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You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA CTH150 XP. You'll find the answers to all your questions on the HUSQVARNA CTH150 XP in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HUSQVARNA CTH150 XP
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 **Husqvarna**



CTH150 XP

Owner's Manual



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Manual abstract:

, 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. @@ Watch for traffic when operating near or crossing roadways.

@@@@@ 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. 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. WARNING Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



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WARNING Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Wash hands after handling. 3 **PRODUCT SPECIFICATIONS** GASOLINE CAPACITY AND TYPE: OIL TYPE (API-SF-SJ): OIL CAPACITY: SPARK PLUG: (GAP: .030") GROUND SPEED (MPH): TIRE PRESSURE: CHARGING SYSTEM: BATTERY: 3.5 GALLONS UNLEADED REGULAR SAE 30 (above 32°F) SAE 5W-30 (below 32°F) W/FILTER: 3.8 PINTS W/O FILTER: 3.2 PINTS CHAMPION RCJ8Y Forward: Reverse FRONT: REAR: 0-5.5 0-2.4 14 PSI 10 PSI **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.

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 the "Maintenance" and "Storage" sections of this owner's manual. 16 AMPS @ 3600 RPM AMP/HR: 35 MIN. CCA: 280 CASE SIZE: U1R 2735 FT. LBS.

BLADE BOLT TORQUE: **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. In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

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50 4 UNASSEMBLED PARTS Steering Wheel Seat (1) Washer 17/32 x 1-3/16 x 12 Gauge (1) Bolt Steering Wheel Adapter Steering Wheel Insert Gauge Wheel (4) Adjusting Bar (4) Retainer Springs (double loop) (4) Wheels Steering Boot (4) Clevis Pins (4) Washers 3/8 x 7/8 x 14 Ga. Steering Extension Shaft (4) Locknut 3/8-16 (4) Shoulder Bolt Key (1) Locknut 1/4-28 (1) Large Flat Washer Slope Sheet (2) Keys (1) Hex Bolt 1/4-28 x 1-1/4 (1) Locknut 1/2-20 (1) Oil Drain Tube For Future Use 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) 7/16" wrenches Utility knife (1) 3/4" wrenches Tire pressure gauge Pliers 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 TO REMOVE TRACTOR FROM CARTON UNPACK CARTON · · · Remove all accessible loose parts and parts cartons from carton. Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat. Check for any additional loose parts or cartons and remove.

STEERING WHEEL STEERING BOOT TABS ADAPTER EXTENSION SHAFT 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. is manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects. · Be sure all the above assembly steps have been completed. · Check engine oil level and fill fuel tank with gasoline. · Place freewheel control in "transmission engaged" position.

· Sit on seat in operating position, depress clutch/brake pedal and set the parking brake. · Place motion control lever in neutral (N) position. · Press lift lever plunger and raise attachment lift lever to its highest position. · Start the engine. After engine move. Retighten the nuts securely. Reinstall the bagger assembly and check the bagger to fender fit. If necessary, repeat the procedure until proper fit is attained. 6MM (1/4") - 9MM (3/8") TOP SURFACES EVEN HORIZONTAL ADJUSTMENT BRACKET VERTICAL ADJUSTMENT BRACKET · 1/4 X 2" CARRIAGE BOLTS VERTICAL ADJUSTMENT 1/4 LOCK NUT · · · FIG. 6A Slide front and lower bagger tube assembly into the bagger assembly. · Assemble front and upper bagger tubes using four (4) 1/4 x 50,8mm carriage bolts and lock nuts supplied. Tighten securely. · Slip all the vinyl bindings over the bagger tubes · Slide the bagger dump handle through the hole in the bagger top, install the clevis pin and secure with retainer spring. NOTE: For future use, the clevis pin may be removed in order to use the handle to clear the chute in the event it has become clogged. · FIG. 7 9 ASSEMBLY TO ASSEMBLE AND INSTALL MULCHER PLUG (See Fig. 8) · · Remove spring retainer and pin from handle. Insert plug into handle. Make sure that the letter "A" on both the plug and handle are on the same side and that they can both be seen from the top when laying on the ground. Secure with pin and retainer spring provided.

For installation see "To Convert Mower" in Section 5 of this manual. HANDLE RETAINER SPRING A 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.



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Before driving tractor, be sure freewheel control is in drive position. 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. It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual). · PIN A PLUG FIG. 8 CHECK TIRE PRESSURE The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance. · Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual. 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. 10 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 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. 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. 11 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.

