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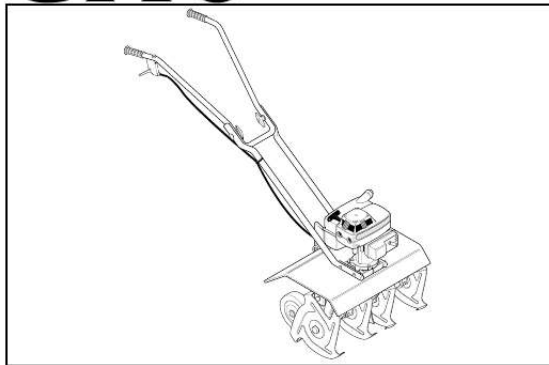
You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA CT 16 CULTIVATOR. You'll find the answers to all your questions on the HUSQVARNA CT 16 CULTIVATOR in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HUSQVARNA CT 16 CULTIVATOR
User guide HUSQVARNA CT 16 CULTIVATOR
Operating instructions HUSQVARNA CT 16 CULTIVATOR
Instructions for use HUSQVARNA CT 16 CULTIVATOR
Instruction manual HUSQVARNA CT 16 CULTIVATOR

 Husqvarna



CT16



1.1996
Spare Parts
Pièces Détachées

Owner's Manual 601 00 18-54
Reference No. 337411 05/03/95



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Manual abstract:

@@Be thoroughly familiar with the controls and the proper use of the tiller/cultivator. Know how to stop the tiller/cultivator and disengage the controls quickly. Do not operate the tiller/cultivator without wearing adequate outer garments. Wear footwear that will improve footing on slippery surfaces. Keep the area of operation clear of all persons, particularly small children and pets. Thoroughly inspect the area where the tiller/ cultivator is to be used and remove all foreign objects. Handle fuel with care; it is highly flammable. Use an approved container. Check fuel supply before each use, allowing space for expansion as the heat of the engine and/or sun can cause fuel to expand. Fill fuel tank outdoors with extreme care.

Never fill fuel tank indoors. Replace fuel tank cap securely and wipe up spilled fuel. Never remove the fuel tank cap or add fuel to a running or hot engine. Never store fuel or tiller/cultivator with fuel in the tank inside a building where fumes may reach an open flame. Never allow children or young teenagers to operate the tiller/cultivator.

Keep them away while it is operating. Never allow adults to operate the tiller/cultivator without proper instruction. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect your eyes from foreign objects that may be thrown from the tiller/cultivator. 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. Exercise caution to avoid slipping or falling. Never operate the tiller/cultivator without proper guards, plates, or other safety protective devices in place. Never operate the tiller/cultivator at high transport speeds on slippery surfaces. Look behind and use care when backing. q q q q Never allow bystanders near the tiller/cultivator. Keep children and pets away while operating. Never operate the tiller/cultivator without good visibility or light. Do not run the engine indoors. The exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).

Take all possible precautions when leaving the tiller/cultivator unattended. Stop the engine. Do not overload the tiller/cultivator capacity by attempting to till too deep at too fast a rate. Always refer to the owner's manual instructions for important details if the tiller/cultivator is to be stored for an extended period. Never store the tiller/cultivator with fuel in the fuel tank inside a building where ignition sources are present such as water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure. Keep the tiller/cultivator in safe working condition. Check all fasteners at frequent intervals for proper tightness. After striking a foreign object, stop the engine (motor). Remove the wire from the spark plug, and keep the wire away from the plug to prevent accidental starting.

Thoroughly inspect the tiller/cultivator for any damage, and repair the damage before restarting and operating the tiller/cultivator. If the tiller/cultivator 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) whenever you leave the operating position. Also, disconnect the spark plug wire before unclogging the tines and when making any repairs, adjustments, or inspections.

