Owner's Manual

CRAFTSMAN® 5.5 HP

24 INCH TINE WIDTH FRONT TINE TILLER

Model No. 917.292394

- 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.

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

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WARRANTY

LIMITED ONE YEAR WARRANTY ON CRAFTSMAN TILLER

For one (1) year 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.

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

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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.

A Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOMEAWARE!!! 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 exhuast from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

PRODUCT SPECIFICATIONS

3 QTS
UNLEADED
REGULAR
SAE 30
(ABOVE 32°F)
SAE 5W-30
(BELOW 32°F)
IAMPION
19LM OR J19LM

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

Should you experience any problems you cannot easily remedy, please contact your nearest authorized Sears Service Center/Department. 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.

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.

AWARNING: 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.

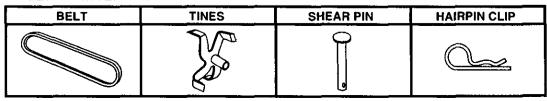
ACCESSORIES

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

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
	Ø				

TILLER MAINTENANCE



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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.

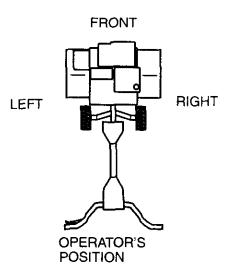
TOOLS REQUIRED FOR ASSEMBLY

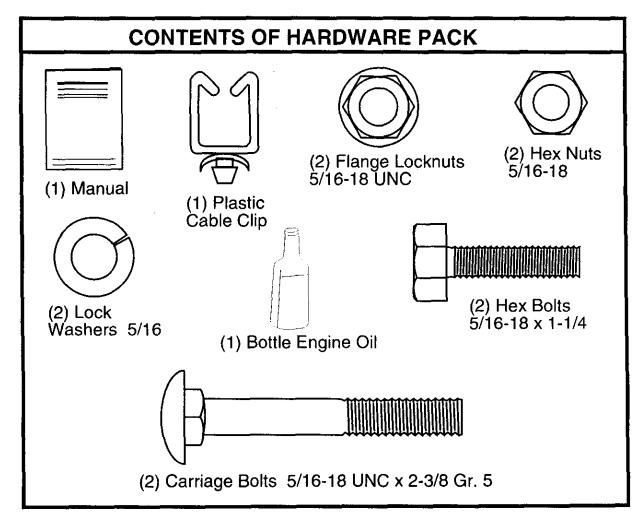
A socket wrench set will make assembly easier. Standard wrench sizes are listed. (1) Utility knife (1) Pair of pliers

(2) 1/2 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).



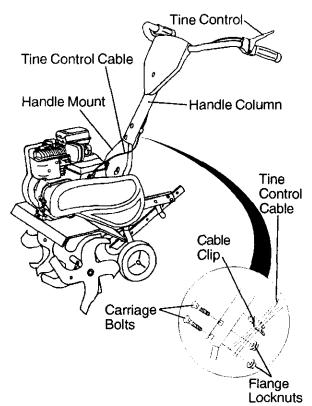


UNPACK CARTON & INSTALL HANDLE

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

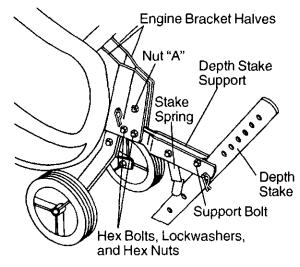
IMPORTANT: When unpacking and assembling tiller, be careful not to stretch or kink cable(s).

- Cut cable ties securing handle column.
- · Remove all packing from carton.
- Secure handle column to handle mount using two (2) carriage bolts and two (2) flange locknuts. Tighten both flange locknuts securely.
- Remove packing material from handle assembly.
- Route tine control cable through plastic cable clip on handle column.
- Insert plastic cable clip into hole in handle column.
- Cut cable ties securing tiller to skid.
- Cut away carton and remove tiller from skid by pulling backwards.



INSTALL DEPTH STAKE ASSEMBLY

- Loosen nut "A".
- Insert stake support between engine bracket halves with stake spring down.
- Bolt stake support to engine brackets with bolts, lock washers and nuts. Tighten securely. Tighten nut "A".
- Depth stake must move freely. If it does not, loosen support bolt.



HANDLE HEIGHT

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

TILLING WIDTH

 Tilling width may be adjusted to better handle your tilling conditions (See "TINE ARRANGEMENT" in the Service and Adjustments section of this manual).

TINE OPERATION

 Check tine operation before first use. (See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual).

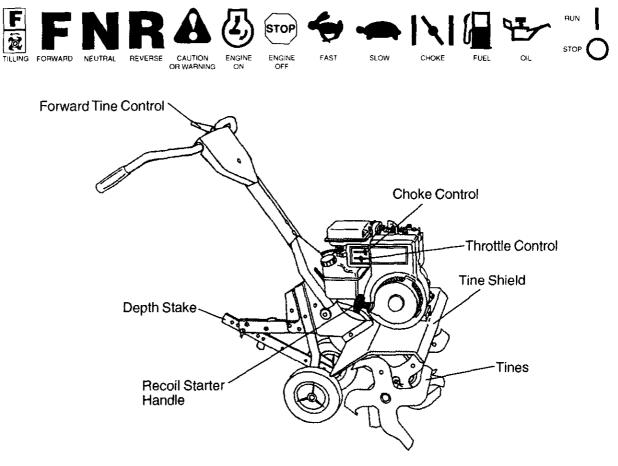
OPERATION

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

KNOW YOUR TILLER

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

Compare the illustrations with your tiller to familiarize 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.

