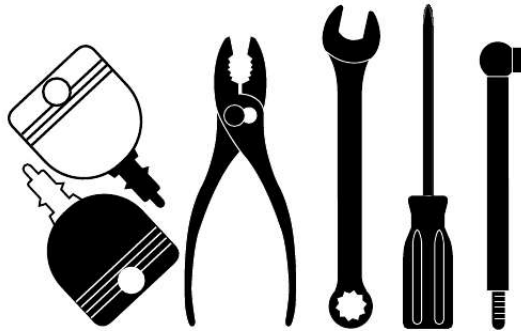




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User manual MCCULLOCH MC12538 MCCULLOCH (AUSRALIA)
User guide MCCULLOCH MC12538 MCCULLOCH (AUSRALIA)
Operating instructions MCCULLOCH MC12538 MCCULLOCH (AUSRALIA)
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Instruction manual MCCULLOCH MC12538 MCCULLOCH (AUSRALIA)



OWNER'S MANUAL **MODEL NO. MC12538 (MC12538A)** **12.5 HP 38 Inch** **Lawn Tractor**

- Assembly
- Operation
- Maintenance
 - Service and Adjustments
 - Storage
 - Troubleshooting
 - Repair Parts

For Parts and Service, contact our authorized distributor: call 1-800-849-1297
For Technical Assistance: call 1-800-823-5886

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Manual abstract:

@@@@@@@ Only allow responsible adults, who are familiar with the instructions, to operate the machine. Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade. Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area. Never carry passengers. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing. Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.

Slow down before turning. Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting. Turn off blades when not mowing. Stop engine before removing grass catcher or unclogging chute.

Mow only in daylight or good artificial light. Do not operate the machine while under the influence of alcohol or drugs. Watch for traffic when operating near or crossing roadways. Use extra care when loading or unloading the machine into a trailer or truck. Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries.

These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury. Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage. DO

NOT: · Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible. · Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in. · Do not mow on wet grass. Reduced traction could cause sliding.

· Do not try to stabilize the machine by putting your foot on the ground. · Do not use grass catcher on steep slopes. III. CHILDREN Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them. · Keep children out of the mowing area and under the watchful care of another responsible adult. · Be alert and turn machine off if children enter the area. · Before and when backing, look behind and down for small children. · Never carry children.

They may fall off and be seriously injured or interfere with safe machine operation. · Never allow children to operate the machine. · Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision. IV. SERVICE · Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive. · Use only an approved container. · Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.

· Never refuel the machine indoors. · Never store the machine or fuel container inside where there is an open flame, such as a water heater. Never run a machine inside a closed area. Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition. Never tamper with safety devices. Check their proper operation regularly. Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing. Stop and inspect the equipment if you strike an object.

Repair, if necessary, before restarting. Never make adjustments or repairs with the engine running. Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary. Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them. Check brake operation frequently. Adjust and service as required. · II. SLOPE OPERATION Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death.

All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it. DO: · Mow up and down slopes, not across. · Remove obstacles such as rocks, tree limbs, etc. · Watch for holes, ruts, or bumps.

Uneven terrain could overturn the machine. Tall grass can hide obstacles. · Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope. · Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.

· Use extra care with grass catchers or other attachments. These can change the stability of the machine. · Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. · Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope. 2 SAFETY RULES Safe Operation Practices for Ride-On Mowers Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area. Never carry passengers or children even with the blades off. Do not mow in reverse unless absolutely necessary.

Always look down and behind before and while backing. Never carry children. They may fall off and be seriously injured or interfere with safe machine operation. Keep children out of the mowing area and under the watchful care of another responsible adult. Be alert and turn machine off if children enter the area. Before and when backing, look behind and down for small children. Mow up and down slopes (15° Max), not across. Remove obstacles such as rocks, tree limbs, etc. Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine.

Tall grass can hide obstacles. Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope. Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

If machine stops while going uphill, disengage blades, shift into reverse and back down slowly. Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible. WARNING: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug. WARNING: Do not coast down a hill in neutral, you may lose control of the tractor.



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WARNING: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor.

Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor. 3 PRODUCT SPECIFICATIONS Gasoline Capacity and type: Oil Type (API-SF-SJ): Oil Capacity: Spark Plug: (Gap: .030") Ground Speed (MPH): 1.25 Gallons Unleaded Regular SAE 30 (above 32°F) SAE 5W-30 (below 32°F) 3 Pints Champion RC12YC Forward: 1st 2nd 3rd 4th Reverse: Tire Pressure: Charging System: Battery: Front: Rear: 14 PSI 12 PSI 1.1 2.2 3.3 4.

