

MODEL NO. 944.604861

Important:
Read and follow
all Safety Rules
and Instructions
Before Operating
This Equipment



CRAFTZMAN®

16.0 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

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

A

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.



SAFETY RULES

Safe Operation Practices for Ride-On Mowers













- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.



WARNING: 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.

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PRODUCT SPECIFICATIONS

Gasolina Capacity and type:	1.25 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 from the factory with non-synthet SAE 10W-30 motor oil.				
Oil Capacity:	3.0 Pints			
Spark Plug: (Gap: 030")	Champion RC12YC			
Ground Speed (MPH):	Forward: 5.2 Reverse: 2.7			
Tire Pressure:	Front: 14 PSI Rear: 12 PSI			
Charging System:	3 Amps Battery 5 Amps Headlights			
Battery:	AMP/HR: 28 Min. CCA: 230 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:

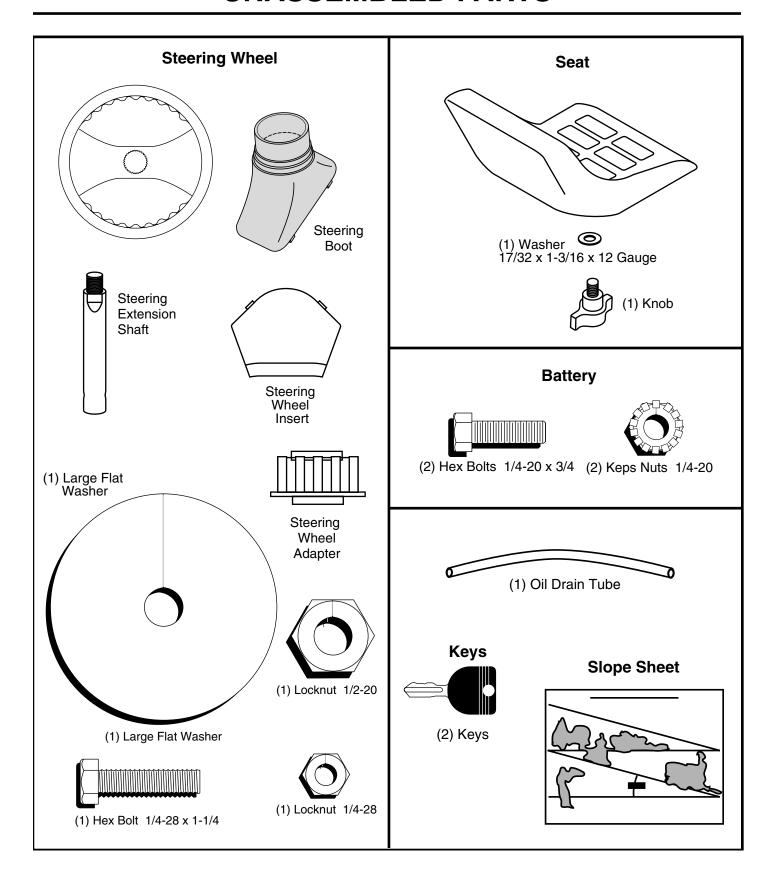
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse 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 Pliers

(2) 7/16" wrenches 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.

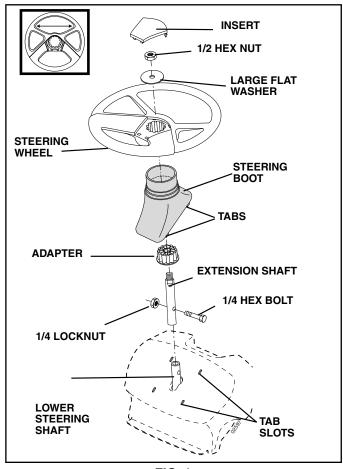


FIG. 1

HOW TO SET UP YOUR TRACTOR INSTALL SEAT (See Fig. 2)

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 bolts are positioned over the large slotted holes in pan.
- Push down on seat to engage shoulder bolts in slots 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 in 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.

ASSEMBLY

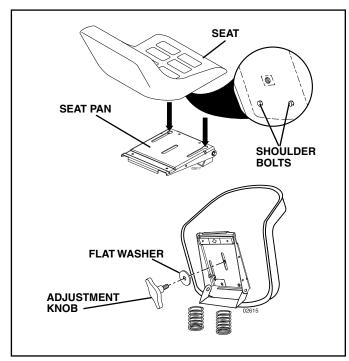


FIG. 2

CONNECT BATTERY (See Figs. 3 and 4)



CAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift seat pan to raised position.
- 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. (See "BATTERY" in the Maintenance section of this manual for charging instructions).
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely. Slide terminal cover over terminal.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.

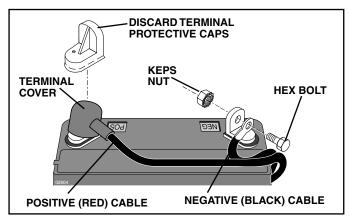


FIG. 3

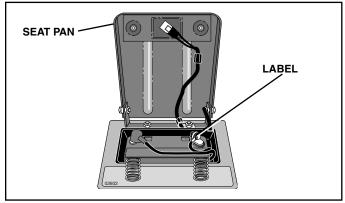


FIG. 4

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 freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding 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.

ASSEMBLY

- Place freewheel control in "transmission engaged" position.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine 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 "OFF" position.

Continue with the instructions that follow.

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

BEFOREYOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

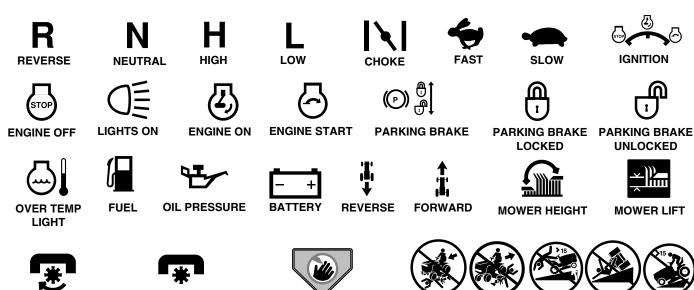
PLEASE REVIEW THE FOLLOWING CHECKLIST:

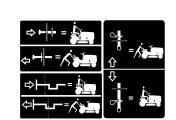
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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





CLUTCH ENGAGED CLUTCH DISENGAGED

ATTACHMENT

ATTACHMENT

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.



DANGER, KEEP HANDS **AND FEET AWAY**











KEEP AREA CLEAR



(SEE SAFETY RULES SECTION)





DANGER indicates a hazard which, if not avoided,



will result in death or serious injury.



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



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

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



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



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

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.

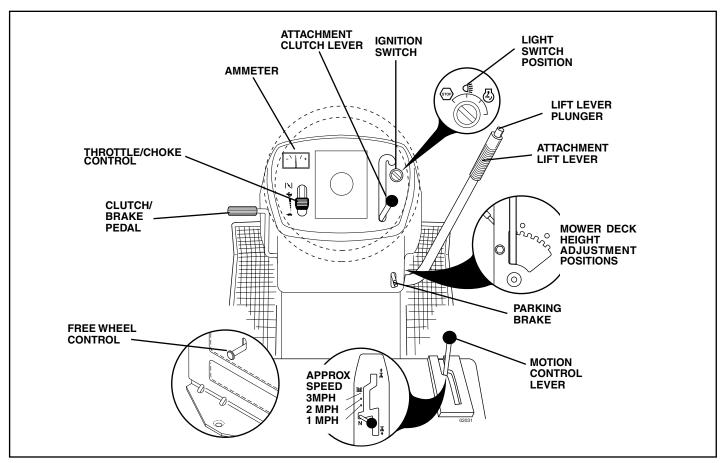


FIG. 5

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/CHOKE CONTROL - Used for starting and controlling engine speed.

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

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

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.



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. 6)

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.

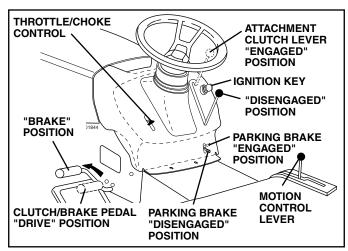


FIG. 6

STOPPING (See Fig. 6)

MOWER BLADES -

 To stop mower blades, move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- To stop ground drive, depress clutch/brake pedal into full "BRAKE" position.
- Move motion control lever to neutral (N) position.

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

ENGINE -

Move throttle control to slow position.

NOTE: Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

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

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. 6)

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 MOVE FORWARD AND BACKWARD (See Fig. 6)

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. 6)

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

TO OPERATE MOWER (See Fig. 7)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. 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.

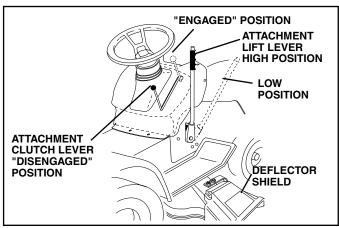


FIG. 7

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. 5 and 8)

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located at the rear drawbar of tractor.

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and down into the slot and release so it is held in the disengaged position.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

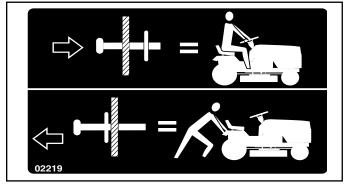


FIG. 8

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. 6)

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

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to choke position.

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

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

WARM WEATHER STARTING (50° F and above)

- When engine starts, move the throttle control to the fast position.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

 When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

AUTOMATIC TRANSMISSION WARM UP

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

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

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. 9).

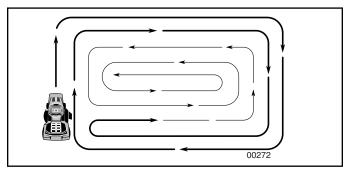


FIG. 9

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	E	EFORE	EACH U	HOURS HOURS	HOUR'S VERY S	OHOUP VERY 1	O HOU	AS SEASON SEFORES	TORAGE SERVIC	CE DATES	
	Check Brake Operation	V	1									1
	Check Tire Pressure	/	1									
Т.	Check Operator Presence and Interlock Systems	~										1
R	Check for Loose Fasteners	V				1 5		/				
I A	Sharpen/Replace Mower Blades			1 3]
۱¥	Lubrication Chart			/				/				
Ö	Check Battery Level			4								
R	Clean Battery and Terminals			/				/				
	Check Transaxle Cooling			/								
	Check V-Belts					/						_
	Check Engine Oil Level	V	1									
	Change Engine Oil (with oil filter)				1 _{1,2}			/				1
lε	Change Engine Oil (without oil filter)			1 ,2				/				
N	Clean Air Filter			✓ 2								1
Ģ	Clean Air Screen			1 2								1
ľ	Inspect Muffler/Spark Arrester				/							1
ΙË	Replace Oil Filter (If equipped)					1,2						3
1-	Clean Engine Cooling Fins					1 2						aint_s
	Replace Spark Plug					1	1					sch-tra
	Replace Air Filter Paper Cartridge					1 2						maint_sch-tractore.new
	Replace Fuel Filter						/					e.new

- Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 Replace blades more often when mowing in sandy soil.
- 4 Not required if equipped with maintenance-free battery.
- 5 Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

GENERAL RECOMMENDATIONS

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

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

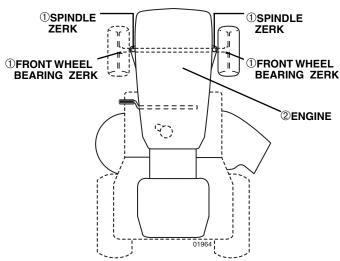
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

 Åt 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.

