Screen	✓																			
Clean or Replace Air Cleaner Cartridge				✓ ₂																
Clean Engine Cylinder Fins				✓																
Replace Spark Plug				✓																
RH Gear Case Grease Fitting (1oz.)					✓															

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.

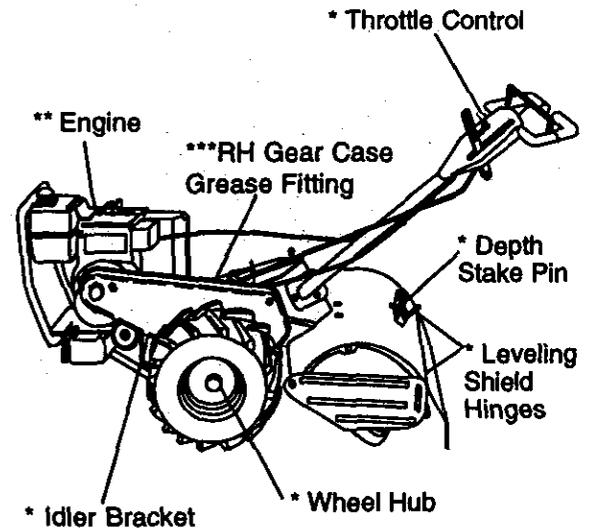
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



- * SAE 30 OR 5W-30 Motor Oil
- ** Refer to Maintenance "ENGINE" Section
- *** EP #1 Grease

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

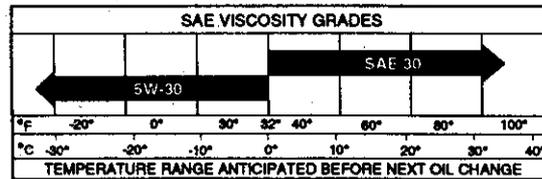
Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt, and debris.

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 32°F (0°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

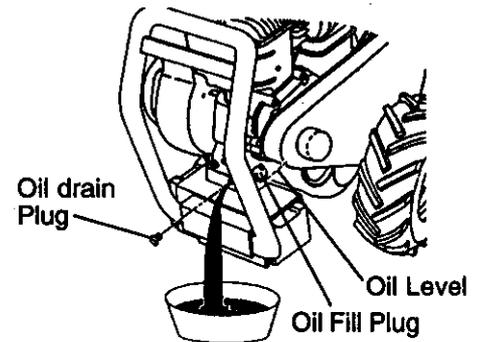
Change the oil after every 50 hours of operation or at least once a year if the tiller is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil or equivalent. Tighten oil filler plug securely each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



AIR FILTER

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 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.

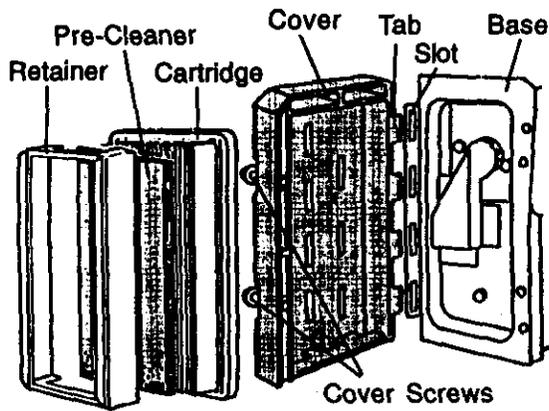
- Loosen air cleaner cover screws. Remove cover and air cleaner assembly from base.
- Remove air cleaner assembly from inside cover and disassemble.

TO SERVICE PRE-CLEANER

- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reassemble retainer on pre-cleaner and cartridge (screen side of pre-cleaner toward cartridge pleats). Place assembly into cover.
- Insert tabs on cover into slots in base and tighten cover screws securely.

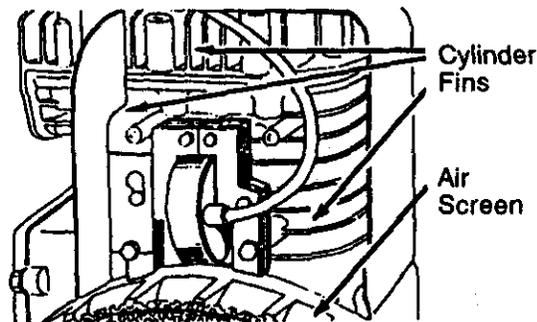


Dual Element/Cartridge Air Cleaner

COOLING SYSTEM

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

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



MUFFLER

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

SPARK PLUG

Replace spark plugs at the beginning of each tilling season or after every 50 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 4 of this manual.

TRANSMISSION

Once a season, lubricate the right hand gear case grease fitting with 1 oz. of EP #1 grease.

CLEANING

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

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

SERVICE AND ADJUSTMENTS

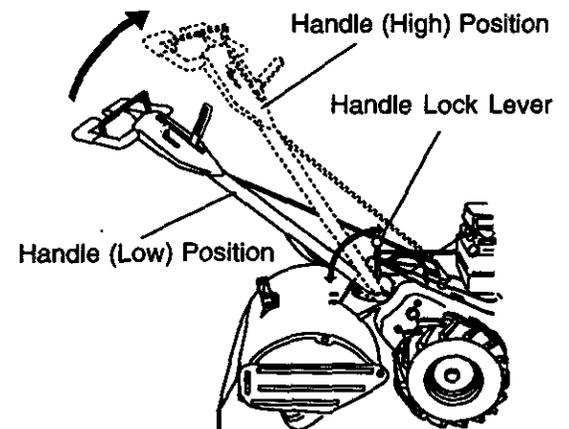
CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

TILLER

TO ADJUST HANDLE HEIGHT

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.



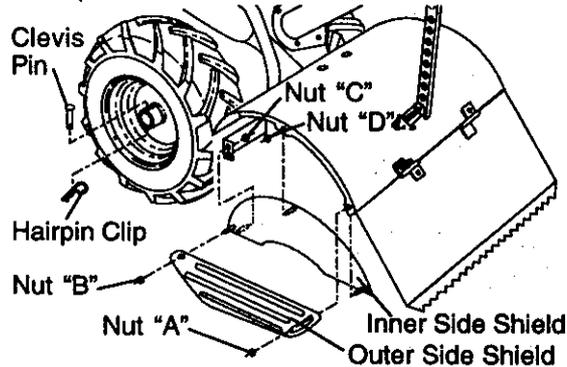
TIRE CARE

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

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

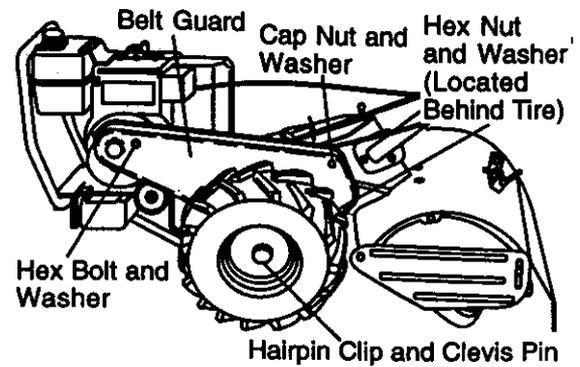
TO REMOVE WHEEL

- Place blocks under transmission to keep tiller from tipping.
- Remove 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

- Remove hairpin clip and clevis pin from left wheel. Pull wheel out from tiller about 1 inch.
- Remove cap nut and washer, and hex bolt and washer from side of belt guard.
- Remove hex nut and washer from bottom of belt guard (located behind wheel).
- Pull belt guard out and away from tiller.
- Replace belt guard by reversing above procedure.