FORWARD TINE CONTROL - Engages tines in forward direction. CHOKE CONTROL - Used when starting a cold engine. THROTTLE CONTROL - Used to control engine speed. **DEPTH STAKE -** Controls forward speed and the depth at which tiller will dig. **RECOIL STARTER HANDLE -** Used to start the engine.



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

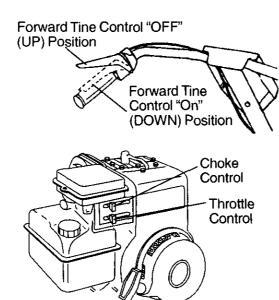
HOW TO USE YOUR TILLER

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

STOPPING

TINES

- Release tine control to stop movement. **ENGINE**
- Move throttle control to "STOP" position.
- Never use choke to stop engine.



TINE OPERATION

• Squeeze tine control to handle.

TILLING

The speed and depth of tilling is regulated by the position of the depth stake and wheel height.

The depth stake should always be below the wheels for digging. It serves as a brake to slow the tiller's forward motion to enable the tines to penetrate the ground. Also, the more the depth stake is lowered into the ground the deeper the tines will dig.

DEPTH STAKE

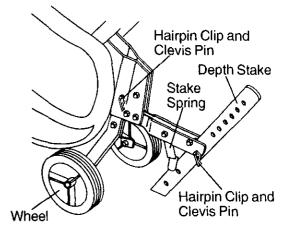
Adjust depth stake by removing the hairpin clip and clevis pin. Change depth stake to desired position. Replace the clevis pin and hairpin clip.

• For normal tilling, set depth stake at the second or third hole from the top.

WHEELS

Adjust wheels by removing the hairpin clip and clevis pin. Change wheel position. Replace the hairpin clip and clevis pin.

 For normal tilling, set wheels at the second or third hole from the top.



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**

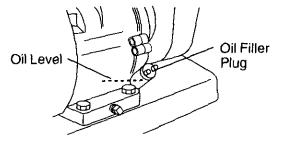
- Tip depth stake forward until it is held by the stake spring.
- Push tiller handles down, raising tines off the ground.
- Push or pull tiller to desired location. AROUND TOWN
- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

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. **FILL ENGINE WITH OIL**

- Remove hangtag from engine.
- With engine level, remove engine oil filler plug.
- Fill engine with oil to point of overflowing. For approximate capacity see "PRODUCT SPECIFICATIONS".
- Tilt tiller back on its wheels and then relevel.

- With engine level, refill to point of overflowing if necessary. Replace oil filler plug.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section of 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.

AWARNING: 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

ACAUTION: Keep tine control in "OFF" position when starting engine. When starting engine for the first time or if engine has run out of fuel, it will take extra pulls of the recoil starter to move fuel from the tank to the engine.

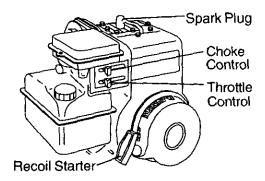
- Make sure spark plug wire is properly connected.
- Place throttle control in "FAST" position.
- Move choke control to full "CHOKE" position. Grasp recoil starter handle with one hand and grasp tiller handle with other hand. Pull rope out slowly until engine reaches start of compression cycle (rope 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 (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.



BREAKING IN YOUR TILLER

Break-in your belt(s), pulleys and tine control before you actually begin tilling.

 Start engine, tip tines off ground by pressing handles down and engage tine control to start tine rotation. Allow tines to rotate for five minutes.

ī

 Check tine operation and adjust if necessary. See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual.

TILLING HINTS

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

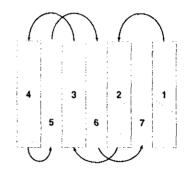
To help tiller move forward, lift up the handles slightly (thus lifting depth stake out of ground). To slow down the tiller, press down on handles.

If you are straining or tiller is shaking, the wheels and depth stake are not set properly in the soil being tilled. The proper setting of the wheels and depth stake is through trial and error and depends upon the soil condition. (The harder or wetter the ground, the slower the engine and tine speed needed. Under these poor conditions, at fast speed the tiller will run and jump over the ground).

A properly adjusted tiller will dig with little effort from the operator.

- Tilling is digging into, turning over, and breaking up packed soil before planting. Loose, unpacked soil helps root growth. Best tilling depth is 4"-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.

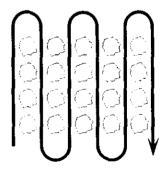
- You will find tilling much easier if you leave a row untilled between passes. Then go back between tilled rows. There are two reasons for doing this. First, wide turns are much easier to negotiate than about-faces. Second, the tiller won't be pulling itself, and you, toward the row next to it.
- Set depth stake and wheel height for shallow tilling when working extremely hard soil or sod. Then work across the first cuts at normal depth.



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"-3".

- You will probably not need to use the depth stake. Begin by tipping the depth stake forward until it is held by the stake spring.
- 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.



MAINTENANCE

MAINTENANCE SCHEDULE		Elic Esc	40" 10E			7				 	
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	86.7	360 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	EVEN SHOL		\$ \$		SE	RVI	CEI	ES	
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				1/2							
Clean Engine Cylinder Fins				~							
Replace Spark Plug				V							

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

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

GENERAL RECOMMENDATIONS

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

Some adjustments will need to be made periodically to properly maintain your tiller. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

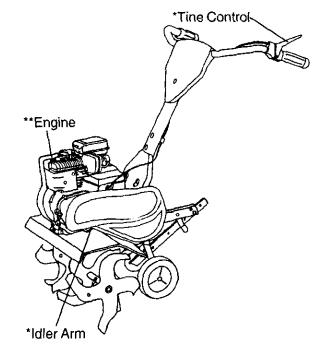
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION



* SAE30 or 10W-30 Motor OII

** Refer to Maintenance "ENGINE" Section

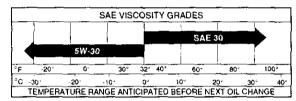
CAUTION: Disconnect spark plug wire before performing any maintenance (except carburetor adjustment) to prevent accidental starting of engine.

