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User manual HUSQVARNA LTH 120
User guide HUSQVARNA LTH 120
Operating instructions HUSQVARNA LTH 120
Instructions for use HUSQVARNA LTH 120
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LTH120

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.

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. 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. 2 SAFETY RULES Safe Operation Practices for Ride-On Mowers • 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. 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. Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED. CAUTION: Do not coast down a hill in neutral, you may lose control of the tractor.

CAUTION: 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.

CAUTION: 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 The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. 3 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.



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We have competent, well-trained technicians and the proper tools to service or repair this unit. Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES". PRODUCT SPECIFICATIONS GASOLINE CAPACITY AND TYPE: 1.25 GALLONS UNLEADED REGULAR OIL TYPE (API-SF/SG/SH): SAE 30 (above 32°F) SAE 5W-30 (below 32°F) OIL CAPACITY: SPARK PLUG: (GAP: .040") VALVE CLEARANCE: GROUND SPEED (MPH): TIRE PRESSURE: CHARGING SYSTEM: BATTERY: W/ FILTER: 3.5 PINTS W/O FILTER: 3.0 PINTS CHAMPION RJ19LM or J19LM INTAKE: .005" - .

007" EXHAUST: .009" - .011" FORWARD: REVERSE: 5.7 2.7 CUSTOMER RESPONSIBILITIES ••• Read and observe the safety rules. Follow a regular schedule in maintaining, caring for and using your tractor. Follow the instructions under "Customer Responsibilities" 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).

FRONT: 14 PSI REAR: 12 PSI 3 AMPS BATTERY 5 AMPS HEADLIGHTS AMP/HR: MIN. CCA: CASE SIZE: 27-35 FT. LBS. 25 190 U1R BLADE BOLT TORQUE: TABLE OF CONTENTS SAFETY RULES ..

.....
.....
.....
.....
.....
.....

..... 2 - 3 PRODUCT SPECIFICATIONS ...

.....
.....
.....
.....

. 4 CUSTOMER RESPONSIBILITIES

.....

..... 4, 15 - 18 ASSEMBLY

.....
.....
.....
.....
.....

..... 6 - 8 OPERATION ...

.....
.....
.....
.....
.....

..... 9 - 14 MAINTENANCE SCHEDULE

.....
.....
.....
.....

15 SERVICE AND ADJUSTMENTS

.....

. 19 - 23 STORAGE

.....
.....

• Operating engine at less than full throttle reduces the battery charging rate. • Full throttle offers the best bagging and mower performance. TO MOVE FORWARD AND BACKWARD (See Fig. 6) The direction and speed of movement is controlled by the motion control lever.



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• Start tractor with motion control lever in neutral (N) position. • Release parking brake and clutch/brake pedal. • Slowly move motion control lever to desired position. **CLUTCH/BRAKE PEDAL "DRIVE" POSITION MOTION "DISENGAGED" CONTROL POSITION LEVER FIG. 6 TO ADJUST MOWER CUTTING HEIGHT** (See Fig. 6) 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. **STOPPING** (See Fig.

6) **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 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. 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. **IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).**

11 OPERATION TO OPERATE MOWER (See Fig. 7) 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. • 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 discharge guard in place. **TO TRANSPORT** (See Figs. 6 and 8) When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located at the rear drawbar of tractor.

• Raise attachment lift to highest position with attachment lift control. • Pull freewheel control out and down 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. **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.). **ATTACHMENT CLUTCH LEVER "ENGAGED" ATTACHMENT LIFT LEVER HIGH POSITION LOW POSITION "DISENGAGED" POSITION FIG. 8 TOWING CARTS AND OTHER ATTACHMENTS FIG. 7** 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. **TO OPERATE ON HILLS CAUTION:** 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. • **BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL** (See Fig. 13) • • • 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. • • **12 OPERATION ADD GASOLINE** • Fill fuel tank. 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. **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. **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 also be used during the engine warm-up period after the transmission has been warmed up. **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. **IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.** **WARNING:** 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.



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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. CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel.

Do not store, spill or use gasoline near an open flame. 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. IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR. TO START ENGINE (See Fig. 6) 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 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.

•••• 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. 13 OPERATION 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 tractor is now purged and now ready for normal operation.

MULCHING MOWING TIPS IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE. •••• 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. 9). 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.

•• 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. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades. Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun. For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 10). For extremely heavy mulching, reduce your width of cut and mow slowly.

Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path. Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

MAX 1/3 •• FIG. 10 ••• FIG. 9 14 CUSTOMER RESPONSIBILITIES 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 Adjust Blade Belt(s) Tension Adjust Motion Drive Belt(s) Tension Check Engine Oil Level Change Engine Oil 1,2,3 2 2 5 5 6 4 7 E S E S R S RS AG US UR N UR OU HOU HO ASO TOR 0 HO 25 H 50 S SE 10 E EE Y 8 R RY ERY ERY ERY FOR OR E E F SERVICE EV EV EV EV BE EV BE H AC DATES T R A C T O R E N G I N E 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 2 1 - Change more often when operating under a heavy load or in high ambient temperatures.