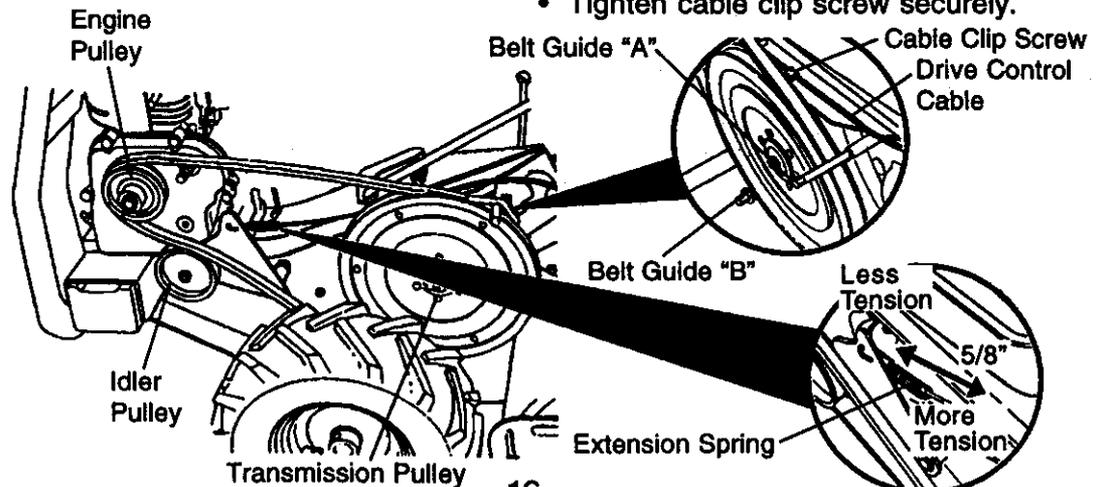
TO REPLACE GROUND DRIVE BELT

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

GROUND DRIVE BELT ADJUSTMENT

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.

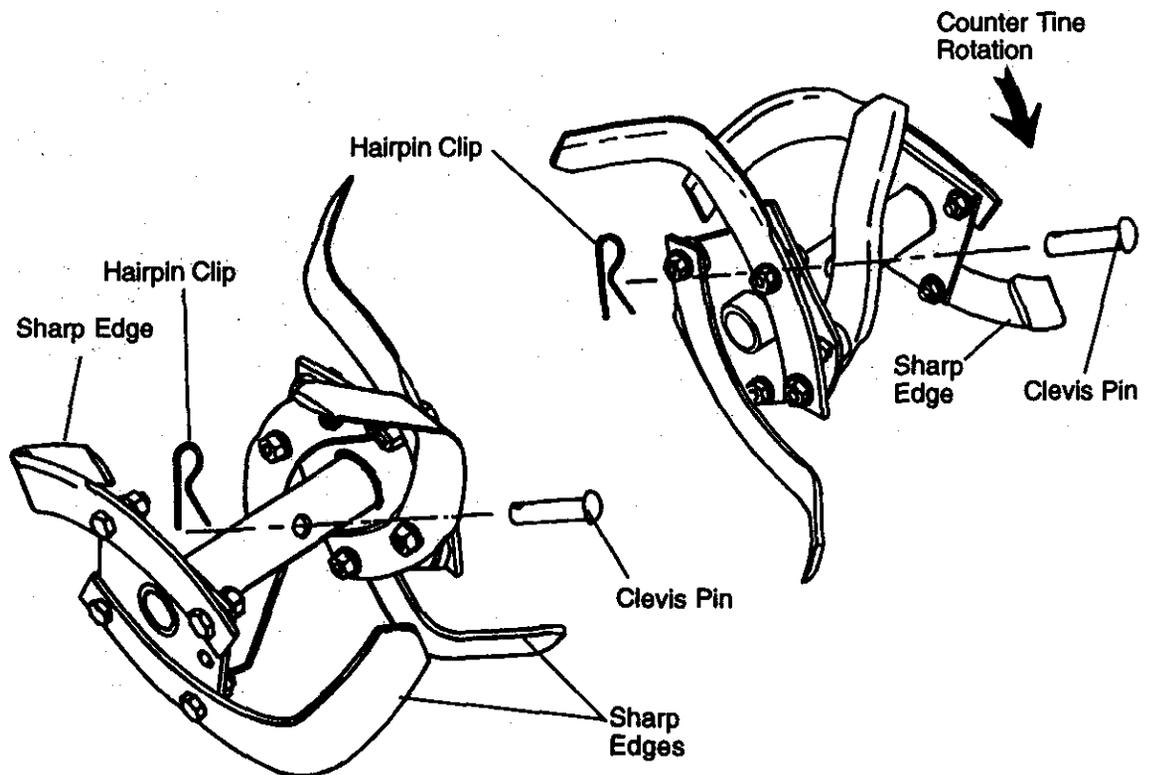
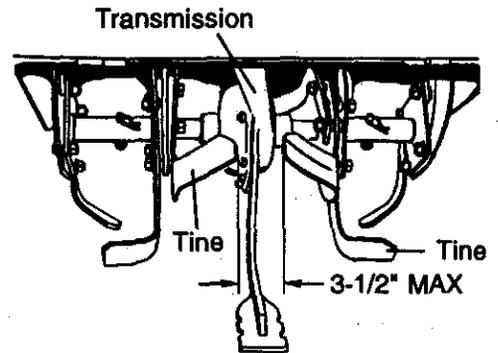
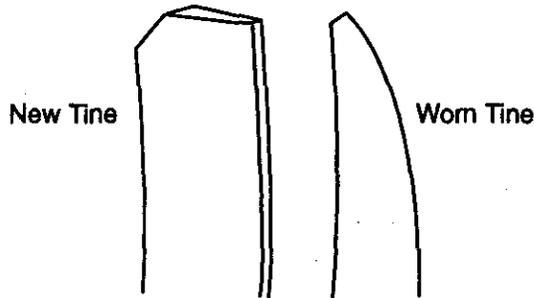


TINE REPLACEMENT

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

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

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

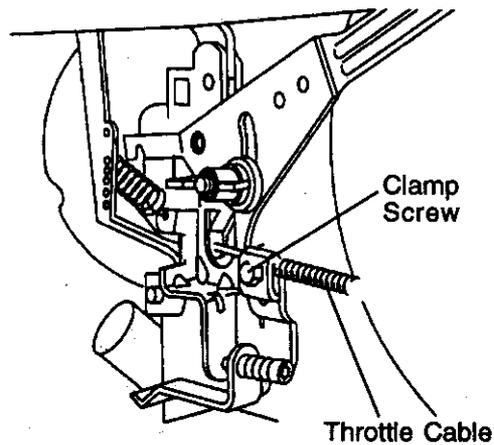


ENGINE

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

- Loosen cable clamp screw to allow cable to move.
- Move throttle control lever on upper handle to "FAST" position.
- Pull throttle cable out to end of travel
- Hold cable in this position and tighten clamp screw securely.



TO ADJUST CARBURETOR

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

IDLE RPM ADJUSTMENT

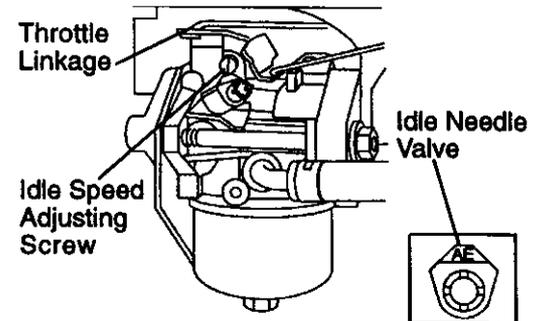
- To adjust idle RPM, rotate throttle linkage counterclockwise and hold against stop while adjusting idle speed adjusting screw to obtain 1750 RPM. Release throttle linkage.

ACCELERATION TEST

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

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

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest AUTHORIZED service center/department, which has 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.

