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You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA YTH22V46. You'll find the answers to all your questions on the HUSQVARNA YTH22V46 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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 **Husqvarna®**



YTH22V46

Owner's Manual

532 43 33-16 Rev. 2



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Manual abstract:

@@@@@@@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. ••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. Slow down before turning. Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.

Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge chute. Operate machine only in daylight or good artificial light. Do not operate the machine while under the influence of alcohol or drugs. Watch for traffic when operating near or crossing roadways.

Use extra care when loading or unloading the machine into a trailer or truck. Always wear eye protection when operating machine. Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mowerrelated injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury. Follow the manufacturer's recommendation for wheel weights or counterweights.

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. II. SLOPE OPERATION Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it. •Mow up and down slopes, not across. • Watch for holes, ruts, bumps, rocks, or other hidden objects.

Uneven terrain could overturn the machine. Tall grass can hide obstacles. •Choose a low ground speed so that you will not have to stop or shift while on the slope. •Do not mow on wet grass. Tires may lose traction. Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill. •Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope. •Keep all movement on the slopes slow and gradual.

Do not make sudden changes in speed or direction, which could cause the machine to roll over. •Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do no use on steep slopes. •Do not try to stabilize the machine by putting your foot on the ground. •Do not mow near drop-offs, ditches, or embankments.

The machine could suddenly roll over if a wheel is over the edge or if the edge caves in. I. GENERAL OPERATION ••••••••Read, understand, and follow all instructions on the machine and in the manual before starting. Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.

Only allow responsible adults, who are familiar with the instructions, to operate the machine. Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades. Be sure the area is clear of bystanders before operating. 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. Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction.

Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces. Do not operate machine without the entire grass catcher, discharge chute, or other safety devices in place and working. 2 SAFETY RULES Safe Operation Practices for Ride-On Mowers 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 in the watchful care of a responsible adult other than the operator. •Be alert and turn machine off if a child enters the area. •Before and while backing, look behind and down for small children.

•Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine. •Never allow children to operate the machine. •Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

GENERAL SERVICE •Never operate machine in a closed area. •Keep all nuts and bolts tight to be sure the equipment is in safe working 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 and remove any fuelsoaked debris. Allow machine to cool before storing. •If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting. •Never make any adjustments or repairs with the engine running. •Check grass catcher components and the discharge chute frequently and replace with manufacturer's recommended parts, when necessary. •Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them. •Check brake operation frequently. Adjust and service as required.

•Maintain or replace safety and instruction labels, as necessary. IV. TOWING •••••Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point. Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes. Never allow children or others in or on towed equipment. On slopes, the weight of the towed equipment may cause loss of traction and loss of control. Travel slowly and allow extra distance to stop. •••••V. SERVICE SAFE HANDLING OF GASOLINE To avoid personal injury or property damage, use extreme care in handling gasoline.



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Gasoline is extremely flammable and the vapors are explosive. • Extinguish all cigarettes, cigars, pipes, and other sources of ignition. • Use only approved gasoline container. • Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. • Never fuel the machine indoors. • Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances. • Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from your vehicle when filling. • Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle. • Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device. • If fuel is spilled on clothing, change clothing immediately. • Never overfill fuel tank. Replace gas cap and tighten securely. • • • • • • • • • • Be sure the area is clear of bystanders before operating. 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. Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine. Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator. Be alert and turn machine off if a child enters the area. Before and while backing, look behind and down for small children. Mow up and down slopes (15° Max), not across. Choose a low ground speed so that you will not have to stop or shift while on the slope. Avoid starting, stopping, or turning on a slope. If the 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. 3 PRODUCT SPECIFICATIONS Gasoline Capacity and type: Oil Type (API-SG-SL): Oil Capacity: Spark Plug: Ground Speed (MPH): Charging System: Battery: Blade Bolt Torque: 2.50 Gallons Unleaded Regular SAE 30 (above 32°F) SAE 5W-30 (below 32°F) w/Filter: w/o Filter: 64 oz. 60 oz. CUSTOMER RESPONSIBILITIES • • • Read and observe the safety rules. Follow a regular schedule in maintaining, caring for and using your tractor. Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual. Champion QCI2YC (Gap: . 030") Forward: Reverse: 0 - 5.2 0 - 2.9 3 AMPS BATTERY 5 AMPS HEADLIGHTS AMP/HR: MIN. CCA: Case Size: 45-55 Ft. Lbs. 28 230 U1R 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 servicecenter/ department We have competent, well-trained technicians and the proper tools to service or repair this tractor. Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly.