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.



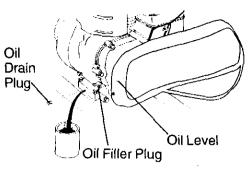
NOTE: Although multi-viscosity oils (5W-30, 10W-30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F (0°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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.
- Catch oil in a suitable container.
- Remove drain plug.
- Tip tiller forward to drain oil.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Remove oil filler plug. Be careful not to allow dirt to enter the engine.
- Refill engine with oil. See "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.

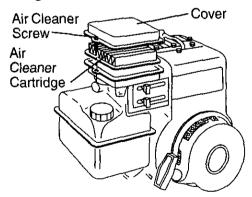


AIR CLEANER

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

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

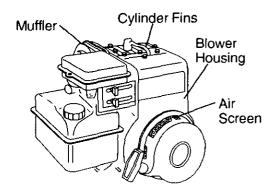
CAUTION: Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.



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.
- 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 are shown in "PRODUCT SPECIFICATIONS".

TRANSMISSION

Your transmission is sealed and will not require lubrication unless 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

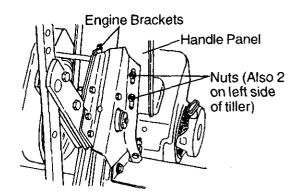
ACAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

TILLER

TO ADJUST HANDLE HEIGHT

Factory assembly has provided lowest handle height. Select handle height best suited for your tilling conditions. Handle height will be different when tiller digs into soil.

- If a higher handle height is desired, loosen the four nuts securing handle panel to engine brackets.
- Slide handle panel to desired location.
- Tighten the four nuts securely.



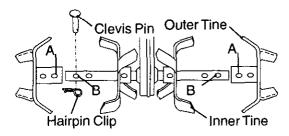
TINE ARRANGEMENT

Your outer tines can be assembled in several different ways to suit your tilling or cultivating needs.

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

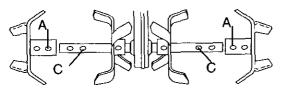
NORMAL TILLING - 24" PATH

• Assemble holes "A" in tine hubs to holes "B" in tine shaft.



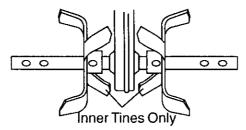
MID-WIDTH TILLING - 22" PATH

• Assemble holes "A" in tine hubs to holes "C" in tine shaft.



NARROW TILLING/CULTIVATING - 12-3/4" PATH

Remove outer tines.



NOTE: When reassembling outer tines, be sure right tine assembly (marked "R") and left tine assembly (marked "L") are mounted to correct side of tine shaft.

TINE OPERATION CHECK

ACAUTION: Disconnect spark plug wire from spark plug to prevent starting while checking tine operation.

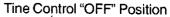
For proper tine operation, tine control lever must be against control body and all slack removed from inner wire of control cable when control is in the "OFF" (up) position. If lever and cable are loose, loosen cable clip at lower end of cable. Pull up on cable to remove slack, without extending spring on end of cable, and retighten cable clip. **FINAL CHECK "OFF" POSITION**

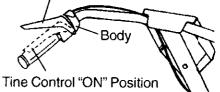
- With tine control "OFF" (up), push down on handle to raise tines off the ground.
- Slowly pull recoil starter handle while observing tines. Tines should not rotate.
- If tines rotate, inner wire of control cable is too tight which is extending lower spring and engaging tines. Loosen cable clip and push down on cable only enough to relieve spring tension. Tighten cable clip.
- Recheck in "OFF" position and adjust if necessary.

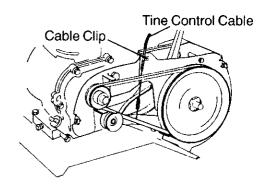
FINAL CHECK "ON" POSITION

- With tine control "ON" (held down to handle) push down on handle to raise tines off the ground.
- Slowly pull recoil starter handle while observing tines. Tines should rotate forward.
- If tines do not rotate, inner wire of control cable is too loose. Loosen cable clip and pull cable up to remove slack and retighten clip.
- Recheck in "ON" position and adjust if necessary.

NOTE: If "ON" position check required adjustment, recheck "OFF" position adjustment to insure tines do not rotate when control is "OFF" (up).

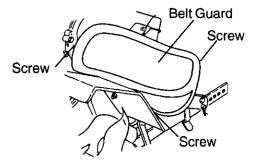






TO REMOVE BELT GUARD

- Remove cap nut and washer from side of belt guard.
- Pull belt guard out and away from unit.
- Replace belt guard by reversing above procedure. Be sure slot in bottom of belt guard is under head of tine shield bolt and all nuts are tightened securely.



TO REPLACE V-BELT

Replace V-belt if it has stretched considerably or if it has cracks or frayed edges. Belt guard must be removed to service belt. See "TO REMOVE BELT GUARD" in this section of manual. BELT REMOVAL

• Remove V-belt from transmission pulley first and then from engine pulley.

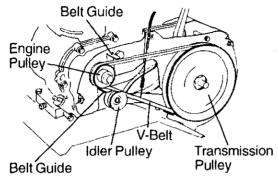
BELT REPLACEMENT

 Install new V-belt to engine pulley first then to transmission pulley. Be sure belt is positioned on inside groove of both pulleys, inside all belt guides and rests on idler pulley.

CHECK TINE OPERATION

• See "TINE OPERATION CHECK" in this section of manual.

REPLACE BELT GUARD



ENGINE

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

TO ADJUST CARBURETOR

The carburetor has a high speed fixed 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.