LUBRICATION CHART



- **1**GENERAL 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 maintenance.

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. 10)

- 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 HEATTREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVE BOLT SHOWN IN THE REPAIR PARTS.

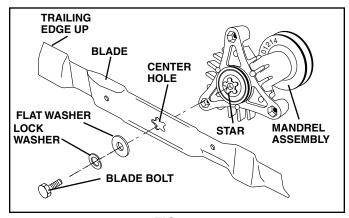


FIG. 10

TO SHARPEN BLADE (See Fig. 11)

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.

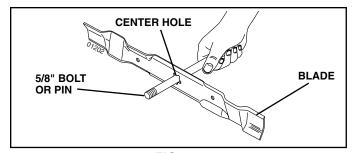


FIG. 11

BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

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

- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "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.

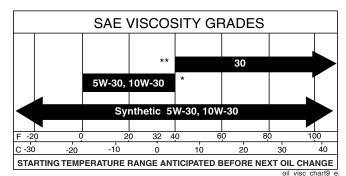


FIG. 12

* **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 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Figs. 12 and 13)

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.

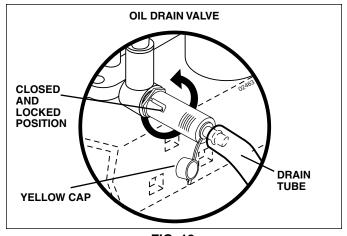


FIG. 13

- 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. Tighten cap onto the tube securely when finished.

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.

ENGINE COOLING SYSTEM (See Fig. 14)

Debris may clog the engine's air cooling system. Remove blower housing and clean the area shown to prevent overheating and engine damage.

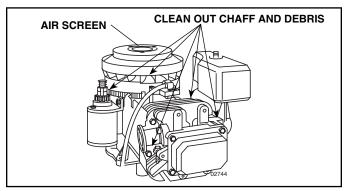


FIG. 14

AIR FILTER (See Fig. 15)

Your engine will not run properly using a dirty air filter. Replace 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.

- Pull up on air filter cover handle and rotate towards engine.
- Remove cover.
- Carefully remove air filter cartridge and pre-cleaner from base.
- Clean base carefully to prevent debris from falling into carburetor.

NOTE: If very dirty or damaged, replace cartridge.

- Place new pre-cleaner and cartridge firmly in base.
- Align tabs on cover with slots in blower housing and replace cover.
- Hook handle on cover and push down on handle to close.

IMPORTANT: Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean cartridge.

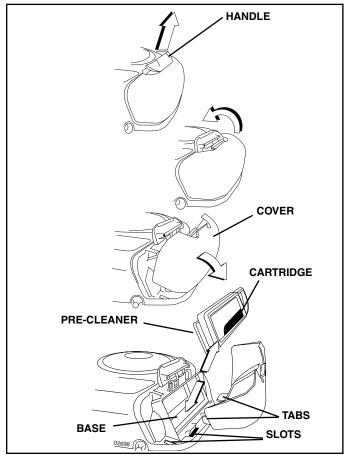


FIG. 15

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. 16)

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.

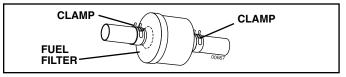


FIG. 16

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.

SERVICE AND ADJUSTMENTS



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

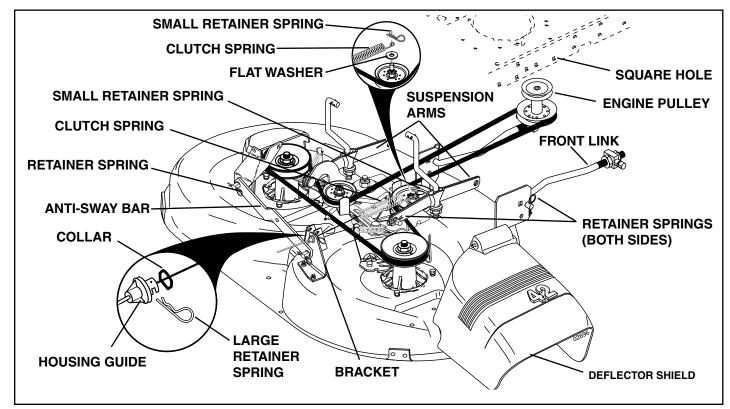
TO REMOVE MOWER (See Fig. 17)

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

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and remove clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.

- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONTLINKS AND HOOKTHE CLUTCH SPRING INTO SQUARE HOLE IN FRAME.



TO INSTALL MOWER (See Fig. 17)

- 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. 18 and 19)

- 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.

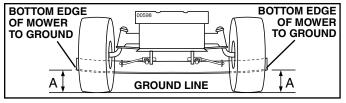


FIG. 18

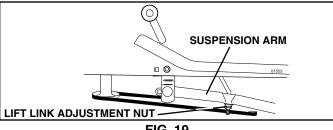


FIG. 19

FRONT-TO-BACK ADJUSTMENT (See Figs. 20 and 21) 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.

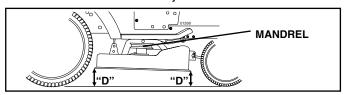


FIG. 20

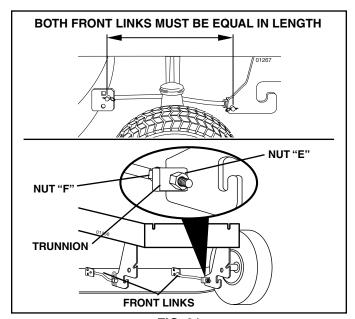


FIG. 21

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 22)

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 quides.
- Install mower in reverse order of removal instructions.

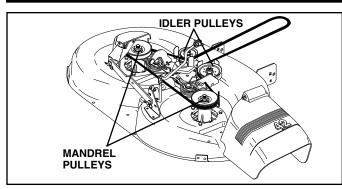


FIG. 22

TO CHECK AND ADJUST BRAKE (See Fig. 23)

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 engaģe 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.

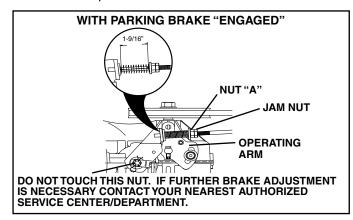


FIG. 23

TO REPLACE MOTION DRIVE BELT (See Fig. 24)

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).

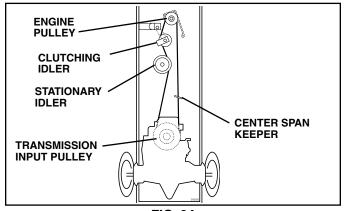


FIG. 24

TRANSAXLE MOTION CONTROL LEVER **NEUTRAL ADJUSTMENT(See Fig. 25)**

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
- 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.

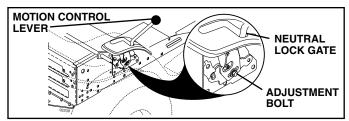


FIG. 25

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. 26)

- 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.

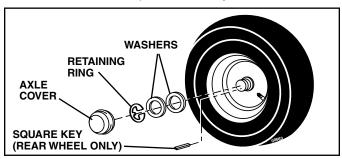


FIG. 26

TO START ENGINE WITH A WEAK BATTERY (See Fig. 27)



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.

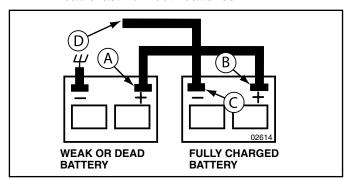


FIG. 27

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. 28)

- 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.

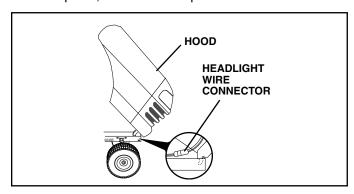


FIG. 28

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. 29)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position.
- Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

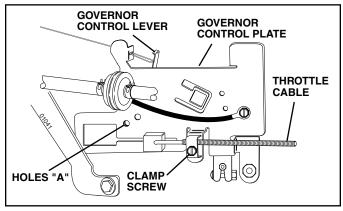


FIG. 29

TO ADJUST CARBURETOR (See Fig. 30)

NOTE: The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning idle mixture valve **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLE VALVE AND THE SEAT IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve full travel clockwise then counterclockwise until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

ACCELERATION TEST -

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture valve out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

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

IMPORTANT: NEVERTAMPERWITHTHEENGINE 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.

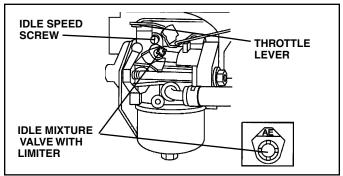


FIG. 30

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 COVERTRACTOR 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. 8. 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	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Raise cutting height/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Excessive vibration	Worn, bent or loose blade. Bent blade mandrel. 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	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 944.604861