When cleaning, repairing, or inspecting, shutoff the engine and make certain all moving parts have stopped. Never attempt to make any adjustments while the engine is running (except when specifically recommended by the manufacturer). q q q q q FUEL SAFETY q q q q q SAFE STORAGE q q q q q FUEL SAFETY q OPERATING SAFETY q q q q q q q q q q q LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED. 2 OWNER'S INFORMATION Record the following information about your unit so that you will be able to provide it in case of loss or theft.

MODEL NUMBER: PURCHASE DATE: (Enter complete 8 digit number from model plate on unit) // CODE NO.: SERIAL NO.: DEALER'S NAME AND ADDRESS: CITY: STATE: TELEPHONE: WARNING : This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forestcovered, 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. A spark arrester for the muffler is available through your nearest engine authorized service dealer. TABLE OF CONTENTS SAFETY RULES ..

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..... Back Cover PARTS CONTENTS OF SHIPPING CARTON 1 - 10 inch Tiller/Cultivator completely assembled except for the handles and throttle control assembly 1 - Upper Handle 1 - Left Hand Lower Handle 1 - Right Hand Lower Handle 1 - Owner's Manual (Not Shown) 1 - Bag of Assembly Parts (See below) TO REMOVE TILLER/CULTIVATOR FROM CARTON q q q q Remove plastic parts bag for tiller/cultivator from carton. Remove handles from the carton. Remove remainder of packing material from carton. Lift the tiller/cultivator out of carton and place on a hard, level surface. Remove packing material from around tines.

TOOLS REQUIRED FOR ASSEMBLY 2 - 7/16 inch Wrenches (or adjustable wrenches) 1 - Regular Screwdriver 1 - Pair Scissors PARTS BAG CONTENTS OF PARTS BAG (shown actual size) 1 - 10-16 x 1-1/2 Inch Washer Head Tap Screw 1 - Tie Strap 1 - Shut-Off Switch and Parts California Proposition 65 WARNING! The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. 3 ASSEMBLY CAUTION: ALWAYS WEAR SAFETY GLASSES OR EYE SHIELDS WHILE ASSEMBLING TILLER/CULTIVATOR. FIG. 1-ASSY 2 SPACERS 2 LOCKNUTS 2 SPACERS 2 HANDLE MOUNTING SCREWS FIG. 1-OP on page 6 shows the tiller/cultivator completely assembled. Reference to

the right and left hand side of the tiller/cultivator is from the operator's position behind the unit. TINE SHIELD TO INSTALL THE HANDLE ASSEMBLY The lower handles have a short bend at the bottom end and are flattened at the top to allow the upper handle to be placed between the lower handles. To assemble the handles, do the following: q q Unwind the throttle control from around the engine and straighten the cable. Be careful you do not kink the cable. Remove two locknuts, four spacers and two handle mounting screws from the tine shield (See FIG.



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ASSY). Insert the right side lower handle section into the mounting channel between the tine shield and the engine casting (See FIG. 2-ASSY). Push the mounting screws through the tine shield, handle and approximately halfway into the engine casting. Be sure a spacer is on each mounting screw (See FIG. 3-ASSY). It may be necessary to rotate the lower handle to align the mounting holes. To allow proper mounting of the upper handle section be sure the flat portion of the lower handle is facing inward. Position the left side lower handle section into the mounting channel between the tine shield and the engine casting. Align the holes in the handle with the engine casting and the tine shield, then push the mounting screws completely through the engine casting, tine shield and handle.

Install a spacer onto the mounting screws and secure the lower handle sections using two locknuts previously removed (See FIG. 3-ASSY). Finger tighten the locknuts at this time. Remove hardware from upper handle. Place the upper handle between the lower handles (See FIG. 4-ASSY) and secure with two curved head carriage bolts, two formed washers, two 11/32 inch flatwashers and two tee knobs (removed earlier) on the inside of the handle. You must insert a hex nut into each tee knob. Finger tighten only. Pull back on the tee knob to engage the hex opening with the hex nut. Tighten the tee knob.