Always observe the "SAFETY RULES". 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. A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual). TABLE OF

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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. **7 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. **P H E G B D F A M C J L K Fig. 3** Our tractors conform to the applicable safety standards of the American National Standards Institute. (A) **ATTACHMENT LIFT LEVER** - Used to raise and lower the mower or other attachments mounted to your tractor. (B) **BRAKE PEDAL** - Used for braking the tractor and starting the engine.

(C) **PARKING BRAKE** - Locks clutch/brake pedal into the brake position. (D) **THROTTLE/CHOKE CONTROL** - Used for starting and controlling engine speed. (E) **ATTACHMENT CLUTCH LEVER** - Used to engage the mower blades, or other attachments mounted to your tractor. (F) **IGNITION SWITCH** - Used for starting and stopping the engine. (G) **REVERSE OPERATION SYSTEM (ROS) "ON" POSITION** - Allows operation of mower or other powered attachment while in reverse.

(H) **LIGHT SWITCH** - Turns the headlights on and off. (J) **CRUISE CONTROL LEVER** - Used to set forward movement of tractor at desired speed without holding the forward drive pedal. (K) **FORWARD DRIVE PEDAL** - Used for forward movement of tractor. (L) **REVERSE DRIVE PEDAL** - Used for reverse movement of tractor. (M) **FREEWHEEL CONTROL** - Disengages transmission for pushing or slowly towing the tractor with the engine off.

(P) **SERVICE REMINDER / HOUR METER** - Indicates when service is required for the engine and mower. **8 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 standard safety glasses or a wide vision safety mask worn over spectacles. **HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE** (See Fig. 4) 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 brake pedal (B) all the way down and hold. • Pull parking brake lever (C) up and hold, release pressure from brake pedal (B), then release parking brake lever. Pedal should remain in brake position.

Make sure parking brake will hold tractor secure. **ENGINE** • Move throttle control (D) between half and full speed (fast) position. **NOTE:** Failure to move throttle control between half and full speed (fast) position, before stopping may cause engine to "backfire". • Turn ignition key (F) to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use. • Never use the choke to stop the engine. **IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "STOP" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).** **C B 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, and set parking brake before leaving the operator's position.

Fig. 4 STOPPING (See Fig. 5) **MOWER BLADES** • To stop mower blades, place attachment clutch control in the "DISENGAGED" position (). **TO USE THROTTLE CONTROL (D)** (See Fig. 6) Always operate engine at full speed (fast).

• Operating engine at less than full speed (fast) reduces the engine's operating efficiency. • Full speed (fast) offers the best mower performance. **D F () ATTACHMENT CLUTCH LEVER "DISENGAGED" () ATTACHMENT CLUTCH LEVER "ENGAGED"** Fig. 6 Fig. 5 **GROUND DRIVE** • To stop ground drive, depress brake pedal into full "BRAKE" position.

IMPORTANT: FORWARD AND REVERSE DRIVE PEDALS RETURN TO NEUTRAL POSITION WHEN NOT DEPRESSED. TO MOVE FORWARD AND BACKWARD (See Fig. 7) The direction and speed of movement is controlled by the forward and reverse drive pedals. • Start tractor and release parking brake. • Slowly depress forward (K) or reverse (L) drive pedal to begin movement. Ground speed increases the further down the pedal is depressed. **9 OPERATION TO USE CRUISE CONTROL (J)** (See Fig. 7) The cruise control feature can be used for forward travel only. **TO ADJUST GAUGE WHEELS** (See Fig. 9) 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 this section of manual). • With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole. Tighten securely. • Repeat for all, installing gauge wheel in same adjustment hole. **K J L Fig. 7 SYSTEM CHARACTERISTICS** The cruise control should only be used while mowing or transporting on relatively smooth, straight surfaces. Other conditions such as trimming at slow speeds may cause the cruise control to disengage.

Do not use the cruise control on slopes, rough terrain or while trimming or turning. • With forward drive pedal depressed to desired speed, pull cruise control lever (J) up and hold while lifting your foot off the pedal, then release the lever. To disengage the cruise control, depress the brake pedal or tap on forward drive pedal. **Fig. 9 TO ADJUST MOWER CUTTING HEIGHT** (See Fig.

