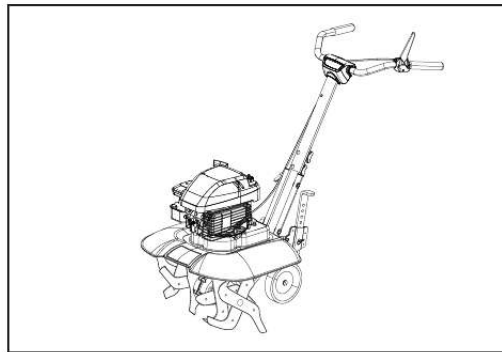




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MCCULLOCH MC550. You'll find the answers to all your questions on the MCCULLOCH MC550 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MCCULLOCH MC550**  
**User guide MCCULLOCH MC550**  
**Operating instructions MCCULLOCH MC550**  
**Instructions for use MCCULLOCH MC550**  
**Instruction manual MCCULLOCH MC550**



## MC550

Operator's manual / /96083000300 / 2010-01

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**Manual abstract:**

Never allow children to operate the equipment. @@@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). 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. 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 ensure 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. MAINTENANCE AND STORAGE . . . - IMPORTANT CAUTIONS,

IMPORTANT, AND NOTES ARE A MEANS OF ATTRACTING ATTENTION TO IMPORTANT OR CRITICAL INFORMATION IN THIS MANUAL. IMPORTANT: USED TO ALERT YOU THAT THERE IS A POSSIBILITY OF DAMAGING THIS EQUIPMENT. 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.

NOTE: Gives essential information that will aid you to better understand, incorporate, or execute a particular set of instructions. Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! 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.

2 PRODUCT SPECIFICATIONS Gasoline Capacity: Oil (API-SG-SL): (Capacity: 20 oz./0.6L) Spark Plug: (Gap: .030"/0.76mm) 0.9 Quarts (0,85 L) Unleaded Regular SAE 10w-30(Above 32°F/0°C) SAE 5w-30(Below 32°F/0°C) Champion RJ19LM or J19LM CUSTOMER RESPONSIBILITIES . . . Read and observe the safety rules. Follow a regular schedule in maintaining, caring for and using your tiller. Follow instructions under "Maintenance" and "Storage" sections of this Manual. CONGRATULATIONS on your purchase of a new 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 service center. 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". IMPORTANT: THIS UNIT IS EQUIPPED WITH AN INTERNAL COMBUSTION ENGINE AND

SHOULD NOT BE USED ON OR NEAR ANY UNIMPROVED FOREST-COVERED, BRUSHCOVERED OR GRASS COVERED LAND UNLESS THE ENGINE'S EXHAUST SYSTEM IS EQUIPPED WITH A SPARK ARRESTER MEETING APPLICABLE LOCAL 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, A SPARK ARRESTER 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 AUTHORIZED SERVICE CENTER/DEPARTMENT FOR SPARK ARRESTER. TABLE OF CONTENTS SAFETY RULES ....

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. 2 PRODUCT SPECIFICATIONS ....

3 CUSTOMER RESPONSIBILITIES.....

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. 17-21 3 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 ensure proper tightness. **TOOLS REQUIRED FOR ASSEMBLY** A socket wrench set will make assembly easier.

Standard wrench sizes are listed. (1) Utility Knife **UNPACK CARTON & INSTALL HANDLE** (See Fig. 2 and 3) **CAUTION:** Be careful of exposed staples when handling or disposing of carton material. **IMPORTANT: WHEN UNPACKING AND ASSEMBLING TILLER, BE CAREFUL NOT TO STRETCH OR KINK CABLE(S).** **OPERATOR'S POSITION** (See Fig.

1) When right or left hand is mentioned in this manual, it means when you are in the operating position (standing behind tiller handles). **FRONT** . . . . Cut cable ties securing handle column.



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Remove all packing from carton. Remove lower handle column from carton. Position lower handle column between bent tubes, lining up holes as shown. Secure lower handle column using two (2) 4-1/2" carriage bolts, two (2) washers and two (2) handle knobs. Tighten securely. LOWER HANDLE COLUMN KNOBS LEFT RIGHT OPERATOR'S POSITION WASHERS BOLTS BENT TUBES Fig. 1 CONTENTS OF HARDWARE PACK . . . . Fig. 2 Remove upper handle column from carton.