The nut will be pulled into the cavity and locked. The lower handles have two holes at the top end to allow the upper handle to be positioned at two different heights. Using two 7/16 inch wrenches, tighten the locknuts on the screws in the lower ends of the lower handles just enough to hold the lower handles firmly in place. FIG. 2-ASSY FIGURE 3 FRONT VIEW q TINE SHIELD LOWER END OF HANDLE q MOUNTING CHANNEL Figure 4 FIG. 3-ASSY SPACERS LOCKNUTS q q SPACERS q MOUNTING Figure 5 SCREWS TINE SHIELD 4 ASSEMBLY IMPORTANT: OVERTIGHTENING THE SCREWS ENOUGH TO

CHANGE THE SHAPE OF THE HANDLES CAN RESULT IN DAMAGE TO THE ENGINE CASTING. q Hold the curved head carriage bolt against the outside of the lower handle while tightening the tee knobs securely. TEE KNOB NO. 10 X 1-1/2 INCH HEX HEAD SCREW HANDLE GRIP UPPER HANDLE HEX NUT FIG. 4-ASSY HANDLE GRIP TO INSTALL THE THROTTLE CONTROL ASSEMBLY q Place a No.

10 x 1-1/2 inch hex head screw down through the hole in the upper handle right side and attach the throttle control to the underside of the handle (See FIG. 4-ASSY). Attach the throttle cable to the right lower handle by threading a tie strap through the hole in the lower handle and around the throttle cable on the outside of the handle (See FIG. 4-ASSY). Thread the pointed end of the strap through the other (square) end of the strap and pull tight around the throttle cable and lower handle.

THROTTLE CONTROL FORMED WASHER CURVED HEAD CARRIAGE BOLT LEFT LOWER HANDLE q 11/32 INCH FLATWASHER TIE STRAP RIGHT LOWER HANDLE q NOTE: One side of the tie strap is rough, while the other side is smooth. The rough side must be on the inside of the loop formed when the ends of the tie strap are put together. q Try to loosen the tie strap. If it will loosen, it is put together with the smooth side to the inside of the loop.

Remove the tie strap and reverse the direction.

Cut off excess strap. FIG. 5-ASSY q TO INSTALL THE REMOTE SHUT-OFF SWITCH q q Assemble shut off switch (See FIG. 5-ASSY). Attach assembled switch to left lower handle (switch on inside of handle) with a No. 10x1-1/16 inch hex head screw and a No. 10 keps nut. Tighten securely. Push switch wire onto prong on bottom side of switch (See FIG. 5-ASSY).

Attach switch wire to left lower handle (See FIG. 6ASSY) as close to the engine casting as possible with a cable tie strap. FIG. 6-ASSY q q 5 OPERATION KNOW YOUR TILLER/CULTIVATOR READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TILLER/CULTIVATOR.

Compare the illustrations with your tiller/cultivator to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference. FIG. 1-OP RECOIL STARTER HANDLE SHUT-OFF SWITCH UPPER HANDLE ON THROTTLE CONTROL LEFT SIDE LOWER HANDLE OFF

OFF C H O K FULL E FUEL TANK AIR CLEANER CHOKE CONTROL LEVER CUL/DET ENGINE RIGHT SIDE LOWER HANDLE DEPTH ROD/ TRANSPORT WHEELS TINE SHIELD CULTIVATOR TINES THROTTLE CONTROL - Controls the engine speed and the tine rotation. This tiller/cultivator is equipped with a centrifugal clutch that engages the tine drive system when the engine speed is increased. CHOKE CONTROL LEVER - Used to assist in starting a cold engine.

SHUT-OFF SWITCH - Used to stop the engine. STARTER HANDLE - The engine on this tiller/cultivator is equipped with an easy pull recoil starter. DEPTH ROD/TRANSPORT WHEELS - Used to adjust the depth of the cut. It also acts as a brake to help the operator contro fresh, clean, unleaded automotive gasoline into a gallon gasoline container. Add (5 oz.