SCHEMATIC

RUN

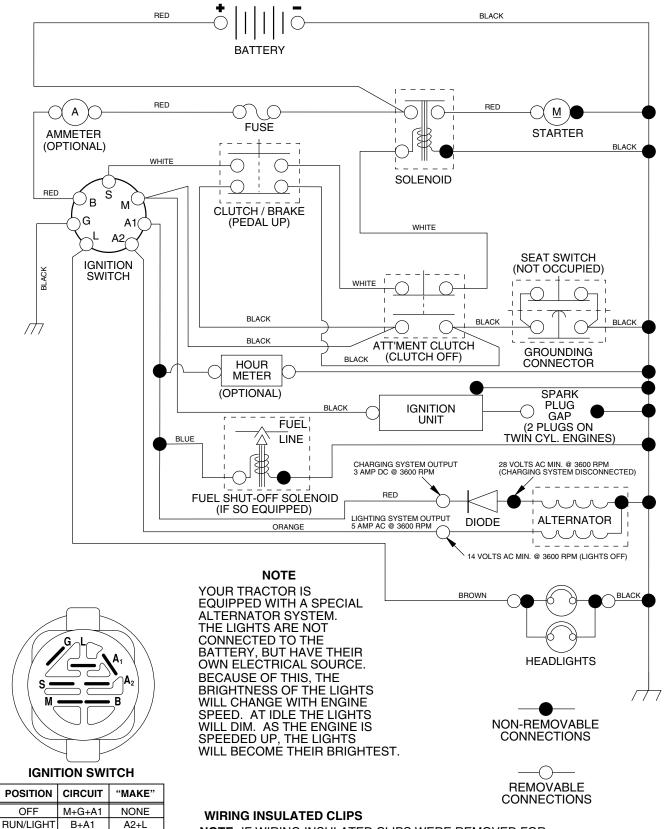
START

B+A1

B + S + A1

NONE

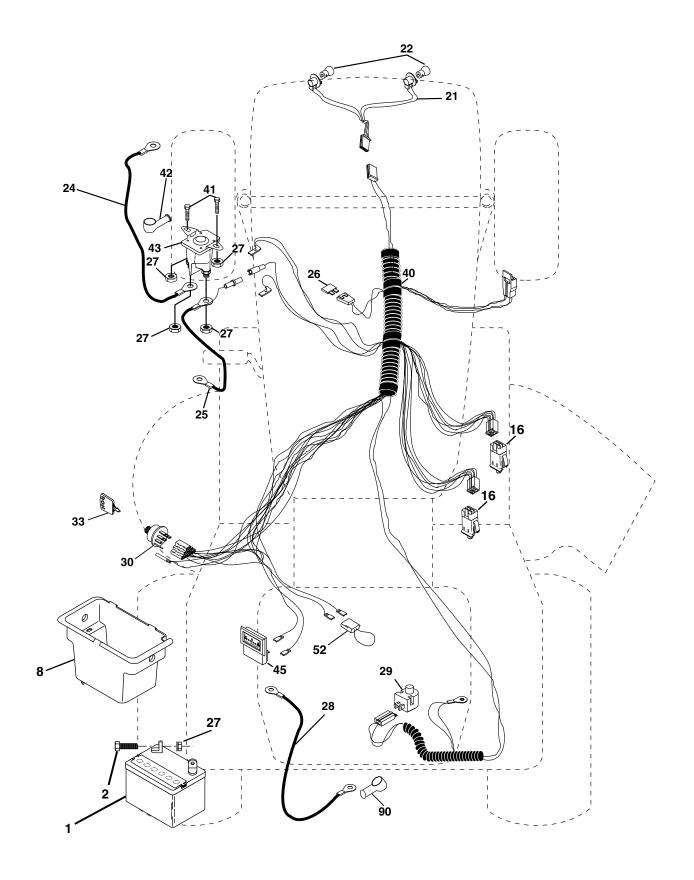
NONE



NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

TRACTOR - - MODEL NUMBER 944.604861

ELECTRICAL



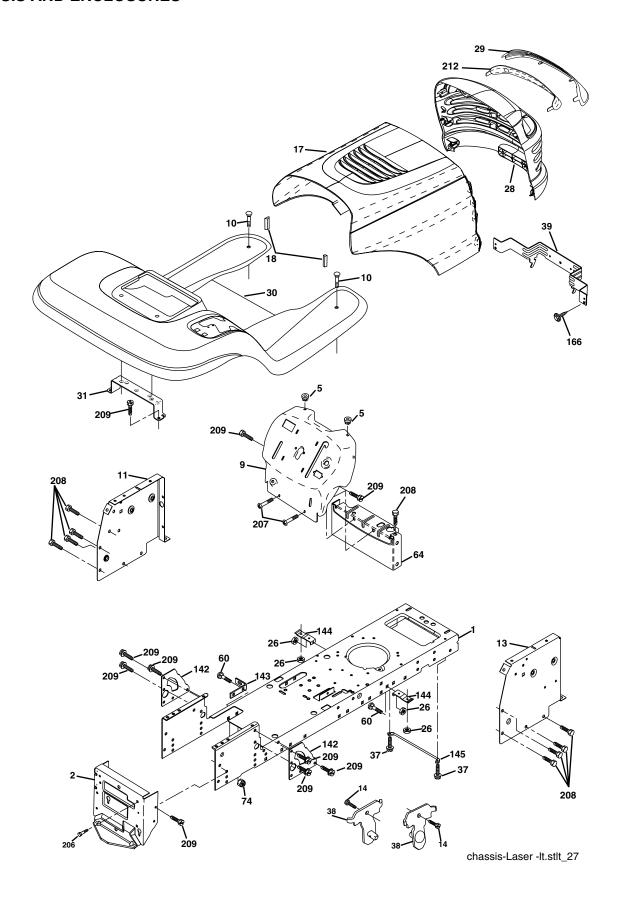
TRACTOR - - MODEL NUMBER 944.604861

ELECTRICAL

1 163465 Battery 12 Volt 28 Amp 2 74760412 Bolt Hex Hd 1/4-20 unc x 3/4 8 176689 Case Battery 16 176138 Switch Interlock Push-In 21 183759 Harness Asm Light W/4152J 22 4152J Bulb Light #1156	KEY NO.		DESCRIPTION
25 146147 Cable Battery 6 Ga. w/16 wire,red 26 175158 Fuse 20 AMP 27 73510400 Nut Kep Hex 1/4-20 28 4207J Cable Ground 6 Ga. 12" black 29 121305X Switch Plunger Nc Gray 30 175566 Switch Ign 33 140403 Key Ign 40 179720 Harness Ign 41 71110408 Bolt Blk Fin Hex 1/4-20 unc x 1/2 42 131563 Cover Terminal Red 43 178861 Solenoid 45 121433X Ammeter	2 8 16 21 22 24 25 26 27 28 29 30 33 40 41 42 43 45 52	74760412 176689 176138 183759 4152J 4799J 146147 175158 73510400 4207J 121305X 175566 140403 179720 71110408 131563 178861 121433X 141940	Bolt Hex Hd 1/4-20 unc x 3/4 Case Battery Switch Interlock Push-In Harness Asm Light W/4152J Bulb Light #1156 Cable Battery 6 Ga. 11"red Cable Battery 6 Ga. w/16 wire,red Fuse 20 AMP Nut Kep Hex 1/4-20 Cable Ground 6 Ga. 12" black Switch Plunger Nc Gray Switch Ign Key Ign Harness Ign Bolt Blk Fin Hex 1/4-20 unc x 1/2 Cover Terminal Red Solenoid Ammeter Protection Wire Loop (Hourmeter)

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

TRACTOR - - MODEL NUMBER 944.604861 CHASSIS AND ENCLOSURES



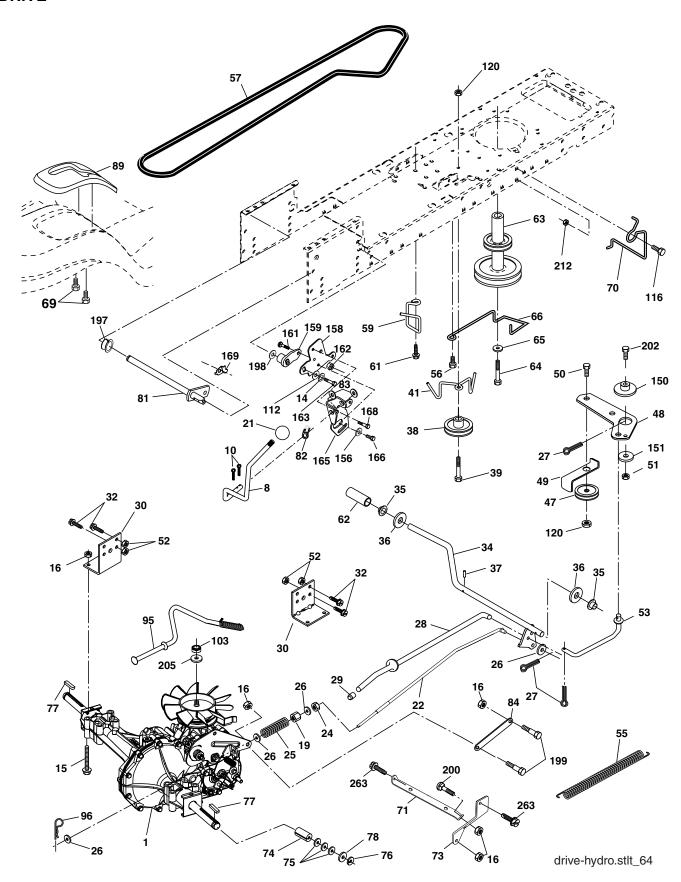
TRACTOR - - MODEL NUMBER 944.604861 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1 2 3 5 9	174619 176554 17060612 155272 187846X011 STD533710	Bolt Carriage 3/8-16 x 1
11 13 14 17	17490608 185682X558	
18 26 28 29	184921 STD541437 190380 174332X599	Grille/Len Laser (Includes key #'s 29 and 212)
30 31 37 38	188571X558 139976 17490508 175710	Fender Footrest Bracket Support Fender Screw Thdrol 6/16-18 x 1/2 TYT Bracket, Assembly Pivot
39 60 64	174714 STD533707 154798	Bracket Pivot Laser Bolt Rdhd Sqnk 3/8-16 unc x 3/4 Dash Lower STLT
74 142 143 144 145 166 206 207 208 209 212	186689 175582 156524 171875 170165 17670508 17670608 17000612	Nut Crownlock 3/8-16 unc Plate Reinforcement STLT Bracket Swaybar Chassis Bracket Pnt Footrest STLT Rod Pivot Chassis/Hood Screw HwHd Hi-Lo #13-16 x 3/4 Bolt Shoulder 5/16-18 Screw Thdrol 5/16-18 x 1/2 Screw Thdrol 3/8-16 x 1/2 Screw Hex Wsh Thdr. 3/8-16 x 3/4 Insert Lens Reflective Plug Button Plug Dome
		- -