9 1.4 CONGRATULATIONS on your purchase of a new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance. Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center/department. We have competent, well-trained technicians and the proper tools to service or repair this tractor. Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES". CUSTOMER RESPONSIBILITIES Read and observe the safety rules. Follow a regular schedule in maintaining, caring for and using your tractor.

Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual. WARNING: This tractor 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. A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual). · 3 Amps Battery 5 Amps Headlights AMP/HR: MIN.

CCA: Case Size: 27-35 FT. LBS. 28 230 UIR Blade Bolt Torque: TABLE OF CONTENTS SAFETY RULES ...

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.. 45 4 UNASSEMBLED PARTS Steering Wheel Seat (1) Washer 17/32 x 1-3/16 x 12 Gauge Steering Wheel Insert (1) Lock Washer 1/2 Steering Boot Steering Extension Shaft (1) Bolt Steering Wheel Adapter (1) Oil Drain Tube For Future Use Keys (2) Keys Slope Sheet (1) Large Flat Washer (1) Locknut 1/2-20 (1) Hex Bolt 1/4-28 x 1-1/4 (1) Locknut 1/4-28 5 ASSEMBLY Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor 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. (2) 1/2" wrenches Pliers (1) 9/16" wrench Tire pressure gauge Utility knife When right or left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel). **INSERT 1/2 HEX NUT LARGE FLAT WASHER STEERING WHEEL TO REMOVE TRACTOR FROM CARTON UNPACK CARTON** . . . Remove all accessible loose parts and parts cartons from carton. Cut along dotted lines on all four panels of carton.

Remove end panels and lay side panels flat. Check for any additional loose parts or cartons and remove. **ADAPTER STEERING BOOT TABS EXTENSION SHAFT 1/4 HEX BOLT 1/4 LOCKNUT BEFORE REMOVING TRACTOR FROM SKID ATTACH STEERING WHEEL (See Fig. 1) ASSEMBLE EXTENSION SHAFT AND BOOT** · Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 1/4 hex bolt and locknut. Tighten securely. **IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 10-12 FT. LBS TORQUE. LOWER STEERING SHAFT TAB SLOTS FIG. 1** · Place tabs of steering boot over tab slots in dash and push down to secure. **INSTALL STEERING WHEEL** · Position front wheels of the tractor so they are pointing straight forl shown in "PRODUCT SPECIFICATIONS" section of this manual. **CHECKLIST BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST**

PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT. PLEASE REVIEW THE FOLLOWING CHECKLIST: All assembly instructions have been completed. No remaining loose parts in carton. Battery is properly prepared and charged. (Minimum 1 hour at 6 amps). Seat is adjusted comfortably and tightened securely. All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory). Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling). Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers. Check wiring. See that all connections are still secure and wires are properly clamped. WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS: Engine oil is at proper level. Fuel tank is filled with fresh, clean, regular unleaded gasoline. Become familiar with all controls - their location and function. Operate them before you start the engine. Be sure brake system is in safe operating condition.

CHECK DECK LEVELNESS For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual. CHECK FOR PROPER POSITION OF ALL BELTS See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly. CHECK BRAKE SYSTEM After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual. 8 OPERATION These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning. REVERSE NEUTRAL HIGH LOW CHOKE FAST SLOW IGNITION P ENGINE OFF LIGHTS ON ENGINE ON ENGINE START PARKING BRAKE PARKING BRAKE LOCKED PARKING BRAKE UNLOCKED OVER TEMP LIGHT FUEL OIL PRESSURE BATTERY REVERSE FORWARD MOWER HEIGHT MOWER LIFT 15 15 ATTACHMENT CLUTCH ENGAGED ATTACHMENT CLUTCH DISENGAGED DANGER, KEEP HANDS AND FEET AWAY SLOPE HAZARDS KEEP AREA CLEAR (SEE SAFETY RULES SECTION) DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



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WARNING indicates a hazard which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury. CAUTION when used without the alert symbol, indicates a situation that could result in damage to the tractor and/or engine. HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage. FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage. FREE WHEEL (Automatic Models only) Failure to follow instructions could result in serious injury or death.