8) The position of the attachment lift lever (A) determines the cutting height. **TO OPERATE MOWER** Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills. • Select desired height of cut (see "TO ADJUST MOWER CUTTING HEIGHT") • Start mower blades by engaging attachment clutch control.

A TO STOP MOWER BLADES • Disengage attachment clutch control. **CAUTION:** Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield (S) in place (See Fig. 10). **Fig. 8** • Put attachment lift lever in desired cutting height slot. The cutting height range is approximately 1" to 4". The heights are measured from the ground to the blade tip with the engine not running.



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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 " during the cool season and to over 3" during hot months. For healthier and better looking lawns, mow often and after moderate growth.

• For best cutting performance, grass over 6" in height should be mowed twice. Make the first cut relatively high; the second to desired height. S 10 Fig. 10
OPERATION REVERSE OPERATION SYSTEM (ROS) Your tractor is equipped with a Reverse Operation System (ROS). Any attempt by the operator to travel in the reverse direction with the attachment clutch engaged will shut off the engine unless ignition key is placed in the ROS "ON" position. **WARNING:** Backing up with the attachment clutch engaged while mowing is strongly discouraged. Turning the ROS "ON", to allow reverse operation with the attachment clutch engaged, should only be done when the operator decides it is necessary to reposition the machine with the attachment engaged. Do not mow in reverse unless absolutely necessary. **USING THE REVERSE OPERATION SYSTEM** Only use if you are certain no children or other bystanders will enter the mowing area. • Depress brake pedal all the way down.

• With engine running, turn ignition key counterclockwise to ROS "ON" position. • Look down and behind before and while backing. • Slowly depress reverse drive pedal to start movement. • When use of the ROS is no longer needed, turn the ignition key clockwise to engine "ON" position. **ROS "ON" POSITION ENGINE "ON" POSITION (NORMAL OPERATING) TO TRANSPORT** (See Figs.

3 and 11) 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.). **TRANSMISSION ENGAGED TRANSMISSION DISENGAGED** Fig. 11 **TOWING CARTS AND OTHER ATTACHMENTS 02828 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 stopping is absolutely necessary, push brake pedal quickly to brake position and engage parking brake. To restart movement, slowly release parking brake and brake pedal.

Slowly depress appropriate drive pedal to slowest setting. Make all turns slowly. 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. **SERVICE REMINDER/HOUR METER** Service reminder shows the total number of hours the engine has run and flashes to indicate that the engine or mower needs servicing. When service is required, the service reminder will flash for two hours. To service engine and mower, see the Maintenance section of this manual. **NOTE:** Service reminder runs when the ignition key is in any position but "STOP".

For accurate reading, be sure key remains in the "STOP" position when engine is not running. 11 **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. • Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached.

Do not overfill. " • For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual). • To change engine oil, see the Maintenance section in this manual. **TO START ENGINE** (See Fig. 3) 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 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 (10°C and above) • When engine starts, move the throttle control to the fast position. • The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50°F (10°C 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 warmup period after the transmission has been warmed up. **NOTE:** If at a high altitude (above 3000 feet) or in cold temperatures (below 32° F /0°C) 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** • Fill fuel tank to bottom of filler neck.



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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 GASOLINE TO HELP ENSURE GOOD COLD WEATHER STARTING. 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. 12 OPERATION 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. 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. 12). • 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. Disengage parking brake • Depress forward drive pedal to full forward position, hold for five (5) seconds and release pedal. Depress reverse drive pedal to full reverse position, hold for five (5) seconds and release pedal. 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. • Shut- off engine and set parking brake. • Engage transmission by placing freewheel control in engaged 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. Disengage parking brake. • Drive tractor forward for approximately five feet then backwards for five feet. Repeat this driving procedure three times. Your transmission is now purged and now ready for normal operation. Fig.

