

MODEL NO. 944.604910





CRAFTSMAN®

22.0 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

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

SAFETY RULES





Safe Operation Practices for Ride-On Mowers

IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust/engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

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.
- 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.



WARNING: Do not coast down a hill in neutral, you may lose control of the tractor.

WARNING: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.



WARNING: 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.

TABLE OF CONTENTS

SAFETY RULES	2-3
PRODUCT SPECIFICATIONS	
WARRANTY	4
CUSTOMER RESPONSIBILITIES	4
ASSEMBLY	6-8
OPERATION	9-14
MAINTENANCE SCHEDULE	15

MAINTENANCE	
SERVICE AND ADJUSTMENTS	
STORAGE	24
TROUBLESHOOTING	
REPAIR PARTS - TRACTOR	
REPAIR PARTS - ENGINE	
PARTS ORDERING/SERVICE	BACK COVER

PRODUCT SPECIFICATIONS

Gasoline Capacity and type:	4.0 Gallons Unleaded Regular	
Oil Type (API-SF-SJ):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F) Synthetic (below 0°F)	
Your tractor was shipped SAE 10W-30 motor oil.	from the factory with non-synthetic	
Oil Capacity:	W/Filter: 4.0 Pints W/O Filter: 3.75 Pints	
Spark Plug: (GAP: .040")	Champion QC12YC	
Ground Speed (MPH):	Forward: 5.5 Reverse: 2.4	
Tire Pressure:	Front: 14 PSI Rear: 10 PSI	
Charging System:	3 Amps Battery 5 Amps Headlights	
Battery:	AMP/HR: 35 Min. CCA: 280 Case Size: U1R	
Blade Bolt Torque:	27-35 Ft. Lbs.	

CONGRATULATIONS on your purchase of a new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center/ department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

MAINTENANCE AGREEMENT

A Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual).

WARRANTY

LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN TRACTOR (RIDING EQUIPMENT)

For two (2) years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

FULL ONE (1) YEAR WARRANTY ON BATTERY

For one (1) year from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

COMMERCIAL OR RENTAL USE

Warranty on Riding Equipment used for commercial or rental purposes is limited to ninety (90) days.

This Warranty does NOT cover:

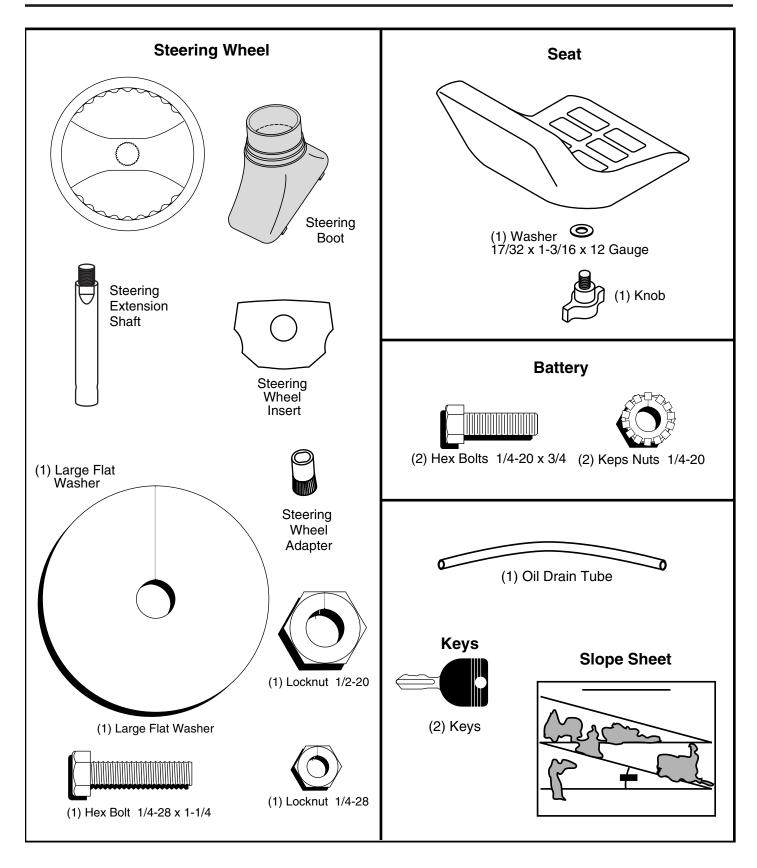
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse or negligence, including damaged jackshaft or mandrel and the failure to operate and maintain the equipment according to the instructions contained in the Owner's Manual.
- 5. In Home service.

Warranty service is available by returning the Craftsman Riding Equipment to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

This warranty is in addition to any statutory warranty and does not exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do NOT allow limitation on how long an implied warranty will last so the above limitations may not apply to you.

SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

UNASSEMBLED PARTS



ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

(1) 3/4" wrench

(2) 7/16" wrenches

Pliers Tire pressure gauge Utility knife

When right or left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton.
- Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (SEE FIG. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

• Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 1/4 hex bolt and locknut. Tighten securely.

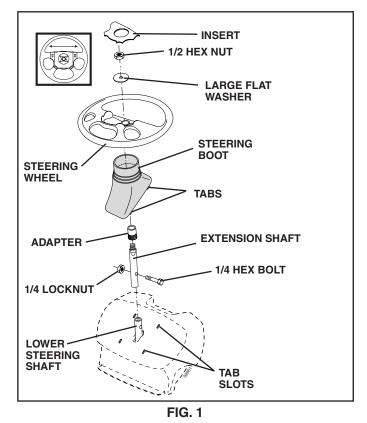
IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 10-12 FT. LBS TORQUE.

• Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 1/2 hex nut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.



HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Fig. 2)



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 hood to raised position.
- Open terminal access doors, remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely.
- Close terminal access doors.

ASSEMBLY

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging.

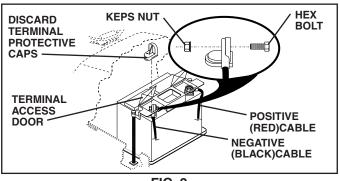
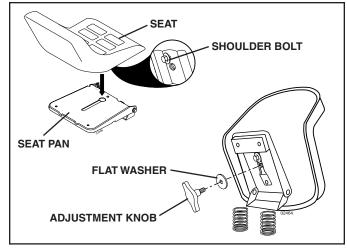


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
- Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
 Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- · Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



NOTE: You may now roll or drive your tractor off the skid. Follow the appropriate instruction below to remove the tractor from the skid.

TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in "transmission disengaged position" (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding the deflector shield up against tractor.

TO DRIVE TRACTOR OFF SKID (See Operation section for location and function of controls)

AWARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position (see "TO TRANSPORT" in Operation section of this manual).
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place motion control lever in neutral position.
- Turn ignition key to "STOP" position.

Continue with the instructions that follow.

INSTALL MULCHER PLATE (If previously removed) (See Fig. 4)

- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.



CAUTION: Do not remove deflector shield from mower.

FIG. 3

ASSEMBLY

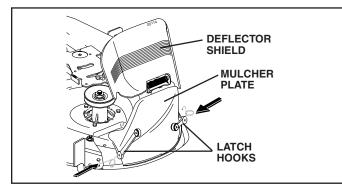


FIG. 4

TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

NOTE: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.

ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 5)

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

- Slide gauge wheel bar down into bracket channel, Be sure that gauge wheel bar aligning holes are on top. Assemble gauge wheels as shown using shoulder bolts, 3/8 washers and 3/8-16 center locknuts and tighten securely.
- Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.

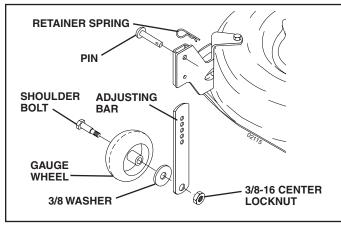


FIG. 5

CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

• Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual.

CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

✓ CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRAC-TOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

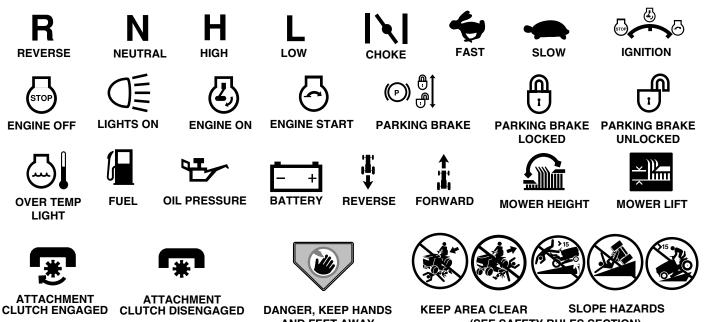
PLEASE REVIEW THE FOLLOWING CHECKLIST:

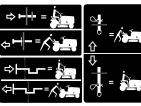
- \checkmark All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in drive position.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- Become familiar with all controls their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

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





FREE WHEEL (Automatic Models only)



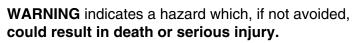
Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.

AND FEET AWAY

(SEE SAFETY RULES SECTION)



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.





CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

CAUTION when used without the alert symbol, indicates a situation that **could result in damage** to the tractor and/or engine.



HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.



FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

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.

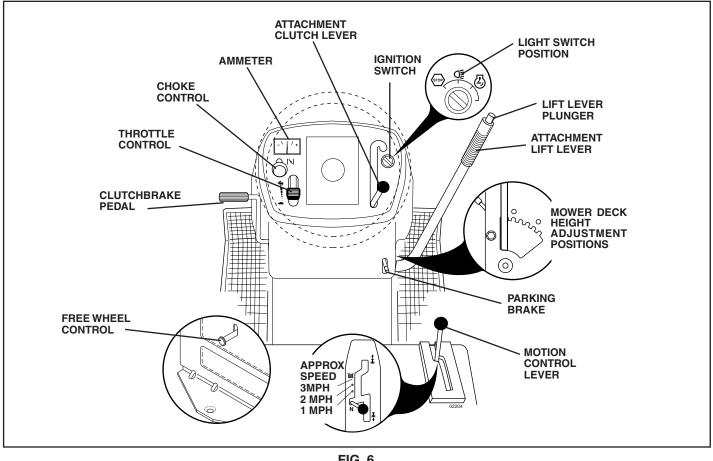


FIG. 6

Our tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH LEVER: Used to engage the mower blades, or other attachments mounted to your tractor.

LIGHT SWITCH POSITION: Turns the headlights on and off.

THROTTLE CONTROL: Used to control engine speed.

CHOKE CONTROL: Used when starting a cold engine.

CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine.

PARKING BRAKE: Locks clutch/brake pedal into the brake position.

FREEWHEEL CONTROL: Disengages transmission for pushing or slowly towing the tractor with the engine off.

AMMETER: Indicates charging (+) or discharging (-) of battery.

MOTION CONTROL LEVER: Selects the speed and direction of tractor.

ATTACHMENT LIFT LEVER: Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor.

LIFT LEVER PLUNGER: Used to release attachment lift lever when changing its position.

IGNITION SWITCH: Used for starting and stopping the engine.