) of clean, high quality two-cycle oil into the gasoline container. q CAUTION: DO NOT TOUCH THE THROTTLE CONTROL WHILE STARTING THE ENGINE. THE TILLER/CULTIVATOR WILL PROPEL ITSELF IF THE ENGINE SPEED IS ADVANCED FROM IDLE. Tilt the tiller/cultivator back on the depth rod or transport wheels to raise the tines off the ground. Grasp the upper handle firmly to stabilize the tiller/cultivator and pull the starter handle with short quick pulls.

Do not allow the starter handle to snap back, let it rewind slowly while holding the starter rope. It will take a few pulls on the starter handle to feed gas from the fuel tank to the carburetor. When engine starts, move the choke control to 1/2 choke position until the engine runs smoothly. Then move choke control to (OFF) position. If engine falters, move choke control to 1/2 choke position until engine runs smoothly. Then move choke control to (OFF) position. If engine fires, but does not continue to run, move choke control to no choke position and repeat starting instructions. IMPORTANT: DO NOT USE OUTBOARD MOTOR OIL OR MULTI-VISCOSITY OILS, SUCH AS 10W-30 OR 10W-40. DISREGARD MIX RATIO INFORMATION ON OIL CONTAINER IF INSTRUCTIONS CONFLICT WITH FUEL MIXTURE CHART BELOW. q Reinstall the cap on the gasoline container and shake container vigorously so the oil mixes with the gasoline.

Add an additional 3 U.S. quarts of gasoline to the gallon container and shake the container again. q q q q FUEL MIXTURE CHART (Mixture 24:1) U. S. GAS OIL 1 Gal. 5 oz. 2 Gal. 11 oz. 5 Gal.

27 oz. q q S. I. @@@@DO NOT USE GASO LINE ADDITIVES BECAUSE THE ENGINE MAY BE DAMAGED. @@@@Never use fuel that may be stale from long periods of storage.

Move the shut-off switch to the (ON) position. Move the choke control (see FIG. @@Loose unpacked soil helps root growth. Best tilling depth is 4 to 6 inches. Tilling will also clear the soil of unwanted vegetation.

The decomposi tion of this vegetation matter enriches the soil. @@@@2-OP). @@Also, with the wheels down, it is used for transporting the unit. @@@@FIG. @@• KNOW LOCATION AND FUNCTIONS OF ALL CONTROLS.



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•KEEP ALL SAFETY DEVICES AND SHIELDS IN PLACE. •NEVER ALLOW CHILDREN OR UNINSTRUCTED ADULTS TO OPERATE TILLER. •SHUT OFF ENGINE BEFORE UNCLOGGING TINES OR MAKING REPAIRS. •KEEP BYSTANDERS AWAY FROM MACHINE. @@@@•ROTATING TINES CAN CAUSE INJURY.

10 MAINTENANCE GENERAL The warranty on this tiller/cultivator does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the tiller/cultivator as instructed in this manual. The following Service Recommendations Chart is provided to assist the operator properly maintain the tiller/cultivator. **SERVICE RECOMMENDATIONS CHART SERVICE RECORDS** Fill in dates as you complete regular service Before Each Use After first 2 Hours SCHEDULE Every 25 Hours Every 75 Hours Before Storage Each Season **SERVICE DATES** Tighten All Screws and Nuts Lubricate Transmission Lubricate Tine Shaft Clean and Re-Oil Air Cleaner Filter Check Spark Plug Cylinder Exhaust Ports Drain Fuel LUBRICATION Every 25 hours and/or at the beginning of each season, the gear box should be filled with lubricant. Tubes of gear lubricant are available from most automotive supply stores. Use portable tool grease such as Lubriplate 630AA (Product No. 06787 - 1-3/4 oz. tube) or Lubriplate GR-132 (Product No. 15892 - 10 oz. tube).