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

TILLER

- Clean entire tiller (See "CLEANING" in the 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

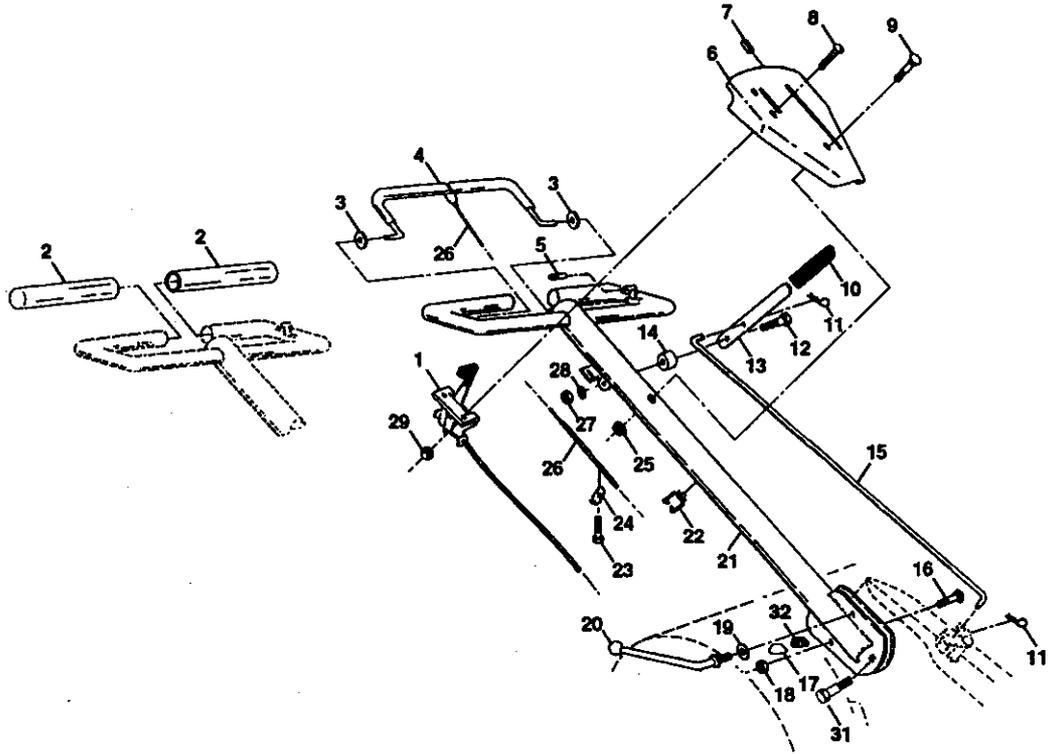
PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Dirty air cleaner. 5. Water in fuel. 6. Clogged fuel tank. 7. Loose spark plug wire. 8. Bad spark plug or improper gap. 9. Carburetor out of adjustment. 10. Fuel shut-off valve is closed. 11. Oil soaked air filter. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. See "TO START ENGINE" in the Operation section. 3. Wait several minutes before attempting to start. 4. Clean or replace air cleaner cartridge. 5. Drain fuel tank and carburetor, and refill tank with fresh gasoline. 6. Remove fuel tank and clean. 7. Make sure spark plug wire is seated properly on plug. 8. Replace spark plug or adjust gap. 9. Make necessary adjustments. 10. Open valve. 11. Replace air filter.
Hard to start	<ol style="list-style-type: none"> 1. Throttle control not set properly. 2. Dirty air cleaner. 3. Bad spark plug or improper gap. 4. Stale or dirty fuel. 5. Loose spark plug wire. 6. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Place throttle control in "FAST" position. 2. Clean or replace air cleaner cartridge. 3. Replace spark plug or adjust gap. 4. Drain fuel tank and refill with fresh gasoline. 5. Make sure spark plug wire is seated properly on plug. 6. Make necessary adjustments.
Loss of power	<ol style="list-style-type: none"> 1. Engine is overloaded. 2. Dirty air cleaner. 3. Low oil level/dirty oil. 4. Faulty spark plug. 5. Oil in fuel. 6. Stale or dirty fuel. 7. Water in fuel. 8. Clogged fuel tank. 9. Spark plug wire loose. 10. Dirty engine air screen. 11. Dirty/clogged muffler. 12. Carburetor out of adjustment. 13. Poor compression. 	<ol style="list-style-type: none"> 1. Set depth stake for shallower tilling. 2. Clean or replace air cleaner cartridge. 3. Check oil level/change oil. 4. Clean and regap or change spark plug. 5. Drain and clean fuel tank and refill, and clean carburetor. 6. Drain fuel tank and refill with fresh gasoline. 7. Drain fuel tank and carburetor, and refill tank with fresh gasoline. 8. Remove fuel tank and clean. 9. Connect and tighten spark plug wire. 10. Clean engine air screen. 11. Clean/replace muffler. 12. Make necessary adjustments. 13. Contact an authorized Sears Service Center/Department.

PROBLEM	CAUSE	CORRECTION
Engine overheats	<ol style="list-style-type: none"> 1. Low oil level/dirty oil. 2. Dirty engine air screen. 3. Dirty engine. 4. Partially plugged muffler. 5. Improper carburetor adjustment. 	<ol style="list-style-type: none"> 1. Check oil level/change oil. 2. Clean engine air screen. 3. Clean cylinder fins, air screen, muffler area. 4. Remove and clean muffler. 5. Adjust carburetor to richer position.
Excessive bounce/difficult handling	<ol style="list-style-type: none"> 1. Ground too dry and hard. 	<ol style="list-style-type: none"> 1. Moisten ground or wait for more favorable soil conditions.
Soil balls up or clumps	<ol style="list-style-type: none"> 1. Ground too wet. 	<ol style="list-style-type: none"> 1. Wait for more favorable soil conditions.
Engine runs but tiller won't move	<ol style="list-style-type: none"> 1. Tine control is not engaged. 2. V-belt not correctly adjusted. 3. V-belt is off pulley(s). 	<ol style="list-style-type: none"> 1. Engage tine control. 2. Inspect/adjust V-belt. 3. Inspect V-belt.
Engine runs but labors when tilling	<ol style="list-style-type: none"> 1. Tilling too deep. 2. Throttle control not properly adjusted. 3. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Set depth stake for shallower tilling. 2. Check throttle control setting. 3. Make necessary adjustments.
Tines skip over ground	<ol style="list-style-type: none"> 1. Drag Stake not lowered in forward rotating till mode. 	<ol style="list-style-type: none"> 1. Lower Drag Stake
Hard to shift into gear	<ol style="list-style-type: none"> 1. Gears not timed. 	<ol style="list-style-type: none"> 1. Briefly engage drive control bar and release or rock tiller forward and backward until are able to shift gears.
Tiller shuts off when drive control bar engaged	<ol style="list-style-type: none"> 1. Shift lever set in between counter rotating till position and forward rotating till position. 2. Tines jammed 	<ol style="list-style-type: none"> 1. Shift to either counter rotating till position or forward rotating till position. 2. Clear tines.

REPAIR PARTS

TILLER -- MODEL NUMBER 917.293340

HANDLES



KEY PART NO. NO.

KEY PART NO. NO.	DESCRIPTION
1 138305	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 #10-24
9 72010520	*Bolt, 5/16-18 x 2.50
10 110646X	Handle, Grip
11 4497H	Retainer Spring
12 81328	Bolt, Shoulder
13 138295	Handle, Shift
14 109313X	Grommet, Rubber
15 110702	Rod, Shift
16 72140608	*Bolt, Carriage 3/8-16 x 1
17 109229X	Lock, Handle
18 73930600	*Nut, Centerlock 3/8-16

KEY PART NO. NO.