WEAR YOUR
SAFETY GLASSES
FORESIGHT IS BETTER THAN NO SIGHT
00155

The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 7)

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

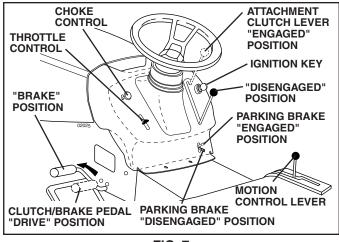


FIG. 7

STOPPING (See Fig. 7)

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).

NOTE: Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.



CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

TO USE CHOKE CONTROL (See Fig. 7)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

• To engage choke control, pull knob out. Slowly push knob in to disengage.

TO MOVE FORWARD AND BACKWARD (See Fig. 7)

The direction and speed of movement is controlled by the motion control lever.

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake.
- Slowly move motion control lever to desired position.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 7)

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.

TO ADJUST GAUGE WHEELS (See Fig. 8)

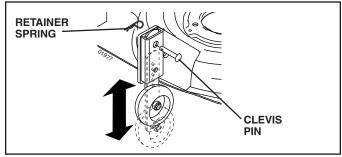
Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

NOTE:Adjust gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- Remove retainer spring and clevis pin which secure each gauge wheel bar.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin. Gauge wheels should be slightly off the ground.
- Replace retainer spring into clevis pin.

Be sure all gauge wheels are in the same setting.

IMPORTANT: BE SURE TO READJUST GAUGE WHEELS IF YOU CHANGE THE CUTTING HEIGHT OF THE MOWER DECK.





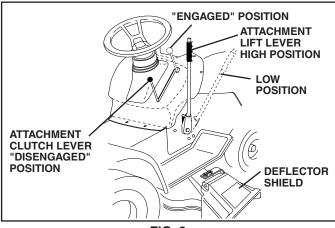
TO OPERATE MOWER (See Fig. 9)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

- Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.



TO OPERATE ON HILLS



WARNING: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

IMPORTANT: THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/ BRAKE PEDAL IS DEPRESSED.

- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT (See Figs. 6 and 10)

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.

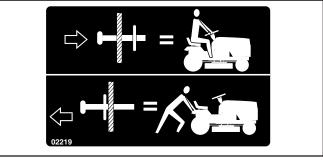


FIG. 10

NOTE: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

TOWING CARTS AND OTHER ATTACHMENTS

Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.



BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

• Fill fuel tank to bottom of filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.



CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE 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.

TO START ENGINE (See Fig. 5)

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

NOTE: Before starting, read the warm and cold starting procedures below.

 Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

WARM WEATHER STARTING (50° F and above)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

 When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - Be sure the tractor is on level ground.
 - Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
 - Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warmup period after the transmission has been warmed up and may require the choke control be pulled out slightly.

NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32 F) the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

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.

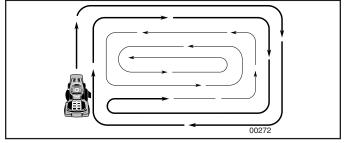
- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TOTRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

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

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. 11).



- 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.

MULCHING MOWING TIPS

IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE.

- 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, the newly cut area will not be exposed to direct sun light.
- 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. 12). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

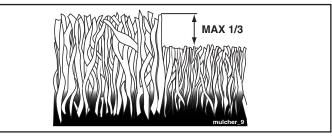


FIG. 12

- 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 (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.

FIG. 11

	GULAR SERVICE		SEFO F	EACHUS EVERY P	VELLE	SHOUR SHOURS	VELLE	NERV P	RS DEASON DEFORES	ORAGE	E DATES
	Check Brake Operation	~	1								
	Check Tire Pressure	V	1								
т	Check Operator Presence and Interlock Systems	~									
R	Check for Loose Fasteners	V				V 5		V			
A	Sharpen/Replace Mower Blades			V ₃							
C T	Lubrication Chart			/				/			
Ò	Check Battery Level			4							
R	Clean Battery and Terminals			~				~			
	Check Transaxle Cooling			~							
	Check V-Belts					/					
	Check Engine Oil Level	~	~								
	Change Engine Oil (with oil filter)				1 ,2	2		/			
Е	Change Engine Oil (without oil filter)			1 ,2	1			~			
N	Clean Air Filter			V 2							
Ģ	Clean Air Screen			V 2							
I N	Inspect Muffler/Spark Arrester				/						
E	Replace Oil Filter (If equipped)					1,2					
-	Clean Engine Cooling Fins					V 2					
	Replace Spark Plug					/	~				
	Replace Air Filter Paper Cartridge					V 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.

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

 At least once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

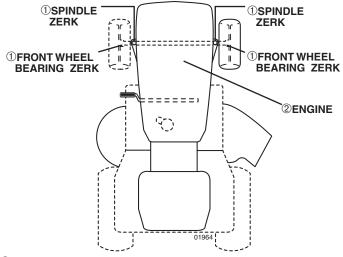
- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

3 - Replace blades more often when mowing in sandy soil.

4 - Not required if equipped with maintenance-free battery.

 Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

LUBRICATION CHART



①GENERAL PURPOSE GREASE ②REFER TO MAINTENANCE "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

TRACTOR

Always observe safety rules when performing any main-tenance.

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).

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.

- The engine should not start unless the brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

For best results mower blades must be kept sharp. Replace bent or damaged blades.

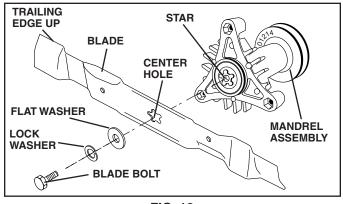
BLADE REMOVAL (See Fig. 12)

- Raise mower to highest position to allow access to blades.
- Remove blade bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

IMPORTANT: TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON MANDREL ASSEMBLY.

- Reassemble blade bolt, lock washer and flat washer in exact order as shown.
- Tighten blade bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS HEAT TREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVE BOLT SHOWN IN THE REPAIR PARTS.





TO SHARPEN BLADE (See Fig. 13)

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.

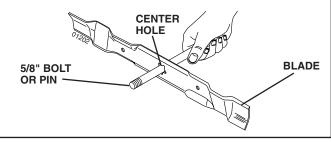


FIG. 13

BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Remove terminal guard.
- 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 "CONNECT BATTERY" in the Assembly section of this manual).

V-BELTS

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

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

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 SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature. When operating in temperatures below 0° F (-18° C) synthetic oil must be used.

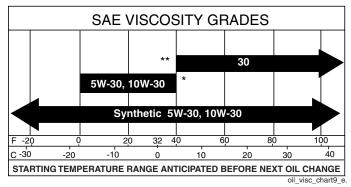


FIG. 14

* **CAUTION:** Air cooled engines run hotter than automotive engines. The use of non-synthetic multi-viscosity oils (5W30, 10W30 etc.) in temperatures above 40° F (4° C) will result in higher than normal oil consumption. When using a multi-viscosity oil, check oil level more frequently.

** **CAUTION:** SAE 30 oil, if used below 40° F (4° C), will result in hard starting and possible engine bore damage due to inadequate lubrication.



NOTE: Synthetic oil meeting ILSAC GF-2, API certification mark and API service symbol (shown at left) with "SJ/CF ENERGY CONSERVING" or higher, is an acceptable oil at all temperatures. **Use of synthetic oil does not alter required oil change intervals.**

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.

TO CHANGE ENGINE OIL (See Figs. 14 and 15)

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

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

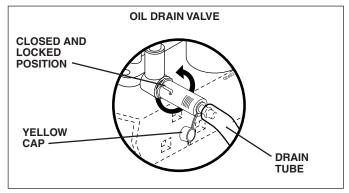


FIG. 15

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

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.

CLEAN AIR INTAKE/COOLING AREAS

To insure 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. Make sure 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.

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.

AIR FILTER (See Fig. 16)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

- Remove knobs and cover.
- TO SERVICE PRE-CLEANER
- 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.
- TO SERVICE CARTRIDGE
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall precleaner cartridge, cover and secure with knobs.

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 AIRTO CLEAN OR DRY CARTRIDGE.

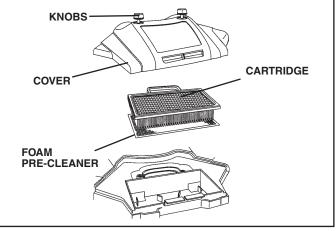


FIG. 16

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. 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.

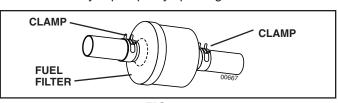


FIG. 17

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 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.



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUST-MENTS:

- Depress clutch/brake pedal fully and set parking brake.
- Place motion control lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key to "STOP" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

TRACTOR

TO REMOVE MOWER (See Fig. 18)

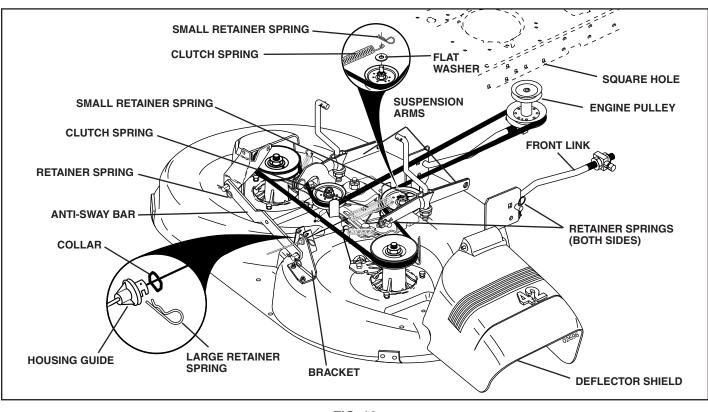
Mower will be easier to remove from the right side of tractor.

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and remove clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRAC-TOR, REMOVE THE FRONT LINKS AND HOOK THE CLUTCH SPRING INTO SQUARE HOLE IN FRAME.

TO INSTALL MOWER (See Fig. 18)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- Lower lift lever to its lowest position.
- Connect front links to mower deck and secure with retainer springs..
- Connect suspension arms to rear deck brackets and secure with retainer springs.
- Connect anti-swaybar to chassis bracket and secure with retainer spring.
- Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring.
- Place flat washer and clutch spring on idler pulley bolt and secure with small retainer spring.
- Install belt onto engine pulley.



TO LEVEL MOWER HOUSING

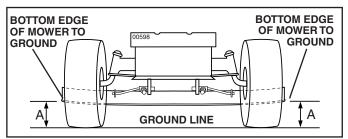
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

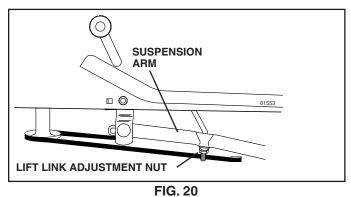
- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 1/8".

• Recheck measurements after adjusting.







FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.