The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage. 9 OPERATION KNOW YOUR TRACTOR READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference. ATTACHMENT CLUTCH LEVER THROTTLE/CHOKE CONTROL LIFT LEVER PLUNGER IGNITION SWITCH CLUTCH/BRAKE PEDAL ATTACHMENT LIFT LEVER MOWER DECK HEIGHT ADJUSTMENT POSITIONS GEARSHIFT LEVER PARKING BRAKE 02629 FIG. 4 Our tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH LEVER - Used to engage the mower blades, or other attachments mounted to your tractor. THROTTLE/CHOKE CONTROL - Used for starting and controlling engine speed. CLUTCH/BRAKE PEDAL - Used for declutching and braking the tractor and starting the engine. PARKING BRAKE - Locks clutch/brake pedal into the brake position. GEARSHIFT LEVER - Selects the speed and direction of tractor. ATTACHMENT LIFT LEVER - Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor. LIFT LEVER PLUNGER - Used to release attachment lift lever when changing its position. IGNITION SWITCH - Used for starting and stopping the engine. 10 OPERATION The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs.

We recommend a wide vision safety mask over spectacles or standard safety glasses. 00155 HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE (See Fig. 5) Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine. · Depress clutch/brake pedal into full "BRAKE" position and hold. · Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure. ATTACHMENT CLUTCH LEVER "ENGAGED" POSITION THROTTLE/CHOKE CONTROL LEVER IGNITION KEY "DISENGAGED" POSITION PARKING BRAKE "ENGAGED" POSITION GEARSHIFT LEVER IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD). NOTE: Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass.

To eliminate this possibility, always stop engine when stopping tractor on grass areas. CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc. TO USE THROTTLE CONTROL (See Fig. 5) Always operate engine at full throttle. · Operating engine at less than full throttle reduces the battery charging rate.

· Full throttle offers the best bagging and mower performance. "BRAKE" POSITION 01995 TO MOVE FORWARD AND BACKWARD (See Fig. 5) The direction and speed of movement is controlled by the gearshift lever. · Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position. · Move gearshift lever to desired position.

· Slowly release clutch/brake pedal to start movement. IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE. CLUTCH/BRAKE PEDAL "DRIVE" POSITION PARKING BRAKE "DISENGAGED" POSITION FIG.5 STOPPING (See Fig. 5) MOWER BLADES · To stop mower blades, move attachment clutch lever to "DISENGAGED" position. GROUND DRIVE · To stop ground drive, depress clutch/brake pedal into full "BRAKE" position. · Move gearshift lever to neutral (N) position. ENGINE · Move throttle control to slow position. NOTE: Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

· Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use. · Never use choke to stop engine. TO ADJUST MOWER CUTTING HEIGHT (See Fig. 5) The position of the attachment lift lever determines the cutting height. · Grasp lift lever. · Press plunger with thumb and move lever to desired position. The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

· The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth. · For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height. 11 OPERATION TO OPERATE MOWER (See Fig.

6) Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills. · Select desired height of cut. · Start mower blades by engaging attachment clutch control.

· TO STOP MOWER BLADES - disengage attachment clutch control. CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place. ATTACHMENT LIFT LEVER HIGH POSITION "ENGAGED" POSITION LOW POSITION · · · To restart movement, slowly release parking brake and clutch/brake pedal. Make all turns slowly. TO TRANSPORT Raise attachment lift to highest position with attachment lift control.



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· When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position. · Do not push or tow tractor at more than five (5) MPH. NOTE: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

TOWING CARTS AND OTHER ATTACHMENTS Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor. **BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL** · · · The engine in your tractor has been shipped, from the factory, already filled with summer weight oil. Check engine oil with tractor on level ground. Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill. For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).

To change engine oil, see the Maintenance section in this manual. Fill fuel tank to bottom of filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness. CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame. **IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F (0°C), USE FRESH, CLEAN WINTER GRADE GAS OIL TO HELP INSURE GOOD COLD WEATHER STARTING.**

ATTACHMENT CLUTCH LEVER "DISENGAGED" POSITION · 01 99 4 DEFLECTOR SHIELD ADD GASOLINE · FIG. 6 TO OPERATE ON HILLS
WARNING: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope. · · · · Choose the slowest speed before starting up or down hills. Avoid stopping or changing speed on hills. If slowing is necessary, move throttle control lever to slower position. If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake. Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement. **12 OPERATION CAUTION:** 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 Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur. **MOWING TIPS** · · · · Tire chains cannot be used when the mower housing is attached to tractor. Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

The left hand side of mower should be used for trimming. Drive so that clippings are discharged onto the area that has been cut.

Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting. When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 7).

· **TO START ENGINE** (See Fig. 5) When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine. · Sit on seat in operating position, depress clutch/brake pedal and set parking brake. · Place gear shift lever in neutral (N) position. · Move attachment clutch to "DISENGAGED" position.

· Move throttle control to choke position. NOTE: Before starting, read the warm and cold starting procedures below. · Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, move throttle control to fast position, wait a few minutes and try again. If engine still does not start, move the throttle control back to the choke position and retry. **WARM WEATHER STARTING (50° F and above)** · When engine starts, move the throttle control to the fast position. · The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above. **COLD WEATHER STARTING (50° F and below)** · When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position.