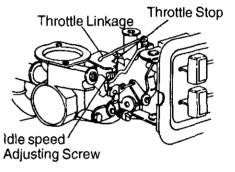
IDLE RPM ADJUSTMENT

 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 idle needle valve out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust or damage may result. **IMPORTANT:** Never tamper with the engine governor, which is factory set for proper engine speed. overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center/department, which has the proper equipment and experience to make any necessary adjustments.



STORAGE

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

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

TILLER

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDER(S)

- · Remove spark plug.
- Pour 1 ounce (29 ml) of oil through spark plug hole into cylinder.
- Pull starter handle slowly several times to distribute oil.
- Replace with new spark plug.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.
 IMPORTANT: Never cover tiller while

engine and exhaust areas are still warm.

TROUBLESHOOTING

1

PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" Engine flooded. Dirty air cleaner. Water in fuel. Clogged fuel tank. Loose spark plug wire. Bad spark plug or improper gap. Carburetor out of adjust- ment. 	 Fill fuel tank. See "TO START ENGINE" in the Operation section. Wait several minutes before attempting to start. Clean or replace air cleaner cartridge. Drain fuel tank and carbure- tor, and refill tank with fresh gasoline. Remove fuel tank and clean. Make sure spark plug wire is seated properly on plug. Replace spark plug or adjust gap. Make necessary adjust- ments.
Hard to start	 Throttle control not set properly. Dirty air cleaner. Bad spark plug or improper gap. Stale or dirty fuel. Loose spark plug wire. Carburetor out of adjustment. 	 Place throttle control in "FAST" position. Clean or replace air cleaner cartridge. Replace spark plug or adjust gap. Drain fuel tank and refill with fresh gasoline. Make sure spark plug wire is seated properly on plug. Make necessary adjust- ments.
Loss of power	 Engine is overloaded. Dirty air cleaner. Low oil level/dirty oil. Faulty spark plug. Oil in fuel. Stale or dirty fuel. Water in fuel. Clogged fuel tank. Spark plug wire loose. Dirty engine air screen. 	 Set depth stake and wheels for shallower tilling. Clean or replace air cleaner cartridge. Check oil level/change oil. Clean and regap or change spark plug. Drain and clean fuel tank and refill, and clean carbure- tor. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carbure- tor, and refill tank with fresh gasoline. Remove fuel tank and clean. Connect and tighten spark plug wire. Clean engine air screen.

PROBLEM	CAUSE	CORRECTION
Loss of power	 Dirty/clogged muffler. Carburetor out of adjustment. Poor compression. 	 Clean/replace muffler. Make necessary adjustments. Contact an authorized Sears Service Center/ Department.
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, muffler area. Remove and clean muffler. Adjust carburetor to richer position.
Excessive bounce/difficult handling	 Ground too dry and hard. Wheels and depth stake incorrectly adjusted. 	 Moisten ground or wait for more favorable soil conditions. Adjust wheels and depth stake.
Soil balls up or clumps	1. Ground too wet.	1. Wait for more favorable soil 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 shal- lower tilling. Check throttle control setting. Make necessary adjust- ments.

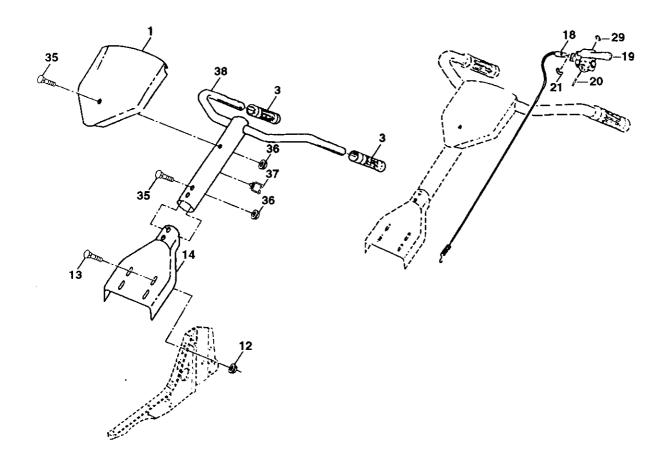
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REPAIR PARTS

TILLER - - MODEL NUMBER 917.292394

HANDLES



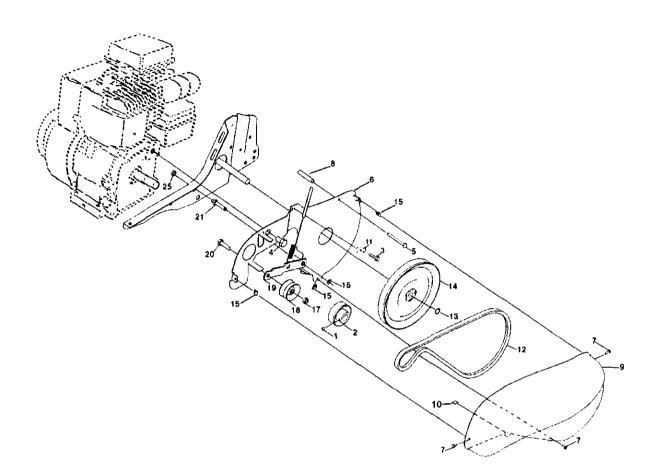
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.
1 137118 3 9266R	Panel, Control	21 12000027
12 98000129	Grip, Handle Nut, Flange	29 12000059 35 72010520
13 STD533107	Bolt, Carriage 5/16-18 x 3/4	36 73970500
14 110514X	Assembly, Panel and Tube	37 165197
18 3066J 19 151229	Cable, Tine Control Lever, Control, Tine	38 152094
20 154805	Pin, Pivot	NOTE: All compone