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2 - Service more often when operating in dirty or dusty conditions. 3 - If equipped with oil filter, change oil every 50 hours.
4 - Replace blades more often when mowing in sandy soil. 5 - If equipped with adjustable system. 6 - Not required if equipped with maintenance-free battery.
7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten. LUBRICATION CHART 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.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season. • Once a year you should replace the spark plug, clean or replace air filter, and check 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. FRONT WHEEL BEARING ZERK FRONT WHEEL BEARING ZERK ENGINE ••••• Check engine oil level. Check brake operation. Check tire pressure. Check operator presence and interlock systems for proper operation. Check for loose fasteners. 15 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. À À BEFORE EACH USE General Purpose Grease Refer to Customer Responsibilities "ENGINE" Section À À À À GENERAL RECOMMENDATIONS SPINDLE ZERK SPINDLE ZERK À CUSTOMER RESPONSIBILITIES TRACTOR Always observe safety rules when performing any maintenance. IMPORTANT: TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON 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).

• Reassemble hex bolt, lock washer and flat washer in exact order as shown. Tighten bolt securely (27-35 Ft. Lbs. torque). IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

TO SHARPEN BLADE (See Fig. 12) 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 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. 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.

@@@12 BLADE CARE For best results mower blades must be kept sharp. @@@• Keep battery and terminals clean. • Keep battery bolts tight. • Keep small vent holes open. • Recharge at 6-10 amperes for 1 hour.

@@Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary. @@• Open battery box door. @@• Rinse the battery with plain water and dry. @@• Coat terminals with grease or petroleum jelly.

@@16 BLADE REMOVAL (See Fig. @@Remove hex bolt, lock washer and flat washer securing blade. @@STAR FIG. @@The belts are not adjustable. Replace belts if they begin to slip from wear. TO CHANGE ENGINE OIL (See Fig. 13) Determine temperature range expected before oil change. All oil must meet API service classification SF, SG or SH. • 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 drain plug. @@• Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. @@• Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. @@@@Clean the cooling fins and external surfaces as necessary.

Make sure the cooling shrouds are reinstalled. @@14 Your engine will not run properly using a dirty air filter. @@@@Service air cleaner more often under dusty conditions. • Remove knob(s) and cover. TO SERVICE PRE-CLEANER • Slide foam pre-cleaner off cartridge.

• Wash it in liquid detergent and water. • Squeeze it dry in a clean cloth. • Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil. • If very dirty or damaged, replace pre-cleaner.

• Reinstall pre-cleaner over cartridge. • Reinstall cover and secure with knob(s). TO SERVICE CARTRIDGE • Remove cartridge nut. • Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor. • Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge. • Reinstall cartridge, nut, precleaner, cover and secure with knob(s). IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE.

DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE. COVER KNOB 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. IN-LINE FUEL FILTER (See Fig. 15) The fuel filter should be replaced once each season.



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If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required. • With engine cool, remove filter and plug fuel line sections. • Place new fuel filter in position in fuel line with arrow pointing towards carburetor.

• Be sure there are no fuel line leaks and clamps are properly positioned. • Immediately wipe up any spilled gasoline. CLAMP CLAMP FUEL FILTER FIG. 15 CLEANING • Clean engine, battery, seat, finish, etc. of all foreign matter.

• Keep finished surfaces and wheels free of all gasoline, oil, etc. • Protect painted surfaces with automotive type wax. We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life. COVER CARTRIDGE NUT FOAM PRE-CLEANER PAPER CARTRIDGE BASE FIG.

14 18 SERVICE AND ADJUSTMENTS CAUTION: 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 "OFF" 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. TO REMOVE MOWER (See Fig. 16) 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 lift 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 onto square hole in frame. TO INSTALL MOWER • Raise attachment lift lever to its highest position.

• Slide mower under tractor with discharge guard to right side of tractor. • Lower lift lever to its lowest position. @@@@SIDE-TO-SIDE ADJUSTMENT (See Figs. 17 and 18) • Raise mower to its highest position. @@@@16 19 SERVICE AND ADJUSTMENTS SUSPENSION ARM TO REPLACE MOWER BLADE DRIVE BELT (See Fig.