This may require an engine warm-up period from several seconds to several minutes, depending on the temperature. · The attachments can also be used during the engine warm-up period. NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32 F) the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual. 00272 FIG. 7 · If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height. Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.

Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired. When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used. · · · 13 MAINTENANCE MAINTENANCE SCHEDULE FILL IN DATES AS

YOU COMPLETE REGULAR SERVICE Check Brake Operation Check Tire Pressure Check Operator Presence and Interlock Systems Check for Loose Fasteners Sharpen/Replace Mower Blades Lubrication Chart Check Battery Level Clean Battery and Terminals Check Transaxle Cooling Check V-Belts Check Engine Oil Level Change Engine Oil (with oil filter) 1,2 1,2 2 2 4 3 5 S E G E R S RS US UR N RS RA OU HOU HO ASO TO OU H O S H SE RE 25 10 50 EE Y 8 Y Y Y OR ER VER VER VER VER EFO F B SERVICE E V E E E BE H AC DATES T R A C T O R E N G I N E Change Engine Oil (without oil filter) Clean Air Filter Clean Air Screen Inspect Muffler/Spark Arrester Replace Oil Filter (If equipped) Clean Engine Cooling Fins Replace Spark Plug Replace Air Filter Paper Cartridge Replace Fuel Filter 1, 2 2 maint_sch-tractore.



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new 1 2 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. 3 - Replace blades more often when mowing in sandy soil. 4 - Not required if equipped with maintenance-free battery. 5 - Tighten front axle pivot bolt to 35 ft.-lbs.

maximum. Do not overtighten. GENERAL RECOMMENDATIONS The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor. At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual. At least once a year you should replace the spark plug, clean or replace air filter, and check blades 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. ZERK LUBRICATION CHART SPINDLE FRONT WHEEL SPINDLE ZERK BEARING ZERK FRONT WHEEL BEARING ZERK ENGINE BEFORE EACH USE Check engine oil level. Check brake operation.

Check tire pressure. Check operator presence and interlock systems for proper operation. Check for loose fasteners. 01964 GENERAL PURPOSE GREASE REFER TO MAINTENANCE "ENGINE" SECTION IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY. 14 MAINTENANCE TRACTOR

Always observe safety rules when performing any maintenance. TRAILING EDGE UP CENTER HOLE MANDREL ASSEMBLY BRAKE OPERATION If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual). LOCK WASHER TIRES · Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" section of this manual).

· Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber. · Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage. NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer.

Tire sealant also prevents tire dry rot and corrosion. FLAT WASHER BLADE BOLT STAR BLADE FIG.

8 TO SHARPEN BLADE (See Fig. 9) NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced. Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine. · The blade can be sharpened with a file or on a grinding wheel.

Do not attempt to sharpen while on the mower. · To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer.) NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not. · Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced. CENTER HOLE OPERATOR PRESENCE SYSTEM Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

· The engine should not start unless the clutch/brake pedal is fully depressed and attachment clutch control is in the disengaged position. · When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine. · When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine. · The attachment clutch should never operate unless the operator is in the seat. BLADE CARE For best results mower blades must be kept sharp. Replace bent or damaged blades. BLADE REMOVAL (See Fig. 8) · · Raise mower to highest position to allow access to blades. Remove blade bolt, lock washer and flat washer securing blade. Install new or resharpened blade with trailing edge up towards deck as shown.

5/8" BOLT OR PIN BLADE IMPORTANT: TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON MANDREL ASSEMBLY. FIG. 9 · · Reassemble blade bolt, lock washer and flat washer in exact order as shown. Tighten blade bolt securely (27-35 Ft. Lbs. torque). IMPORTANT: BLADE BOLT IS HEAT TREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVE BOLT SHOWN IN THE REPAIR PARTS. 15 MAINTENANCE BATTERY Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

· Keep battery and terminals clean. · Keep battery bolts tight. · Keep small vent holes open. · Recharge at 6-10 amperes for 1 hour. NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary. TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals can cause the battery to "leak" power. · Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor. · Rinse the battery with plain water and dry.

· Clean terminals and battery cable ends with wire brush until bright. · Coat terminals with grease or petroleum jelly. · Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual). Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level. TO CHANGE ENGINE OIL (See Figs. 10 and 11) Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ. · Be sure tractor is on level surface.

· Oil will drain more freely when warm. · Catch oil in a suitable container. · Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil. · Remove yellow cap from end of drain valve and install the drain tube onto the fitting.