The tine shaft should have oil applied before storage and after cleaning if the tiller/cultivator is flushed with water. The following illustration is provided to assist the operator properly maintain the tiller/cultivator. **AIR VENT SCREW TRANSMISSION FIG. 1-C.R.**

FELT WASHER CHECK TRANSMISSION GREASE LEVEL q q q Remove both left side tines (See Service and Adjust ments section) in this manual. Remove the air vent screw (See FIG. 1-C.R.) from the top left side of the transmission.

Using a grease gun, fill the transmission through the grease fitting until the new grease begins to come out of the air vent screw hole. Reinstall the air vent screw. Check the condition of the felt washer in the side of the transmission at the tine shaft (See FIG. 1-C.R.). Re place the felt washer if it is damaged (See Repair Parts section in this manual). Clean tine shaft, spread a few drops of oil on shaft in tine replacement areas. Reinstall the tines. Remove the right side tines.

Check the felt washer for damage, clean and oil the tine shaft. Reinstall the tines. **GREASE FITTING** (Lubricate the gear box with Lubriplate 630AA or Lubriplate GR132) **TINE SHAFT** (Oil the tine shaft before storage and after cleaning if the dethatcher/ cultivator is flushed with water) **VIEW OF LEFT SIDE WITH TINES REMOVED** q q q q **11 MAINTENANCE ENGINE AIR CLEANER** The air cleaner filter should be cleaned and reoiled after 3 months or 25 hours of operation. Clean more often under dusty conditions. **IMPORTANT:** The engine can be worn out in a very short period of time if dirt or grit is allowed to enter the engine. To clean the air filter, do the following: **OFF FIG. 2-C.R. FOAM ELEMENT SCREWS ON OFF** q q q q Loosen screws on air cleaner cover (See FIG. 2-C.

R.) and remove the cover. Remove foam element from air cleaner. Wipe inside of the air cleaner housing clean. Clean the foam element by washing in a strong solution of water and household detergent.

Then rinse thor oughly in clean water. Wrap foam element in clean cloth and squeeze out (do not twist) all the liquid until dry. Cover the ends and side of the foam element with same oil used in fuel mixture. Knead the foam element be tween fingers to distribute oil and remove excess oil. Reinstall foam element in air cleaner housing.

Service the foam element carefully, inspecting for deterio ration or damage. A defective, improperly serviced, or misassembled air filter will allow dirt particles to enter the engine. Reassemble the filter (See FIG. 2-C.R.). Place the cover on the air cleaner housing and tighten screws to secure cover to the housing. **CAUTION: NEVER RUN THE ENGINE WITHOUT THE AIR CLEANER ELEMENT INSTALLED. A DEFECTIVE AIR CLEANER CAN RESULT IN LOSS OF ENGINE POWER AND CAN CAUSE EXCESSIVE WEAR OR DAMAGE TO THE ENGINE COMPONENTS IF DIRT OR DUST IS PERMITTED TO ENTER THE ENGINE THROUGH THE CARBURETOR. AN AIR CLEANER THAT IS CLOGGED WITH DUST OR DIRT SHOULD BE CLEANED AND RE-OILED.**

C H O K FULL E HOUSING COVER q q **CLEANING** (See FIG. 3-C.R.) Always remove the dirt and debris from the tiller/clutivator after each use. Remove any string, wire or vegetation that may become lodged in the mechanism and stop the tine rotation. Proceed as follows: q Release the throttle control and move the shut-off switch to the (OFF) position, then disconnect the spark plug wire. Remove hairpin and clevis pin securing tine(s) assembly to the shaft and remove the tine(s). Remove lodged material. Reassemble tine(s) on shaft and secure with a clevis pin and hairpin. Reconnect spark plug wire and restart engine.

FIG. 3-C.R. q q q q q TINE SHIELD CLEVIS PINS LODGED ITEM CLEVIS PINS SPARK PLUG If the engine is flooded, clean the area around the spark plug base to prevent foreign material from entering the cylinder(s) when the plug is removed. Remove and dry the spark plug.