NO	. NO.	DESCRIPTION		
21	12000027	Ring, Clip		
29	12000059	Retainer, Ring		
35	72010520	Bolt 5/16-18 x 2-1/2		
36	73970500	Locknut, Flange 5/16-18 UNC		
37	165197	Clip, Cable		
38	152094	Assembly, Handle Column		
NOTE: All component dimensions given in U.S.				

inches. 1 inch = 25.4 mm

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TILLER - - MODEL NUMBER 917.292394 BELT GUARD AND PULLEY ASSEMBLY

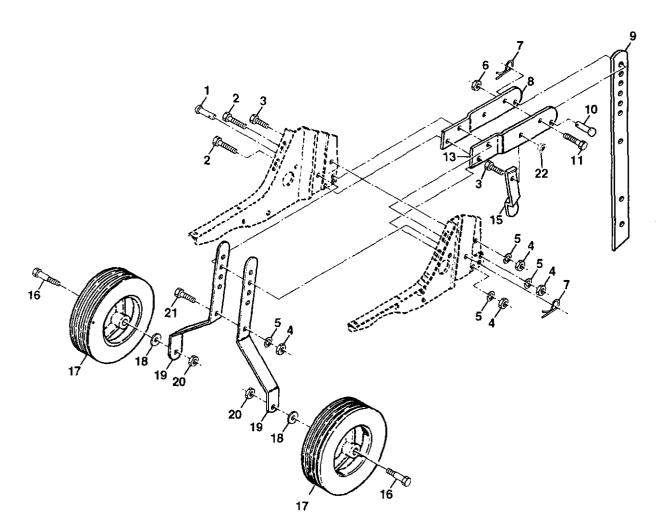


KE NO	Y PART . NO.	DESCRIPTION	KEY PART NO. NO. DESCRIPTION
1	23230506	Screw Set 5/16-18 x 3/8 Patch	13 12000028 Ring, Retainer
2	130812	Sheave, Engine	14 151223 Sheave, Transmisison
3	17211006	Screw, Tap Hex Head	15 165504 Nut J Clip #8
4	74610812	Bolt, Hex Head 1/2-20 x 3/4	16 12000036 Ring, Klip
5	17490440	Bolt, Thd Roller 1/4-20 x 2-1/2	17 STD541237 Nut, Hex, Jam 3/8-16
6	165770	Shield, Inner Belt Guard	18 161806 Pulley, Idler
7	165503	Screw Hex Wsh Hd #8-18 x 1/2	19 162290 Arm, İdler
8	139155	Spacer Split	20 STD523712 Bolt, Hex Head 3/8-16 x 1-1/4
9	165768X558	Guard, Belt	21 106968X Shaft, Idler Arm
10	109227X	Pad, Idler	25 73350500 Nut, Hex, Jam 5/16-18
11 12	9484R 9180R	Clip, Cable V-Belt	NOTE: All component dimensions given in U.S.

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inches. 1 inch = 25.4 mm

TILLER - - MODEL NUMBER 917.292394 WHEEL AND DEPTH STAKE ASSEMBLY



1

KEY	PART
NO.	NO.

9194R

74760520

STD523107

STD541031

STD551131

STD541437

4921H

1952J

326J

11 74780628

122233X

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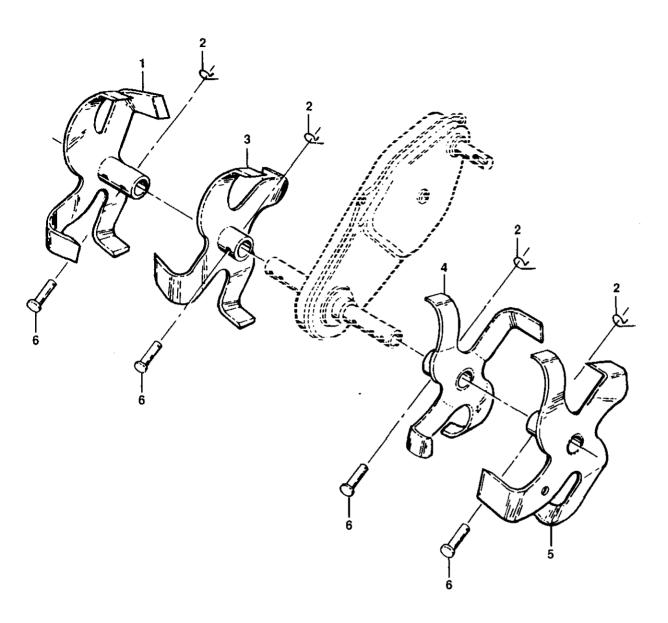
9 10

DESCRIPTION

Pin, Clevis Bolt, Hex Head 5/16-18 x 1-1/4 Bolt, Hex Head 5/16-18 x 3/4 Nut, Hex 5/16-18 Washer, Lock 5/16 Locknut, w/washer 3/8-16 Clip, Hairpin Support, Depth Stake, R.H. Stake, Depth
Pin, Clevis Bolt, Hex 3/8-16 x 1-3/4

KEY PART DESCRIPTION NO. NO. Support, Depth Stake, L.H. 13 1951J Spring, Stake Bolt, Shoulder 15 5388J 16 121117X Wheel 17 9188R Washer 13/32 x 13/16 x 11 Ga 18 STD551037 Bracket, Wheel 19 9190R Locknut, Crown 3/8-16 20 STD541437 Bolt, Hex Head 5/16-18 x 1 21 74760516 Locknut, w/insert 5/16-18 22 STD541431 NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

TINE ASSEMBLY



KEY PART NO. NO.