LIGHT SWITCH POSITION ATTACHMENT CLUTCH SWITCH IGNITION SWITCH LIFT LEVER PLUNGER CHOKE CONTROL ATTACHMENT LIFT LEVER CLUTCH/BRAKE PEDAL THROTTLE CONTROL PARKING BRAKE HEIGHT ADJUSTMENT KNOB MOTION CONTROL LEVER FIG. 9 Our tractors conform to the safety standards of the American National Standards Institute. ATTACHMENT CLUTCH SWITCH: Used to engage the mower blades, or other attachments mounted to your tractor. LIGHT SWITCH POSITION: Turns the headlights on and off. THROTTLE CONTROL - Used to control engine speed.

CHOKE CONTROL - Used when starting a cold engine. CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine. PARKING BRAKE: Locks clutch/brake pedal into the brake position. FREEWHEEL CONTROL: Disengages transmission for pushing or slowly towing the tractor with the engine off. MOTION CONTROL LEVER: Selects the speed and direction of tractor. ATTACHMENT LIFT LEVER: Used to raise and lower 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. HEIGHT ADJUSTMENT KNOB - Used to adjust the mower cutting height. 12 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. IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD). HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE (See Fig. 10) 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.

PARKING BRAKE "ENGAGED" "DISENGAGED" POSITION POSITION ATTACHMENT CLUTCH LEVER "ENGAGED" POSITION 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. 10) 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. CHOKE CONTROL THROTTLE CONTROL LEVER "BRAKE" POSITION TO USE CHOKE CONTROL (See Fig. 10) IGNITION KEY MOTION CONTROL LEVER Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

· To engage choke control, pull knob out. Slowly push knob in to disengage. TO MOVE FORWARD AND BACKWARD (See Fig. 10) CLUTCH/BRAKE PEDAL "DRIVE" HEIGHT POSITION ADJUSTMENT KNOB PARKING BRAKE "DISENGAGED" POSITION FIG. 10 STOPPING (See Fig. 10) MOWER BLADES · To stop mower blades, move attachment clutch switch to "DISENGAGED" position. GROUND DRIVE · To stop ground drive, depress clutch/brake pedal into full "BRAKE" position.



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· Move motion control lever to neutral (N) position. **IMPORTANT: THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/ BRAKE PEDAL IS DEPRESSED.**

The direction and speed of movement is controlled by the motion control lever. · Start tractor with motion control lever in neutral (N) · position. · Release parking brake. · Slowly move motion control lever to desired position. **TO ADJUST MOWER CUTTING HEIGHT** (See Fig. 10) The cutting height is controlled by turning the height adjustment knob in desired direction.) to raise cutting height. · Turn knob clockwise (· Turn knob counterclockwise () to lower cutting height. 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.

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.

13 OPERATION TO ADJUST GAUGE WHEELS (See Fig. 11) Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions. **NOTE:** Adjust gauge wheels with tractor on a flat level surface. · Adjust mower to desired cutting height (See "TO ADJUST MOWER CUTTING HEIGHT" in the Operation section of this manual). · Remove retainer spring and clevis pin which secure each gauge wheel bar. · Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin. Gauge wheels should be slightly off the ground. · Replace retainer spring into clevis pin.

Be sure all gauge wheels are in the same setting. **IMPORTANT: BE SURE TO READJUST GAUGE WHEELS IF YOU CHANGE THE CUTTING HEIGHT OF THE MOWER DECK. RETAINER SPRING CAUTION:** Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place. **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 motion control lever to neutral (N) position. **IMPORTANT: THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/ BRAKE PEDAL IS DEPRESSED.**

· · · To restart movement, slowly release parking brake and clutch/brake pedal. Slowly move motion control lever to slowest setting. Make all turns slowly. **TO TRANSPORT** (See Figs. 9 and 13) When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position.

Free wheel control is located under the seat. · Raise attachment lift to highest position with attachment lift control. · Raise seat and pull freewheel control up and back into the slot and release so it is held in the disengaged position. · Do not push or tow tractor at more than two (2) MPH. · To reengage transmission, reverse above procedure.