Regap the electrodes to .030 if necessary. If a new spark plug is needed, refer to the Engine Operation and Maintenance manual for the proper replacement spark plug. Tighten the spark plug firmly. If a torque wrench is available, torque the spark plug to 15 foot-pounds.

RIGHT SIDE TINES LEFT SIDE TINES HAIRPINS HAIRPINS TRANSMISSION CYLINDER EXHAUST PORTS The cylinder exhaust ports should be cleaned after each seventy-five (75) to one hundred (100) hours of operation. For this procedure we recommend that you take your unit to a technician trained to work on two cycle engines. **12 SERVICE & ADJUSTMENTS TINE REPLACEMENT** The tiller/cultivator is left hand or right hand as viewed from the operator's position behind the unit. All four tines on this unit are different and cannot be interchanged. The tines must be properly installed as shown in figures 1 and 2 or the tiller/cultivator will not function properly. The outside tines may be removed to reduce the tilling width to about 6 inches, for working close around plants or in small areas, if desired. When reinstalling the outside tines see below. **FRONT VIEW CLEVIS PINS FIG. 1SERV.& ADJ.**

RIGHT SIDE TINES LEFT SIDE TINES CAUTION: THE TINES ARE SELF-SHARPENING AND WILL BECOME QUITE SHARP FROM USE. HANDLE CAREFULLY. HAIRPINS The tines will all wear fairly evenly. If the tines are being replaced because of wear, we recommend that all four tines be replaced at the same time. To replace the tines, do the following: q q Place the shut-off switch to the (OFF) position and disconnect the spark plug wire. Remove the hairpins and the clevis pins from the tines on one side of the unit and remove the tines (See FIG.. 1-SERV.&ADJ.).

Clean the tine shaft and oil the shaft at the tine locations. Place the inside tine on the tine shaft and reinstall the clevis pin and hairpin. When the tines are properly installed, the letter "R" will be visible on the outside of the right-hand tine (the letter "L" on the left-hand tine).



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The letter should appear opposite the small hole in the side of the tine. Place the outside tine on the tine shaft and reinstall the clevis pin and hairpin cotter. The outside tine cutting tips will all bend in toward the inside tine. The letter "R" on the right side or "L" on the left side should be visible from the outside of the unit. Repeat steps on the opposite side of the unit. Check to make sure the tines are installed on correct side of the unit (See FIG. 2-SERV.

&ADJ). FIG. 2SERV. & ADJ. PROPERLY INSTALLED RIGHT SIDE TINES q q q q q RIGHT SIDE INDICATOR q q 13 SERVICE & ADJUSTMENTS CARBURETOR ADJUSTMENT A dirty air cleaner will cause the engine to run improperly and/or smoke excessively. Be sure the air cleaner is clean before adjusting the carburetor. Never make unnecessary adjustments to the carburetor. The carburetor was set at the factory to operate efficiently under most applications. However, if adjustments are required, we recommend you contact a competent repairman. If you feel that you are competent to make carburetor adjustment proceed as follows: FIG.

3SERV&ADJ CAUTION: USE EXTREME CARE WHEN MAKING ADJUSTMENTS THAT REQUIRE THE ENGINE TO BE RUNNING. KEEP HANDS, FEET, HAIR AND LOOSE CLOTHING AWAY FROM ANY MOVING PART. q Turn the mixture adjusting screw (See FIG. 3SERV. & ADJ.) clockwise to close. YOUR FINGERS TO PREVENT DAMAGE TO THE CARBURETOR OR ADJUSTING SCREW. IDLE SPEED ADJUSTING SCREW MIXTURE ADJUSTING SCREW CARBURETOR IMPORTANT: TIGHTEN THE ADJUSTING SCREW WITH ENGINE SHOWN WITH AIR CLEANER REMOVED q q Turn the mixture adjusting screw counterclockwise (open) 1-3/8 turns. Start the engine and let it warm up approximately 3 to 5 minutes. Do not adjust the carburetor when the engine is cold.