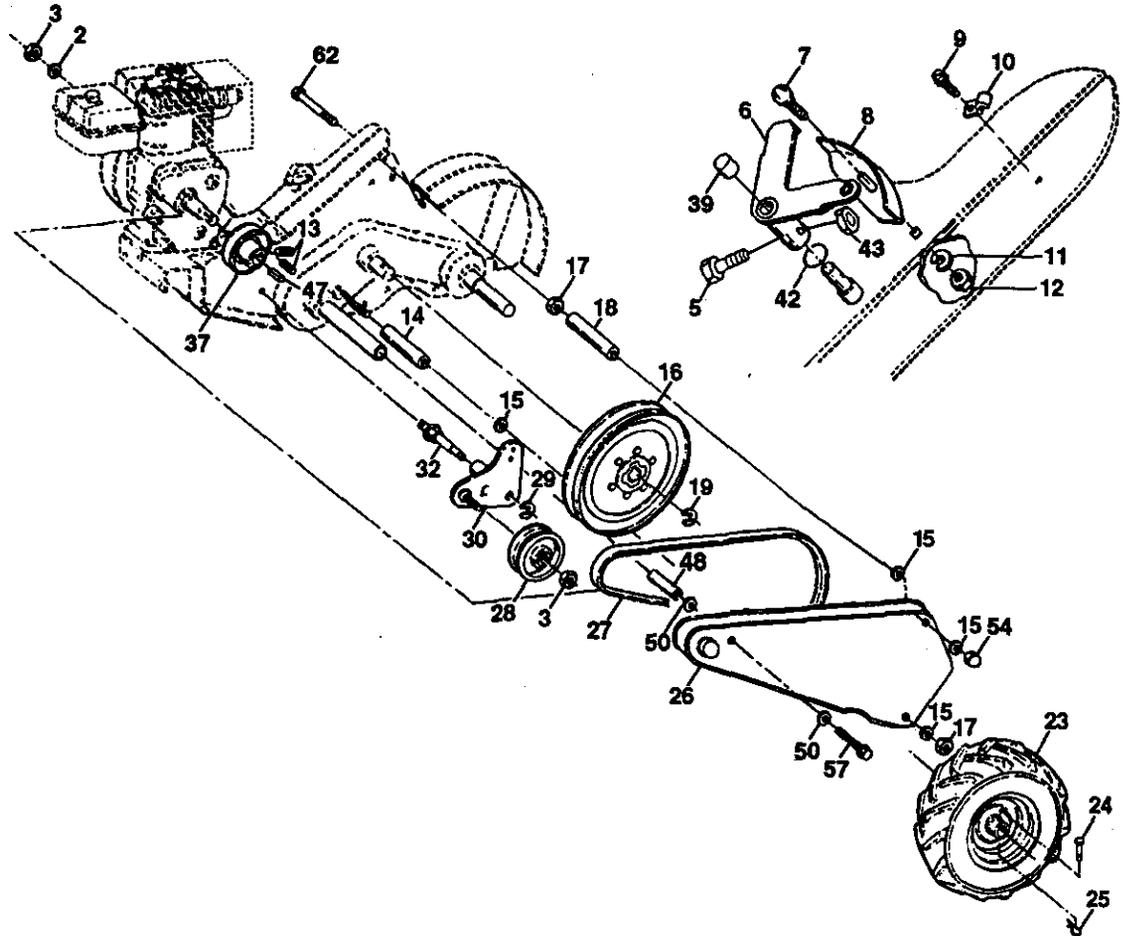
KEY PART NO. NO.	DESCRIPTION
19 19131611	Washer 13/32 x 1 x 11 Ga.
20 109228X	Lever, Lock, Handle
21 150628	Column, Handle, Asm.
22 165197	Clip, Plastic, Cable
23 86777	Screw, Hex, Washer #10-24 x 1/2
24 9484R	Clip
25 73970500	Locknut, Hex, Flange
26 138306	Clutch, Cable
27 73220400	*Nut, Fin Hex 1/4-20
28 10040400	*Washer, Lock Hvy Helical 1/4
29 73731000	Nut, Keps #10-24
31 150696	Bolt, Pivot
32 138283	Lock, Handle

* STANDARD HARDWARE -- PURCHASE LOCALLY

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

TILLER -- MODEL NUMBER 917.293340

MAINFRAME, LEFT SIDE



KEY PART NO. NO.

KEY PART NO. NO.	DESCRIPTION
2 10040600	Washer, Lock 3/8
3 73220600	Nut, Hex 3/8-16
5 154734	Screw Shift Lever..
6 110111X	Lever, Shift
7 72110404	Bolt, Carriage 1/4-20 x 1/2 Gr. 5
8 8700J	Plate, Shift Indicator
9 86777	Screw, Hex, Washer Head, Slotted #10-24 x 1/2
10 9484R	Clip
11 10040400	Washer, Lock 1/4
12 73220400	Nut, Hex 1/4-20
13 23230506	Screw, Set, Hex 5/16-18 x 3/8
14 8382J	Spacer, Split 0.327 x 0.42 x 2.68
15 19111116	Washer 11/32 x 11/16 x 16 Ga.
16 145102	Sheave, Transmission
17 73220500	Nut, Hex 5/16-18
18 8381J	Spacer
19 12000028	Ring, Retainer
23 5015J	Tire
138417	Rim
795R	Tire Valve

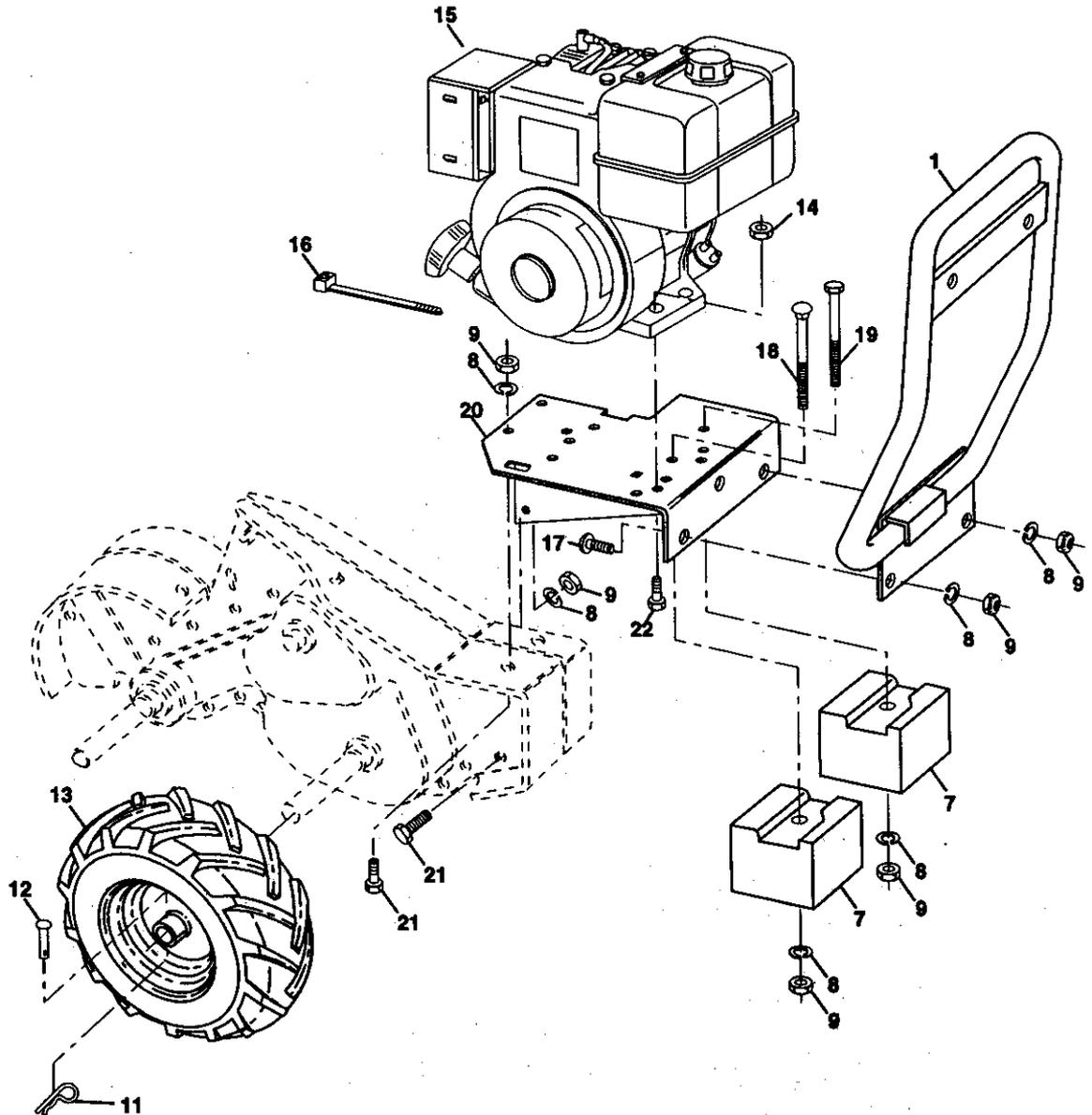
KEY PART NO. NO.