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

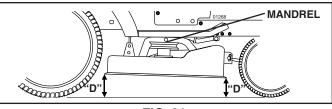
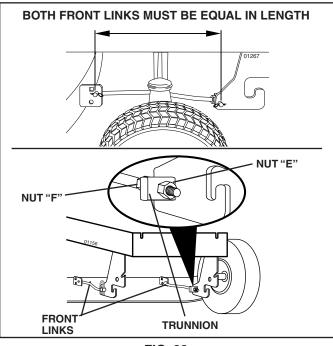


FIG. 21





TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

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.

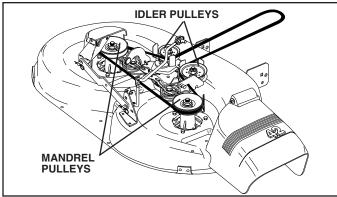


FIG. 23

TO CHECK AND ADJUST BRAKE (See Fig. 24)

Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted.

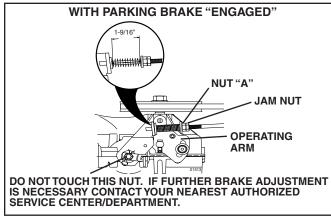
TO CHECK BRAKE

- Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewhel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- Engage transmission by placing freewheel control in "transmission engaged" position.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center.



TO REPLACE MOTION DRIVE BELT (See Fig. 25)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

BELT REMOVAL -

• Remove mower (See "TO REMOVE MOWER" in this section of manual).

NOTE: Observe entire motion drive belt and position of all belt guides and keepers.

- Remove belt from stationary idler and clutching idler.
- Remove belt downward from around engine pulley.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Remove belt from center span keeper and pull belt away from tractor.

BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll around the top groove of engine pulley.
- Install belt through stationary idler and clutching idler.
- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

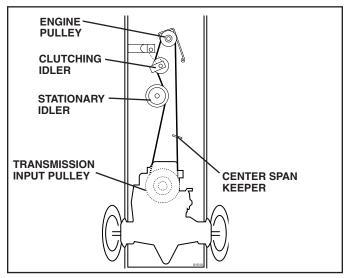


FIG. 25

TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 26)

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.

FIG. 24

- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.

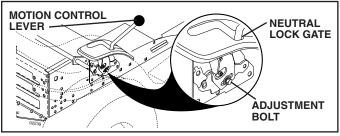


FIG. 26

TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGETRANSMISSION" in the Operation section of this manual.

TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 27)

- 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.

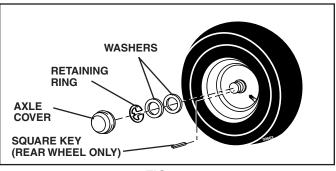


FIG. 27

TO START ENGINE WITH A WEAK BATTERY



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:

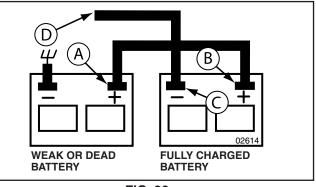
IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

- Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal (C) of fully charged battery.
- Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and then from the fully charged battery.
- RED cable last from both batteries.



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.

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 20 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 procedure.

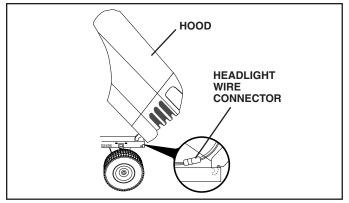


FIG. 29

ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30)

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 to • fast position.
- Check that swivel is against stop. If it is not, loosen cable clamp screw and pull cable back until swivel is against stop. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL (See Fig. 31)

The choke 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 choke control (located on dash panel) to full choke position.
- Loosen knob and remove cover assembly from air cleaner.
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Replace air cleaner cover assembly and tighten • knob.

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.

High speed stop is factory adjusted. Do not adjust - damage may result.

IMPORTANT: NEVERTAMPER 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, CONTACTYOUR NEAREST AUTHORIZED SERVICE CENTER/ DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

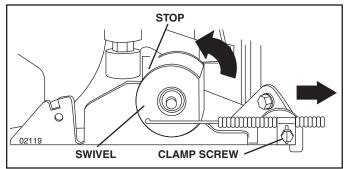


FIG. 30

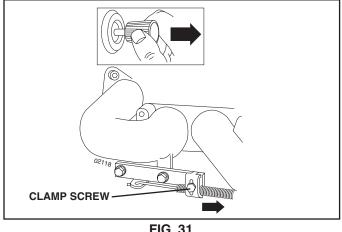


FIG. 31

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.

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.

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.

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.

- 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).

CYLINDER(S)

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

TROUBLESHOOTING POINTS

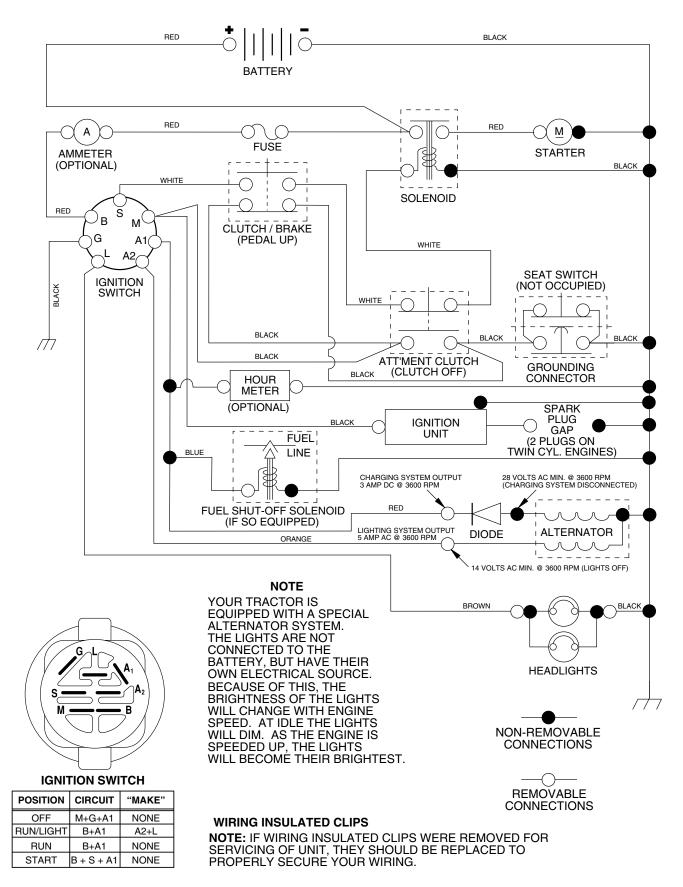
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Hard to start	 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. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Engine will not turn over	 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). 	 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.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.		 Raise cutting height/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Excessive vibration1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s).		 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	 Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.
Poor cut - uneven	 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. 	 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	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel.
Poor grass discharge	 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. 	 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)	 Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse.
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator.
Loss of drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken. Air trapped in transmission during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission.
Engine "backfires" when turning engine "OFF"	 Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	 Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

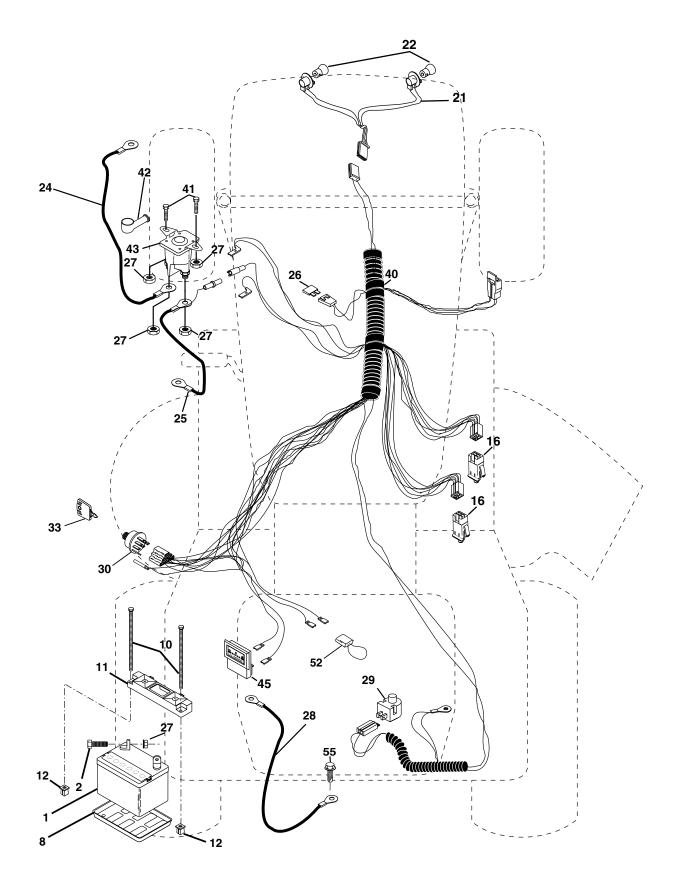
TRACTOR - - MODEL NUMBER 944.604910

SCHEMATIC



TRACTOR - - MODEL NUMBER 944.604910

ELECTRICAL



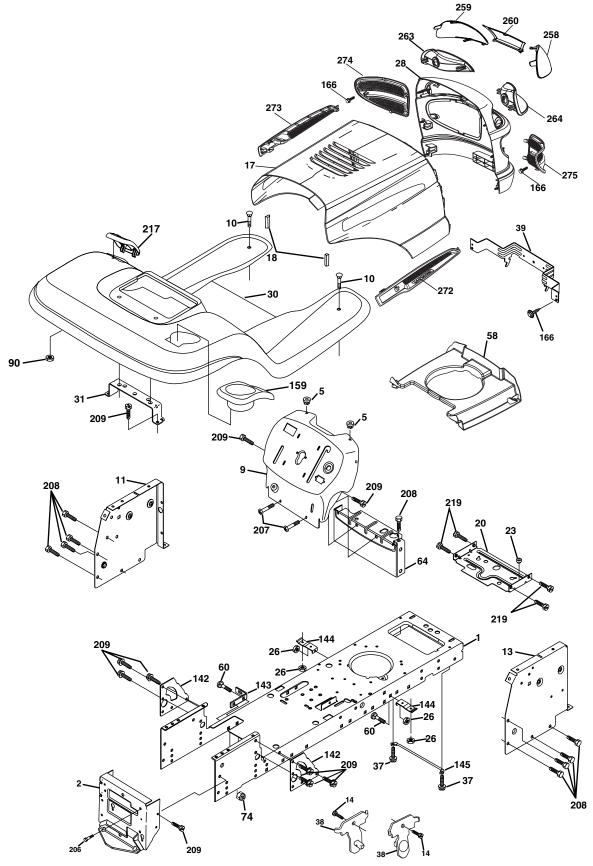
TRACTOR - - MODEL NUMBER 944.604910

ELECTRICAL

KEY NO.		DESCRIPTION
NO. 1 2 8 10 11 12 16 21 22 24 25 26 27 28 29 30 33 40	NO. 144927 74760412 7603J 145211 150109 145769 176138 183759 4152J 4799J 146148 175158 73510400 145491 121305X 175566 140403 179720 71110408	DESCRIPTION Battery 12 Volt 35 Amp Bolt Hex Hd 1/4-20 unc x 3/4 Tray Battery Bolt Btr Frt 1/4-20 x 7.5 Zinc Holddown Battery Mount Nut Push Nylon 1/4" Battery Frt Switch Interlock Harness Asm Light W/4152J Bulb Light #1156 Cable Battery 6 Ga. 11"red Cable Battery 6 Ga. w/16 ire,red Fuse Nut Keps Hex 1/4-20 unc Cable Ground 6 Ga. 21" black Switch Plunger Nc Gray Switch Ign 3 Key Ign Harness Ign Bolt Blk Fin Hex 1/4-20 unc x 1/2 Cover Terminal Red Solenoid
43 45 52 55		Ammeter Protection Wire Loop (Hourmeter) Screw Thdrol 5/16-18 x 1/2

NOTE: All component dimensions give in U.S. inches 1 inch = 25.4 mm.