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

TRACTOR - - MODEL NUMBER 944.604861

DRIVE



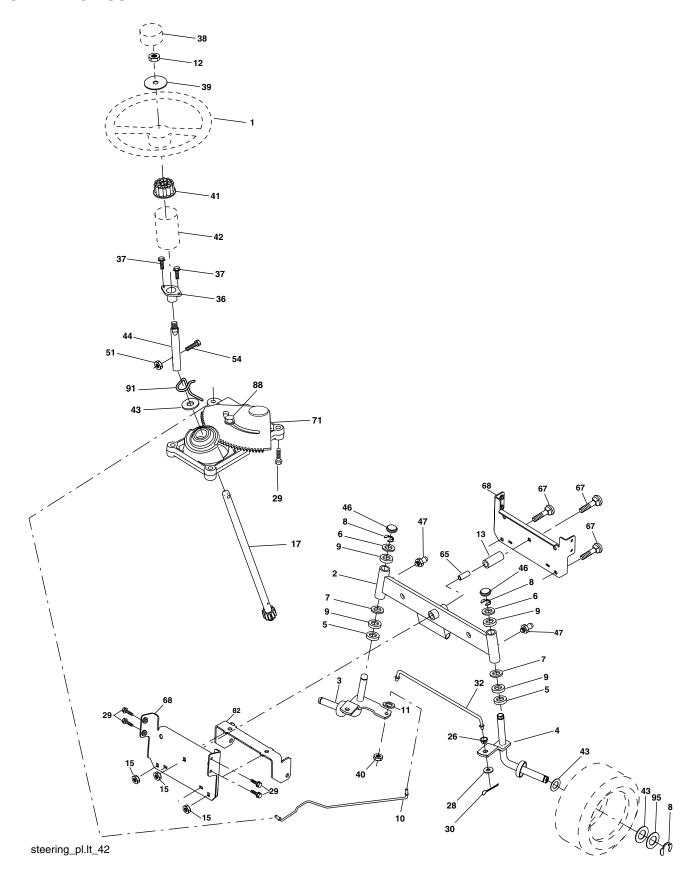
TRACTOR - - MODEL NUMBER 944.604861

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown) Hydro	70	134683	Guide Belt Mower Drive RH
•		322-0510	71	169183	Strap Torque LH
8	165866	Rod Shift Fender Adjust LT	73	169182	Strap Torque RH
10		Pin Cotter 1/8 x 1 Cad	74	137057	Spacer Axle
14	10040400	Washer Lock Hvy Helical 1/4	75	121749X	Washer 25/32 x 1 1/4 x 16 Ga.
15	74490544	Bolt Hex 5/16-18 Gr. 5	76	STD581075	E-ring #5133-75
16	STD541431		77	123583X	Key Square 2 0 x 1845/ 1865
19	STD541437	Nut Lock 3/8-16 unc	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
21	106933X	Knob	81	165596	Shaft Asm Cross
22	169498	Rod Brake	82	165711	Spring Torsion T/a
24	STD541237		83	19171216	Washer 17/32 x 3/4 x 16 Ga.
25	106888X	Spring Rod Brake 2 00 Zinc	84	169843	Link Transaxle
26	STD551037	Washer 13/32 x 13/16 x 16 Ga	89		Console Shift STLT
27	STD561210		95	170201	Control Asm Bypass
28	175765	Rod Brake Parking LT/YT	96	4497H	Retainer Spring
29	71673	Cap Brake Parking	103	73940800	Nut Hex Jam Toplock 1/2-20
30	174973	Bracket Mtg Transaxle	112	19091210	Washer 9/32 x 3/4 x 10 Ga.
32	STD523107		116	72140608	Bolt Rdhd Sq Neck 3/8-16 x 1
34	175578	Shaft Asm Pedal Foot	120	73900600	Nut Lock Flg 3/8-16 unc
35	120183X	Bearing Nylon Blk 629 Id	150	175456	Bushing Retainer
36	STD551062		151	19133210	Washer 13/32 x 2 x 10
37	STD571810	Pin Roll 3/16 x 1"	156	166002	Washer Srrted 5/16 ID x 1 x .125
38	179114	Pulley Idler Flat	158	165589	Bracket Shift Mount
39	72110622	Bolt 3/8-16 unc x 2-3/4	159	183900	Hub Shift
41	175556	Keeper Belt Idler	161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
47	127783	Pulley Idler V Groove Plastic	162	73680400	Nut Crownlock 1/4-20 unc
48	154407	Bellcrank Asm	163	74780416	Bolt Hex Fin 1/4-20 unc x 1 Gr. 5
49	123205X	Retainer Belt Style Spring	165	165623	Bracket Pivot Lever
50	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5	166	17490510	Screw 5/16-18 x 5/8
51	STD541437		168	165492	Bolt Shoulder 5/16-18 x .561
52	STD541431	Nut Crownlock 5/16-18 unc	169	165580	Plate Fastening LT
53	105710X	Link Clutch	197	169613	Nyliner Snap-In
55	105709X	Spring Return Clutch 6 75	198	169593	Washer Nyliner
56	17060620	Screw 3/8-16 x 1-1/4	199	169612	Bolt Shoulder 5/16-18 unc
57	140294	V-Belt Ground Drive	200	72140508	Bolt Rdhd Sqnk 5/16-18 unc x 1
59	169691	Keeper Belt Span Ctr	202	72110614	Bolt 3/8-16 x 1-3/4 Gr. 5
61	17120614	Screw 3/8-16 x .875	205	19171616	Washer 17/32 x 1 x 16 Ga.
62	8883R	Cover Pedal Blk Round	212	145212	Nut Hexflange Lock
63	175410	Engine Pulley LT/YT	263	17000612	Screw 3/8-16 x 3/4
64	173937	Bolt Hex			
65	STD551143		NOTI	E: All compone	ent dimensions given in U.S. inches
66	154778	Keeper Belt Engine Foolproof		1 inch = 25.	
69	142432	Screw			

TRACTOR - - MODEL NUMBER 944.604861

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.604861

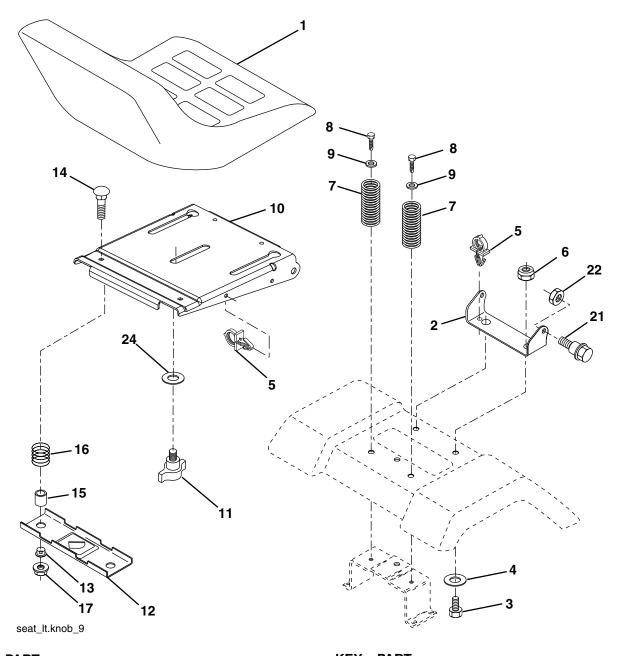
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Wheel Steering
2	175131	Axle Asm Welded LT/STL
3	169840	Spindle Asm LH
4	169839	Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
7	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
8 9	12000029 3366R	Ring Klip #t5304-75 Bearing Col Strg Blk
10	175121	Link Drag Extended Stamp
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
12	73940800	Nut Hex Jam Toplock 1/2-20 unf
13	136518	Spacer Bearing Axle
15	145212	Nut Hex Flange Lock
17	180641	Shaft Asm Strg
26	126847X	Bushing Link Drag Blk LR
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29 30	17000612 STD561210	Screw 3/8-16 x 3/4 Pin Cotter 1/8 x 3/4 Cad
30 32	130465	Rod Tie Wire Form 19 75 Mech
36	155099	Bushing Strg
37	152927	Screw
38	139769	Insert Cap Strg Wh Au
39	19183812	Washer 9/16 x 2-3/8
40	73540600	Lock nut
41	186737	Adaptor Wheel Strg
42	145054X428	
43	121749X	Washer 25/32 x 1 1/4 x 16 Ga.
44 46	180640	Extension Steering Shaft LR/LT
46 47	121232X 183226	Cap Spindle Fr Top Blk Fitting Grease
51	73540400	Nut Crownlock 1/4-28
54	71130420	Bolt Hex 1/4-28 unf x 1-1/4
65	160367	Spacer Brace Axle
67	72110618	Bolt Rdhd Sq 3/8-16 x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm
82	169835	Bracket
88	175118	Bolt Shoulder 7/16-20 unc
91 95	175553 188967	Clip Steering Washer Hardened
90	100307	vvasilei Flatuelleu

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

TRACTOR - - MODEL NUMBER 944.604861

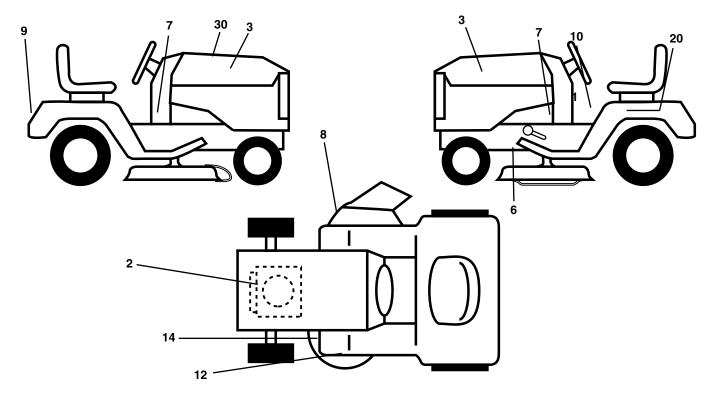
SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	188716	Seat	13	121248X	Bushing Snap Blk Nyl 50 ld
2	180166	Bracket Pivot Seat 8 720	14	72050412	Bolt Rdhd Sqnk 1/4-20 x 1-1/2
3	71110616	Bolt Fin Hex 3/8-16 unc x 1	15	134300	Spacer Split 28 x 96 Yel Zinc
4	19131610	Washer 13/32 x 1 x 10 Ga.	16	121250X	Spring Cprsn 1 27 Blk Pnt
5	145006	Clip Push-In	17	123976X	Nut Lock 1/4 Lge Flg Gr. 5 Zinc
6	STD541437	Nut Hex w/Ins. 3/8-16 unc	21	171852	Bolt Shoulder 5/16-18 unc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	22	STD541431	Nut Hex Lock W/Ins 5/16-18
8	17000616	Screw 3/8-16 x 1.5	24	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
9	19131614	Washer 13/32 x 1 x 14 Ga.			
10	180186	Pan Seat			
11	166369	Knob Seat	NOTE		ent dimensions given in U.S. inches
12	121246X	Bracket Mounting Switch		1 inch = 25.	4 mm

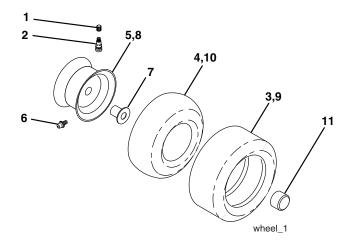
TRACTOR - - MODEL NUMBER 944.604861

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	157032	Decal Fend STLT Oper	14	160396	Decal V-Belt Schematic
2	189244	Decal Engine	20	149517	Decal Bat Dan/Psn
3	171704	Decal Hood	30	190111	Decal Replacement Parts
6	146046	Decal V Belt Drive Sch		166960	Decal Bypass
7	189276	Decal Lower Dash		138311	Decal Handle Lft Height Adjust
8	170563	Decal Warning		184310X428	Pad Footrest LH
9	163204	Decal Craftsman		184311X428	Pad Footrest RH
10	157140	Decal Fender Danger Eng/Fr		190961	Manual Owner's (English)
12	179128	Decal Mower "B" "42"		190963	Manual Owner's (French)

WHEELS & TIRES

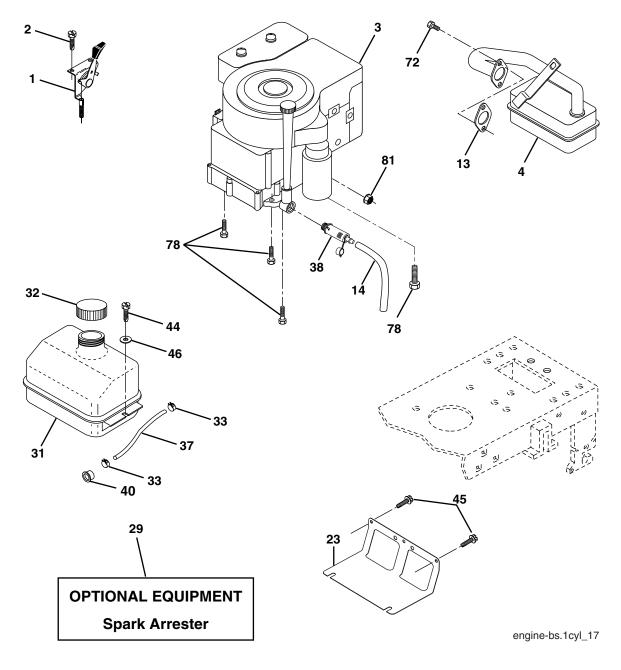


KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F
4	59904	Tube Front (Service Item Only)
5	106732X624	Rim Asm 6"front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X624	Rim Asm 8"rear Service
9	106268X	Tire R
10	7152J	Tube Rear (Service Item Only)
11	104757X428	Cap Axle Blk 1 50 X 1 00
	144334	Sealant, Tire (10 oz. Tube)