KEY PART NO. NO.	DESCRIPTION
24 4929H	Rivet, Drilled
25 4921H	Clip, Hairpin
26 102818X558	Guard, Belt
27 138399	V-Belt
28 104679X	Pulley, Idler
29 12000032	Ring, Klip
30 159229	Bracket, Idler
32 139401	Shaft, Idler Arm
37 4368J	Sheave, Engine
39 140062	Cap, Plunger
42 106160X	O-Ring
43 69180	Nut Lock #10-24
47 4914H	Key, Square
48 157486	Spacer, Split .523 x .718 x 1.700
50 19171616	Washer
54 104214X	Nut, Cap 5/16-18
57 74770844	Bolt, Hex Head 1/2-20 x 2-3/4
62 74930572	Bolt, Hex Head 5/16-18 x 4-1/2

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

TILLER -- MODEL NUMBER 917.293340

MAINFRAME, RIGHT SIDE



KEY PART NO.	NO.	DESCRIPTION
1	138402	Bumper
7	8450J	Counter Weight, R.H.
8	10040600	Washer, Lock 3/8
9	73220600	Nut, Hex 3/8-16
11	4921H	Clip, Hairpin
12	4929H	Rivet, Drilled
13	5015J	Tire
	138417	Film
	795R	Tire Valve
14	73510500	Nut 5/16-18
15	Engine, (See Breakdown)

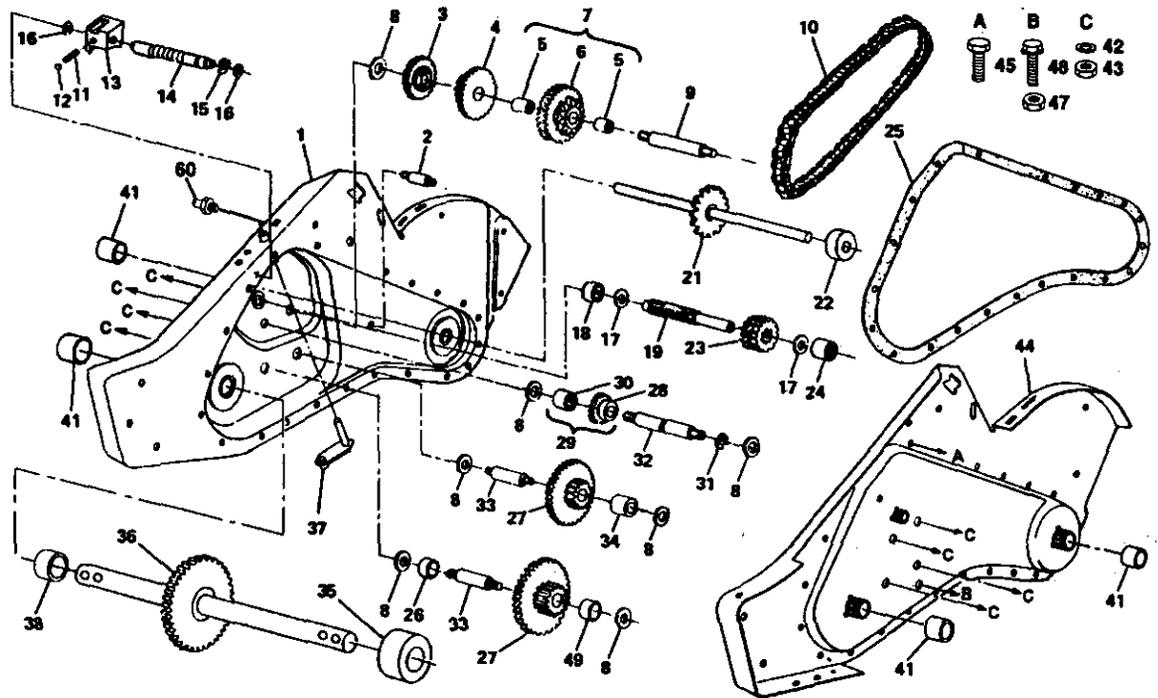
KEY PART NO.	NO.	DESCRIPTION
16	7192J	Briggs Model 19G402-1170-E1 Tie Cable
17	72140608	Bolt, Carriage 3/8-16 x 1
18	72470636	Bolt, Carriage 3/8-16 x 4-1/2
19	74760672	Bolt, Hex Head 3/8-16 x 4-1/2
20	138669	Bracket, Engine
21	74760616	Bolt, Hex Head 3/8-16 x 1
22	74760528	Bolt, Hex 5/16-18 x 1-3/4

STANDARD HARDWARE -- PURCHASE LOCALLY

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

TILLER -- MODEL NUMBER 917.293340

TRANSMISSION



KEY PART NO. NO.

-- 170324
1 170325

2 8370J
3 8547J
4 8546J
5 100413K
6 674A291
7 674A290

8 4358J
9 8358J
10 8371J
11 100371K
12 7392M
13 8353J
14 8354J
15 1200039

16 154467
17 1370H
18 4895H
19 150695
21 105378X
22 106181X
23 8359J
24 5020J
25 164396
26 106389X
27 100433M

DESCRIPTION

Transmission Assembly
Gearcase Assembly, R.H. w/
Bearing (Includes Key No. 18)
Bolt, Upset
Gear, Reverse
Gear, Cluster, Red., 1st and 2nd
Bearing, Needle
Sprocket Assembly, Tine
Sprocket Assembly w/Bearings
(Includes Key #6 and (2) of key #5)
Washer
Shaft, Reduction (1st)
Chain, Roller 60 P
Spring, Shift, Fork
Ball, Steel
Fork, Shift
Shaft, Shift
Klip, Ring
Washer, Seal
Washer, Thrust 5/8 x 1.10 x 1/32
Bearing, Needle
Shaft, Input
Shaft Assembly, Tine
Spacer 1.008 x 1-3/4 x .645
Pinion, Input
Bearing, Needle
Gasket, Gearcase
Spacer .765 I.D. x 1.12 x 5/8
Gear, Cluster, Red 1st & 2nd

KEY PART NO. NO.