Route cable(s) as shown and slide upper handle column onto lower handle column. Secure upper handle column using two (2) 2-1/2" carriage bolts and two (2) handle knobs. Tighten securely. Cut away carton. Cut cable ties securing tiller to skid. Remove tiller from skid by pulling backwards. UPPER HANDLE COLUMN TINE CONTROL CABLE (1) Washer Manual (3) Handle Knobs (1) Carriage Bolt 5/16"-18 unc x 4-1/2" BOLTS (1) Clevis Pin (2) Carriage Bolts 5/16"-18 unc x 2-1/2" (1) Hairpin Clip KNOBS Fig. 3 4 ASSEMBLY TO INSTALL DEPTH STAKE (See Fig. 4) . . . Remove screw(s) securing depth stake to skid and discard the screw(s). Slide depth stake down into transport arm track, lining up a hole in the depth stake with hole in transport arm.

Install clevis pin and hairpin clip. DEPTH STAKE CLEVIS PIN HAIRPIN CLIP Fig. 4 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.) Check tine operation before first use. (See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual.

) TINE OPERATION · 5 OPERATION KNOW YOUR TILLER READ THIS 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.

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

FORWARD TINE CONTROL PRIMER RECOIL STARTER HANDLE THROTTLE CONTROL DEPTH STAKE Fig. 5 MEETS ANSI SAFETY REQUIREMENTS Our tillers conform to the safety standards of the American National Standards Institute. DEPTH STAKE - Controls forward speed and the depth at which the tiller will dig. FORWARD TINE CONTROL - Engages tines in forward direction. RECOIL STARTER HANDLE - Used to start the engine. direction. THROTTLE CONTROL - Controls engine speed. PRIMER - pumps additional fuel from the carburetor to the cylinder for use when starting a cold engine. 6 OPERATION 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 for over spectacles or standard safety glasses. 00155 HOW TO USE YOUR TILLER Know how to operate all controls before adding fuel and oil or attempting to start engine. TILLING The speed and depth of tilling is regulated by the position of the depth stake. 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 (See Fig. 7) 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. STOPPING (See Fig. 6) TINES 1. Release tine control to stop movement. ENGINE 2.

Move throttle control to "STOP" position. TINE CONTROL "OFF" (UP) POSITION TINE CONTROL "ON" (DOWN) POSITION DEPTH STAKE HAIRPIN CLIP THROTTLE CONTROL CLEVIS PIN Fig. 7 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 · Adjust depth stake so clevis pin is in bottom hole. · Push tiller handles down, raising tines off the ground. · Push or pull tiller to desired location. AROUND TOWN · Disconnect spark plug wire. &art engine, tip tines off ground by pressing handles down and engage tine control to start tine rotation. Allow tines to rotate for five minutes. 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 depth stake is not set properly in the soil being tilled.

The proper setting of the 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. (See Fig. 10) 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 for shallow tilling when working extremely hard soil or sod. Then work across the first cuts at normal depth. 4 5 3 6 2 7 1 Fig. 10 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.



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@@@11). Fig.

@@2 - Service more often when operating in dirty or dusty conditions. @@@@Check tine operation. @@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.

@@@@@4. Wipe off any spilled oil from tiller or side of engine. 5. @@@6. Stop adding oil when you reach the FULL mark on the dipstick. Wait a minute to allow oil to settle. 7. @@@@8. Always be sure to retighten oil dipstick before starting engine. 9.

@@Clean the element after every 25 hours of operation or every season. Replace the air filter every season. Service air cleaner more often under dusty conditions. TO CLEAN AIR FILTER ELEMENT 1. Remove screw.

2. @@@3. Take air cleaner apart and clean air filter element. 4. Wash filter element in liquid detergent and water. 5. Wrap filter element in cloth and squeeze dry. 6. Lightly coat filter element with clean engine oil. Squeeze in towel to remove excess oil.