OIL DRAIN VALVE CLOSED AND LOCKED POSITION 46 02 3 V-BELTS Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary.



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The belts are not adjustable. Replace belts if they begin to slip from wear. YELLOW CAP DRAIN TUBE FIG. 11 Unlock drain valve by pushing inward and turning counterclockwise.

To open, pull out on the drain valve. After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown. Remove the drain tube and replace the cap onto the bottom fitting of the drain valve. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual. Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

TRANSAXLE COOLING Keep transaxle free from build-up of dirt and chaff which can restrict cooling. ENGINE LUBRICATION Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature. SAE VISCOSITY GRADES SAE 30 5W-30 F C -30 -20 -20 0 -10 30 32 0 40 10 60 20 80 30 100 40 · CLEAN AIR SCREEN Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. @@@@ (12) Debris may clog the engine's air cooling system. @@@@ (14) The fuel filter should be replaced once each season. @@ · With engine cool, remove filter and plug fuel line sections. @@@@ · Immediately wipe up any spilled gasoline. FIG. 12 AIR FILTER (See Fig.

13) Your engine will not run properly using a dirty air filter. @@@@ Service air cleaner more often under dusty conditions. @@ · Remove cover.

@@@@ NOTE: If very dirty or damaged, replace cartridge. · Place new pre-cleaner and cartridge firmly in base.

@@ · Hook handle on cover and push down on handle to close. @@ They may cause deterioration of the cartridge. Do not oil cartridge. @@ 14 CLEANING Clean engine, battery, seat, finish, etc. of all foreign matter.

@@ · Protect painted surfaces with automotive type wax. @@@@ @@@@ · Place gearshift lever in neutral (N) position. · Place attachment clutch in "DISENGAGED" position. · Turn ignition key to "STOP" and remove key. · Make sure the blades and all moving parts have completely stopped. · Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug. TRACTOR TO REMOVE MOWER (See Fig. 15) Mower will be easier to remove from the right side of tractor. · Place attachment clutch in "DISENGAGED" position. · Move attachment lift lever forward to lower mower to its lowest position.

· Roll belt off engine pulley. · Remove small retainer spring, and remove clutch spring off pulley bolt. · Remove large retainer spring, slide collar off and push housing guide out of bracket. · Disconnect anti-swaybar from chassis bracket by removing retainer spring. · Disconnect suspension arms from rear deck brackets by removing retainer springs. · Disconnect front links from deck by removing retainer springs. Raise lift lever to raise suspension arms. Slide mower out from under tractor. IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONT LINKS AND HOOK THE CLUTCH SPRING INTO SQUARE HOLE IN FRAME. TO INSTALL MOWER (See Fig.

15) Raise attachment lift lever to its highest position. Slide mower under tractor with deflector shield to right side of tractor. Lower lift lever to its lowest position. Connect front links to mower deck and secure with retainer springs. Connect suspension arms to rear deck brackets and secure with retainer springs.

FLAT WASHER CLUTCH SPRING SMALL RETAINER SPRING SUSPENSION ARMS SQUARE HOLE SMALL RETAINER SPRING CLUTCH SPRING ENGINE PULLEY RETAINER SPRING FRONT LINK 4 2 ANTI-SWAY BAR 3 8 RETAINER SPRINGS (BOTH SIDES) COLLAR HOUSING GUIDE LARGE RETAINER SPRING BRACKET 02695 DEFLECTOR SHIELD FIG. 15 18 SERVICE AND ADJUSTMENTS . . . Connect anti-swaybar to chassis bracket and secure with retainer spring. Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring. Place flat washer and clutch spring on idler pulley bolt FRONT-TO-BACK ADJUSTMENT (See Figs. 18 and 19) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE.

IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE. TO LEVEL MOWER HOUSING Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower. SIDE-TO-SIDE ADJUSTMENT (See Figs. 16 and 17) · Raise mower to its highest position. · At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other. · If adjustment is necessary, make adjustment on one side of mower only. · To raise one side of mower, tighten lift link adjustment nut on that side.

· To lower one side of mower, loosen lift link adjustment nut on that side. NOTE: Three full turns of adjustment nut will change mower height about 1/8". · Recheck measurements after adjusting. BOTTOM EDGE OF MOWER TO GROUND BOTTOM EDGE OF MOWER TO GROUND To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position. Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown. · Before making any necessary adjustments, check that both front links are equal in length. · If links are not equal in length, adjust one link to same length as other link. · To lower front of mower loosen nut "E" on both front links an equal number of turns. · When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.

· To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns. The two front links must remain equal in length. · When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links. · Recheck side-to-side adjustment.