12 • If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height. Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing. Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired. When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used. ••• 13 MAINTENANCE MAINTENANCE SCHEDULE Check Brake Operation BEFORE EACH USE EVERY 8 HOURS EVERY 25 HOURS EVERY 50 HOURS EVERY 100 HOURS EVERY SEASON BEFORE STORAGE T R A C T O R Check Tire Pressure Check Operator Presence & ROS Systems Check for Loose Fasteners Check/Replace Mower Blades Lubrication Chart Check Battery Level Clean Battery and Terminals Clean Debris Off Steering Plate Check Transaxle Cooling Check Mower Levelness Check V-Belts Check Engine Oil Level Change

Engine Oil (with oil filter) 1,2 1,2 2 2 5 4 3 E N G I N E Change Engine Oil (without oil filter) Clean Air Filter Clean Air Screen Inspect Muffler/Spark Arrester Replace Oil Filter (If equipped) Clean Engine Cooling Fins Replace Spark Plug Replace Air Filter Paper Cartridge 1, 2 2 2 Replace Fuel Filter 1 - Change more often when operating under a heavy load or in high ambient temperatures. 2 - Service more often when operating in dirty or dusty conditions. 3 - Replace blades more often when mowing in sandy soil. 4 - Not required if equipped with maintenance-free battery. @@@@ Check

brake operation. Check tire pressure. Check operator presence and ROS systems for proper operation. @@@@ Tire sealant also prevents tire dry rot and corrosion. OPERATOR PRESENCE SYSTEM AND REVERSE

OPERATION SYSTEM (ROS) (See Fig. @@@@ • When the engine is running with the ignition switch in the ROS "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should NOT shut off the engine. BLADE CARE For best results mower blades must be kept sharp. Replace bent or damaged blades.

CAUTION: Use only a replacement blade approved by the manufacturer of your tractor. Using a blade not approved by the manufacturer of your tractor is hazardous, could damage your tractor and void your warranty. BLADE REMOVAL (See Fig. 14) • Raise mower to highest position to allow access to blades. NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth. • Remove blade bolt by turning counterclockwise. • Install new or resharpened blade with stamped "THIS SIDE UP" facing deck and mandrel assembly. IMPORTANT: TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON MANDREL ASSEMBLY. • Install and tighten blade bolt securely (45-55 Ft. Lbs.

torque). MANDREL ASSEMBLY BLADE IMPORTANT: SPECIAL BLADE BOLT HEAT TREATED. BLADE BOLT (SPECIAL) STAR CENTER HOLE BATTERY Fig. 14 Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life. • Keep battery and terminals clean.



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• Keep battery bolts tight. • Keep small vent holes open. • Recharge at 6-10 amperes for 1 hour. NOTE: The original equipment battery on your tractor is maintenance free.

Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary. TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals can cause the battery to "leak" power. • Raise seat. • Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.

• Rinse the battery with plain water and dry. • Clean terminals and battery cable ends with wire brush until bright. • Coat terminals with grease or petroleum jelly. • Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual). 15 02828 ROS "ON" POSITION ENGINE "ON" POSITION (NORMAL OPERATING) Fig.

13 MAINTENANCE 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. CLOSED AND LOCKED POSITION YELLOW CAP OIL DRAIN VALVE 02 46 3 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. DRAIN TUBE ••••• TRANSAXLE PUMP FLUID The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle.

Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department. ENGINE LUBRICATION Only use high quality detergent oil rated with API service classification SG-SL. Select the oil's SAE viscosity grade according to your expected operating temperature. SAE VISCOSITY GRADES SAE 30 5W-30 F C -30 -20 -20 0 -10 30 32 0 40 10 60 20 80 30 100 40 Fig. 16 Remove yellow cap from end of drain valve and install the drain tube onto the fitting. Unlock drain valve by pushing inward and turning counterclockwise. To open, pull out on the drain valve. After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown. Remove the drain tube and replace the cap onto the bottom fitting of the drain valve. Refill engine with oil through oil fill dipstick tube.

Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual. Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading.

Keep oil at "FULL line on dipstick. Tighten " cap onto the tube securely when finished. 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. AIR FILTER Your engine will not run properly using a dirty air filter.

Service air cleaner more often under dusty conditions. TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE CLEAN AIR SCREEN Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers. NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, they will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level. ENGINE COOLING SYSTEM To ensure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Ensure the cooling shrouds are reinstalled. NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating. TO CHANGE ENGINE OIL (See Fig. 16) Determine temperature range expected before oil change. All oil must meet API service classification SG-SL. • 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. 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.

16 MAINTENANCE MUFFLER Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage. DECK WASHOUT PORT (See Fig. 19) Your tractor's deck is equipped with a washout port on its surface as part of its deck wash system. It should be utilized after each use. 1.