Do not saturate. 7. @@@@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 eight (8) 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 (See Fig. 13) NOTE: Before tipping tiller to drain oil, empty fuel tank by running engine until fuel tank is empty. 1.

Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug. 2. Remove engine oil cap; lay aside on a clean surface. LIP ELEMENT ASSEMBLE SO LIP EXTENDS OVER EDGE OF AIR CLEANER BODY LIP WILL FORM PROTECTIVE SEAL WHEN COVER IS ASSEMBLED CUP BODY CONTAINER SPARK PLUG WIRE Fig. 13 11 Fig.

14 MAINTENANCE COOLING SYSTEM (See Fig. 15) Your engine is air cooled. For proper engine performance and long life keep your engine clean. · Remove blower housing and clean as necessary. · Keep cylinder fins free of dirt and chaff.

BLOWER HOUSING SPARK PLUG Replace spark plugs at the beginning of each tilling season. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual. TRANSMISSION Your transmission is sealed and will not require lubrication unless serviced. CLEANING Do not clean your tiller when the engine and transmission are hot. We do not recommend using pressurized water (garden hose, etc.) to clean your unit unless the gasket area around the transmission and the engine muffler, air filter and carburetor are covered to keep water out. Water in engine will shorten the useful life of your tiller. · 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. COOLING FINS MUFFLER MUFFLER Fig. 15 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. 12 SERVICE AND ADJUSTMENTS CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug. TILLER TINE ARRANGEMENT Your outer tines can be assembled in several different ways to suit your tilling or cultivating needs.

CAUTION: Tines are sharp. Wear gloves or other protection when handling tines. NORMAL TILLING - 24" PATH (See Fig. 16) · Assemble holes "A" in tine hubs to holes "B" in tine shaft. CLEVIS PIN A A OUTER TINE TO CHECK TINE OPERATION · · · Start engine, tip tines off ground by pressing handles down and engage tine control to start tine rotation.

Verify tines spin properly. Allow tines to rotate for five minutes. TO REMOVE CLUTCH HOUSING/ENGINE ASSEMBLY (SEE FIG. 19) · · · Drain engine oil and gasoline out of engine. Remove (5) carriage bolts and (5) lock nuts attaching the clutch housing and tine shield to transmission.

Remove clutch housing/engine assembly and lay on ground (engine is upside down). CARRIAGE BOLTS B tine\_4 B INNER TINE HAIRPIN CLIP Fig. 16 MID-WIDTH TILLING - 22" PATH (See Fig. 17) · Assemble holes "A" in tine hubs to holes "C" in tine shaft. A C C A tine\_5 Fig. 17 NARROW TILLING/CULTIVATING - 13" PATH (See Fig. 18) · Remove outer tines. Fig. 19 tine\_6 INNER TINES ONLY Fig. 18 NOTE: When reassembling outer tines, ensure right tine assembly (marked "R") and left tine assembly (marked "L") are mounted to correct side of tine shaft.

13 SERVICE AND ADJUSTMENTS TO REPLACE V-BELT (SEE Fig. 20 - 22) · · · · Clutch housing/engine assembly must be removed to service belt. See "TO REMOVE CLUTCH HOUSING/ENGINE ASSEMBLY" in this section of manual. Using pliers, remove cable spring and return spring from pivot bracket. Remove plastic snap-in plug from clutch housing. Using pliers, depress conduit fitting tabs and pull conduit fitting through hole in clutch housing. Pull cable spring and cable through snap-in plug hole in clutch housing. CLUTCH HOUSING BELT GUIDE STUD RETURN SPRING CABLE SPRING SNAP-IN PLUG TABS CONDUIT FITTING · · · Replace belt and reinstall pulley, idler bracket, conduit fitting, springs, and hardware in reverse order. Reinstall clutch housing/engine assembly, making sure belt is inside belt guide stud. Check tine operation.

See "To Check Tine Operation" in this section of manual. ENGINE TO ADJUST CARBURETOR The carburetor has been preset at the factory and adjustment should not be necessary. However, engine performance can be affected by differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, contact your nearest authorized service center/department IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS.

IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS THE PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS. CABLE Fig. 20 · Remove bolt, washer, and lock nut attaching idler bracket to clutch housing. BOLT WASHER CLUTCH HOUSING SNAP-IN PLUG LOCK NUT Fig. 21 · Remove bolt, washer, and lock nut attaching idler pulley to idler bracket.

Remove bushing from between idler bracket and clutch housing. BOLT IDLER PULLEY WASHER IDLER BRACKET BUSHING LOCK NUT Fig.



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22 14 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. WARNING: 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. OTHER . . . . 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. Ensure 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. 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.

TILLER HANDLE STORAGE OPTIONS The tiller handle assembly can be modified to allow for a variety of storage positions outlined below. CAUTION: Do not start or operate tiller when handle is in any of these positions. STORAGE POSITION: AGAINST ENGINE (See Fig. 23) · · 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. Unscrew top or bottom handle knob and washer, and remove top or bottom carriage bolt. Rotate entire handle assembly about carriage bolt (pivot point) and lay handle against engine shroud. · Empty the fuel tank by starting 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 stablizer 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 stablizer container. Run engine at least 10 minutes after adding stablizer to allow the stabilizer to reach the carburetor. Do not empty the gas tank and carburetor if using fuel stabilizer. TOP CARRIAGE BOLT TOP KNOB Fig. 23 STORAGE POSITION: IN TRANSPORT ARM STORAGE FEATURE (See Fig. 24) · · Unscrew (2) handle knobs and remove (2) carriage bolts. Remove top handle assembly and place it in handle storage feature in transport arm.

ENGINE OIL Drain oil (with engine warm) and replace with clean oil. (See "ENGINE" in the Maintenance section of this manual.) BOTTOM HANDLE KNOB TOP HANDLE KNOB 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. 15 Fig. 24 TROUBLESHOOTING PROBLEM Will not start 1. 2. 3.

4. 5. 6. 7. 8.

9. Hard to start 1. 2. 3. 4.

5. 6. 1. 2. 3. 4. 5. 6. 7. 8.

9. 10. 11. 12. 13. Engine overheats 1. 2. 3. 4. 5.

1. 2. 1. 1. 2.

1. 2. 3. CAUSE Out of fuel. Engine not "CHOKED" properly.

Engine flooded. Dirty air cleaner. Water in fuel. Clogged fuel tank. Loose spark plug wire. Bad spark plug or improper gap. Carburetor out of adjustment. 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. 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. Dirty/clogged muffler. Carburetor out of adjustment.

Poor compression. Low oil level/dirty oil. Dirty engine air screen. Dirty engine. Partially plugged muffler.

Improper carburetor adjustment. Ground too dry and hard. Depth stake incorrectly adjusted. Ground too wet. Tine control is not engaged. V-belt is off pulley(s). Tilling too deep. Throttle control not properly adjusted. Carburetor out of adjustment. 1.

2. 3. 4. 5. 6. 7. 8. 9. 1. 2.

3. 4. 5. 6. 1.

2. 3. 4. 5. 6.

7. 8. 9. 10. 11. 12. 13. 1. 2. 3.

4. 5. 1. 2. 1. 1. 2. 1. 2. 3.

CORRECTION Fill fuel tank. See "TO START ENGINE" in the Operation section. Wait several minutes before attempting to start. Clean or replace air cleaner cartridge. Empty fuel tank and carburetor, and refill tank with fresh gasoline.

Remove fuel tank and clean. Ensure spark plug wire is seated properly on plug. Replace spark plug or adjust gap. Make necessary adjustments. Place throttle control in "FAST" position.

Clean or replace air cleaner cartridge. Replace spark plug or adjust gap. Empty fuel tank and refill with fresh gasoline. Ensure spark plug wire is seated properly on plug. Make necessary adjustments. Set depth stake for shallower tilling. Clean or replace air cleaner cartridge. Check oil level/change oil. Clean and regap or change spark plug. Empty and clean fuel tank and refill, and clean carburetor.

Empty fuel tank and refill with fresh gasoline. Empty fuel tank and carburetor, and refill tank with fresh gasoline. Remove fuel tank and clean. Connect and tighten spark plug wire. Clean engine air screen. Clean/replace muffler. Make necessary adjustments. Contact an authorized service center/department.