00598 MANDREL 01268 "A" GROUND LINE "A" "D" "D" FIG.



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16 FIG. 18 BOTH FRONT LINKS MUST BE EQUAL IN LENGTH SUSPENSION ARM 01267 01553 LIFT LINK ADJUSTMENT NUT FIG. 17 NUT "F" TRUNNION 01156 NUT "E" FRONT LINKS FIG. 19 19 SERVICE AND ADJUSTMENTS TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 20) The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake. BELT REMOVAL · Place attachment clutch in "DISENGAGED" position. · Move attachment lift lever forward to lower mower to its lowest position. · Roll belt off engine pulley. · Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring. · Work belt off both mandrel pulleys and idler pulleys.

· Pull belt away from mower. BELT INSTALLATION · Work new belt around both mandrel pulleys and idler pulleys. · Install new belt into engine pulley grove. · Reconnect R.H. suspension arm and secure with retainer spring. · Make sure belt is in all pulley grooves and inside all belt guides. TO CHECK AND ADJUST BRAKE (See Fig. 21) Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle. If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted. TO CHECK BRAKE · Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake. · Place gear shift lever in neutral (N) position. The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced. TO ADJUST BRAKE · Depress clutch/brake pedal all the way down and engage parking brake. · Measure distance between brake operating arm and nut "A" on brake rod. · If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A". · Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center. WITH PARKING BRAKE "ENGAGED" 1-1/2" MANDREL PULLEY IDLER PULLEYS ENGINE PULLEY 38 R.H. SUSPENSION ARM 42 NUT "A" JAM NUT RETAINER SPRING MANDREL PULLEY 02373 00238 OPERATING ARM FIG. 21 FIG. 20 20 SERVICE AND ADJUSTMENTS TO REPLACE MOTION DRIVE BELT (See Fig. 22) Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

BELT REMOVAL · Remove mower (See "TO REMOVE MOWER" in this section of manual). NOTE: Observe entire motion drive belt and position of all belt guides and keepers. · Remove belt from stationary idler and clutching idler. · Remove belt downward from around engine pulley. · Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers. · Remove belt from center span keeper and pull belt away from tractor. BELT INSTALLATION · Carefully work new belt down between transaxle belt keepers and onto the input pulley. · Slide belt into the center span keeper. · Pull belt toward front of tractor and roll around the top groove of engine pulley.

· Install belt through stationary idler and clutching idler. · Make sure belt is in all pulley grooves and inside all belt guides and keepers. · Install mower (See "TO INSTALL MOWER" in this section of manual). ENGINE PULLEY CLUTCHING IDLER STATIONARY IDLER CENTER SPAN KEEPER TRANSAXLE PULLEY AXLE COVER 3 0066 TO ADJUST STEERING WHEEL ALIGNMENT If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual. FRONT WHEEL TOE-IN/CAMBER The front wheel toe-in and camber are not adjustable on your tractor.

If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department. TO REMOVE WHEEL FOR REPAIRS (See Fig. 23) Block up axle securely. Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose). · Repair tire and reassemble.

· On rear wheels only: align grooves in rear wheel hub and axle. Insert square key. · Replace washers and snap retaining ring securely in axle groove. · Replace axle cover. NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion. WASHERS RETAINING RING · SQUARE KEY (REAR WHEEL ONLY) FIG. 23 00811 FIG. 22 21 SERVICE AND ADJUSTMENTS TO START ENGINE WITH A WEAK BATTERY (See Fig. 24) WARNING: Lead-acid batteries generate explosive gases.

Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries. If your battery is too weak to start the engine, it should be recharged. (See "BATTERY" in the MAINTENANCE section of this manual). If "jumper cables" are used for emergency starting, follow this procedure: IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES. REPLACING BATTERY (See Figs. 25 and 26) WARNING: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding. . . . Lift seat pan to raised position. Disconnect BLACK battery cable first then RED battery cable and carefully remove battery from tractor. Install new battery with terminals in same position as old battery. First connect RED battery cable to positive (+) terminal with hex bolt and keys nut as shown.

Tighten securely. Slide terminal cover over terminal. Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keys nut. Tighten securely. TO ATTACH JUMPER CABLES · Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.

· Connect one end of the BLACK cable to the NEGATIVE (-) terminal (C) of fully charged battery. · Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery. TO REMOVE CABLES, REVERSE ORDER · BLACK cable first from chassis and then from the fully charged battery.