If the engine falters or stops after the choke lever is moved to the (OFF) position, open the mixture adjusting screw an additional 1/8 turn counterclockwise. @ Turn the mixture adjusting screw (See FIG. 3SERV. & ADJ) slowly clockwise until the engine falters. Note this location.

@ Note this location. @ @ @ @ If the tines do not turn when the engine is running and the throttle control is released, the idle speed will not need adjusting. If the tines turn when the throttle control is released, do the following: Have someone hold the tiller/cultivator back on the depth bar with the tines off the ground. Start the engine. With the throttle in the released (idle) position, turn the idle speed adjusting screw counter-clockwise until the tines stop rotating. q q a. CAUTION: 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 SPEEDS NEEDS ADJUSTING, CONTACT A COMPETENT REPAIRMAN WHICH HAS THE PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS. b. c. q a. b. c. 14 STORAGE q CAUTION: NEVER STORE ENGINE WITH FUEL IN TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREA, WHERE FUEL FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER, ETC.

NOTE: The tiller/cultivator should be immediately prepared for storage at the end of the season or if the unit will not be used for 30 days or more. Drain the fuel from the fuel tank into an approved container outdoors, away from open flame. Start and run the engine until it stops due to lack of fuel. Pull the starter handle slowly until you feel resistance due to compression pressure, then stop. Release the starter tension slowly to prevent the engine from reversing due to compression pressure. This position will close both the intake and exhaust ports to prevent corrosion of the piston and cylinder bore. q q q OTHER q q If possible, store your tiller/cultivator indoors and cover it to give protection from dust and dirt. Cover the tiller/cultivator with a suitable protective cover that does not retain moisture. Do not use plastic. TILLER/CULTIVATOR q q q q q Thoroughly clean the tiller/cultivator.

Remove all dirt and debris from the engine and unit. Remove the tines and oil the tine shaft and reinstall the tines (See Service/Adjustments section in this manual). Loosen the tee knobs that secure the upper handle to the lower handle. Carefully fold the upper handle down making sure the throttle is not kinked. Tighten the tee knobs.

The cross piece of the upper handle (between the lower handles) can now be used as a carry handle or can be hooked over a wall hook to store the tiller/cultivator up off the floor out of the way. IMPORTANT: NEVER COVER THE TILLER/ CULTIVATOR WHILE THE ENGINE AND EXHAUST AREAS ARE STILL WARM. NOTE: A yearly checkup or tuneup by a competent repairman is a good way to insure that your tiller/cultivator will provide maximum performance for the next season. ENGINE 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 INDICATE THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOLOR 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. 15 TROUBLE SHOOTING TROUBLE Difficult starting CAUSE Stale fuel mixture Too much oil in mixture CORRECTION Drain fuel tank. Fill with fresh mixture. Check fuel mix chart and mix fresh fuel. Clean fuel tank. Fuel tank should be half full when starting engine. See carburetor adjustment section. Clean and re-gap plug. Clean and re-oil air cleaner. Blow dirt and debris off top of carburetor.

Engine runs erratically Dirt in fuel tank or out of fuel Engine will not run at full speed Carburetor out of adjustment Fouled spark plug Plugged air cleaner Engine speed does not increase properly Engine smokes excessively Debris interfering with throttle linkage Plugged air cleaner Too much oil in fuel mixture Clean and re-oil air cleaner. Check fuel mix chart and mix fresh fuel. Adjust carburetor idle speed. See Carburetor Adjustment paragraph in Service/Adjustments section of this manual. Remove lodged item. See Cleaning paragraph in the Maintenance section of this manual. Check the tines for proper installation. See the Tine Replacement paragraph in the Service/Adjustment section of this manual. Tines continue to rotate when throttle control is released Tines will not turn Carburetor out of adjustment Foreign object lodged in tine Unit does not till properly Incorrect tine installation 16 .



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