1 1 2 3 3 1 4 1

DESCRIPTION

156934	Tine, Outer, R.H.
3146R	Retainer, Spring Zinc
156932	Tine, Inner, R.H.
156931	Tine, Inner, L.H.

KEY PART NO. NO.

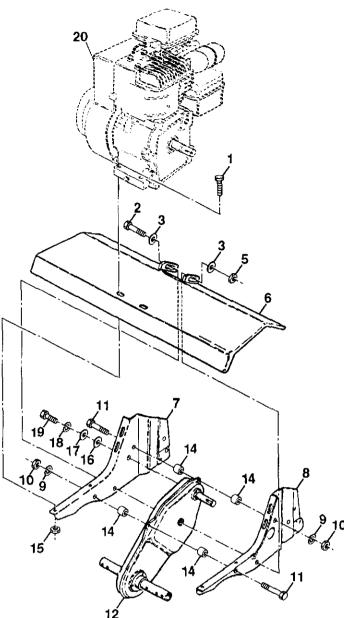
DESCRIPTION

5	156933	Tine, Outer, L.H.
6	4929H	Pin, Clevis
NOT	E: All compo	onent dimensions given in U.S.

inches. 1 inch = 25.4 mm

TILLER - - MODEL NUMBER 917.292394

TRANSMISSION



KEY PART NO. NO.

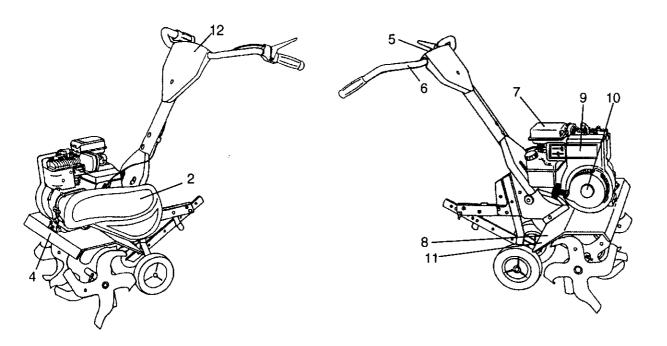
1 2 3 5 6 7 8 9 10	74760524 STD523732 STD551037 STD541437 9056R558 165835 165834 STD551131 STD541031
11	74760544
12	151222

DESCRIPTION

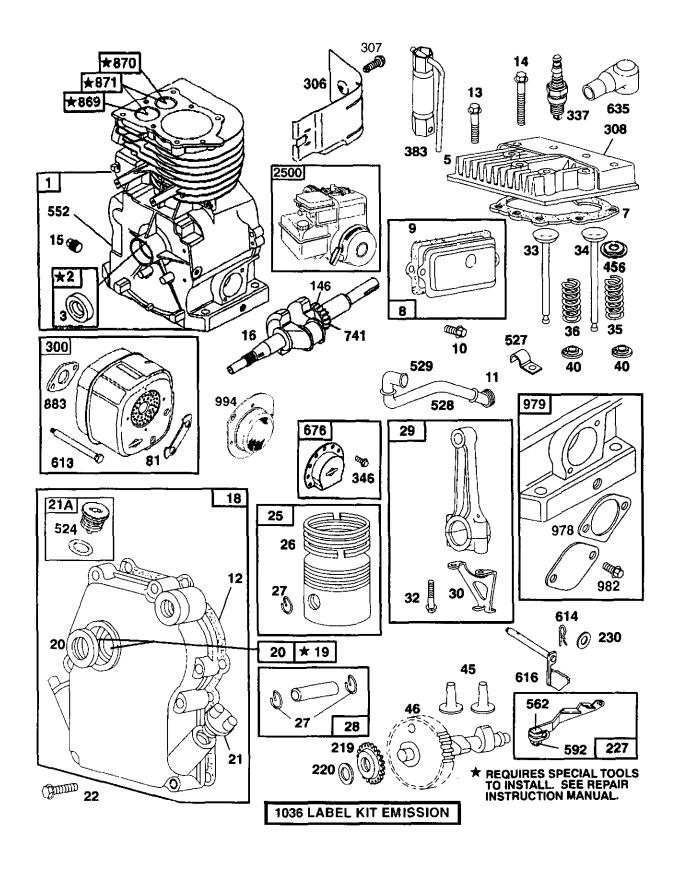
KEY PART

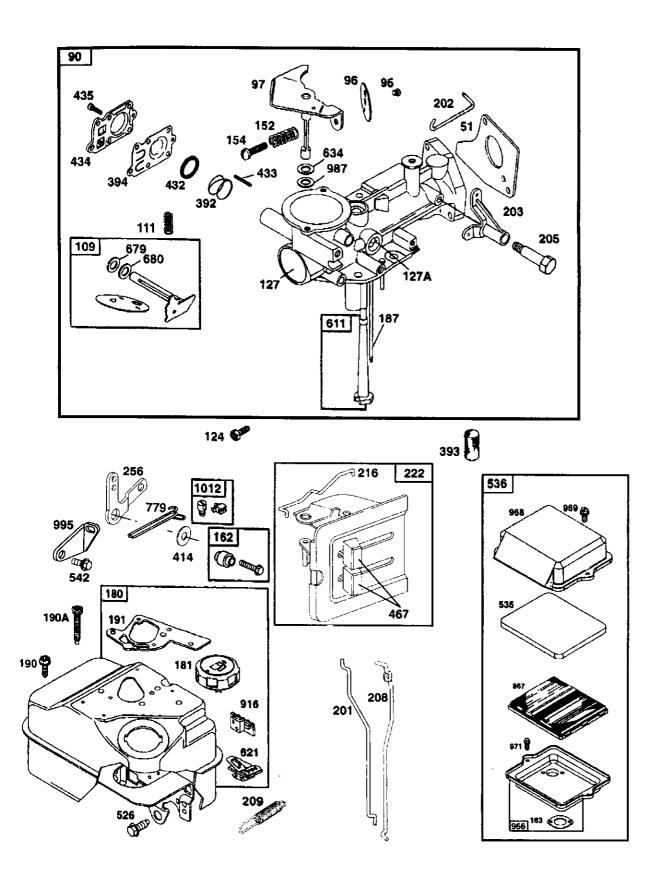
NO.	NO.	DESCRIPTION			
	9173R	Spacer, Split			
15	STD541431	Nut, Hex, Keps 5/16-18 UNC			
16	19091412	Washer 9/32 x 7/8 x 12 Ga.			
17	19092016	Washer 9/32 x 1-1/4 x 16 Ga.			
18	STD551125	Washer, Lock 1/4			
19	74610412	Bolt, Hex 1/4-28 x 3/4 Gr. 5			
20	• • •	Engine (See Breakdown)			
		Briggs Model 134202, 1118-E1			
NOTE the second discount of the second secon					