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· RED cable last from both batteries. SEAT PAN 02602 FIG. 25 02614 TERMINAL COVER KEPS NUT WEAK OR DEAD BATTERY FULLY CHARGED BATTERY FIG. 24 02603 HEX BOLT POSITIVE (RED) CABLE NEGATIVE (BLACK) CABLE FIG. 26 22 SERVICE AND ADJUSTMENTS INTERLOCKS AND RELAYS Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting. · Check wiring. See electrical wiring diagram in the Repair Parts section.

ENGINE TO ADJUST THROTTLE CONTROL CABLE The throttle control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, see engine manual. **TO REPLACE FUSE** Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash. **TO ADJUST CARBURETOR** The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, see engine manual. **TO REMOVE HOOD AND GRILL ASSEMBLY** (See Fig. 27) · · · Raise hood. Stand in front of tractor.

Grasp hood at sides, tilt toward engine and lift off of tractor. To replace, reverse above procedure. **HOOD HEADLIGHT WIRE CONNECTOR** 01536 FIG. 27 23 **STORAGE** Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more. **WARNING:** Never store the tractor 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. **ENGINE FUEL SYSTEM IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS 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.** **TRACTOR** Remove mower from tractor for winter storage.

When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area. · Clean entire tractor (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. · 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 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 empty the gas tank and carburetor if using fuel stabilizer. **ENGINE OIL** Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual). **BATTERY** · · · Fully charge the battery for storage.

After a period of time in storage, battery may require recharging. To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Maintenance section of this manual). After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals. If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces. **CYLINDER(S)** · · · Remove spark plug(s).

Pour one ounce of oil through spark plug hole(s) into cylinder(s). Turn ignition key to "START" position for a few seconds to distribute oil. Replace with new spark plug(s). · · 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 tractor indoors and cover it to give protection from dust and dirt. Cover your tractor 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 tractor to rust. **IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST ARE STILL WARM.** 24

TROUBLESHOOTING POINTS PROBLEM Will not start CAUSE 1. 2. 3. 4.

5. 6. 7. 8. 9. 10. Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug.
Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment.
Engine valves out of adjustment. 1. 2. 3. 4.

5. 6. 7. 8. 9. 10. **CORRECTION** Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug.

Clean/replace air filter. Replace fuel filter. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department. Hard to start 1. 2. 3. 4.

5. 6. 7. 8. Dirty air filter.

Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring.
Carburetor out of adjustment. Engine valves out of adjustment. 1. 2. 3. 4. 5. 6. 7. 8.

Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department. Engine will not turn over 1. 2.

3. 4. 5. 6. 7.

8. 9. Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery.

Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 1. 2. 3. 4.

5. 6. 7. 8. 9. Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department. Engine clicks but will not start 1.

2. 3. 4. Weak or dead battery. Corroded battery terminals.

Loose or damaged wiring.

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Faulty solenoid or starter. 1. 2. 3. 4. Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.

Loss of power 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
11. 12. 13. 14. 15.

Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
11. 12. 13. 14. 15.

Raise cutting height/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.

Excessive vibration 1. 2. 3. Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 1. 2. 3. Replace blade.

Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts. 25 TROUBLESHOOTING POINTS PROBLEM Engine continues to run when operator leaves seat with attachment clutch engaged CAUSE 1.

Faulty operator-safety presence control system. 1. CORRECTION Check wiring, switches and connections. If not corrected, contact an authorized service center/department. Poor cut - uneven 1.

2. 3. 4. 5. Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 1.

2. 3. 4. 5. Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.

Mower blades will not rotate 1. 2. 3. 4. Obstruction in clutch mechanism.

Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 1. 2.

3. 4. Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel. Poor grass discharge 1. 2. 3. 4.

5. 6. 7. 8. 9. 10. 11. Engine speed too slow. Travel speed too fast. Wet grass.

Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn.

Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 1. 2.

3. 4. 5. 6. 7. 8. 9. 10. 11. Place throttle control in "FAST" position.

Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt.

Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual.

Clean around mandrels to open vent holes. Headlight(s) not working (if so equipped) 1. 2. 3. 4.

5. Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring.

Blown fuse. 1. 2. 3. 4. 5. Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections.

Replace fuse. Battery will not charge 1. 2. 3. 4. Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 1.

2. 3. 4. Replace battery. Check/clean all connections.

Replace regulator. Replace alternator. Engine "backfires" when turning engine "OFF" 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 1.

Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine. 26 TRACTOR - - MODEL NUMBER MC12538 (MC12538A), PRODUCT NO. 964 77 31-01 SCHEMATIC RED BLACK BATTERY A AMMETER (OPTIONAL) RED RED M STARTER BLACK FUSE WHITE SOLENOID RED B G S M L CLUTCH / BRAKE (PEDAL UP) WHITE BLACK IGNITION SWITCH SEAT SWITCH (NOT OCCUPIED) WHITE BLACK BLACK BLACK BLACK HOUR METER (OPTIONAL) BLACK ATT'MENT CLUTCH (CLUTCH OFF) GROUNDING CONNECTOR SPARK PLUG GAP (2 PLUGS ON TWIN CYL. ENGINES) 28 VOLTS AC MIN. @ 3600 RPM (CHARGING SYSTEM DISCONNECTED) BLACK BLUE FUEL LINE IGNITION UNIT CHARGING SYSTEM OUTPUT 3 AMP DC @ 3600 RPM RED LIGHTING SYSTEM OUTPUT 5 AMP AC @ 3600 RPM FUEL SHUT-OFF SOLENOID (IF SO EQUIPPED) DIODE ALTERNATOR S 14 VOLTS AC MIN. @ 3600 RPM (LIGHTS OFF) M L B G WIRING INSULATED CLIPS NOTE:

IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING. NON-REMOVABLE CONNECTIONS IGNITION SWITCH POSITION OFF ON START CIRCUIT M+G B+L B+S+L REMOVABLE CONNECTIONS 27 REPAIR PARTS TRACTOR - - MODEL NUMBER MC12538 (MC12538A), PRODUCT NO. 964 77 31-01 ELECTRICAL 24 42 41 43 27 27 26 40 27 27 25 16 16 33 30 48 52 8 29 27 28 2 1 90 28 REPAIR PARTS TRACTOR - - MODEL NUMBER MC12538 (MC12538A), PRODUCT NO. 964 77 31-01 ELECTRICAL KEY NO. 1 2 8 16 24 25 26 27 28 29 30 33 40 41 42 43 48 52 90 PART NO.

532 16 34-65 874 76 04-12 532 17 66-89 532 17 61-38 532 00 47-99 532 14 61-47 532 17 51-58 873 51 04-00 532 12 47-73 532 12 13-05 532 17 55-67 532 14 04-01 532 17 97-30 871 11 04-08 532 13 15-63 532 17 88-61 532 14 08-44 532 14 19-40 532 18 04-49 DESCRIPTION Battery 12 Volt 25 Amp Bolt Hex Hd 1/4-20 Unc x 3/4 Battery Box Switch Interlock Push-In Cable Battery 6 Ga 11"red Cable Battery Fuse Nut Keys Hex 1/4-20 Unc Cable Ground 6 Ga 12"black Switch Plunger Nc Gray Switch Ign Key Ign Harness Ign Bolt Blk Fin Hex 1/4-20 Cover Terminal Red Solenoid Adapter Ammeter Protection Wire Loop Cover Terminal Battery NOTE: All component dimensions given in U. S. inches 1 inch = 25.4 mm. 29 REPAIR PARTS TRACTOR - - MODEL NUMBER MC12538 (MC12538A), PRODUCT NO. 964 77 31-01 CHASSIS AND ENCLOSURES 17 28 30 24 18 39 24 166 26 25 26 31 209 209 9 15 209 25 5 5 208 11 209 8 209 6 26 16 1 13 35 33 209 37 145 37 10 209 2 38 206 205 35 34 26 208 209 38 205 Chassis-Elite_Basic_LT_4 30 REPAIR PARTS TRACTOR - - MODEL NUMBER MC12538 (MC12538A), PRODUCT NO. 964 77 31-01 CHASSIS AND ENCLOSURES KEY NO. 1 2 5 6 8 9 10 11 13 15 16 17 18 24 25 26 28 30 31 33 34 35 37 38 39 145 166 205 206 208 209 --- PART NO. 532 17 46-20 532 17 65-54 532 15 52-72 532 18 12-71 532 15 51-38 532 17 22-43 872 14 06-08 532 17 49-96 532 18 69-52 874 18 05-12 873 51 05-00 532 18 58-47 532 12 69-38 874 78 06-16 819 13 13-12 873 80 06-00 532 18 67-18 532

18 12-72 532 13 66-19 532 18 30-31 532 18 30-80 872 11 06-06 817 49 05-08 532 17 57-10 532 17 47-14 532 15 65-24 532 17 18-75 817 49 06-08 532 17 01-65 817 67 06-08 817 00 06-12 532 00 54-79 DESCRIPTION Chassis Drawbar Bumper, Hood/Dash Saddle Clip Retainer Slide-On Dash Bolt, Carriage 3/8-16 x 1 Panel Dash LH Panel Slkscr Dash RH Screw Mach TRHD 5/16-18 Unc x 3/4 Nut Keps 5/16-18 Unc Hood Bumper Hood Bolt Fin Hex 3/8-16 Unc x 1 Gr.



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