21) 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 LIFT LINK ADJUSTMENT NUT FIG. 18 FRONT-TO-BACK ADJUSTMENT (SEE FIGS. 23 AND 24) 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-TOSIDE. 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. Both links should be approximately 10-3/8". • 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. • 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 MANDREL PULLEY 38 MANDREL PULLEY FIG. 21 TO ADJUST BRAKE (See Fig. 22) Your tractor is equipped with an adjustable brake system which is mounted on the side of the transaxle. If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. • Depress clutch/brake pedal 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". • Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department. WITH PARKING BRAKE "ENGAGED" NUT "A" 1-9/16" JAM NUT "D" "D" FIG. 19 BOTH FRONT LINKS MUST BE EQUAL IN LENGTH NUT "E" NUT "F" TRUNNION OPERATING ARM DO NOT TOUCH THIS NUT. IF FURTHER BRAKE ADJUSTMENT IS NECESSARY CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT FRONT LINKS FIG. 20 20 FIG. 22 42 SERVICE AND ADJUSTMENTS TO REPLACE MOTION DRIVE BELT (See Fig. 23) Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

• Remove mower (See "TO REMOVE MOWER" in this section of this manual.) • Remove belt from stationary idler and clutching idler. • Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades. • Pull belt toward front of tractor and remove downward from around engine pulley. • Install new belt by reversing above procedure. ENGINE PULLEY CLUTCHING IDLER STATIONARY IDLER ••••• 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 ADJUSTMENT BOLT FIG.



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24 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. **TRANSMISSION INPUT PULLEY 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 FIG. 23 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. **TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT** (See Fig. 24) 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: **21 SERVICE AND ADJUSTMENTS TO REMOVE WHEEL FOR REPAIRS** (See Fig. 25) • 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 AXLE COVER SQUARE KEY (REAR WHEEL ONLY)**

POSITIVE TERMINAL NEGATIVE TERMINAL CHASSIS CABLES CHARGED BATTERY POSITIVE TERMINAL NEGATIVE TERMINAL FIG. 26 REPLACING BATTERY (See Fig. 26 AND 27) **CAUTION:** 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 and open battery box door. 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 keps nut as shown. Tighten securely. Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely. Close battery box door.

SEAT PAN FIG. 25 TO START ENGINE WITH A WEAK BATTERY (See Fig. 26) **CAUTION:** 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 CUSTOMER RESPONSIBILITIES section of this manual). If "jumper cables" are used for emergency starting, follow this procedure: **IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.**

TO ATTACH JUMPER CABLES • Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis. • Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery. • Connect the other end of the BLACK cable 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. **BATTERY BOX DOOR FIG. 27 22 SERVICE AND ADJUSTMENTS KEPS NUT ENGINE TO ADJUST THROTTLE CONTROL CABLE** (See Fig. 30) **HEX BOLT POSITIVE (RED) CABLE NEGATIVE (BLACK) CABLE FIG. 28 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. The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

• With engine not running, move throttle control lever from slow to choke position.

Slowly move lever from choke to fast position. • Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely. **GOVERNOR CONTROL LEVER GOVERNOR CONTROL PLATE 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. **TO REPLACE FUSE** Replace with 15 amp automotive-type plug-in fuse. The fuse holder is located behind the dash. **TO REMOVE HOOD AND GRILL ASSEMBLY** (See Fig. 29) ••••• 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 procedures.

HOOD HOLES "A" CLAMP SCREW THROTTLE CABLE FIG. 30 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. High speed stop is factory adjusted. Do not adjust - damage may result. **IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/ DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.** **HEADLIGHT WIRE CONNECTOR FIG.**

29 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. **CAUTION:** Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark.



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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 Customer Responsibilities 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 Customer Responsibilities 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 Customer Responsibilities 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 Customer Responsibilities 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). 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. • • **OTHER IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS 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.

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. 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. 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. Set in “Higher Cut” position/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.

Drain fuel tank and refill with fresh gasoline. Drain 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 CAUSE** Faulty operator-safety presence control system.

CORRECTION 1. Check wiring, switches and connections.

If not corrected, contact an authorized service center/ department. Engine continues to run 1.



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when operator leaves seat with attachment clutch engaged 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) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 1.

2. 3. 4. 5. Turn switch "ON". Replace bulb(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.

Loss of drive 1. 2. 3. Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken.

Air trapped in transmission during shipment or servicing. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 1. 2. 3.

Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission. Engine "backfires" when turning engine "OFF" 1. 1.

Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine. 26 TRACTOR - MODEL NO. LTH120 (954140106A), PRODUCT NO. 954 14 01-06 SCHEMATIC RED BLACK BATTERY A AMMETER (OPTIONAL) RED RED M STARTER BLACK FUSE WHITE SOLENOID RED B G L BLACK S M A1 A2 CLUTCH / BRAKE (PEDAL UP) WHITE 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) ORANGE DIODE ALTERNATOR 14 VOLTS AC MIN. @ 3600 RPM (LIGHTS OFF) NOTE YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE.

BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM.

AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST. IGNITION SWITCH POSITION CIRCUIT "MAKE" NONE A2+L NONE NONE BROWN BLACK HEADLIGHTS NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS WIRING INSULATED CLIPS NOTE:

IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING. OFF M+G+A1 RUN/LIGHT B+A1 RUN START B+A1 B + S + A1 27 REPAIR PARTS TRACTOR - MODEL NO. LTH120 (954140106A),

PRODUCT NO. 954 14 01-06 ELECTRICAL 21 22 42 24 41 70 43 27 27 26 40 20 20 25 16 16 33 30 D.

C 52 .A MPE RES 8 45 29 28 27 2 1 28 REPAIR PARTS TRACTOR - MODEL NO. LTH120 (954140106A), PRODUCT NO. 954 14 01-06 ELECTRICAL KEY

NO. 1 2 8 16 20 21 22 24 25 26 27 28 29 30 33 40 41 42 43 45 52 70 PART NO.

532144925 874760412 532156417 532153664 873350400 532166181 532004152 532124780 532146147 532166180 873510400 532124773 532121305

532163968 532140401 532170217 871110408 532131563 532145673 532121433 532141940 532170242 DESCRIPTION Battery 12 Volt 25 AMP Bolt Hex Hd 1/4-20unc X 3/4 Case Battery Mech Hinge Switch Interlock Push-In Nut Jam Hex 1/4-20 Unc Harness Asm Light W/4152j Bulb Light #1156 Cable Battery

6 Ga 11" red Cable Battery 6 Ga 44" red w/16 wire Fuse 15 AMP Nut Keps Hex 1/4-20 Unc Cable Ground 6 Ga 12" black Switch Plunger Nc Gray Switch Ign Delta Key Ign Molded Generic Harness Ign. Bolt Blk Fin Hex 1/4 - 20 x 1/2 Cover Terminal Red Solenoid Ammeter Rectangular 6 Amps Protection Wire

Loop Harness, Eng. B&S NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm. 29 REPAIR PARTS TRACTOR - MODEL NO. LTH120 (954140106A), PRODUCT NO. 954 14 01-06 CHASSIS AND ENCLOSURES 28 17 29 159 60 18 60 134 57 129 30 68 5 31 5 3 14 9 14 11 14 37 14 14 58 53

71 52 53 57 64 14 144 3 3 3 142 60 26 25 26 143 144 10 142 3 3 2 74 38 206 1 13 26 25 26 145 37 14 37 3 3 3 38 30 REPAIR PARTS TRACTOR - MODEL NO.

LTH120 (954140106A), PRODUCT NO. 954 14 01-06 CHASSIS AND ENCLOSURES KEY NO. 1 2 3 5 9 10 11 13 14 17 18 25 26 28 29 30 31 37 38 52 53 57 58 60 64 68 71 74 129 134 142 143 144 145 159 206 -- PART NO. 532169630 532169061 817490612 532155272 532171708 872140608 532155927

532169195 817490608 532165378 532126938 819131312 873800600 532165379 532165380 532171625 532139976 817490508 532169834 819091416 532150067 874780412 532150127 872140606 532154798 873510400 873680400 873680600 819091016 532160219 532165867 532154966 532154207

532156524 532166508 532170165 532005479 DESCRIPTION Chassis Stamping Drawbar, 12 Ga. Screw Thdrol 3/8-16x3/4 Ty-tt Bumper Hood/Dash Dash Silscr Bolt Carriage 3/8-16 x 1 Panel Dash Lh Panel Dash Rh Screw Thdrol 3/8-16x1/2 Ty-tt Hood LT/PL Husqvarna Bumper Hood Washer 13/32 X 13/16 X

12 Ga Nut Lock Hex W/Ins 3/8-16 Unc Grille LT/PL Husqvarna Lens LT/PL Husqvarna Fender Footrest STLT Pnt Bracket Support Fender Screw Thdrol 6/16-18 x 1/2 TYT Bracket Asm Pivot Mower Rear Washer 9/32 x 7/8 x 16 Ga. Bracket Pnt. Pick off LT/PL Husqvarna Bolt Hex 1/4-20 x 3/4 Air Duct Engine

P/L Bolt Rdhd Sqnk 3/8-16unc x 3/4 Dash Lower STLT Nut Keps Hex 1/4-20unc Nut Cronwn Lock 1/4-20 Unc Blk D Nut Crownlock 3/8-16 UNC Washer 9/32 x 5/8 x 16 Ga. Rod Support Hood LT/PL Husq. Plate Reinforcement STLT Bracket Swaybar Chassis Bracket Pnt Footrest STLT Rod Pivot Chassis/Hood

Cupholder Silt Grey Bolt Shoulder 5/16-18 TT Plug Button NOTE: All component dimensions given in U.S.

inches 1 inch = 25.4 mm 31 REPAIR PARTS TRACTOR - MODEL NO.



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