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

TRACTOR - - MODEL NUMBER 944.604861

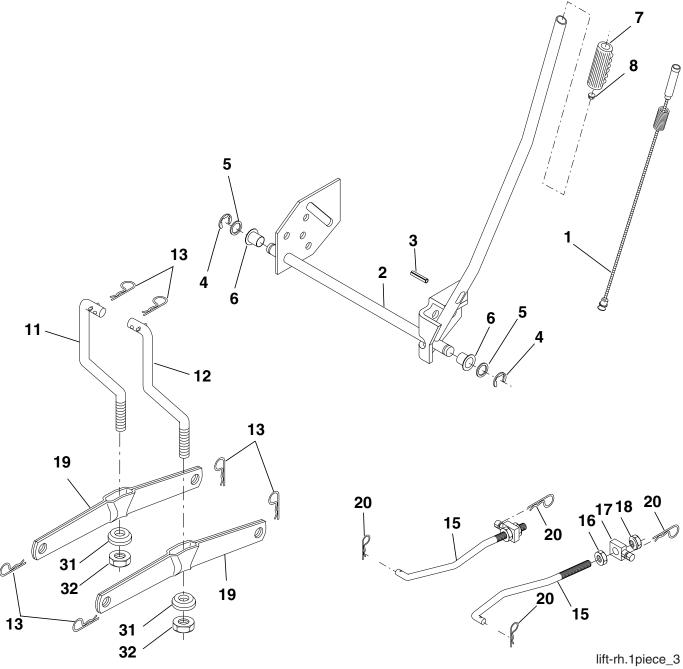
ENGINE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170545	Control Throttle/Choke	37	137040	Line Fuel 20"
2	17720408	Screw Hex Thd Cut 1/4-20 x 1/2	38	181654	Plug Drain Oil Easy
3		Engine (See Breakdown)	40	124028X	Bushing Snap Nyl Blk Fuel Line
		B&Š, Model 31C707-0230-E1	44	17670412	Screw Hexwsh Thdrol 1/4-20 x 3/4
4	137352	Muffler Exhaust B&s Lt	45	17000612	Screw Hex Wsh Thdrol 3/8-16 x 3/4
13	165291	Gasket	46	19091416	Washer 9/32 x 7/8 x 16 Ga.
14	148456	Tube Drain Oil Easy	72	183906	Screw Socket Head 5/16-18 x 1
23	169837	Shield Browning	78	17060620	Screw 3/8-16 x 1-1/4
29	137180	Arrestor Spark	81	73510400	Nut Keps Hex 1/4-20 unc
31	184900	Tank Fuel 1 25 Fr			·
32	140527	Cap Asm Fuel W/sym Vented			
33	123487X	Clamp Hose Blk	NOTI	E: All compo 1 inch = 2	onent dimensions given in U.S. inches 5.4 mm

TRACTOR - - MODEL NUMBER 944.604861

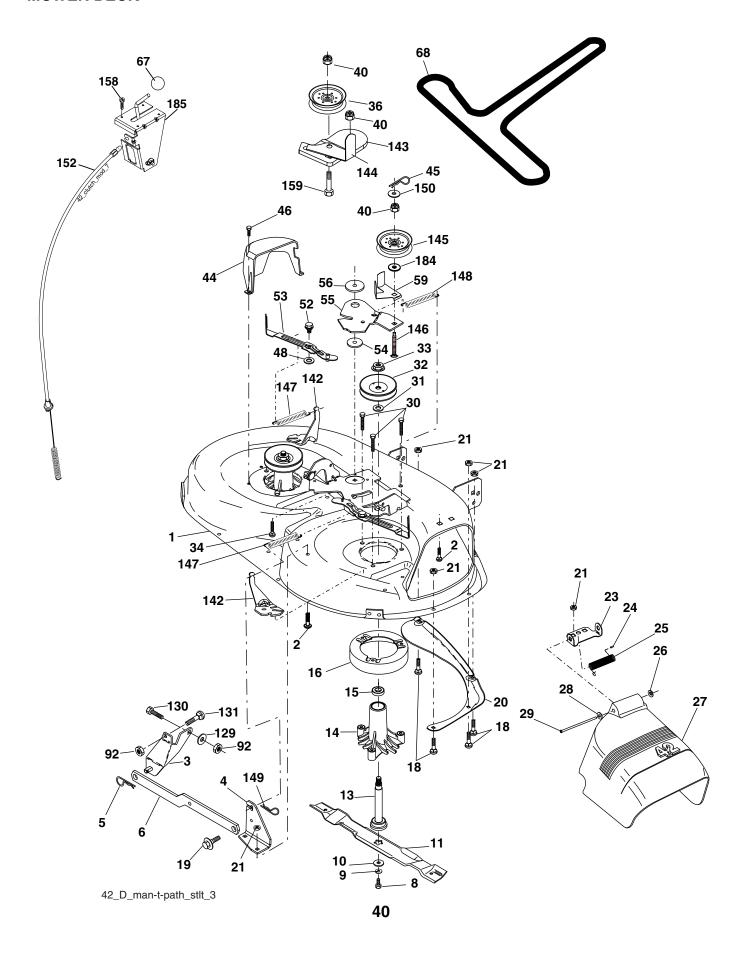
MOWER LIFT



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	
1	159460	Wire Asm Inner W/Plunger	13	STD624008	Retainer Spring	
2	159471	Shaft Asm Lift	15	173288	Link Front	
3	105767X	Pin Groove	16	73350800	Nut Jam Hex 1/2-13 unc	
4	STD581062	E Ring	17	175689	Trunnion Blk Zinc	
5	19211621	Washer 29/32 x 1-1/4 x 21 Ga.	18	73800800	Nut Lock W/Wsh 1/2-13 unc	
6	120183X	Bearing Nylon Blk .629 ID	19	139868	Arm Suspension Rear	
7	125631X	Grip Handle Fluted	20	163552	Spring Retainer	
8	122365X	Button, Plunger	31	169865	Bearing Pvt. Lift	
11	139865	Link Lift Lh Fixed Length	32	73540600	Nut Lock 3/8-24	
12	139866	Link Lift Rh Fixed Length	NOTE: All component dimensions given in U.S. inch 1 inch = 25.4 mm			

TRACTOR - - MODEL NUMBER 944.604861

MOWER DECK

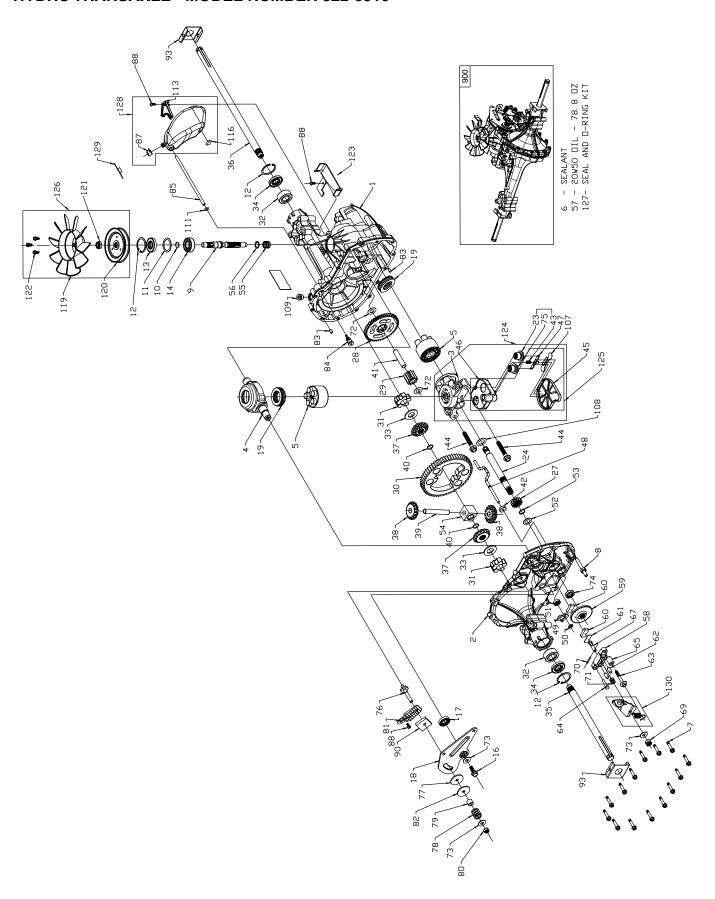


TRACTOR - - MODEL NUMBER 944.604861

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	165892 STD533107	Mower Deck Assembly, 42" Bolt RDHD SQNK 5/16-18 unc x 3/4	44 45 46	140088 STD624003 137729	Guard, Mandrel, L.H. Retainer Screw, Thd. Roll 1/4-20 x 5/8
3 4 5 6 8 9 10	138017 165460 STD624008 178024 850857 STD551137 140296 134149	Bracket Assembly,Sway Bar, Front Bracket Sway Bar 38/42" Deck Retainer Spring Bar, Sway Deck Bolt, Hex 3/8-24 x 1.25 Gr. 8 Washer, Lock Washer, Hardened Blade, 42" Mulching Std (For	48 52 53 54 55 56 59 67	133944 139888 184907 178515 155046 165723 141043 149846	Washer, Hardened Bolt, Shoulder 5/16-18 unc Arm Assembly, Pad, Brake Washer, Hardened Arm, Idler Spacer, Retainer Guard, TUV Idler Knob Custom Oval
	139775	mulching mowers only) Blade, 42" Mulching Premium (For	68 92	144959 STD541437	V-Belt Nut
	138971	better wear when mulching) Blade, 42" Hi-Lift (For bagging or discharging)	129 130 131	19131312 STD523710 STD533710	Washer 13/32 x 13/16 x 12 Ga. Bolt, Fin Hex 3/8-16 unc x 1 Gr. 5 Bolt, Rdhd Sgnk 3/8-16 unc x 1
13 14 15 16 18 19 20 21 23 24 25 26 27	137645 128774 110485X 174493 72140505 132827 159770 STD541431 177563 105304X 123713X 110452X 130968X428	Shaft Asm. w/Lower Bearing Housing, Mandrel, Vented Bearing, Ball, Mandrel Stripper, Vented Mower Deck Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder Baffle, Vortex Nut Crownlock 5/16-18 unc Bracket, Deflector Cap, Sleeve Spring, Torsion, Deflector Nut, Push Shield, Deflector	142 143 144 145 146 147 148 149 150 152 158 159 184	165890 157109 158634 165888 171977 131335 169022 165898 19091210 169676 17720408 72140614 19131410	Arm Spring Brake Mower Bracket Arm Idler 42" Keeper Belt 42" Clutch Cable Pulley Idler Flat Bolt Carriage Idler Spring Extension Spring Return Idler Retainer Spring Yellow Zinc Washer 9/32 x 3/4 x 10 Ga. Cable Clutch 42 In Screw Hex Thd Cut 1/4-20 x 1/2 Bolt Rdhd Sqn 3/8-16 unc x 1-3/4 Washer 13/32 x 7/8 x 10 Ga.
28 29 30 31	19111016 131491 173984 187690	Washer 11/32 x 5/8 x 16 Ga. Rod, Hinge Screw Thdrol DOD PT Hex Washer, Spacer	185	188234 130794	Head Asm Cable Clutch Mandrel Assembly (Includes Housing, Shaft and shaft Hardware Only-Pulley not included)
32 33 34 36 37 40	153535 178342 STD533717 131494 STD551037 73900600	Pulley, Mandrel Nut, Toplock, Flanged Bolt RDHD 3/8-16 x 1-1/2 Pulley, Idler, Flat Washer 13/32 x 13/16 x 16 Ga. Nut Lock 3/8-16 unc	NOTE	169583 E: All compon 1 inch = 25	Replacement Mower, Complete ent dimensions given in U.S. inches