Drive the tractor to a level, clear spot on your lawn, near enough to a water spigot for your garden hose to reach. IMPORTANT: Make certain the tractor's discharge chute is directed AWAY from your house, garage, parked cars, etc. Remove bagger chute or mulch cover if attached. 2. Make sure the attachment clutch control is in the "DISENGAGED" position, set the parking brake, and stop the engine. 3. Thread the nozzle adapter (packaged with your tractor's Operator's Manual) onto the end of your garden hose. 4. Pull back the lock collar of the nozzle adapter and push the adapter onto the deck washout port at the left end of the mower deck. Release the lock collar to lock the adapter on the nozzle.

HOSE IN-LINE FUEL FILTER (See Fig. 17) The fuel filter should be replaced once each season. 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. 17 NOZZLE ADAPTER WASHOUT PORT CLEANING •• Clean engine, battery, seat, finish, etc.



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of all foreign matter.

Clean debris from steering plate. Debris can restrict clutch/brake pedal shaft movement, causing belt slip and loss of drive. CAUTION: Avoid all pinch points and movable parts (See Fig. 18) CLUTCH/BRAKE PEDAL CLEAN TOP SIDE Fig. 19 IMPORTANT: Tug hose ensuring connection is secure.

5. Turn the water on. 6. While sitting in the operator's position on the tractor, re-start the engine and place the throttle lever in the Fast " " position.

IMPORTANT: Recheck the area making certain the area is clear.

7. Move the tractor's attachment clutch control to the "ENGAGED" position. Remain in the operator's position with the cutting deck engaged until the deck is cleaned. 8. Move the tractor's attachment clutch control to the "DISENGAGED" position. Turn the ignition key to the STOP position to turn the tractor's engine off. Turn the water off. 9. Pull back the lock collar of the nozzle adapter to disconnect the adapter from the nozzle washout port. 10.

Move the tractor to a dry area, preferably a concrete or paved area. Place the attachment clutch control in the "ENGAGED" position to remove excess water and to help dry before putting the tractor away. WARNING: A broken or missing washout fitting could expose you or others to thrown objects from contact with the blade. Replace broken or missing washout fitting immediately, prior to using mower again. Plug any holes in mower with bolts and locknuts. STEERING PLATE CAUTION: PINCH POINTS STEERING SYSTEM, DASH, FENDER AND MOWER NOT SHOWN Fig. 18 • 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 or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor.

Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower. • 17 SERVICE AND ADJUSTMENTS WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS: • Depress brake pedal fully and set parking brake. • 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. TO REMOVE MOWER (See Fig. 20) • • • • • Place attachment clutch in "DISENGAGED" position. Lower attachment lift lever to its lowest position. Roll belt off engine pulley (M) and belt keepers (G). Remove retainer spring (K), slide collar (L) off and push housing guide (P) out of bracket. Remove clutch cable spring (Q) from idler arm (R). Disconnect front link (E) from mower - remove retainer spring and washer. Go to either side of mower and disconnect mower suspension arm (A) from chassis pin (B) and rear lift link (C) from rear mower bracket (D) - remove retainer springs and washers. CAUTION: AFTER REAR LIFT LINKS ARE DISCONNECTED, THE ATTACHMENT LIFT LEVER WILL BE SPRING LOADED. HAVE A TIGHT GRIP ON LIFT LEVER WHEN CHANGING POSITION OF THE LEVER. IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONT LINK (E) AND REAR LIFT LINKS (C) FROM TRACTOR AND HOOK THE CLUTCH SPRING (Q) INTO THE CABLE GUIDE ON FRONT EDGE OF LOWER DASH. TO INSTALL MOWER (See Fig. 20-25) Be sure tractor is on level surface and engage parking brake. • Lower attachment lift lever to its lowest position.

CAUTION: LIFT LEVER IS SPRING LOADED. HAVE A TIGHT GRIP ON LIFT LEVER, LOWER IT SLOWLY AND ENGAGE IN LOWEST POSITION.

NOTE: Be sure mower side suspension arms (A) are pointing forward before sliding mower under tractor. • Slide mower under tractor until it is centered under tractor. • Slide mower out from under right side of tractor. G R Q A M F G E B P C K L D Fig. 20 18 SERVICE AND ADJUSTMENTS • • ATTACH MOWER SIDE SUSPENSION ARMS (A) TO CHASSIS - Position hole in arm over pin (B) on outside of tractor chassis and secure with retainer spring. Repeat on opposite side of tractor. A F • Insert end of link (E) into hole in front mower bracket and secure with washer and retainer spring (J). E J H B • Fig. 21 • ATTACH REAR LIFT LINKS (C) - Lift rear corner of mower and position slot in link assembly over pin (D) on rear mower bracket and secure with washer and retainer spring. • • Fig. 23 Hook end of clutch cable spring (Q) into hole in idler arm (R). Push clutch cable housing guide (P) into bracket, slide collar (L) onto guide and secure with retainer spring (K). Install belt on engine pulley (M), in belt keepers (G).