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

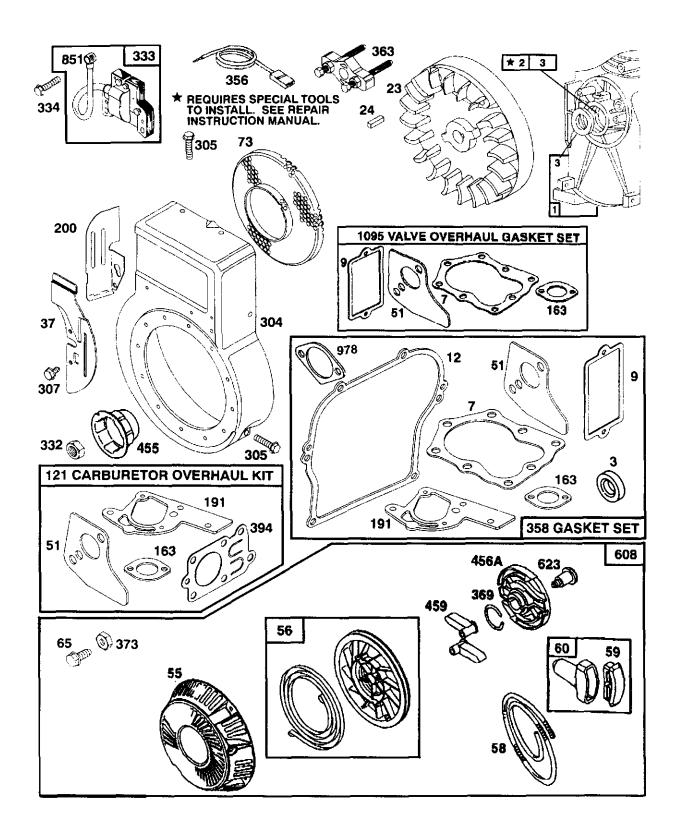


	Y PART D. NO.	DESCRIPTION					
2	166214	Decal, Logo					
4	166215	Decal, Belt Guard Tine Shield HP					
5	137539	Decal, Cntrl Pnl Inst.					
6	120431	Decal, Hand Placement					
7	110719X	Decal, Oper./Lub					
8	120075X	Decal, Warning, Rotating Tines					
9	171803	Decal, Engine					
10	168975	Decal, 5.5 HP					
11	162215	Decal, Tine Shield Warning					
12	166217	Decal, Control Panel					
• -	175021	Manual, Owner's (Eng/Span)					





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	PART		DECODIDITION	KEV	DADT		
NO.	NO.		DESCRIPTION	NO.	PART NO.		DESCRIPTION
1	495133		Cylinder Assembly				
	399268		Bushing, Cylinder	35	260552		Spring, Intake Valve
3	299819	ø*	Seal, Oil	36	26478		Spring, Exhaust Valve
5	214040		Head, Cylinder	37	222443		Guard, Flywheel
2 3 5 7	272157	ø*		40	93312		Retainer, Intake Valve and
8	495774		Breather Ássembly				Exhaust Spring
9	27549	*	Gasket, Valve Cover	45	260642		Tappet, Valve
10	94621		Screw, Breather Mounting	46	212733		Gear, Cam
11	66578		Grommet, Breather Tube	51	273113	Ø•*	Gasket, Carburetor
12	270080	*	Gasket, Crankcase, Standard				Mounting (2)
•			.015"	55	497442		Housing, Réwind Starter
	270125	*	Gasket, Crankcase .005"	56	498144		Pulley, Rewind Starter
			Thick	58	280399		Rope, Rewind Starter
	270126	*	Gasket, Crankcase .009"				(Cut to Required Length)
			Thick	59	396892		Insert, Starter Handle
13	94221		Screw, Cylinder Head 2-3/32"	60	393152		Handle, Rewind Starter
14	94679		Screw, Cylinder Head 2-15/32"	65	94686		Screw, Housing Mounting
15	94916		Plug, Pipe, Hex Socket	73	225176		Screen, Rotating
16	492088		Crankshaft	81	222263		Lock, Screw
18	494044		Cover Assembly, Crankcase	90	498298		Carburetor Assembly
19	495660		Bushing, Crankcase Cover	95	93499		Screw, Throttle Valve to Shaft
20	294606	*	Seal, Oil	96	223793		Throttle, Carburetor
21	281658		Plug, Oil Filler	97	497600		Shaft and Lever, Throttle
21A	399195		Plug, Oil Filter	109			Valve and Shaft Group, Choke
22	94682		Screw, Cover Mounting	111	262715		Spring, Choke
23	399673		Flywheel, Magneto		495606		Carburetor Overhaul Kit
24	222698		Key, Flywheel	124			Screw, Hex Head
25	399819		Piston Assembly, Standard	127			Plug, Welch
			Size	127/	A 22378	9	Plug, Welch
	393820		Piston Assembly .010"	146	94388		Key, Timing Gear
			Oversize	152	260575		Spring, Throttle Adjustment
	393821		Piston Assembly .020"	154	93527		Screw, Machine, Round Head
			Oversize	162			Screw and Collar
	393822		Piston Assembly .030"		271935	Ø•*	Gasket, Air Cleaner Mounting
			Oversize		495405		Tank Assembly, Fuel
26	393067		Ring Set, Piston, Standard	181	494559		Cap, Fuel Tank
			Size	187	231068		Pipe, Fuel
	399014		Ring Set, Piston .010"	190			Screw, Torx®
			Oversize	190/			Screw, 1-3/4"
	399015		Ring Set, Piston .020"	191	272489	Ø•*	Gasket, Fuel Tank to
			Oversize				Carburetor
	399016		Ring Set, Piston .030"	200	223886		Guide, Air
~-			Oversize	201	262280		Link, Governor
27	26026		Lock, Piston Pin	202	262270		Link, Throttle
28	298909		Pin Assembly, Piston,	*	1		
	000000		Standard	~	included	n u	Basket Set (495603)
	298908		Pin Assembly, Piston .005"				Sauth surgers of the surgers of Kits (405000)
00	000400		Over	•	Included	a in c	Carburetor Overhaul Kit (495606)
29	299430		Rod Assembly, Connecting	-			(alua Quadhavil Caalvat Cat
	390459		Rod Assembly, Connecting	ø			/alve Overhaul Gasket Set
20	005400		.020" Undersize Crankpin Bore		(498529	リー	
30	225183		Dipper, Connecting Rod	NOT		mne	nont dimonsions divon in LLS
32	94699		Screw, Connecting Rod				nent dimensions given in U.S.
33 34	211119 261044		Valve, Exhaust Valve, Intake	inch	es 1 inch	= 2:	2.4 11811
440	201044		vaive, make				