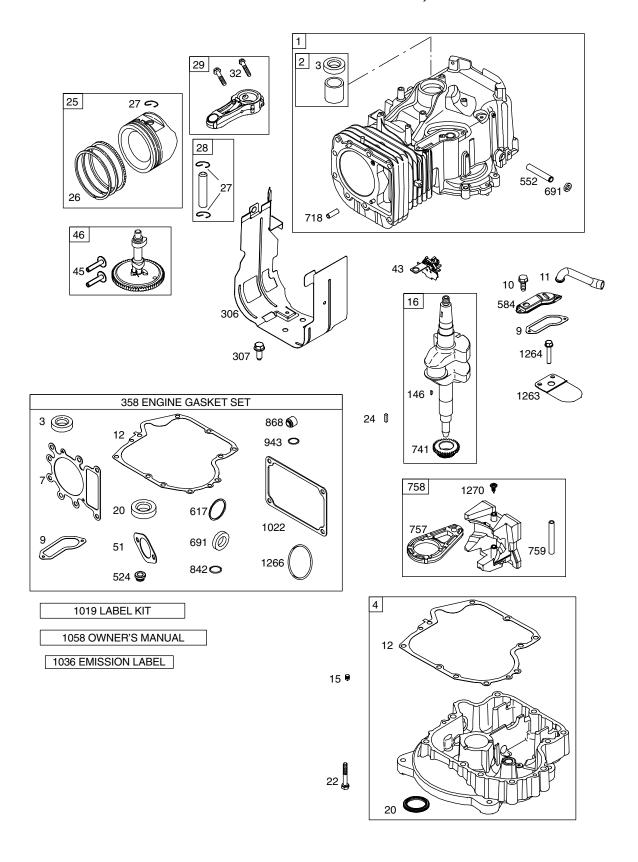
TRACTOR - - MODEL NUMBER 944.604861 HYDRO TRANSAXLE - MODEL NUMBER 322-0510