TRACTOR - - MODEL NUMBER 944.604910 CHASSIS AND ENCLOSURES



chassis-Laser -lt.stlt_24

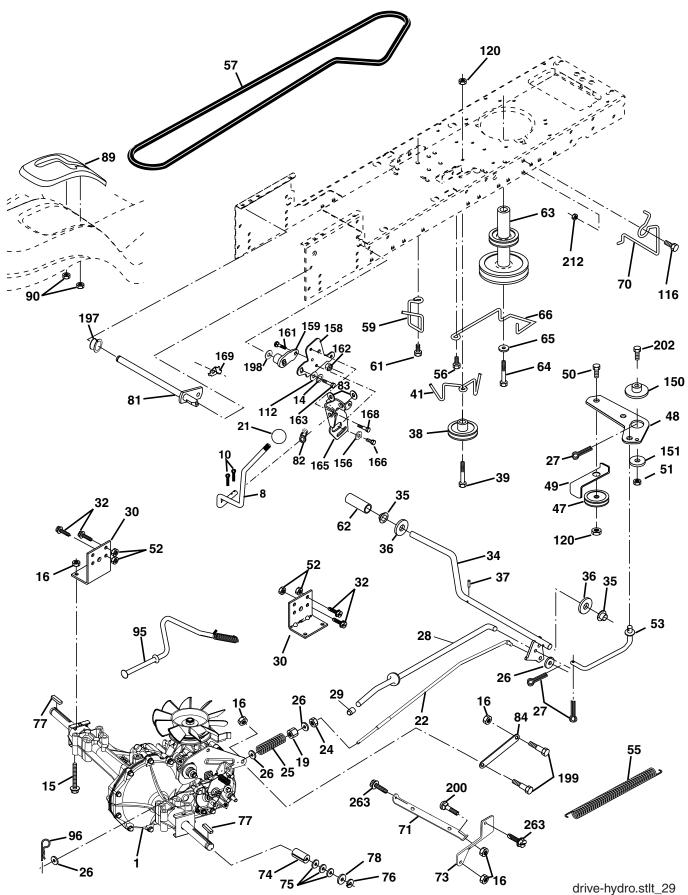
TRACTOR - - MODEL NUMBER 944.604910 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1 2 5 9 10 11 13 14 17 18 20 23 26 28	174619 176554 155272 168337X011 STD533710 174996 172105X010 17490608 184272X615 184921 180679 124028X 73800600 184259	Bolt Carriage 3/8-16 x 1 Panel Dash Lh Panel Dash Rh Screw Thdrol 3/8-16 x 1/2 Hood Bumper Extension Plate Mtg. Battery Fuel Tank Bushing Nut Lock Hex W/Ins. 3/8-16 unc Grille/Lens Asm (Includes Key nos. 166, 258-260, 263-264,
30 31 37 38 39 58 60 64 74 90 142 143 144 145 159 166 207 208 209 217 219 258 260 263 264 272 273 274 5	139976 17490508 175710 174714 187145 STD533707 154798 STD541437 124346X 175702 186689 175582 156524 179950X428 171875 170165 17670508 17670608 17000612 179132X428 17000512 184264X599 184263X599 184263X599 184265 184266 185923X428 185922X428 184260X428	Dash Lower STLT Nut Crownlock 3/8-16 unc Nut Self-Thd Wsh-Hd 1/4 Plate Reinforcement STLT Bracket Swaybar Chassis Bracket Pnt Footrest STLT Rod Pivot Chassis/Hood Cupholder Screw HWHD Hi-Lo #13-16 x 3/4 Bolt Shoulder 5/16-18 TT Screw Thdrol 5/16-18 x 1/2 Screw Thdrol 3/8-16 x 1/2 Screw Hexwsh Thdr 3/8-16 x 3/4 Console Fuel Window Screw 5/16-18-3/4 Lens Laser RH Lens Laser LH

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.604910

DRIVE



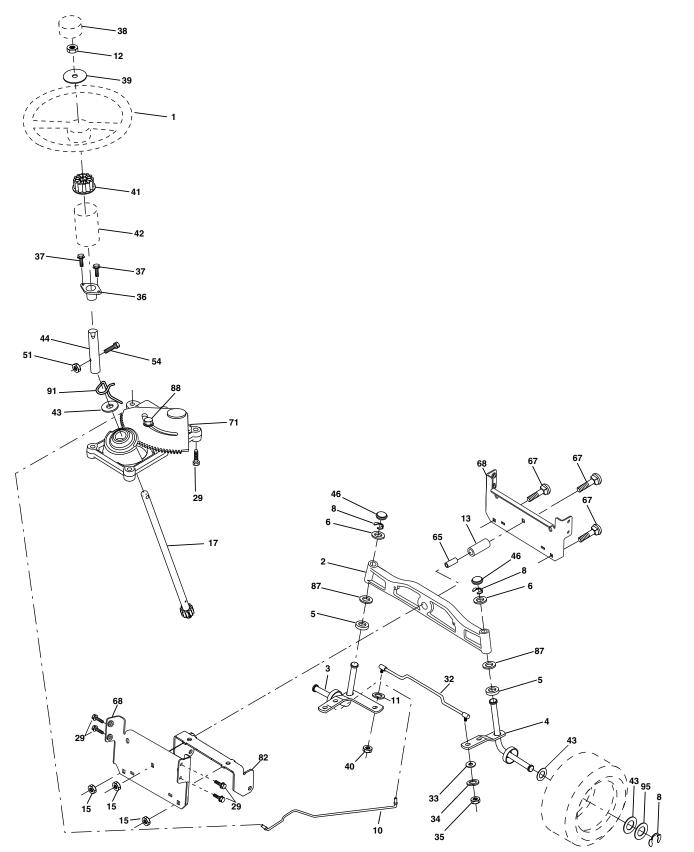
TRACTOR - - MODEL NUMBER 944.604910

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
$1\\8\\10\\14\\15\\16\\9\\21\\22\\4\\526\\27\\89\\30\\23\\4\\536\\37\\89\\14\\7\\89\\01\\52\\556\\7\\9\\162\\36\\65$	10040400 74490544 STD541431 STD541437 130564 169498 STD541237 106888X STD551037 STD561210 175765 71673 169592 STD523107 175578 120183X STD551062	Nut Lock 3/8-16 unc Knob Rod Brake Nut Hex Jam 3/8-16 unc Spring Rod Brake 2 00 Zinc Washer 13/32 x 13/16 x 16 Ga Pin Cotter 1/8 x 3/4 Cad Rod Brake Parking LT/YT Cap Brake Parking LT/YT Cap Brake Parking Bracket Mtg Transaxle Bolt Hex Hd 5/16-18 unc x 3/4 Shaft Asm Pedal Foot Bearing Nylon Blk 629 Id Washer 21/32 x 1 x 16 Ga. Pin Roll 3/16 x 1" Pulley Idler Flat Bolt 3/8-16 unc x 2-3/4 Keeper Belt Idler Pulley Idler V Groove Plastic Bellcrank Asm Retainer Belt Style Spring Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5 Nut Crownlock 5/16-18 unc Link Clutch Spring Return Clutch 6 75 Screw 3/8-16 x 1-1/4 V-Belt Ground Drive Keeper Belt Span Ctr Screw 3/8-16 x .875 Cover Pedal Blk Round Engine Pulley LT/YT Bolt Hex	66 70 71 73 74 75 76 77 78 81 82 83 84 89 90 95 96 112 116 120 150 151 156 158 159 161 162 163 165 166 168 169 197 198 199 200 202 212 263 NOT	124346X 170201 4497H 19091210 72140608 73900600 175456 19133210 166002 165589 183900 72140406 73680400 74780416 165623 17490510 165492 165580 169613 169593 169612 72140508 72140508 72110614 145212 17000612	Keeper Belt Engine Foolproof Guide Belt Mower Drive RH Strap Torque LH Strap Torque RH Spacer Axle Washer 25/32 x 1 1/4 x 16 Ga. E-ring #5133-75 Key Square 2 0 x 1845/ 1865 Washer 25/32 x 1-5/8 x 16 Ga. Shaft Asm Cross Spring Torsion T/a Washer 17/32 x 3/4 x 16 Ga. Link Transaxle Console Shift STLT Nut Self-thd Wsh-hd 1/4 Zinc Control Asm Bypass Retainer Spring Washer 9/32 x 3/4 x 10 Ga. Bolt Rdhd Sq Neck 3/8-16 x 1 Nut Lock Flg 3/8-16 unc Bushing Retainer Washer 13/32 x 2 x 10 Washer Strted 5/16 ID x 1 x .125 Bracket Shift Mount Hub Shift Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5 Nut Crownlock 1/4-20 unc Bolt Hex Fin 1/4-20 unc x 1 Gr. 5 Bracket Pivot Lever Screw 5/16-18 x 5/8 Bolt Shoulder 5/16-18 u.561 Plate Fastening LT Nyliner Snap-In Washer Nyliner Bolt Shoulder 5/16-18 unc x 1 Bolt 3/8-16 x 1-3/4 Gr. 5 Nut Hexflange Lock Screw 3/8-16 x 3/4 ent dimensions given in U.S. inches 4 mm