M C D Fig. 22 • ATTACH FRONT LINK (E) - Work from left side of tractor. Insert rod end of link assembly through front hole in tractor front suspension bracket (F). Fig. 24 IMPORTANT: CHECK BELT FOR PROPER ROUTING IN ALL MOWER PULLEY GROOVES.

• Raise attachment lift lever to highest position. • If necessary, adjust gauge wheels before operating mower as shown in the Operation section of this manual. G M F G R Q A E B P C K L D 19 Fig. 25 SERVICE AND ADJUSTMENTS TO LEVEL MOWER Make sure tires are properly inflated to the PSI shown on tires. If tires are over or under inflated, it may affect the appearance of your lawn and lead you to think the mower is not adjusted properly. VISUAL SIDE-TO-SIDE ADJUSTMENT (See Fig. 26) • With all tires properly inflated and if your lawn appears unevenly cut, determine which side of mower is cutting lower. • If adjustment is necessary, see step in Visual Adjustment instructions above. • Recheck measurements, adjust if necessary until both sides are equal.

FRONT-TO-BACK ADJUSTMENT (See Figs. 28 & 29) IMPORTANT: Deck must be level side-to-side. To obtain the best cutting results, the mower blades should be adjusted so the front tip is 1/8" to 1/2" lower than the rear tip when the mower is in its highest position. CAUTION: Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth. • • Raise mower to highest position. Position blade so the tip is pointing straight forward. Measure distance (B) to the ground at front and rear tip of the blade. A B B Fig. 28 Turn nut right to raise mower 02948 Turn nut left to lower mower • • • Fig. 26 NOTE: Each full turn of adjustment nut will change mower height about 3/16". • Test your adjustment by mowing some uncut grass and visually checking the appearance. Readjust, if necessary, until you are satisfied with the results. PRECISION SIDE-TO-SIDE ADJUSTMENT (See Fig. 27) • With all tires properly inflated, park tractor on level ground or driveway.



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CAUTION: Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth. •• Raise mower to its highest position. At both sides of mower, position blade at side and measure the distance (A) from bottom edge of blade to the ground. The distance should be the same on both sides. 02966 If front tip of blade is not 1/8" to 1/2" lower than the rear tip, go to the front of tractor. With an 11/16" or adjustable wrench, loosen jam nut A several turns to clear adjustment nut B. With a 3/4" or adjustable wrench, turn front link adjustment nut (B) clockwise (tighten) to raise the front of mower, or, counterclockwise (loosen) to lower the front mower. B A TIGHTEN ADJUST NUT B TO RAISE MOWER 02950 LOOSEN JAM NUT A FIRST LOOSEN ADJUST NUT B TO LOWER MOWER Fig. 29 NOTE: Each full turn of the adjustment nut will change mower height about 1/8". • Recheck measurements, adjust if necessary until front tip of blade is 1/8" to 1/2" lower than the rear tip. • Hold adjustment nut in position with wrench and tighten jam nut securely against adjustment nut. A Fig. 27 A 20 SERVICE AND ADJUSTMENTS TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 30) 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 manual). • Work belt off both mandrel pulleys and idler pulleys. • Pull belt away from mower. BELT INSTALLATION • Work belt around both mandrel pulleys and idler pulleys. • Make sure belt is in all pulley grooves and inside all belt guides. • Install mower (See "TO INSTALL MOWER" in this section of manual). MANDREL PULLEY IDLER PULLEYS 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" section in this manual). NOTE: Observe entire motion drive belt and position of all belt guides and keepers. • Remove belt from stationary idler (A) and clutching idler (B).