28 8357J
29 674A289

30 6803J
31 12000040
32 8356J
33 100016K
34 106392X
35 106394X
36 100436L
37 142145
38 106393X
41 155236
42 10040700
43 73610700
44 162165

45 17720510
47 73220500
48 100107K
49 106391X
60 6855M
-- 6066J

DESCRIPTION

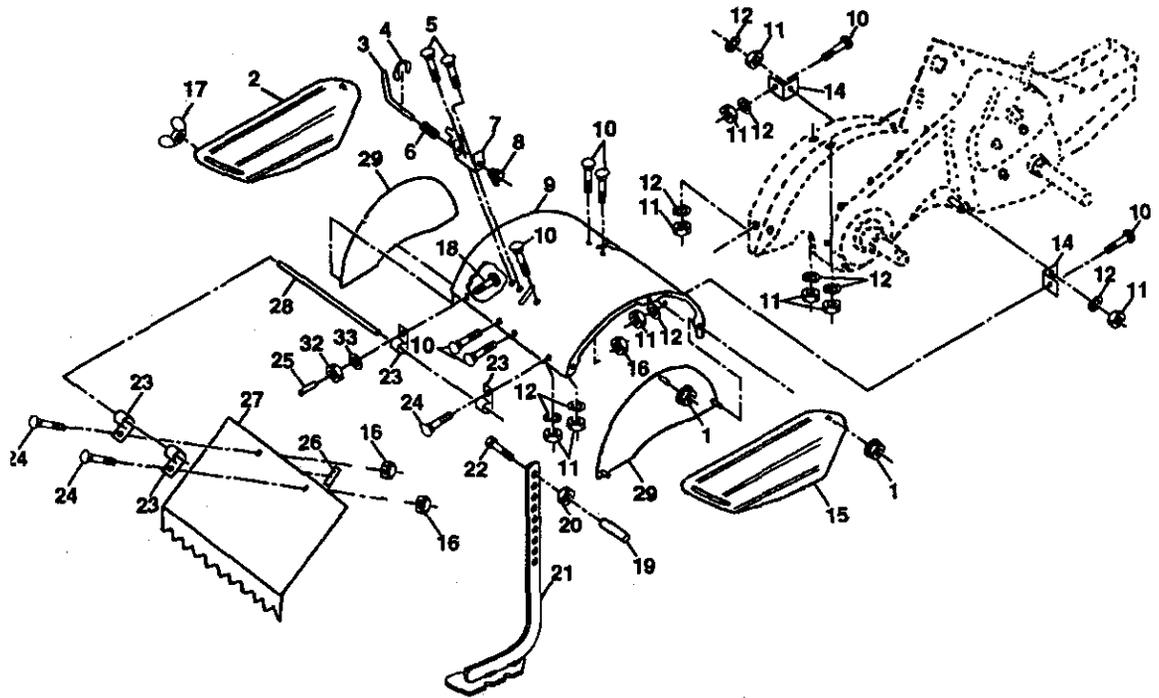
Gear, Reverse Idler
Gear, Assembly, Reverse Idler
(Includes Key Nos. 28 and 30)
Bearing, Needle
Klip, Ring
Shaft, Reverse Idler
Shaft, Reduction (2nd)
Spacer .765 x I.D. x 1-1/8 x 1-3/8
Spacer Ground Drive L.H.
Shaft Assembly, Ground
Arm Assembly, Shift
Spacer Ground Drive R.H.
Seal, Oil
Washer, Lock 7/16
Nut, Hex 7/16-20
Gearcase Assembly, L.H., w/
Bearing (Includes Key # 24)
Screw 5/16-18 x 5/8
Nut, Hex Head 5/16-18
Screw, Whiz, Lock 5/16-18 x 4
Spacer .765 I.D. x 1.12 x 3/4
Fitting Grease
Grease, Plastilube #1

*STANDARD HARDWARE -- PURCHASE LOCALLY

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

TILLER -- MODEL NUMBER 917.293340

TINE SHIELD



KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
1	73900500	Nut, Lock Hex Flange 5/16-18
2	161416X558	Shield, Side, Outer L. H.
3	8393J	Pin, Depth Stake
4	12000036	Ring, Klip
5	72140508	Bolt, Carriage 5/16-18 x 1
6	8394J	Spring
7	8392J	Bracket, Latch
8	109230X	Spring, Depth Stake
9	170708X558	Shield, Tine
10	72140506	Bolt, Carriage 5/16-18 x 3/4 Gr. 5
11	73220500	Nut, Hex 5/16-18
12	10040500	Washer, Lock 5/16
14	124343X	Bracket, Shield Tine
15	161417X558	Shield, Side, Outer R.H.
16	73900400	Nut, Hex Flanged 1/4-20UNC
17	162175	Nut, Wing 5/16-18
18	72040410	Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5
19	102701X	Grip

KEY PART NO. NO.

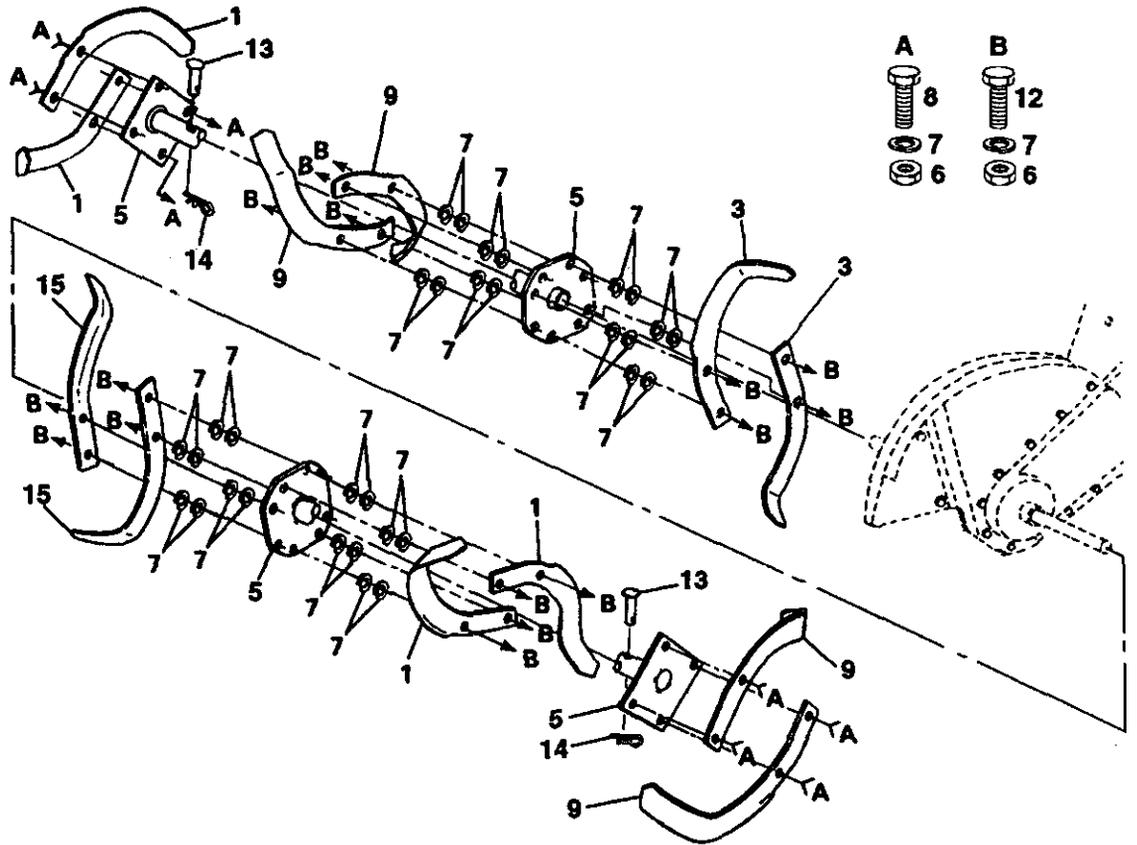
KEY PART NO.	NO.	DESCRIPTION
20	73220600	Nut, Hex 3/8-16
21	138420	Stake, Depth
22	74930632	Bolt, Hex 3/8-16 x 2
23	4440J	Hinge
24	72140404	Bolt, Rdhd Sqnk 1/4-20 x 1/2
25	6712J	Cap, Vinyl
26	109227X	Pad, Idler
27	102713X558	Shield, Leveling
28	138609	Pin, Hinge
29	104084X558	Shield, Side
30	73970500	Locknut, Hex, Flange
32	73220400	Nut, Fin, Hex 1/4-20 UNC
33	10040400	Washer Lock 1/4

* STANDARD HARDWARE -- PURCHASE LOCALLY

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

TILLER -- MODEL NUMBER 917.293340

TINE ASSEMBLY



KEY PART NO. NO.