TRACTOR - - MODEL NUMBER 944.604910

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.604910

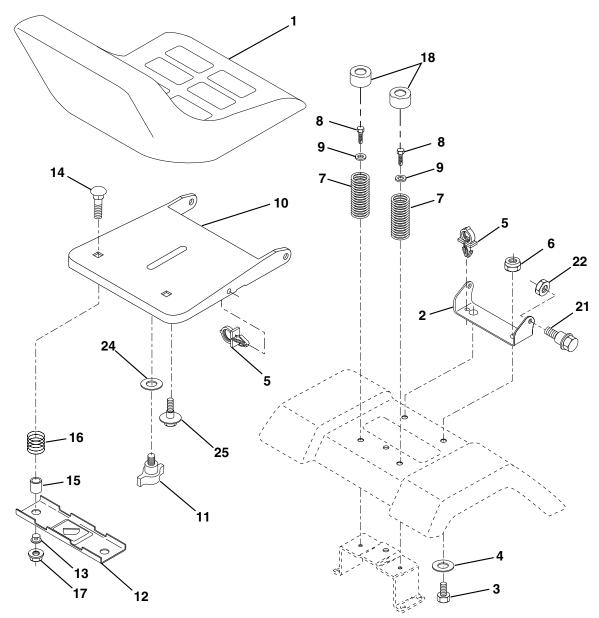
STEERING ASSEMBLY

1 150044V400 Wheel Steering	KEY PART NO. NO.	DESCRIPTION
2184706Axle Asm3169840Spindle Asm LH4169839Spindle Asm RH56266HBearing Race Thrust Harden6121748XWasher 25/32 x 1-5/8 x 16 Ga.812000029Ring Klip #t5304-7510175121Link Drag Extended Stamp11STD551137Washer Lock Hvy Hlcl Spr 3/81273940800Nut Hex Jam Toplock 1/2-20 unf13136518Bearing Axle STLT/GT15145212Nut Hex Flange Lock17180641Shaft Asm Strg2917000612Screw Thdrol 3/8-16 x 3/432171888Rod Tie Wire Form 19 75 Mech3319111216Washer Lock 5/163410040500Washer Lock 5/163573540500Crownlock Nut 5/16-2436155099Bushing Strg37152927Screw38159946X428Insert Cap Strg Wh Au3919182411Washer4073540600Nut Crownlock 3/8-244115945Adaptor Wheel Strg42145054X428Boot Steering Shaft43121749XWasher 25/32 x 1 1/4 x 16 Ga.44180640Extension Steering Shaft43121749XWasher 25/32 x 1 1/4 x 16 Ga.44180640Extension Steering Shaft45160367Spacer Axle6772110618Bolt Rdhd Sq 3/8-16 unc x 2-1/468160827Axle, Brace71175146Stee	2 184706 3 169840 4 169839 5 6266H 6 121748X 8 12000029 10 175121 11 STD551137 12 73940800 13 136518 15 145212 17 180641 29 17000612 32 171888 33 19111216 34 10040500 35 73540500 36 155099 37 152927 38 159946X428 39 19182411 40 73540600 41 159945 42 145054X428 39 19182411 40 73540600 41 159945 42 145054X428 43 121749X 44 180640 46 184946X505 51 73540400	Spindle Asm LH Spindle Asm RH Bearing Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring Klip #t5304-75 Link Drag Extended Stamp Washer Lock Hvy Hlcl Spr 3/8 Nut Hex Jam Toplock 1/2-20 unf Bearing Axle STLT/GT Nut Hex Flange Lock Shaft Asm Strg Screw Thdrol 3/8-16 x 3/4 Rod Tie Wire Form 19 75 Mech Washer 11/32 x 3/4 x 16 Washer Lock 5/16 Crownlock Nut 5/16-24 Bushing Strg Screw Insert Cap Strg Wh Au Washer Nut Crownlock 3/8-24 Adaptor Wheel Strg Boot Steering Shaft Washer 25/32 x 1 1/4 x 16 Ga. Extension Steering Shaft LR/LT Cap Spindle Fr Top Red Nut Crownlock 1/2-28 Bolt Hex 1/4-28 unf x 1-1/4 Ga. 8 Spacer Axle Bolt Rdhd Sq 3/8-16 unc x 2-1/4 Axle, Brace Steering Asm Bracket Susp. Chassis Front Washer Flat .781 x 1-1/2 x .14 Shoulder Bolt 7/16-20

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.604910

SEAT ASSEMBLY



seat_lt.knob_2

KEY PART NO. NO. DESCRIPTION

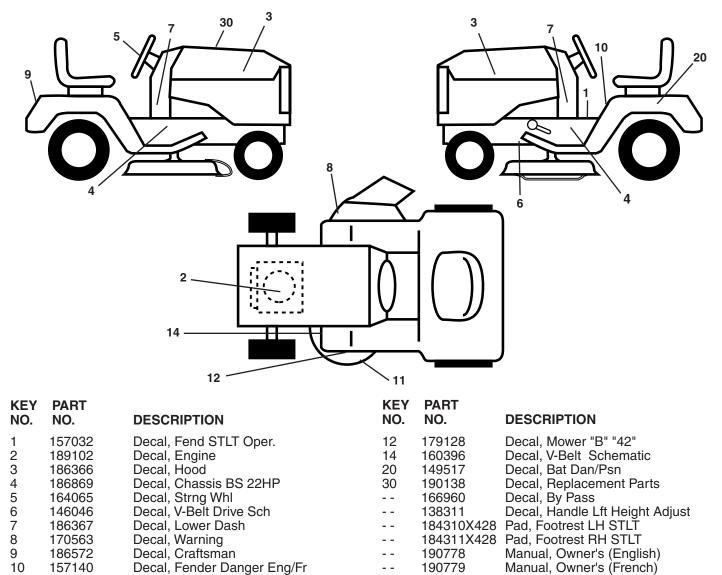
1	188719	Seat
2	180166	Bracket Pivot Seat 8 720
3	71110616	Bolt Fin Hex 3/8-16 unc x 1
4	19131610	Washer 13/32 x 1 x 10 Ga.
5	145006	Clip Push-In
6	STD541437	Nut Hex w/Ins. 3/8-16 unc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi
8	17000616	Screw 3/8-16 x 1-1/2
9	19131614	Washer 13/32 x 1 x 14 Ga.
10	180186	Pan Seat
11	166369	Knob Seaat 1/2-13 unc Blk
12	121246X	Bracket Mounting Switch

KEY NO.	PART NO.	DESCRIPTION
13	121248X	Bushing Snap Blk Nyl 50 Id
14	72050412	Bolt Rdhd Sqnk 1/4-20 x 1-1/2
15	134300	Spacer Split 28 x 96 Yel Zinc
16	121250X	Spring Cprsn 1 27 Blk Pnt
17	123976X	Nut Lock 1/4 Lge Flg Gr. 5 Zinc
18	124238X	Cap Spring Seat
21	171852	Bolt Shoulder 5/16-18 unc
22	STD541431	Nut Hex Lock W/Ins 5/16-18
24	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
25	127018X	Bolt Shoulder 5/16-18 x 62

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.604910

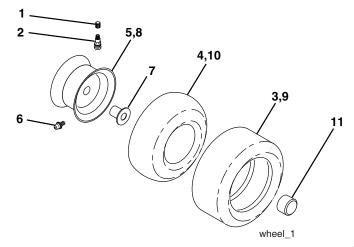
DECALS



WHEELS & TIRES

172331

11



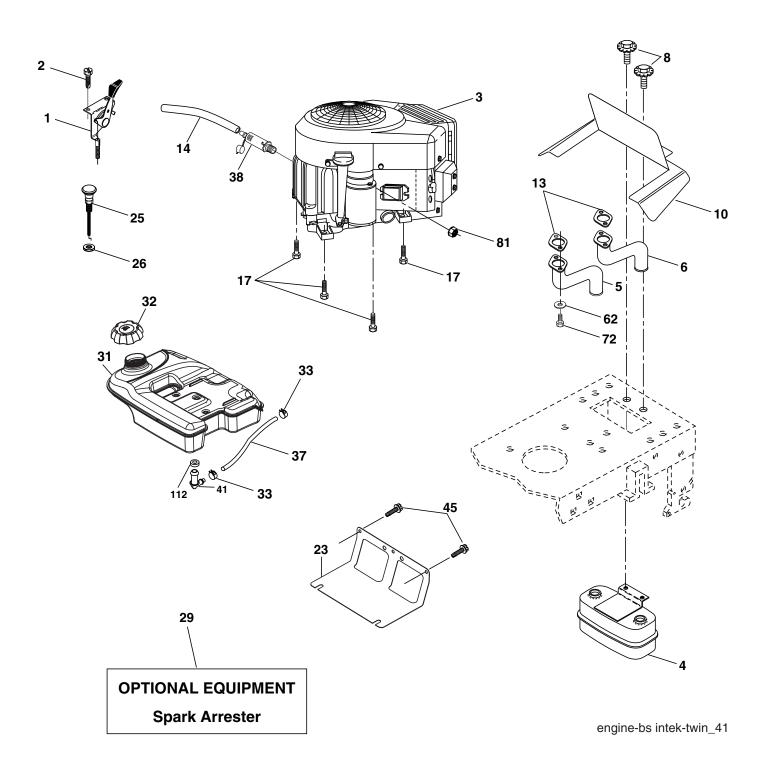
Decal, Deck Heavy Duty

KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 x 6 0 - 6 Service
4	59904	Tube Front (Service Item Only)
5	106732X624	Rim Asm 6" front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X624	Rim Asm 8" rear Service
9	122082X	Tire R Ts 20 x 10-8 C Service
10	7152J	Tube Rear (Service Item Only)
11	104757X428	Cap Axle Blk 1 50 x 1 00
	144334	Sealant, Tire (10 oz. Tube)
NOTE		

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.604910

ENGINE



TRACTOR - - MODEL NUMBER 944.604910

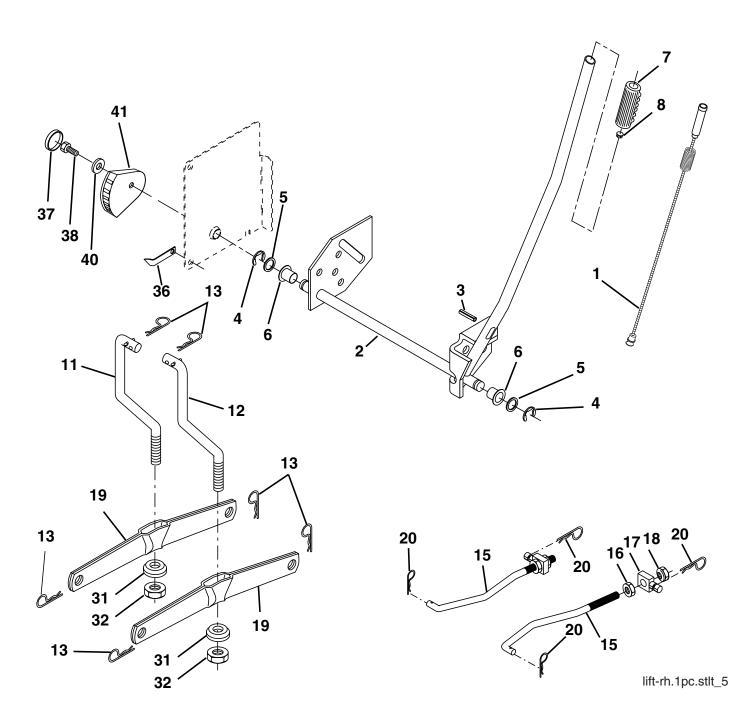
ENGINE

KEY NO.	PART NO.	DESCRIPTION
1	170546	Control Throttle Paddle
2 3	17720408	Screw Hex Thd Cut 1/4-20 x 5/8 T
3		Engine (See Breakdown) B&S Model 407577-0283-E1
4	149723	Muffler Exhaust
5	159955	Exhaust Asm. Left
6	160589	Exhaust Asm. Right
8	171877	Bolt 5/16-18unc x 3/4
10	162797	Heat Shield Lt
13		Gasket Muffler
14		Tube Drain Oil Easy
17	17060624	Screw Thdrol 3/8-16 x 1-1/2 Tytt
23		Shield BRN/DBR Guard
25		Control Choke
26		Nut Keps 3/8-24 Unf
29		Arrestor Spark
31		Tank Fuel 4.0
32		Cap Fuel Gauge
33 37		Clamp Hose Blk Line Fuel
-	181654	Plug Drain Oil Easy
41	139277	Stem Tank Fuel
45		Screw Hex Wsh Thdrol 3/8-16 x 3/4
	183906	Screw Socket Head 5/16-18 x 1
	73510400	Nut Keps Hex 1/4-20 unc
112		Bushing
· · —		