Transmission Engaged **CLEVIS PIN FIG. 11 TO OPERATE MOWER** (See Fig. 12) 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. · Select desired height of cut. · Lower mower with attachment lift control. · Start mower blades by engaging attachment clutch control. · **TO STOP MOWER BLADES** - disengage attachment clutch control. **ATTACHMENT CLUTCH LEVER "DISENGAGED" POSITION** Transmission Disengaged **ATTACHMENT LIFT LEVER HIGH POSITION LOW POSITION FIG. 13** **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.). **"ENGAGED" POSITION 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. **FIG. 12 14 OPERATION 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. Unthread and remove oil fill cap/dipstick; wipe oil off.

Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. 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 Customer Responsibilities section of this manual). To change engine oil, see the Customer Responsibilities 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 O LINE TO HELP INSURE GOOD COLD WEATHER STARTING. 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, push choke control in, wait a few minutes and try again.



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If engine still does not start, pull the choke control out and retry. **WARM WEATHER STARTING (50° F and above)** · When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. · 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, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature. **AUTOMATIC TRANSMISSION WARM UP** · Before driving the unit in cold weather, the transmission should be warmed up as follows: · Be sure the tractor is on level ground.

· Place the motion control lever in neutral. Release the parking brake and let the clutch/ brake slowly return to operating position. · Allow one minute for transmission to warm up. This can be done during the engine warm up period. · The attachments can be used during the engine warmup period after the transmission has been warmed up and may require the choke control be pulled out slightly.

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. · **ADD GASOLINE** · **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. **TO START ENGINE (See Fig. 9)** 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. · Be sure freewheel control is in the transmission engaged position. · Sit on seat in operating position, depress clutch/brake pedal and set parking brake. · Place motion control lever in neutral (N) position. · Move attachment clutch to "DISENGAGED" position.

· Move throttle control to fast position · Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed. **PURGE TRANSMISSION CAUTION:** Never engage or disengage freewheel lever while the engine is running. To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor. **15 OPERATION IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.** · Place tractor safely on level surface with engine off and parking brake set. · Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual). · Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal. · Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times. **NOTE:** During this procedure there will be no movement of drive wheels.

The air is being removed from hydraulic drive system. · Move motion control lever to neutral (N) position. Shutoff engine and set parking brake. · Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual). · Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal. · Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times. · Your transmission is now purged and now ready for normal operation. · 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. **FIG.**

14 MULCHING MOWING TIPS IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE. · **MOWING TIPS** · 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.

14). 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. · The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed.



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OIL DRAIN VALVE V-BELTS Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

TRANSAXLE COOLING The transmission fan and cooling fins should be kept clean to assure proper cooling. Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle. · Inspect cooling fan to be sure fan blades are intact and clean. · Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins. **CLOSED AND LOCKED POSITION YELLOW CAP DRAIN TUBE FIG. 22 20 MAINTENANCE** · · · 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 to 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. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

IN-LINE FUEL FILTER (See Fig. 23) The fuel filter should be replaced once each season. · · · With engine cool, remove filter and plug fuel line sections. · · · · · See engine manual. **FUEL FILTER FIG.**

· · · · · of all foreign matter. · · · Protect painted surfaces with automotive type wax. · · Water in engine can result in a shortened engine life. **MUFFLER** Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage. **SPARK PLUGS** Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first.

Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" section of this manual. **ENGINE OIL FILTER** Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year. See engine manual. **21 SERVICE AND ADJUSTMENTS WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:** · Depress clutch/brake pedal fully and set parking brake. · Place motion control 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.

24) Mower will be easier to remove from the right side of tractor. · Place attachment clutch switch in "DISENGAGED" position. · Move attachment lift lever forward to lower mower to its lowest position. · Roll belt off electric clutch pulley. · Disconnect anti-sway bar 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.

TO INSTALL MOWER (See Fig. 24) · · · · · 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. Connect anti-swaybar to chassis bracket and secure with retainer spring. Install belt into electric clutch pulley groove. **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. **ELECTRIC CLUTCH PULLEY SUSPENSION ARMS RETAINER SPRING FRONT LINK RETAINER SPRINGS (BOTH SIDES) ANTI-SWAY BAR RETAINER SPRINGS (BOTH SIDES) DEFLECTOR SHIELD FIG. 24 22 SERVICE AND ADJUSTMENTS SIDE-TO-SIDE ADJUSTMENT** (See Figs. 25 and 26) · 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 NUT "E" MANDREL "D" "D" FIG. 27 BOTH FRONT LINKS MUST BE EQUAL IN LENGTH "A" GROUND LINE "A" FIG. 25 NUT "F" TRUNNION SUSPENSION ARM FRONT LINKS FIG. 28 LIFT LINK ADJUSTMENT NUT FIG. 26 FRONT-TO-BACK ADJUSTMENT** (See Figs. 27 and 28) **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 REPLACE MOWER BLADE DRIVE BELT** (See Fig.