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
203	280720	Bell Crank	542	94897	Screw
205	231520	Screw, Shoulder	552	231079	Bushing, Governor Crank
208	262279	Rod, Speed Control	562	94907	Bolt, Governor Lever
209	262948	Spring, Governor	592	231978	Nut, Hex
216	262359	Link, Choke	608	497830	Starter Assembly, Rewind
219	494845	Gear, Governor	611	391813	Fuel Pipe and Clip Assembly
220	221551	Washer, Thrust	613	93935	Screw, Hex Head, Shoulder
222	490649	Panel, Control	614	93306	Pin, Cotter
227	490374	Lever Assembly, Governor	616	495243	Crank, Governor
230	94927	Washer, Governor Lever	621	396847	Switch, Stop
256	223813	Crank, Bell	623	94943	Screw, Shoulder
300	494585	Muffler, Exhaust	634	271853	Washer, Throttle Shaft, Foam
304	495759	Housing, Blower	635	66538	Elbow, Spark Plug
305	94786	Screw, Blower Housing	676	393757	Deflector, Exhaust, Side Outlet
000	000	Mounting	679	270382	Washer, Foam
306	224820	Shield, Cylinder	680	221839	Washer, Brass
307	94680	Screw, Cylinder Shield	741	262992	Gear, Timing
308	224738	Cover, Cylinder Head	779	262570	Link
332	94877	Nut, Flywheel	851	493880	Cable Terminal, Ignition
333	397358	Armature Group	869	211787	Seat, Intake Valve, Standard
334	93414	Screw, Armature Mounting	870	263094	Seat, Exhaust Valve, Standard
337	802592	Plug, Spark	871	262001	Guide, Exhaust Valve
346	94896	Screw, Sems	0	63709	Guide, Intake Valve
356	497833	Wire, Ground	883	272228	Gasket, Exhaust
358	495603	Gasket Set	916	280321	Rack, Gear Control
363	19069	Flywheel Puller	966	492797	Base, Air Cleaner
369	263073	Spring	967	491588	Filter, Air Cleaner
373	94908	Nut, Hex	968	495872	Cover, Air Cleaner
383	89838	Wrench, Spark Plug	969	490073	Screw, Air Cleaner
392	262328	Spring, Fuel Pump Diaphragm	971	94902	Screw, Hex Head
393	225058	Screen	978	273326	Gasket, Cover
	272538 •	Diaphragm	979	494807	Cover, Oil Guard®
414	220982	Washer	982	94658	Screw, Hex Head
432	221377	Cap, Spring	987	398970	Seal, Throttle Shaft
	93265	Pin, Diaphragm Cover	994	399541	Spark Arrester
434	213963	Cover, Diaphragm	995	225057	Lever, Bracket Assembly
	93141	Screw, Diaphragm Cover		490507	Retainer, Link
455	225121	Cup, Starter		499345	Label Kit, Emission
456	225257	Retainer Spring		498529	Gasket Set, Valve Overhaul
456A	281503	Retainer			4 Replacement Engine
459	281505	Pawl, Starter			Replacement Shortblock
467	280715	Knob, Control			
524	271485 *	Seal, O-Ring	RPM	Settings:	Low: 1200-1600,
526	94914	Screw, Sems, Tank Bracket		j	High: 3500-3700
		Mount.			g ·· • • • • • • •
527	223786	Clamp, Breather Tube	*	Included in (Gasket Set (495603)
528	231550	Tube, Breather			
529	67838	Grommet, Breather Tube	٠	Included in (Carburetor Overhaul Kit (495606)
535	491435	Filter, Air			
536	494279	Cleaner, Air	ø	Included in V	/alve Overhaul Gasket Set
		·			(498529)
					· · · · · · · ·

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

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