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.604910

MOWER LIFT



TRACTOR - - MODEL NUMBER 944.604910

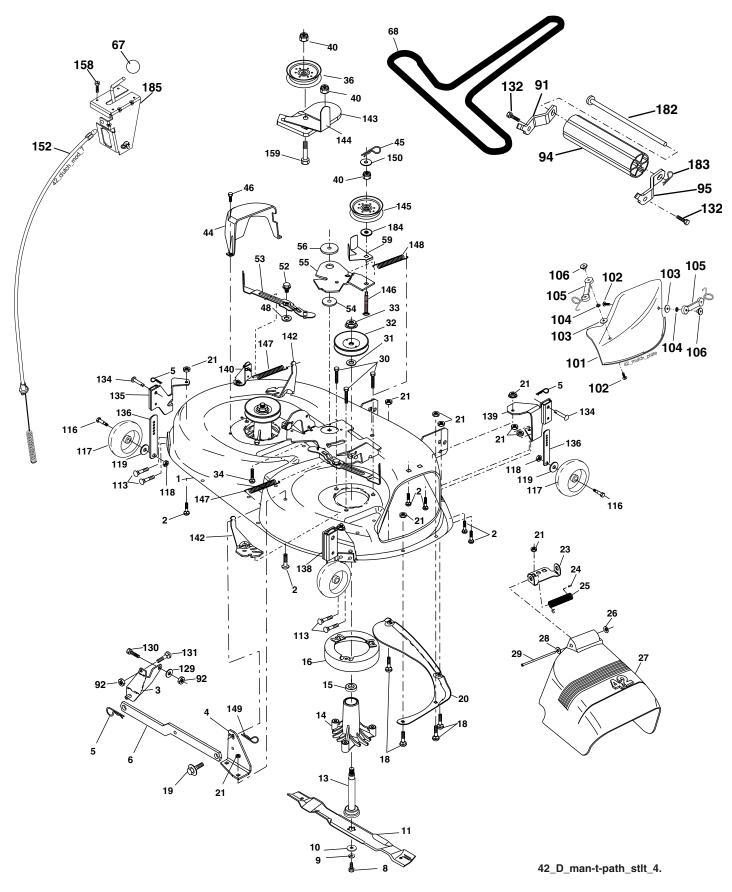
MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
16 17 18 19 20 31 32 36 37 38	139866 STD624008 173288 73350800 175689 73800800 139868 163552 169865 73540600 155097 123935X	Wire Asm Inner W/Plunger Shaft Asm Lift Pin Groove E Ring #5133-62 Washer 29/32 x 1-1/4 x 21 Ga. Bearing Nylon Blk .629 ID Grip Handle Fluted Button, Plunger Link Lift Lh Fixed Length Link Lift Rh Fixed Length Retainer Spring Link Front Nut Jam Hex 1/2-13 unc Trunnion Blk Zinc Nut Lock w/Wsh 1/2-13 unc Arm Suspension Rear Spring Retainer Bearing Pvt. Lift Nut Lock 3/8-24 Pointer Height Indicator Plug Hole Screw 5/16-18 x 1 Washer 11/32 x 1-1/2 x 10 Ga. Indicator Height

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.604910

MOWER DECK

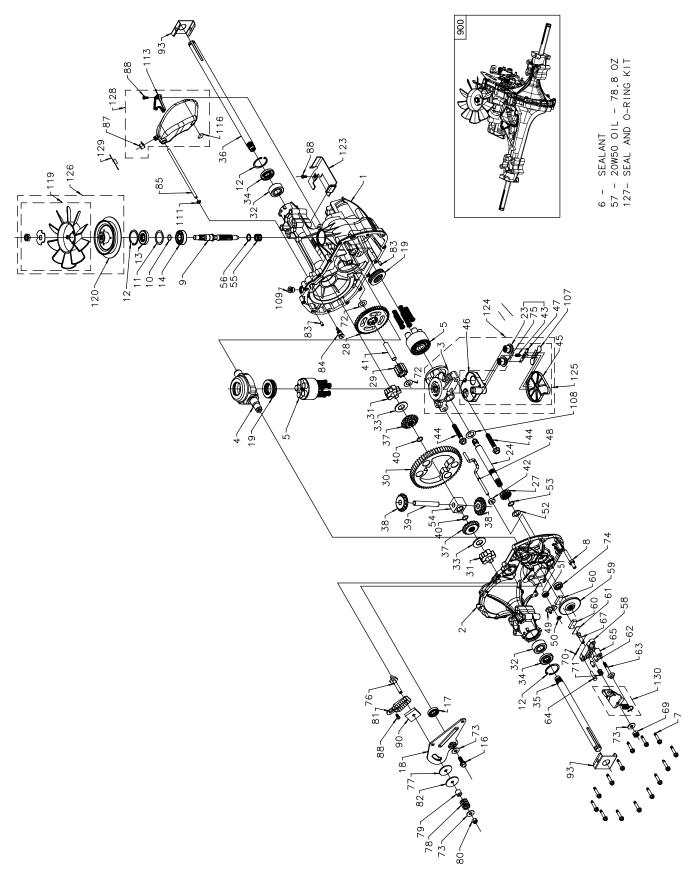


TRACTOR - - MODEL NUMBER 944.604910

MOWER DECK

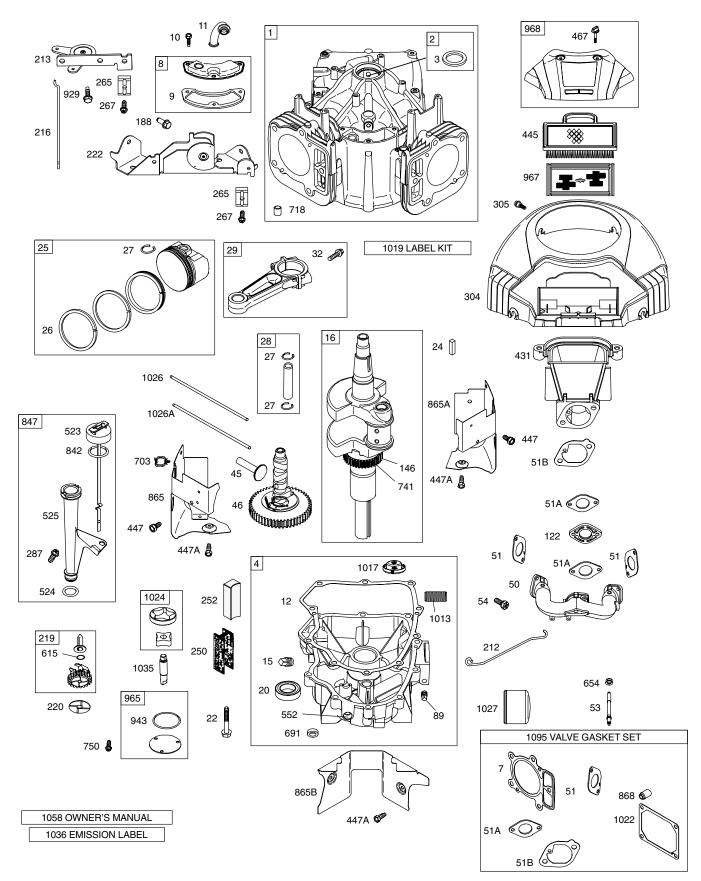
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	182032	Mower Deck Assembly, 42"	92	STD541437	Nut
2	STD533107	Bolt	94	132264	Roller Nose
3	138017	Bracket Assembly, Sway Bar, Front	95	180533	Bracket Roller Nose RH
4	165460	Bracket Sway Bar 38/42" Deck	101	136420	Mulcher Cover
5	STD624008	Retainer Spring	102	71081010	Screw
6	178024	Bar Sway Deck	103	19061216	Washer #10
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	104	STD551110	Washer, Lock
9	STD551137	Washer, Lock	105	160793	Latch Assembly, Bagger
10	140296	Washer, Hardened	106	2029J	Nut, Weld
		(The following blades are available)	113	17060512	Screw 5/16-18 x 3/4
11	134149	Blade, 42" Mulching Std (For mulch-	116	184219	Bolt, Shoulder
		ing mowers only)	117	174873	Wheel, Gauge
	139775	Blade, 42" Mulching Premium (For	118	73930600	Nut, Centerlock 3/8-16
		better wear when mulching)	119	STD551037	Washer 3/8 x 7/8 x 14 Ga.
	138971	Blade, 42" Hi-Lift (For bagging or	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
		discharging)	130	STD523710	Bolt, Fin Hex 3/8-16 unc x 1 Gr. 5
13	137645	Shaft Assembly, Mandrel, Vented	131	STD533710	Bolt, Rdhd Sqnk 3/8-16 unc x 1
14	128774	Housing, Mandrel, Vented	132	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
15	110485X	Bearing, Ball, Mandrel	134	156941	Pin Head Rivet
16	174493	Stripper, Vented Mower Deck	135	159765	Bracket, Gauge, Wheel L.H. Rear
18	72140505	Bolt, Carriage 5/16-18 x 5/8	136	155986	Bar Adjusting Gauge Whl
19	132827	Bolt, Shoulder	138	159763	Bracket Asm Whl. Ga. Rear RH
20	159770	Baffle, Vortex	139	159767	Bracket, Gauge, Wheel R.H. Front
21	STD541431	Nut Crownlock 5/16-18 unc	140	159768	Bracket Asm. Whl. Ga. Front LH
23	177563	Bracket, Deflector	142	165890	Arm Spring Brake Mower
24	105304X	Cap, Sleeve	143	157109	Bracket Arm Idler 42"
25	123713X	Spring, Torsion, Deflector	144	158634	Keeper Belt 42" Clutch Cable
26	110452X	Nut, Push	145	165888	Pulley Idler Flat
27	130968X428	Shield, Deflector	146	171977	Bolt Čarriage Idler
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	147	131335	Spring Extension
29	131491	Rod, Hinge	148	169022	Spring Return Idler
30	173984	Screw Thdrol Washer Head	149	165898	Retainer Spring Yellow Zinc
31	187690	Washer, Spacer	150	19091210	Washer 9/32 x 3/4 x 10 Ga.
32	153535	Pulley, Mandrel	152	169676	Cable Clutch 42 In
33	178342	Nut, Toplock, Flanged	158	17720408	Screw Hex Thd Cut 1/4-20 x 5/8
34	72110612	Bolt Carr. Sh 3/8-16 x 1-1/2 Gr. 5	159	72140614	Bolt Rdhd Sqn 3/8-16 unc x 1-3/4
36	131494	Pulley, Idler, Flat	182	179126	Rod Roller Nose
40	73900600	Nut Lock Flg 3/8-16 unc	183	163552	Retainer Spring
44	140088	Guard, Mandrel, L.H.	184	19131410	Washer 13/32 x 7/8 x 10 Ga.
45	STD624003		185		Head Asm. Cable Clutch
46	137729	Screw, Thd. Roll 1/4-20 x 5/8		130794	Mandrel Assembly (Includes Hous-
48	133944	Washer, Hardened			ing, Shaft and Shaft Hardware Only
52	139888	Bolt, Shoulder 5/16-18 unc			- Pulley Not Included)
53	184907	Arm Assembly, Pad, Brake		186917	Replacement Mower Complete
54	178515	Washer, Hardened			(Std. Deck-Order separately
55	155046	Arm, Idler			mulcher cover, nose roller, and
56	165723	Spacer, Retainer			guage wheel components key nos.
59	141043	Guard, TUV Idler			101 - 106, 91, 94, 95, 132, 182, 183
67	149846	Knob Custom Oval Blk			and 116 - 119,)
68	144959	V-Belt Breaket Dellar Naas I H	NOTE	E: All compon	ent dimensions given in U.S. inches
91	180532	Bracket Roller Nose LH		1 inch = 25	