29) The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake. **BELT REMOVAL** · Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual). · Work belt off both mandrel pulleys and idler pulleys. · Pull belt away from mower. **BELT INSTALLATION** · Install new belt in reverse order of removal. · Make sure belt is in all pulley grooves and inside all belt guides. · Install mower in reverse order of removal instructions. **IDLER PULLEYS** 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.



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· 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. MANDREL PULLEYS 23 FIG. 29 SERVICE AND ADJUSTMENTS TO CHECK AND ADJUST BRAKE (See Fig. 30) 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. · Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged 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 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A". · Engage transmission by placing freewheel control in "transmission engaged" position.

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" NUT "A" 1-9/16" TO REPLACE MOTION DRIVE BELT (See Fig.

31) 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. · Disconnect clutch wire harness. · Remove clutch locator. · Remove belt from stationary idler and clutching idler. · Remove belt downward from engine pulley and around electric clutch. · Pull belt slack toward rear of tractor.

Carefully remove belt upwards from transmission input pulley and over cooling fan blades. · Remove belt from center span keeper and pull belt away from tractor. BELT INSTALLATION · Carefully work new belt down around transmission cooling fan and onto the input pulley. · Slide belt into the center span keeper. · Pull belt toward front of tractor and roll belt around electric clutch and onto engine pulley. · Install belt through stationary idler and clutching idler. · Reinstall clutch locator and tighten nut securely. · Reconnect clutch harness. · 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).

ELECTRIC CLUTCH CLUTCHING IDLER STATIONARY IDLER CLUTCH LOCATOR JAM NUT OPERATING ARM CENTER SPAN KEEPER TRANSMISSION INPUT PULLEY CLUTCH WIRE HARNESS DO NOT TOUCH THIS NUT. IF FURTHER BRAKE ADJUSTMENT IS NECESSARY CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT FIG. 30 FIG. 31 24 SERVICE AND ADJUSTMENTS TRANSMISSION REMOVAL/REPLACEMENT Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMISSION" in the Operation section of this manual.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 33) · 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. @@Tire sealant also prevents tire dry rot and corrosion. WASHERS RETAINING RING TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 32) The motion control lever has been preset at the factory and adjustment should not be necessary. · Loosen adjustment bolt in front of the right rear wheel, and lightly tighten. · Start engine and move motion control lever until tractor does not move forward or backward. · Hold motion control lever in that position and turn engine off. · While holding motion control lever in place, loosen the adjustment bolt.

· Move motion control lever to the neutral (N) (lock gate) position. · Tighten adjustment bolt securely. NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position. After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps: · Loosen the adjustment bolt. · Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep. · Tighten adjustment bolt securely. · Start engine and test. · If tractor still creeps, repeat above steps until satisfied. MOTION CONTROL LEVER NEUTRAL LOCK GATE AXLE COVER SQUARE KEY (REAR WHEEL ONLY) FIG. 33 TO START ENGINE WITH A WEAK BATTERY (See Fig.

34) 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. ADJUSTMENT BOLT FIG. 32 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.



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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 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. · RED cable last from both batteries. **25 SERVICE AND ADJUSTMENTS TO REMOVE HOOD AND GRILL ASSEMBLY** (See Fig. 35) · · · · Raise hood. Unsnap headlight wire connector.

Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor. To replace, reverse above procedure. **HOOD WEAK OR DEAD BATTERY FULLY CHARGED BATTERY FIG. 34 TO REPLACE HEADLIGHT BULB** · · · · Raise hood. Pull bulb holder out of the hole in the backside of the grill. Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill. Close hood. **FIG. 35 HEADLIGHT WIRE CONNECTOR 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. **26 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. · · Drain the fuel tank. Start the engine and let it run until the fuel lines and carburetor are empty. · Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur. · Use fresh fuel next season. **NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage.

Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer. **ENGINE OIL** Drain oil (with engine warm) and replace with clean 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 AREAS ARE STILL WARM.** **27 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. Drain 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. Drain fuel tank and refill with fresh gasoline.



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