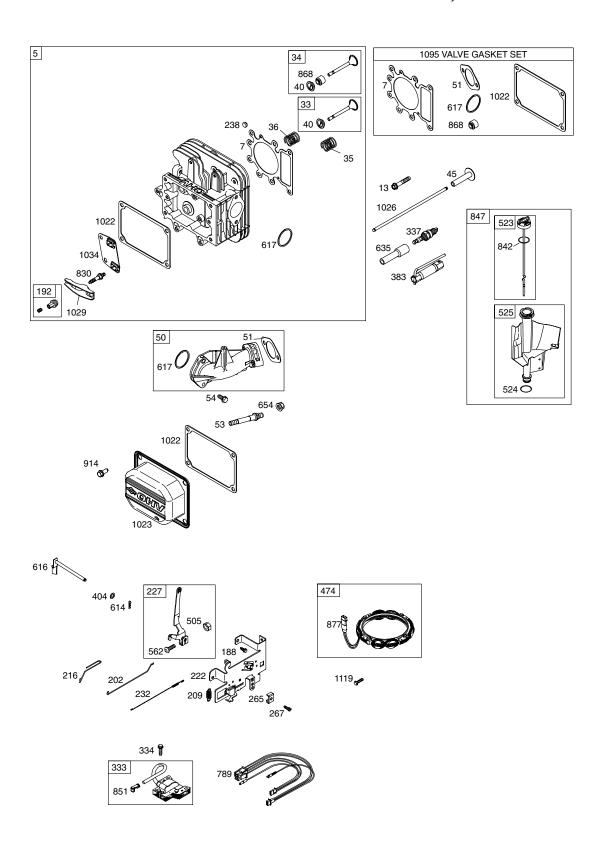


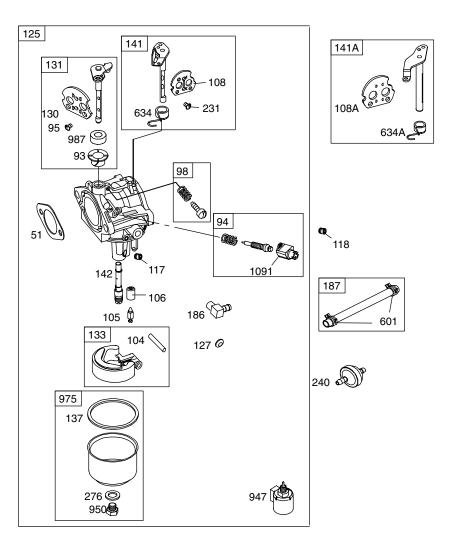
TRACTOR - - MODEL NUMBER 944.604861

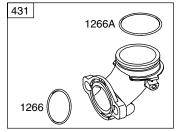
HYDRO TRANSAXLE - MODEL NUMBER 322-0510

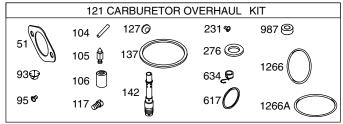
1 170351	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2 170392 Side Housing, Assembly 61 142882 Puck Plate 3 170393 Center Section, Assembly 62 142887 Brake Actuating Pin 4 170394 Swashplate, Trunion Machined 63 170410 HFHCS 114-20X2 W/Patch, Special Flange 6 170395 Saalant 64 142892 Bolt, 114-20X 1 W/Patch, Special Flange 7 170395 Hex Flange Screw 114-20 X 1.25 65 170411 Spacer 8 170397 Sault, 516-24 Hex Double End 66 189386 Spring, Brake Arm Blas 9 170395 Shatt, Input 67 170413 SO, J.H. BOLT 516-24-Hibbed 10 170395 Ring - Retaining 68 170414 Arm, Brake 11 170395 Spacer 69 170415 Slotted Hex Nut 516-24 Hibbed 11 170395 Spacer 69 170415 Slotted Hex Nut 516-24 Hibbed 12 168870 Spacer 70 170416 Cotter Pin 3/22 X 3/4 12 168870 Spacer 70 170416 Cotter Pin 3/22 X 3/4 13 170391 Saal, Lip G7 X 1.58 X 276 71 170417 Compression Spring Brake Anti-Drag 14 173156 Baal Brg 17MM ID X 40MM OD X 12MM 72 170418 Washer, HT .5 I.D. X 1 O.D. X 032 Hex Flange Head Screw 5/16-24 X 73 142884 Flat - Washer 11/32 D.D. X78 O.D. 0.75 74 170419 Oil Seal 825 X 1 D.X 2 D.X 78 O.D. 0.75 74 170419 Oil Seal 825 X 1 D.X 2 D.X 78 O.D. 0.75 75 170420 Check Plug Assembly, 027 Washer 18 173159 Bearing 30X52X13 Thrust 77 170420 Check Plug Assembly, 027 Washer 18 170396 Shatt, Motor 1 170396 Shatt, Motor 1 170396 Shatt M	1	170351	Main Housing, Assembly	60	142883	Brake Puck
3 1703554						
4 170354 Swashplate, Trunion Machined 5 169898 Block - Assembly						
Flange Block - Assembly Flange						
6 170355				00	170410	•
7 170356 Hex Flange Screw 14-20 X 1.25 65 170411 Spacer 8 170357 Stud, 5/16-24 Hex Double End 66 189386 Spring, Brake Arm Bias 9 170358 Shaft, Input 67 170413 SO, HD BOLT 5/16-24 Ribbed 11 170359 Ring - Retaining 68 170414 Arm, Brake 11 170360 Spacer 69 170415 Slotted Hex Nut 5/16-24 Clerk Pin 3/32 X 3/4 170416 Cotter Pin 3/32 X 3/4 170361 Seal, Lip, 67 X 1.58 X .276 71 170417 Compression Spring Brake Anti-Drag Ball Brg 17MM ID X 40MM OD X 12MM 72 170418 Washer, HT. 5.ID. X 10D. X .032 71 170362 Hex Flange Head Screw 5/16-24 X 73 142884 Flat - Washer 11/32 I.D. X 7/8 O.D. 0.75 74 170419 Oil Seal .625 X 1.0 X .25 October 12 170363 Lip Seal 18 X 32 X 7 7 75 170420 Oil Seal .625 X 1.0 X .25 October 13 170364 Arm, Control 76 170421 Stud, 5/16-24 Friction Pack 170364 Arm, Control 76 170421 Stud, 5/16-24 Friction Pack 170366 Shaft, Motor1 79 142980 Spring, Helicil Comp Spacer 7170367 Gear - Pinion, 13T 80 107088 101748T GEAR 801 1017			-	64	140000	· ·
8 170357 Stud, 5/16-24 Hex Double End 66 189386 Spring, Brake Arm Bias 9 170358 Shaft, Input 67 170413 SO, I-ID BOTA 170420 SO, I-ID BOTA 170420 SO, I-ID BOTA 170415 SIONED BOTA 170416 Conter Prin 3/32 X 3/4 A 170361 Seat, Lip. 67 X 1.58 X 276 70 170416 Cotter Prin 3/32 X 3/4 Cotter Prin 3/32 X 3/4 170361 Seat, Lip. 67 X 1.58 X 276 71 170417 Compression Spring Brake Anti-Drag Washer, IT- 5.1. D. X 1.0 D. X .032 Hex FLiange Head Screw 5/16-24 X 73 142884 Flat - Washer 11/32 I.D. X 7/8 O.D. 0.75 74 170419 Washer, IT- 5.1. D. X 1.0 D. X .032 170362 Hex FLiange Head Screw 5/16-24 X 73 142884 Flat - Washer 11/32 I.D. X 7/8 O.D. 0.75 74 170419 Oil Seal, 62X 1.0 X .25 170363 Lip Seal 18 X 32 X 7 75 170420 Chock Plug Assembly, 027, Washer 19 173159 Bearing, 30X52X13 Thrust 77 170422 Puck, 330 X 1.50 X .0975 Part 170365 Check Plug Assembly, Washer 78 142969 Spring, Helici Comp Spacer 77 170367 Gear - Pinion, 13T 80 150778 Hex Lock Nut 5/16-24 UNJF(Nylon Insert) 170366 Shaft, Motor1 79 142980 Spacer 170366 Shaft, Motor1 79 142980 Spacer 170366 Gar, 10T Jackshaft 81 170423 Wedge, Firtition Pack 170370 Gord Plud Sea Spring, 170367 Gear Pinion, 13T 80 150778 Hex Lock Nut 5/16-24 UNJF(Nylon Insert) 170370 Gord Bull Gear 82 170424 Clip, Washer, 316X1.50X.1046 (Plated) 170370 Gord Bull Gear 82 170424 Clip, Washer, 316X1.50X.1046 (Plated) 170371 Sleeve Bearing .75 X 1.575 X .625 83 161168 Pin, Standard Headless 170391 Shaft, Axle .75 X 11.39 (Key, R.H.) 90 170430 Puck, Inner Wedge Fitting, 576 Sea Solar Tube Gear (SPLINED) 107 170432 Deflector Washer, 34 ID X 1-1/2 OD X .13 THK 87 173160 Cap, Vent 170393 Shaft, Axle .75 X 11.39 (Key, R.H.) 91 170430 Puck, Inner Wedge Fit Tube, Pub Shaft, Axle .75 X 11.39 (Key, R.H.) 91 170430 Puck, Inner Wedge Fit Tube, Pub Shaft, Axle .75 X 11.59 (Key, L.H.) 93 170430 Puck, Inner Wedge Fit Tube, Pub Shaft, Axle .75 X 11.39 (Key, R.H.) 91 170430 Puck, Inner Wedge Fit Tube, Pub Shaft, Axle .75 X 11.39 (Key, R.H.) 91 170430 Puck, Inner Wedge Fit Tube, Pub Shaft, Axle .75 X 11.39 (Key, R.H.) 91 17						
9 170358 Shaft, Input 67 170413 SQ. HD. BOLT 5/16-24-Ribbed 170359 Ring- Pletaining 68 170414 Arm, Brade 170415 Slotted Hex Nut 5/16-24 (189870 Ring - Pletaining 70 170416 Cotter Pin 3/32 X 3/4 Compression Spring Brake Anti-Drag 170361 Seal, Lip, 67 X 1.58 X .276 71 170417 Compression Spring Brake Anti-Drag Ball Brg 17MM ID X 40MM OD X 12MM 72 170418 Wassher, HT. 5.1D. X 10D. X .032 (1870506) Ring Plant Ball Brg 17MM ID X 40MM OD X 12MM 72 170418 Wassher, HT. 5.1D. X 10D. X .032 (1870506) Ring Plant Ball Brg 17MM ID X 40MM OD X 12MM 72 170418 Risk Hr. 5.1D. X 10D. X .032 (1870506) Risk Hex Flainey Head Screw 5/16-24 X 74 170419 Oil Seal .625 X 1.0 X .25 (1870506) Risk Hr. 5.1D. X 10D. X .032 (1870506) Risk Hr. 5.1D. X .037 (1						
10 170359 Ring - Retaining 68 170414 Arm, Brake 11070360 Spacer 69 170415 Soltide Hex Nut 5/16-24 12 189870 Ring - Retaining 70 170416 Cotter Pin 3/32 X 3/4 13 170361 Seal, Lip. 67 X 1.58 X 276 71 170417 Compression Spring Brake Anti-Drag Washer, H.T. 5 i.D. X 1 O.D. X. 032 16 170362 Hex Flange Head Screw 5/16-24 X 73 142884 Fiat - Washer 11/32 I.D. X 7/8 O.D.						· · ·
11 170360						
12 169870						
170361						
173158						
170362						
17						
17 170363	16	170362	•			
18						
173159 Bearing, 30X52X13 Thrust 77 170422 Puck, 330 X 1.50 X, 0975			Lip Seal 18 X 32 X 7			
23 170365 Check-Plug Assembly, Washer 78 142969 Spring, Helicl Comp						
170366	19	173159	Bearing, 30X52X13 Thrust		170422	
170367	23	170365	Check Plug Assembly, Washer	78	142969	Spring, Helicl Comp
170368	24	170366	Shaft, Motor1	79	142980	Spacer
29	27	170367	Gear - Pinion, 13T	80	150778	Hex Lock Nut 5/16-24 UNJF(Nylon
30 170370 Sor Bull Gear 82 170424 Clip, Washer, 316X1.50X.1046 (Plated)	28	170368	10T/48T GEAR			Insert)
30 170370 Sor Bull Gear 82 170424 Clip, Washer, 316X1.50X.1046 (Plated)	29	170369	Gear, 10T Jackshaft	81	170423	Wedge, Friction Pack
170371 Sleeve Bearing .75 X 1.575 X .625 83 161168 Pin, Standard Headless Sleeve Bearing Sleeve Bearing 84 170426 Hose, Expansion Tank Sleeve Bearing Sl				82	170424	
32 170389 Sleeve Bearing (Outboard).7521.750X.625 85 170425 Fitting, 5/16 Sae 5/32 Tube (Outboard).7521.750X.625 85 170426 Hose, Expansion Tank 33 142991 Washer, 3/4 ID X 1-1/2 OD X.13 THK 87 173160 Cap, Vent 34 170390 Lip Seal Axle Seal 88 170429 Bolt, Self Tapping 10-32 X 1/2 35 170391 Shaft, Axle. 75 X 11.39 (Key, R.H.) 90 170430 Puck, Inner Wedge 36 170392 Shaft, Axle. 75 X 16.99 (Key, L.H.) 93 170431 Spring Clip - Housing Thrust 37 150792 Miter Gear (SPLINED) 107 170432 Deflector 38 150793 Miter Gear 15T (0.5 ID) 108 170433 Washer,Motorshaft 39 150809 Shaft .71IDX1.150DX.030THK 40 170393 Ring, Spiral Retaining 109 170434 Plug, Sae #6 41 170394 Pin, Jackshaft 111 170435 O-ring.07 x .301 I.D. 42 170395 Magnet, Rling 113 170437 Bracket, Support Expansion Tank 43 170396 Spring, Bypass 116 170438 Sillicon Sponge 44 150797 Hydro mtg Screw 3/8-24 X 2.5 Long 119 173161 Fan 45 170398 Base, Filter 120 170440 Pulley 46 170398 Base, Filter 120 170440 Pulley 47 170399 Actuator, Bypass 124 170440 Pulley 48 170400 Rod, Bypass Actuator 123 173163 Bracket Belt Keeper 49 170401 Arm, Bypass 124 170445 Filter Assembly 50 170402 Retaining Ring .250 External 125 170445 Filter Assembly 51 170403 Seal, Lip. 741 X .250 X .250 TC 126 173164 Fan - Pulley Service Aassembly 52 170404 Flat Washer, 5/8 ID X 1.0 OD X .05 THK 127 170447 Seal - O-ring Kit 53 170405 Retaining Ring 128 173165 Kit, Expansion Tank 54 170406 Bearing, Center Block 900 171613 Transaxle, complete 55 142977 Spring - Helical Compression NOTE: All component dimensions given in 50 170407 Brake Yoke U.S. inches 1 inch = 25.4 mm			Sleeve Bearing .75 X 1.575 X .625	83		
(Outboard).75X1.750X.625			-			
33 142991 Washer, 3/4 ID X 1-1/2 OD X .13 THK 87 173160 Cap, Vent 34 170390 Lip Seal Axle Seal 88 170429 Bolt, Self Tapping 10-32 X 1/2 35 170391 Shaft, Axle .75 X 11.39 (Key, R.H.) 90 170430 Puck, Inner Wedge 36 170392 Shaft, Axle .75 X 16.99 (Key, L.H.) 93 170431 Spring Clip - Housing Thrust 37 150792 Miter Gear (SPLINED) 107 170432 Deflector 38 150793 Miter Gear 15T (0.5 ID) 108 170433 Washer, Motorshaft 40 170393 Ring, Spiral Retaining 109 170434 Plug, Sae #6 41 170394 Pin, Jackshaft 111 170435 O-ring .07 x .301 I.D. 42 170395 Magnet, Rling 113 170437 Bracket, Support Expansion Tank 43 170396 Spring, Bypass 116 170438 Sillicon Sponge 44 150797 Hydro mtg Screw 3/8-24 X 2.5 Long 119 173161 Fan 45 170398 Base, Filter 120 170440 Pulley 46 170398 Base, Filter 120 170440 Pulley 47 170399 Actuator, Bypass 124 170444 Center Section-Filter-Bypass Assembly 48 170400 Rod, Bypass Actuator 123 173163 Bracket Belt Keeper 49 170401 Arm, Bypass 124 170444 Center Section-Filter-Bypass Assembly 50 170402 Retaining Ring .250 External 125 170445 Filter Assembly 51 170403 Seal, Lip .741 X .250 X .250 TC 126 173164 Fan - Pulley Service Aassembly 52 170404 Flat Washer, 5/8 ID X 1.0 OD X .05 THK 127 170447 Seal - O-ring Kit 53 170405 Retaining Ring 250 External 128 173165 Kit, Expansion Tank 54 170406 Bearing, Center Block 900 171613 Transaxle, complete 55 142977 Spring - Helical Compression 56 142978 Washer NOTE: All component dimensions given in 57 150798 170407 Brake Yoke U.S. inches 1 inch = 25.4 mm			•			
170390	33	142991				
35 170391 Shaft, Axle .75 X 11.39 (Key, R.H.) 90 170430 Puck, Inner Wedge 36 170392 Shaft, Axle .75 X 16.99 (Key, L.H.) 93 170431 Spring Clip - Housing Thrust 37 150792 Miter Gear (SPLINED) 107 170432 Deflector 38 150793 Miter Gear 15T (0.5 ID) 108 170433 Washer, Motorshaft 39 150809 Shaft						
36 170392 Shaft, Axle .75 X 16.99 (Key, L.H.) 93 170431 Spring Clip - Housing Thrust 37 150792 Miter Gear (SPLINED) 107 170432 Deflector 38 150793 Miter Gear (SPLINED) 108 170433 Washer,Motorshaft 39 150809 Shaft .71IDX1.150DX.030THK 40 170393 Ring, Spiral Retaining 109 170434 Plug, Sae #6 41 170394 Pin, Jackshaft 111 170435 O-ring .07 x .301 l.D. 42 170395 Magnet, Rling 113 170437 Bracket, Support Expansion Tank 43 170396 Spring, Bypass 116 170438 Slilicon Sponge 44 150797 Hydro mtg Screw 3/8-24 X 2.5 Long 119 173161 Fan 45 170397 Flitter 120 170440 Pulley 46 170398 Base, Filter 122 173162 #12 T.F. Screw-lindented Hex Washer 47 170399 Actuator, Bypass 124			•			
37 150792 Miter Gear (SPLINED) 107 170432 Deflector 38 150793 Miter Gear 15T (0.5 ID) 108 170433 Washer,Motorshaft 39 150809 Shaft .71IDX1.15ODX.030THK 40 170393 Ring, Spiral Retaining 109 170434 Plug, Sae #6 41 170394 Pin, Jackshaft 111 170435 O-ring .07 x .301 I.D. 42 170395 Magnet, Rling 113 170437 Bracket, Support Expansion Tank 43 170396 Spring, Bypass 116 170438 Slilicon Sponge 44 150797 Hydro mtg Screw 3/8-24 X 2.5 Long 119 173161 Fan 45 170397 Flitter 120 170440 Pulley 46 170398 Base, Filter 122 173162 #12 T.F. Screw-lindented Hex Washer 47 170399 Actuator, Bypass 124 170440 Pulley 48 170400 Rod, Bypass Actuator 123 173163 Br						
38 150793 Miter Gear 15T (0.5 lD) 108 170433 Washer,Motorshaft 39 150809 Shaft .71IDX1.15ODX.030THK 40 170393 Ring, Spiral Retaining 109 170434 Plug, Sae #6 41 170394 Pin, Jackshaft 111 170435 O-ring. 07 x .301 l.D. 42 170395 Magnet, Rling 113 170437 Bracket, Support Expansion Tank 43 170396 Spring, Bypass 116 170438 Slilicon Sponge 44 150797 Hydro mtg Screw 3/8-24 X 2.5 Long 119 173161 Fan 45 170397 Flilter 120 170440 Pulley 46 170398 Base, Filter 122 173162 #12 T.F. Screw-lindented Hex Washer 47 170399 Actuator, Bypass 124 170440 Pulley 48 170400 Rod, Bypass Actuator 123 173163 Bracket Belt Keeper 49 170401 Arm, Bypass 124 170444 C			· · · · · · · · · · · · · · · · · · ·			
39 150809 Shaft						
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56 142978 Washer NOTE: All component dimensions given in 57 150798 20W-50 OIL72.8 oz U.S. inches 1 inch = 25.4 mm 58 170407 Brake Yoke				900	171613	Transaxle, complete
57 150798 20W-50 OIL72.8 oz U.S. inches 1 inch = 25.4 mm 58 170407 Brake Yoke	55	142977	Spring - Helical Compression			
58 170407 Brake Yoke	56	142978	Washer	NOT	E: All compone	ent dimensions given in
58 170407 Brake Yoke	57	150798	20W-50 OIL72.8 oz	U.S.	inches 1 inch =	25.4 mm
59 170408 Rotor, Brake	58	170407	Brake Yoke			
	59	170408	Rotor, Brake			