NO. NO.	DESCRIPTION
1 6556J	Tine, L.H.
3 101194M	Tine, L.H.
5 100445L	Hub Assembly
6 73610600	Nut, Hex 3/8-24
7 10040600	Washer, Lock 3/8
8 74610616	Bolt, Hex Head 3/8-24 x 1
9 6557J	Tine, R.H.

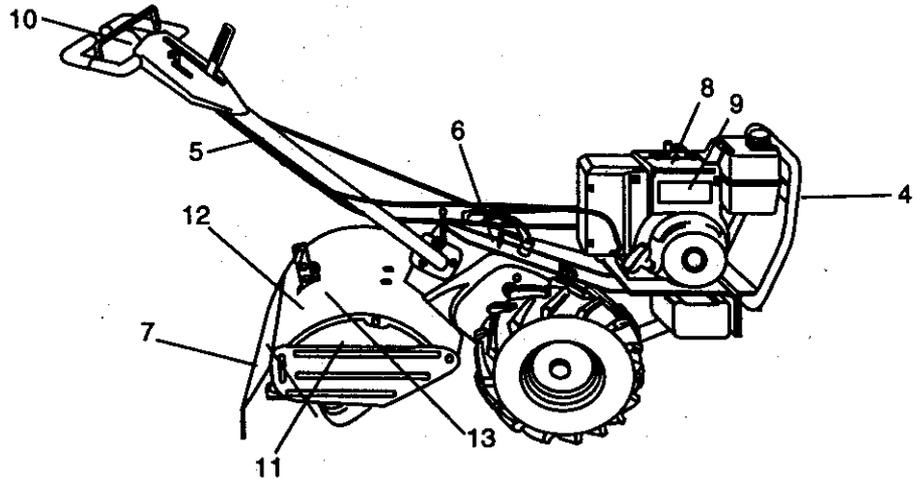
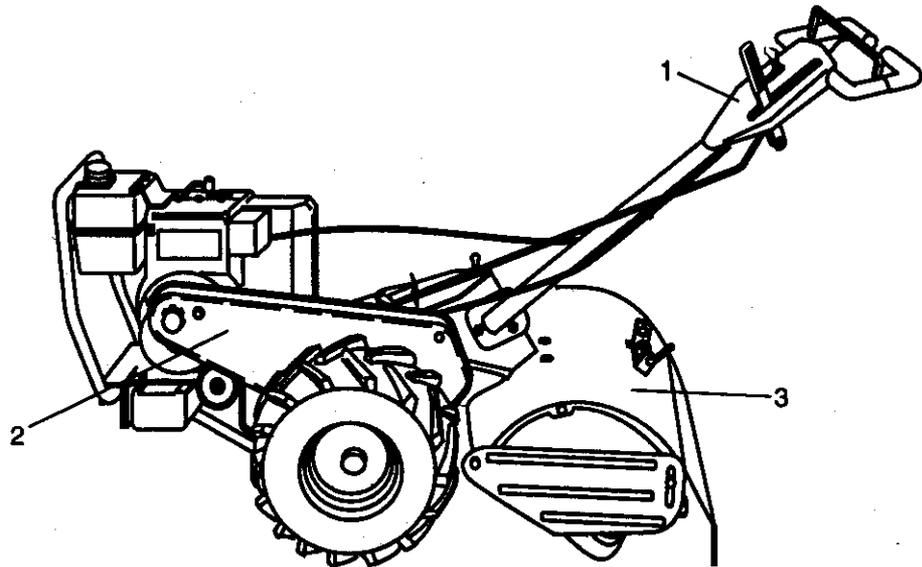
KEY PART NO. NO.

NO. NO.	DESCRIPTION
12 74610624	Bolt, Hex Head 3/8-24 x 1-1/2
13 4929H	Rivet, Panhead
14 3146R	Retainer Spring
15 101193M	Tine, R.H.

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

TILLER -- MODEL NUMBER 917.293340

DECALS



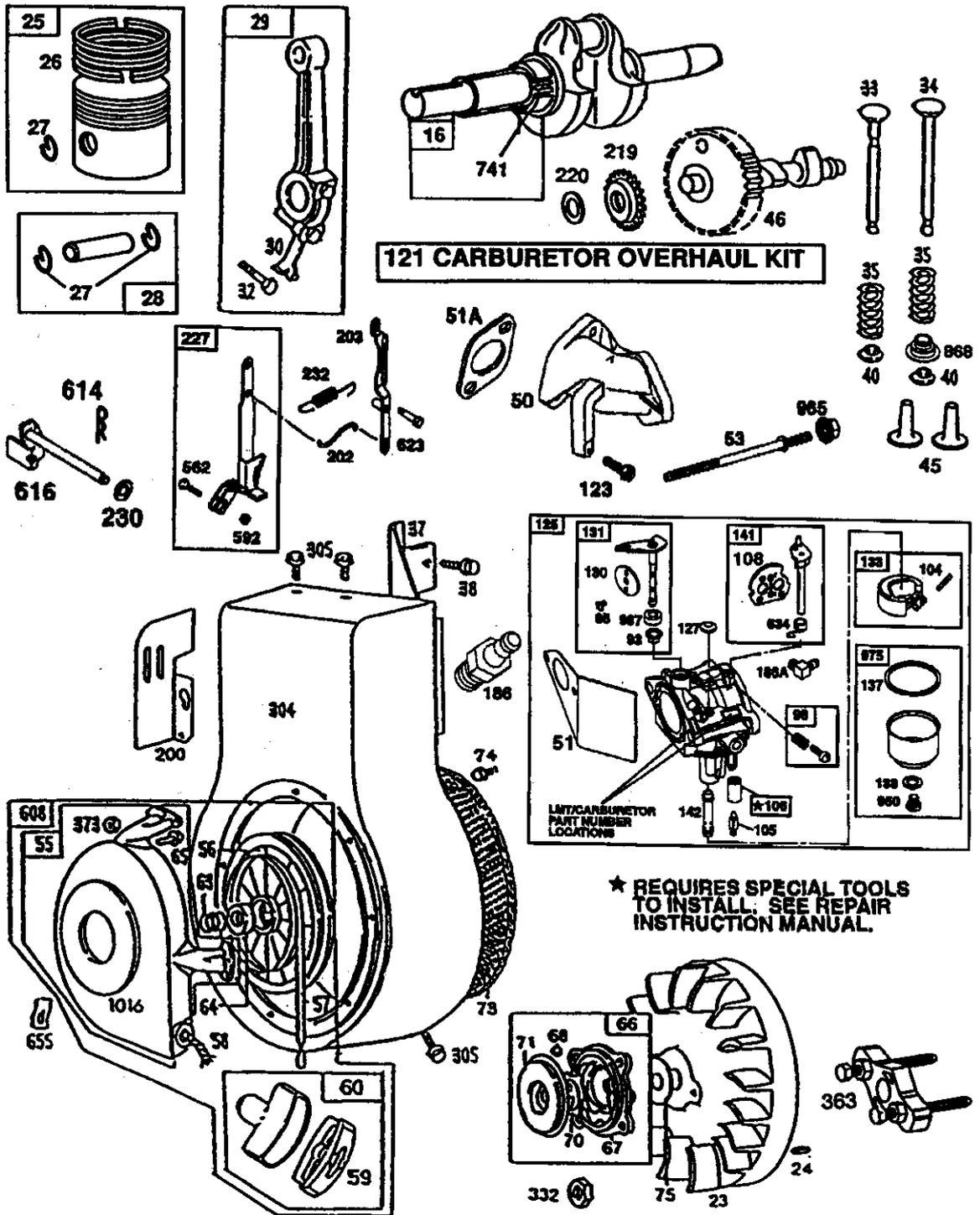
KEY PART NO. NO.