• Remove belt from centerspan idler (C). • Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades (D). • Remove belt downward from engine pulley (E). • Slide belt toward rear of tractor, off the steering plate (F) and remove from tractor. BELT INSTALLATION • Install new belt from tractor rear to front, over the steering plate (F) and above clutch brake pedal shaft (G). • Pull belt toward front of tractor and roll belt onto engine pulley (E). • Pull belt toward rear of tractor. Carefully work belt down around transmission cooling fan and onto the input pulley (D). Be sure belt is inside the belt keeper. • Install belt on centerspan idler (C). • Install belt through stationary idler (A) and clutching idler (B). • Make sure belt is in all pulley grooves and inside all belt guides and keepers. • Install mower (See "TO INSTALL MOWER" section in this manual). E MANDREL PULLEY Fig.

30 TO CHECK BRAKE 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 serviced. You may also check brake by: • Park tractor on a level, dry concrete or paved surface, depress 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, then the brake needs to be serviced. Contact a qualified service center. D 02952 F A B C G Fig. 31 21 SERVICE AND ADJUSTMENTS • • 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. RETAINING RING AXLE COVER WASHERS TO REMOVE WHEEL (See Fig. 32) TO REMOVE CABLES, REVERSE ORDER • BLACK cable first from chassis and then from the fully charged battery. • RED cable last from both batteries. WEAK OR DEAD BATTERY FULLY CHARGED BATTERY Fig.

33 REPLACING BATTERY (See Fig. 34) WARNING: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc. Positive terminal must be connected first to prevent sparking from accidental grounding. SQUARE KEY (REAR WHEEL ONLY) Fig. 32 FRONT WHEEL TOE-IN/CAMBER Your new tractor front wheel toe-in and camber is set at the factory and is normal. The front wheel toe-in and camber are not adjustable. If damage has occurred to affect the factory set front wheel toe-in or camber, contact a qualified service center. ••••• TO START ENGINE WITH A WEAK BATTERY (See Fig. 33) 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. Lift seat pan to raised position. Disconnect BLACK battery cable first then RED battery cable and carefully remove battery from tractor. Install new battery with terminals in same position as old battery.

First connect RED battery cable to positive (+) terminal with bolt and nut as shown. Tighten securely. Slide terminal cover over terminal. Connect BLACK grounding cable to negative (-) terminal with remaining bolt and nut. Tighten securely.

Lower seat pan. SEAT PAN TERMINAL COVER NUT BOLT 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. POSITIVE (RED) CABLE 02603 NEGATIVE (BLACK) CABLE Fig.

34 22 SERVICE AND ADJUSTMENTS ••••• TO REPLACE HEADLIGHT BULB Raise hood.



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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. 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. 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 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. TO ADJUST CHOKE CONTROL The choke control has been preset at the factory and adjustment should not be necessary.

If adjustment is necessary, see engine manual. TO ADJUST CARBURETOR Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your tractor to an authorized service center for repair and/or adjustment. HOOD HEADLIGHT WIRE CONNECTOR 02778 Fig. 35 23 STORAGE Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.

WARNING: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure. ENGINE FUEL SYSTEM IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

TRACTOR Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area. • Clean entire tractor (See "CLEANING" in the Maintenance section of this manual). • Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual). • Lubricate as shown in the Maintenance section of this manual. • Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary. • Touch up all rusted or chipped paint surfaces; sand lightly before painting.

• Empty the fuel tank by starting the engine and let it run until the fuel lines and carburetor are empty. • Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur. • Use fresh fuel next season. NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not empty the gas tank and carburetor if using fuel stabilizer. ENGINE OIL Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual).

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

CYLINDER(S) ••• Remove spark plug(s). Pour one ounce of oil through spark plug hole(s) into cylinder(s). @@@@Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems. @@@@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. 24 TROUBLESHOOTING PROBLEM Will not start CAUSE 1. 2. 3. 4. 5. 6. 7. Out of fuel.

Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. CORRECTION Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug.

Clean/replace air filter. Replace fuel filter. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring.

9. See "To Adjust Carburetor" in Service Adjustments section. 10. Contact an authorized service center/department. 1.

2. 3. 4. 5. 6. 7. Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter.

Empty fuel tank and refill tank with fresh, clean gas. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. 8. Contact an authorized service center/department. Depress 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. Recharge or replace battery.

Clean battery terminals. Check all wiring. Check/replace solenoid or starter. Raise cutting height/reduce speed. Adjust throttle control.

Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gas. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler.

Check all wiring. See "To Adjust Carburetor" in Service Adjustments Contact an authorized service center/department. 1. 2. 3. 4. 5. 6. 7. 8.

Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.

Hard to start 1. 2. 3. 4. 5.

6. 7. 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. 8.

Engine valves out of adjustment.



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