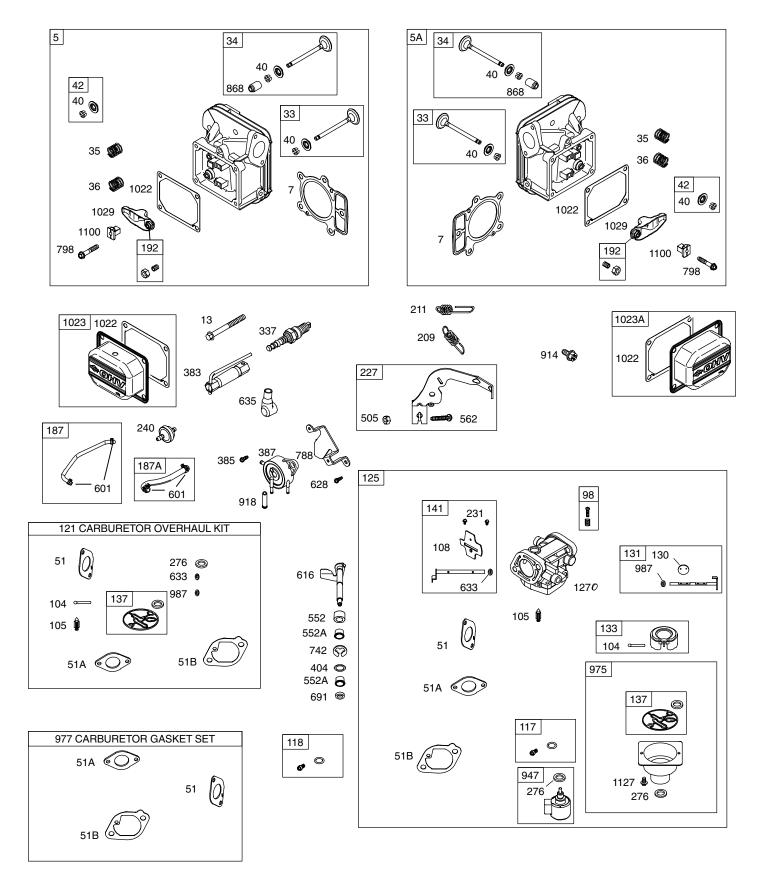
TRACTOR - - MODEL NUMBER 944.604910 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510



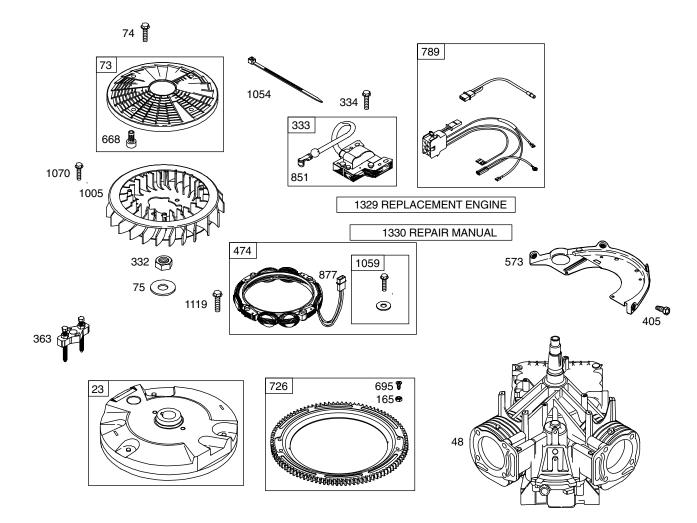
TRACTOR - - MODEL NUMBER 944.604910 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

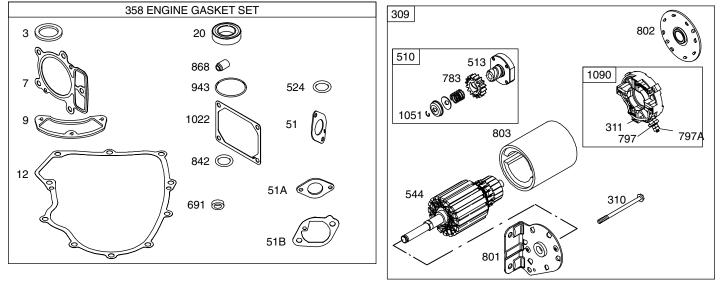
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170351	Kit, Main Housing Main Housing, Machined Bushing .865 X .985 X .790	71 72 73	170417 170418	Brake Spring Washer (310-0750) Washar, Flat
2	170352	Kit, Side Housing Side Housing, Machined	73 74 75	142884 170419 170420	Washer, Flat Seal, Oil Ass'y Check Plug
		Bushing .665 X .985 X .790 Bushing .624 X .719 X .562	76 77	170420 170421 170422	Bolt, Stud 5/16-24 Puck, Friction
3	170353	Kit, Center Section Center Section, Machined	78 79	142969 142980	Spring Spacer
4	170354	Bushing .707 X .788 X .591 Swashplate, Trunnion Machined	80 81	150778 170423	Nut, Nylon Insert Hex Lock 5/16-24 Wedge, Friction
5	169898	Kit, Cylinder Block (10cc) Block - Cylinder	82 83	170424 161168	Clip, Washer Pin
		Piston Spring, Compression	84 85	170425 170426	Fitting, 5/16 X Sae 5/32 Tube Hose, Expansion Tank
6	178322	Washer Thrust Sealant Tube	87 88	173160 178334	Cap, Venṫ Bolt, Self Tapping (BDR)
6 7	170356	Hexflange Screw 1/4-20 X 1.25	90	170430	Puck, Inner Wedge
8	170357	Stud, 5/16-24 Hex Double End	93	170431	Spring Clip, Housing
9 10	170358 170359	Shaft, Input Retaining Ring	107 108	170432 170433	Deflector Washer, Motor Shaft .71ID X 1.15OD X .03
11	170360	Spacer			Thick
12 13	169870	Retaining Ring	109	170434 170435	Plug, Straight Thread 9/16-18 O-ring .7 X .301 ID
13	170361 173158	Seal, Lip .67 X 1.58 X .276 Bearing, Ball 6203 (BDR)	111 113	170435	Bracket, Support Expansion Tank
16	170362	Hex Flange Head Screw 1/4-20 X 1.25	119	191031	Kit, Fan - Washer - Nut
17 18	170363 170364	Seal, Lip 18 X 32 X 7 Arm, Control			Fan, 7 In Hex Lock Nut 1/2-20 (Nylon Insert)
19	173159	Bearing, Thrust (10cc)			Washer, Or Slotted, .53 X 1.63 X .06
23 24	170365 170366	Check Plug Assembly Shaft Motor	120	188312 178800	Pulley Belt Keeper
24 27	170367	Gear, Pinion, 13t	123 124	170444	Kit, Center Section Filter Bypass
28	170368	10t / 48t Gear			Center Section Machining
29 30	170369 170370	Gear, 10t Jackshaft 60t Bullgear			Base Filter W/ Poppet Check Plug Assembly, .027 Washer
31	170371	Sleeve Bearing .75 X 1.75 X .625			Check Plug Assembly, Washer
32 33	170389 142991	Sleeve Bearing (Outboard) .75 X 1.575 X .625 Washer			Spring, Bypass Actuator, Bypass
34	170390	Lip Seal, Axle Shaft			Deflector
35 36	170391 170392	Shaft, Axle (Keyed, R.h.) Shaft, Axle (Keyed, L.h.)			Bottom, Filter Bushing, .707 X .788 X .591
37	150792	Gear, Splined Diff. (210-1000 & 310-0750)	125	170445	Kit, Filter
38	150793	Gear, Miter Diff. (210-1000 & 310-0750)			Bottom, Filter
39 40	150809 170393	Differential Shaft (310-0750) Retaining Ring			Spring, Bypass Actuator, Bypass
41	170394	Pin, Jackshaft			Deflector
42 43	170395 170396	Magnet, Ring Spring, Bypass	126	191028	Base, Filter W/ Poppet Kit, Fan/pulley
44	150797	Bolt 3/8-24 X 2-1/2	120	101020	Hex Jam 1/20-20 (Nylon Inser)
45 46	170397	Filter Base Filter			Washer, OD Slotted, .53 X 1.63 X .06 Fan, 7 In
40	170398 170399	Base, Filter Actuator, Bypass			Pulley
48	170400	Rod, Bypass Actuator	127	170447	Kit, Seal
49 50	170401 170402	Arm, Bypass Retaining Ring .25 External			Lip Seal .67 X 1.58 X .276 Lip Seal 18 X 32 X 7
51	170403	Seal, Lip .741 X .25 X .25			Lip Seal .706 X 1.584 X .25
52 53	170404 170405	Washer, Flat 0.050" (210-1000) Retaining Ring			Lip Seal .741 X .250 X .250 Tc Oil Seal .625 X 1.0 X .25
54	170406	Bearing, Center Block			O-ring .07 X .301 ID
55 56	142977 142978	Spring, Helical Compression Washer, Block Thrust	128	173165	Kit, Expansion Tank Tank, Expansion
57		20W-50 Oil			Cap, Vent
58	142929	Kit, Brake Yoke			Bolt, Self Tapping 10-32 X 1/2
59 60	170408 142883	Rotor, Brake Brake Puck			Bracket, Support Expansion Tank Silicon Sponge 1/2 X 1/2 X 3/16
61	142882	Brake Puck Plate	129	191032	Cap, Expansion Tank Shipping
62 63	170409 170410	Pin, Brake Actuating Hfhcs 1/4-20 X 2 W/patch, Special Flange	130	186352	Kit, Brake Arm And Spring Arm, Brake
64	142892	Bolt, Nylok			Spring, Brake Arm Bias
65 67	170411 170413	Spacer, Brake Torsion Spring Bolt, Square Head - Brake			Instruction Sheet
67 69	170413	Nut, Castle 5/16-24	NOTE:	All component	dimensions given in U.S. inches
70	170416	Pin, Cotter 3/32x3/4	1 inch	= 25.4 mm	-