1 158097
2 171779
3 171780
4 145023
5 120431X
6 138546
7 120075X
8 137538
9 165270
10 158097
11 157984
12 163094
13 162215
-- 171672

DESCRIPTION

Decal, Logo
Decal, Logo
Decal, Logo
Decal, Logo
Decal, Hand Placement
Decal, Shift Indicator
Decal, Warning, Rotating Tines
Decal, Warning Dom
Decal, B & S Ref Engine
Decal, Control Panel
Decal, Tine, Shield, Counter Rotating Tines
Decal, Tine Depth Stake
Decal, Warning Tine Shield
Manual, Owner's (Eng/Span)

TILLER -- MODEL NUMBER 917.293340
ENGINE, BRIGGS & STRATTON -- MODEL NUMBER 19G402-1170-E1



TILLER -- MODEL NUMBER 917.293340

ENGINE, BRIGGS & STRATTON -- MODEL NUMBER 19G402-1170-E1

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION	
1	495631	51A	272707	Δ*Gasket, Intake Manifold
2	495657	53	94778	Stud, Carb. Mounting
3	391086	55	393576	Housing, Rewind Starter
5	214347	56	295871	Pulley, Rewind Starter
7	272163	57	490179	Spring, Rewind Starter
8	498038	58	66884	Rope, Rewind Starter
9	27803	59	490653	Insert, Starter Handle
10	94621	60	490652	Handle, Rewind Starter
11	280819	63	260414	Spring, Ratchet
12	271701	64	281204	Adapter, Ratchet Spring
	27876	65	94904	Screw, Rewind Starter Housing
	27877			Mounting
13	94565	66	399671	Clutch Assembly, Rewind Starter
13A	94926	67	394897	Housing, Rewind Starter Clutch
14	93723	68	63770	Ball, Clutch
15	94880	70	298799	Ratchet, Rewind Starter Clutch
	94239	71	394506	Washer, Clutch Retaining
16	495648	73	224874	Screen, Rewind Starter
	94388	74	94680	Screw, Sems
18	496982	75	225136	Washer, Spring
19	295964	75A	495659	Washer, Set
20	391086	93	281346	*Bushing, Throttle Shaft
21	281658	95	94098	*Screw, Slotted
22	93585	98	495800	Screw, Idle Speed
23	298260	98A	493280	Screw, Idle Speed
24	222698	104	231789	*Pin, Float Hinge
25	499907	105	231935	*Valve, Needle
	499908	106	231856	*Seat, Inlet
	499909	108	224666	Valve, Choke
	499910	116	280203	O-Ring, Fuel Valve
26	499921	121	497581	Carburetor Overhaul Kit
	690018	123	94913	Screw Torx
		125	690011	Carburetor
	690019	127		*Plug, Welch
	690020			(Sold in Kit Only)
27	263181	130	224539	Valve, Throttle
28	499911	131	498846	Shaft, Throttle
	499920	133	494381	Float, Carburetor
29	390401	137	281165	Δ*Gasket, Float Bowl
	390773	138	281164	Δ*Washer
		141	497160	Shast, Choke
30	222113			
32	92659			
33	263017			
34	261055			
35	65906			
37	222475			
38	94811			
40	221596			
45	260933			
46	214786			
50	214170			
51	272708			

RPM Settings: Low: 1750 - 1950
High: 3500 - 3700

- * Included in Gasket Set (497070)
- Included in Carburetor Kit (497578)
- Δ Included in Carburetor Gasket Set (497069)
- ∅ Included in Valve Overhaul Gasket Set (497534)

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

TILLER -- MODEL NUMBER 917.293340
ENGINE, BRIGGS & STRATTON -- MODEL NUMBER 19G402-1170-E1

KEY PART NO.	PART NO.	DESCRIPTION	KEY PART NO.	PART NO.	DESCRIPTION
142	690125	Nozzle, Carburetor (Standard)	507	398525	Insulator
	690126	Nozzle, Carburetor (High Altitude)	520	93722	Terminal, Spade
161	497669	Base, Air Cleaner	552	491893	Bushing Governor Crank
163	273101	ø*Gasket, Air Cleaner	562	94907	Bolt, Carriage
165	94692	Nutwing	592	231978	Nut, Hex
186	230318	Connector, Hose	601	95162	Clamp, Fuel Pipe
186A	493496	Connector, Hose	608	390391	Starter, Rewind
187	296004	Line, Fuel	614	93306	Cotter Pin
187A	497029	Line, Fuel	616	496818	Crank, Governor
188	94627	Screw, Hex	621	396847	Switch, Stop
200	221760	Guide, Air	623	231520	Screw, Shoulder
201	263051	Link, Governor	634	494455	•Seal, Choke Shaft
202	263049	Link, Throttle	635	66538	Elbow, Spark Plug
203	497207	Lever, Linkage	642	281357	Cover, Air Cleaner
209	263212	Spring, Governor	655	222598	Anchor, Spring
210	492044	Strainer, Fuel	657	94906	Screw, Sems
211	263182	Spring, Governed Idle	676	393757	Deflector, Exhaust
219	497037	Gear Governor	741	263025	Gear, Timing
220	221551	Washer, Thrust	843	280643	Sleeve, Lever
222	499103	Plate, Governor Control	851	493880	Terminal, Ignition Cable
227	499096	Lever Assembly, Governor	868	497656	Seal, Intake Valve
230	94927	Washer, Governor Crank	869	211661	Seat, Intake and Exhaust Valves
232	263020	Spring, Link	871	231218	Guide, Intake and Exhaust Valves
258	94929	Screw, Sems	918	497457	Line, Vacuum
265	221535	Clamp, Casing	950	94642	Plug
298	261409	Locknut, Muffler	956	493337	Fuel Tank Assembly
300	496127	Muffler, Exhaust	957	493988	Cap, Fuel Tank
304	491596	Housing, Blower	958	399517	Valve, Fuel Shut-Off
305	94786	Screw, Sems	959	495664	Bracket, Fuel Tank, Upper
306	496797	Shield, Cylinder	960	492990	Bracket, Fuel Tank, Lower
307	94930	Screw, Cylinder Shield	961	94095	Screw, Tank Mounting
308	225055	Cover, Cylinder Head	965	94010	Nut, Hex
332	92284	Nut, Flywheel	969	94777	Screw, Slotted Hex
333	398811	Armature, Magneto	975	494378	Bowl, Float
334	94731	Screw, Armature Mounting	987	281166	•Seal, Throttle Shaft
337	496018	Spark Plug	994	399541	Spark Arrester
346	94896	Screw, Sems	1016	490817	Spacer
353	92791	Washer, Lock	1036	499354	Label Kit, Emission
354	94726	Nut, Hex	2500	192402-1015	Replacement Engine
354A	90576	Nut, Hex	--	497536	Replacement Shortblock
356	398838	Wire, Ground			
356A	496868	Wire, Ground			
358	497070	Gasket Set			
363	19203	Puller, Flywheel			
373	94908	Nut, Hex			
383	89838	Wrench, Spark Plug			
385	94789	Screw, Fuel Pump Mounting			
387	496257	Pump, Fuel			
445	496077	Cartridge, Air Cleaner			
467	280715	Knob, Air Cleaner			

RPM Settings: Low: 1750-1950
High: 3500-3700

- * Included in Gasket Set (497070)
- Included in Carburetor Kit (497578)
- △ Included in Carburetor Gasket Set (497069)
- ø Included in Valve Overhaul Gasket Set (497534)

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

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