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. Moisten ground or wait for more favorable soil conditions. Adjust depth stake.

Wait for more favorable soil conditions. Engage tine control. Inspect V-belt. Set depth stake for shallower tilling. Check throttle control setting.

*Make necessary adjustments. Loss of power Excessive bounce/ difficult handling Soil balls up or clumps Engine runs but tiller won't move Engine runs but labors when tilling 16 TILLER - - MODEL NUMBER MC550 (96083000300) DECALS 4 3 1 2 KEY PART NO. NO. 1 2 3 4 433415 434458 141906 141907 DESCRIPTION Decal, Tine, Shield, McCulloch Decal, Tine, Shield, Warning Decal, Warning, Rotating Tines Decal, Hand Placement 17 TILLER - - MODEL NUMBER MC550 (96083000300) ENGINE, TRANSMISSION, AND TINES 4 1 2 3 2 5 6 7 9 7 8 12 13 14 20 17 5 10 11 18 19 15 16 21 25 30 5 5 29 26 31 29 27 13 22 24 28 23 30 engine-transmission-tines\_1 18 TILLER - - MODEL NUMBER MC550 (96083000300) ENGINE, TRANSMISSION, AND TINES KEY PART NO.*



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NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 421338 72110608 73900500 425398 73900600 421337 17000616  
421335 421341 175331 421373 421339 74610616 421379 421378 19131416 74780620 133944 74520520 421354X428 421340 413524 421336 421334  
156926 156924 156925 156923 4929H 3146R 425399 DESCRIPTION Engine Bolt Carriage 3/8 - 16 x 1 Nut Lock Flg 5/16 -18 unc Plug Snap In Nut Lock  
Flg 3/8 - 16 unc Housing Clutch Screw 3/8 - 16 x 1-1/2 Sheave Upper Stud Bolt Guard Bushing Pivot Spring Return Bracket Idler Bolt Hex 3/8 - 24 x 1 Belt  
Drive Pulley Idler Washer 13/32 x 7/8 x 16 Ga. Bolt 3/8 - 16 x 1.25 Washer .328 x 1.375 x 0.

055 Bolt 5/16 - 18 x 1-1/4 Shield Tine Seal Foam Washer 13/32 x 1-1/2 x 11 Ga. @@inches. @@NO. @@@@inches. 1 inch = 25.4 mm 21 LIMITED  
WARRANTY The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and  
workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without  
charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the  
following limitations and exclusions. 1. 2.

This warranty does not apply to the engine, transaxle/transmission components, battery (except as noted below) or components parts thereof. Please refer to  
the applicable manufacturer's warranty on these items. Transportation charges for the movement of any power equipment unit or attachment are the  
responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless  
such return is requested by the manufacturer. Battery Warranty: On products equipped with a Battery, we will replace, without charge to you, any battery  
which we find to be defective in manufacture, during the first ninety (90) days of ownership.

After ninety (90) days, we will exchange the Battery, charging you 1/12 of the price of a new Battery for each full month from the date of the original sale.  
Battery must be maintained in accordance with the instructions furnished. The Warranty period for any products used for rental or commercial purposes is  
limited to 90 days from the date of original purchase. This Warranty applies only to products which have been properly assembled, adjusted, operated, and  
maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse,  
improper assembly or installation, delivery damage, or to normal wear of the product.

Exclusions: Excluded from this Warranty are belts, blades, blade adapters, normal wear, normal adjustments, standard hardware and normal maintenance.  
In the event you have a claim under this Warranty, you must return the product to an authorized service dealer. 3. 4. 5. 6. 7. Should you have any unanswered  
questions concerning this Warranty, please contact: In Canada contact: HOP 5855 Terry Fox Way Mississauga, Ontario L5V 3E4 HOP Outdoor Products  
Customer Service Dept. 1030 Stevens Creek Road Augusta, GA 30907 USA giving the model number, serial number and date of purchase of your product and  
the name and address of the authorized dealer from whom it was purchased. THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR  
CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR  
EXPRESSED WARRANTIES.

Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or  
exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale. This is a  
limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975. 22 .



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