TRACTOR - - MODEL NUMBER 944.604910 BRIGGS & STRATTON ENGINE - MODEL NUMBER 407577, TYPE NUMBER 0283-E1



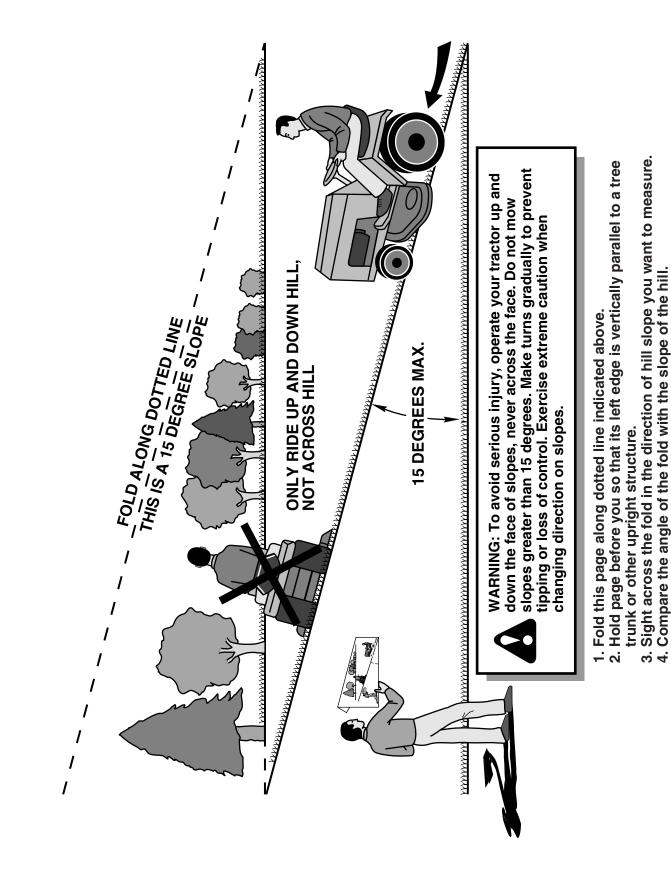


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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	699751	Cylinder Assembly	130	699809	Valve-Throttle
2	499585	Kit-Bushing/Seal (Magneto Side)	131	699812	Kit-Throttle Shaft
3	391086	Seal-Oil (Magneto Side)	133	694914	Float-Carburetor
4	699747	Sump-Engine	137	698781	Ø Gasket-Float Bowl
5	693998	Head-Cylinder (Cylinder 1)	141	699811	Kit-Choke Shaft
5A	693999	Head-Cylinder (Cylinder 2)	146	690979	Key-Timing
7	690962	•+ Gasket-Cylinder Head	165	693148	Nut (Ring Gear)
8	499601	Breather Assembly	187	699799	Line-Fuel
9	690937	Gasket-Breather	187A	691049	Line-Fuel (Molded)
10	690960	Screw (Breather Assembly)	188	690960	Screw (Control Bracket)
11	690942	Tube-Breather	192	690083	Adjuster-Rocker Arm
12	697227	Gasket-Crankcase	209	692909	Spring-Governor
13	690360	Screw (Cylinder Head)	211	691019	Spring-Governed Idle
15	690946	Plug-Oil Drain	212	699805	Link-Throttle
16	691046	Crankshaft	213	691021	Bracket-Choke Control
20	690947	Seal-Oil (PTO Side)	216	691022	Link-Choke
22	694966	Screw (Engine Sump)	219	698231	Gear-Governor
23	691054	Flywheel	220	690412	Washer (Governor Lever)
23 24	222698	Key-Flywheel	222	698761	Bracket-Control
25	499588	Piston Assembly (Standard)	227	691048	Lever-Governor Control
25 25		Piston Assembly (.020" Oversize)	231	690718	Screw (Choke Valve)
25 26	499590		240	691035	Filter-Fuel
	499604 499606	Ring Set-Piston (Standard) Ring Set-Piston (.020" Oversize)	250	690957	Retainer-Breather
26				690956	Collector-Oil
27	690975	Lock-Piston Pin	252		
28	690229	Pin-Piston	265	691024	Clamp-Casing
29	499583	Rod-Connecting	267	695134	Screw (Casing Clamp)
32	690976	Screw (Connecting Rod)	276	695410	+ Washer-Sealing
33	499596	Valve-Exhaust	287	690960	Screw (Dipstick Tube)
34	499597	Valve-Intake	304	695277	Housing-Blower
35	690963	Spring-Valve (Intake)	305	691005	Screw (Blower Housing)
36	690963	Spring-Valve (Exhaust)	309	497595	Motor-Starter
40	690964	Retainer-Valve	310	690323	Bolt (Starter Motor)
42	499586	Keeper-Valve	311	497608	Brush Set
45	690977	Tappet-Valve	332	691059	Nut (Flywheel)
46	699748	Camshaft	333	691060	Armature-Magneto
48	692714	Short Block	334	691061	Screw (Magneto Armature)
50	699801	Manifold-Intake	337	691043	Spark Plug
51		؇ Gasket-Intake	358	699823	Set-Engine Gasket
51A		؇ Gasket-Intake	363	691062	Flywheel Puller
51B		؇ Gasket-Intake	383	690966	Wrench-Spark Plug
53	690951	Stud (Carburetor)	385	690960	Screw (Fuel Pump)
54	699816	Screw (Intake Manifold)	387	808656	Pump-Fuel
73	691055	Screen-Rotating	404	690442	Washer (Governor Crank)
74	691057	Screw (Rotating Screen)	405	697820	Screw (Back Plate)
75	691056	Washer (Flywheel)	431	699806	Elbow-Intake
89	690283	Plug-Oil	445	499486	Filter-Air Cleaner Cartridge
98	699721	Kit-Idle Speed	447	691003	Screw (Air Guide Cover)
104	694918	Ø Pin-Float Hinge	447A	690960	Screw (Air Guide Cover)
105	698537	Ø Valve-Float Needle			
108	699808	Valve-Choke	•		Engine Gasket Set, Key. No. 358
117	698784	Jet-Main (Standard)	Ø		Carburetor Overhaul Kit, Key. No. 121
118	699820	Jet-Main (High Altitude)	‡	Included in	Carburetor Gasket Set, Key. No. 977
121	699814	Kit-Carburetor Overhaul	+	Included in	Valve Gasket Set, Key. No. 1095
122	699802	Spacer-Carburetor			
125	699807	Carburetor	NOTE	: All compor	nent dimensions given in U.S. inches 1 inch
127	699810	Plug-Welch	= 25.4	mm	-
		-			

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
467	691008	Knob-Air Cleaner	877	393456	Wire/Connector-Alternator
474	696459	Alternator	914	691127	Screw (Rocker Cover)
505	691029	Nut (Governor Control Lever)	918	694000	Hose-Vacuum
510	497606	Drive-Starter	929	691003	Screw (Choke Control Bracket)
513	692024	Clutch-Drive	943		 Seal-O Ring (Oil Pump Cover)
523	691036	Dipstick	947	699728	Solenoid-Fuel
524	691032	Seal-Dipstick Tube	965	499613	Cover-Oil Pump
525	691037	Tube-Dipstick	967	273638	Filter-Pre Cleaner
544	692034	Armature-Starter	968	499788	Cover-Air Cleaner
552	690552	Bushing-Governor Crank	975	699502	Bowl-Float
552A	690553	Bushing-Governor Crank	977	699815	Gasket Set-Carburetor
562	690311	Bolt (Governor Control Lever)	987		Seal-Throttle Shaft
573	691009	Plate-Back	1005	499603	Fan-Flywheel
601	95162	Clamp-Hose	1013	690954	Nipple-Oil Filter
615	698290	Retainer-Governor Shaft	1017	690770	Screen-Oil Pump
616	691045	Crank-Governor	1019	690103	Kit-Label
628	690960	Screw (Fuel Pump Bracket)	1022		- Gasket-Rocker Cover
633	695414	Ø Seal-Choke/Throttle Shaft	1023	499599	Cover-Rocker (Cylinder 1)
635	66538	Boot-Spark Plug		499600	Cover-Rocker (Cylinder 2)
654	690958	Nut (Carburetor)	1024	499054	Pump-Oil
668	691215	Spacer	1026	690981	Rod-Push (Steel)
691	690657	Seal-Governor Shaft		690982	Rod-Push (Aluminum)
695	693149	Screw (Ring Gear)	1027	492932	Filter-Oil
697	690372	Screw (Drive Cap)	1029	690972	Arm-Rocker
703	691010	Clip	1035	691042	Shaft-Pump
718	690959	Pin-Locating	1036	695704	Label-Emission
726	499612	Gear-Ring	1051	691265	Ring-Retaining
741	690980	Gear-Timing	1054	280275	Cable-Tie
742	690328	Retainer-E Ring	1058	275475	Owner's Manual
750	696999	Screw (Oil Pump Cover)	1059	698516	Kit-Screw/Washer
783	693058	Gear-Pinion	1070	691674	Screw (Flywheel Fan)
788	691039	Bracket-Fuel Pump	1090	691293	Retainer-Brush
789	698330	Harness-Wiring	1095	699822	Gasket Set-Valve
797	691029	Nut (Brush Retainer)	1100	690973	Pivot-Rocker Arm
797A	693167	Nut (Brush Retainer)	1119	691183	Screw (Alternator)
798	697890	Screw (Rocker Arm)	1127	695407	Screw (Float Bowl)
801	691283	Cap-Drive	1329		5 Replacement Engine
802	691286	Cap-End	1330	273521	Repair Manual
803	693757	Housing-Starter	1000	2/0021	
842	691031	Seal-Dipstick/Tube	•	Included in F	ingine Gasket Set, Key. No. 358
847	499602	Dipstick/Tube Assembly	Ø		Carburetor Overhaul Kit, Key. No. 121
851	493880	Terminal-Spark Plug	ŧ	Included in C	Carburetor Gasket Set, Key. No. 977
865	691012	Cover-Air Guide	++		alve Gasket Set, Key. No. 1095
865A	691012	Cover-Air Guide	1		and Gaonot Got, Roy. No. 1000
865B	691014	Cover-Air Guide	NOTE	: All compone	nt dimensions given in U.S. inches 1 inch
868	690968	•+ Seal-Valve	= 25.4		
000	030300		- 20.4		





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