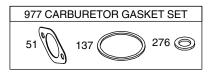


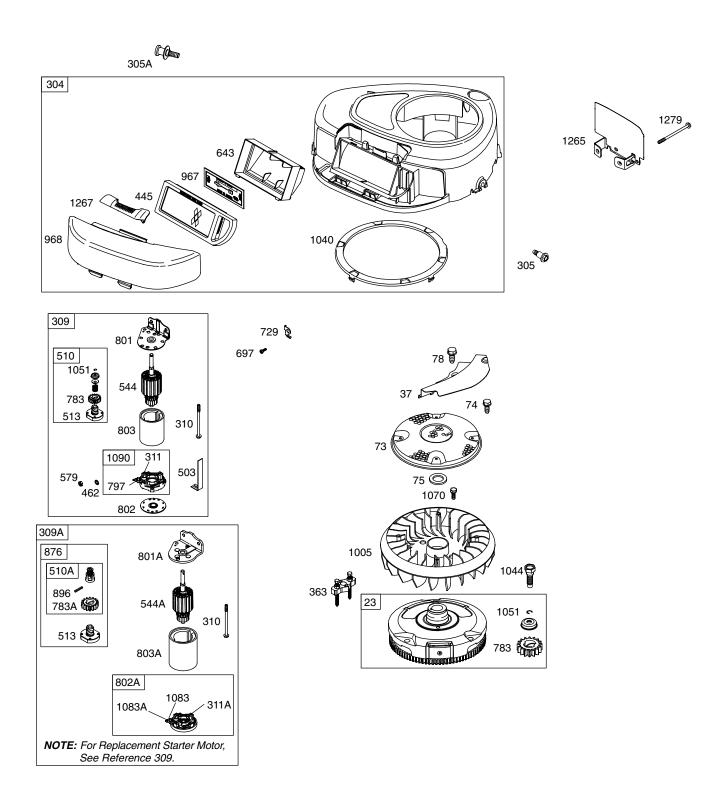












KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	697174	Cylinder Assembly	118	697492	Jet-Main (High Altitude)
2	399265	Kit-Bushing/Seal (Magneto Side)	121	697241	Kit-Carburetor Overhaul
3	391086	Seal-Oil (Magneto Side)	125	697190	Carburetor
4	697106	Sump-Engine	127	695005	Plug-Welch
5	698147	Head-Cylinder	130	691750	Valve-Throttle
7	692410	•+ Gasket-Cylinder Head	131	494379	Kit-Throttle Shaft
9	697109	Gasket-Breather	133	494381	Float-Carburetor
10	697157	Screw (Breather Assembly)	137	281165	؇ Gasket-Float Bowl
11	697113	Tube-Breather	141	495097	Kit-Choke Shaft (Manual Choke)
12	697110	Gasket-Crankcase Gasket-Crankcase	141A	495931	Kit-Choke Shaft (Choke A Matic)
13 15	690360	Screw (Cylinder Head)	142 146	697140	Ø Nozzle-Carburetor
16	690946 697127	Plug-Oil Drain Crankshaft	186	691639 692317	Key-Timing Connector-Hose
20	690947	Seal-Oil (PTO Side)	187	691050	Line-Fuel (Cut to Required Length)
22	692125	Screw (Crankcase Cover/Sump)	188	691693	Screw (Control Bracket)
23	693557	Flywheel	192	691986	Adjuster-Rocker Arm
24	222698	Key-Flywheel	202	691841	Link-Mechanical Governor
25	697159	Piston Assembly (Standard)	209	692208	Spring-Governor
_	697160	Piston Assembly (.010" Oversize)	216	691840	Link-Choke
	697162	Piston Assembly (.020" Oversize)	222	694042	Bracket-Control
	697163	Piston Assembly (.030" Oversize)	227	691374	Lever-Governor Control
26	697164	Ring Set (Standard)	231	691636	Screw (Choke Valve)
	697165	Ring Set (.010" Oversize)	232	691842	Spring-Governor
	697171	Ring Set (.020" Oversize)	238	691843	Cap-Valve
	697172	Ring Set (.030" Oversize)	240	394358	Filter-Fuel
27	697100	Lock-Piston Pin	265	691024	Clamp-Casing
28	697099	Pin-Piston	267	695134	Screw (Casing Clamp)
29	697126	Rod-Connecting (Standard)	276	692255	؇ Washer-Sealing
32 33	692852	Screw (Connecting Rod)	304 305	698402	Housing-Blower
33 34	495856 495857	Valve-Exhaust Valve-Intake	305A	697102 697103	Screw (Blower Housing)
35	691279	Spring-Valve (Intake)	305A	697103	Screw (Blower Housing) Shield-Cylinder
36	691279	Spring-Valve (Intake) Spring-Valve (Exhaust)	307	691003	Screw (Cylinder Shield)
37	697352	Guard-Flywheel	309	693551	Motor-Starter
40	691752	Retainer-Valve	309A		Motor-Starter (For Replacement
43	691968	Slinger-Governor/Oil			Starter Motor, See Reference 309)
45	690564	Tappet-Valve	310	690323	Bolt (Starter Motor)
46	697687	Camshaft	311	497608	Brush Set
48	697761	Short Block (31C707-0230-E2 Replace-	311A	395538	Brush Set
		ment	333	492341	Armature-Magneto
		Engine-art not available)	334	691061	Screw (Magneto Armature)
50	690193	Manifold-Intake	337	491055	Plug-Spark _
51		## Gasket-Intake	358	697191	Gasket Set-Engine
53	690227	Stud (Carburetor)	363	19203	Flywheel Puller
54 72	691148	Screw (Intake Manifold)	DDM	Cattinga	Law Chards 1000 0100
73 74	697384	Screen-Rotating	RPIVI	Settings:	Low Speed: 1900-2100
7 4 75	697987 690582	Screw (Rotating Screen) Washer (Flywheel)			High Speed: 3000-3200
73 78	691003	Screw (Flywheel Guard)	•	Included	in Engine Gasket Set, Key. No. 358
93	690602	Ø Bushing-Throttle Shaft	Ø	Included	in Carburetor Overhaul Kit, Key. No. 121
94	498030	Kit-Idle Mixture	Į.		in Carburetor Gasket Set, Key. No. 977
95	691636	Screw (Throttle Valve)	+		in Valve Gasket Set, Key. No. 1095
98	495800	Kit-Idle Speed			
104	690525	Ø Pin-Float Hinge	NOTE	: All compo	onent dimensions given in U.S. inches
105	231855	Ø Valve-Float Needle		n = 25.4 mm	
106	690577	Ø Seat-Inlet			
108	690464	Valve-Choke (Manual Choke)			
108A	692344	Valve-Choke (Choke A Matic)			
117	694352	Ø Jet-Main (Standard)			

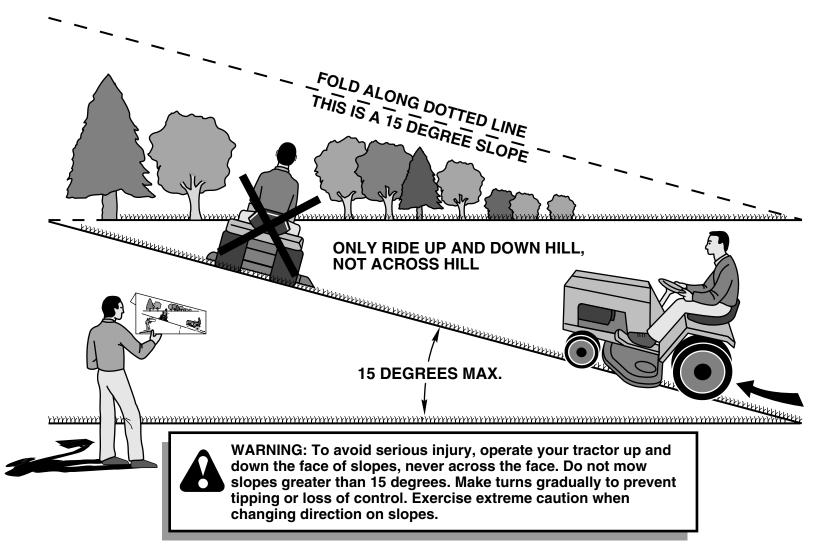
TRACTOR - - MODEL NUMBER 944.604861 BRIGGS & STRATTON ENGINE - MODEL NUMBER 31C707, TYPE NUMBER 0230-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
383	89838	Wrench-Spark Plug	851	692424	Terminal-Spark Plug
404	691691	Washer (Ġovernor Crank)	868	690968	•+ Seal-Valve
431	697122	Elbow-Intake	876	495877	Kit-Pinion Spring
445	698083	Filter-Air Cleaner Cartridge	877	393456	Wire-Connector/Alternator
462	691261	Washer (Starter Cable)	896	691641	Pin-Drive Retainer
474	696459	Alternator	914	690960	Screw (Rocker Cover)
503	691532	Strap-Starter	947	694393	Solenoid-Fuel
505	691251	Nut (Governor Control Lever)	950	691657	Screw (Float Bowl)
510	693699	Drive-Starter	967	697015	Filter-Pre Cleaner
510A	497606	Drive-Starter	968	698403	Cover-Air Cleaner
513	692024	Clutch-Drive	975	495933	Bowl-Float
523	697086	Dipstick	977	690192	Gasket Set-Carburetor
524	691032	Seal-Dipstick Tube	987	691326	Ø Seal-Throttle Shaft
525	697184	Tube-Dipstick	1005	697853	Fan-Flywheel
544	692034	Starter-Armature	1019	697143	Kit-Label
544A	390837	Starter-Armature	1022	272475	•+ Gasket-Rocker Cover
552	697144	Bushing-Governor Crank	1023	692492	Cover-Rocker Arm
562	691119	Bolt (Governor Control Lever)	1026	692003	Rod-Push (Intake)
579	691029	Nut (Starter Cable)	1000	692011	Rod-Push (Exhaust)
584	697112	Cover-Breather Passage	1029	691751	Arm-Rocker
601	95162	Clamp-Hose	1034	690822	Guide-Push Rod
614 616	691620 692012	Pin-Cotter Crank-Governor	1036 1040	695700 698368	Label-Emission Plate-Trim
617	692138	Ø • Seal-O Ring (Intake Manifold)	1040	691658	Screw (Flywheel)
634	690801	Ø Spring/Seal Assembly (Manual Choke)	1051	691265	Ring-Retaining
634A	690802	Ø Spring/Seal Assembly (Choke A Matic)	1051	275038	Owner's Manual
635	691909	Boot-Spark Plug	1070	690372	Screw (Flywheel Fan)
643	698401	Retainer-Air Filter	1083	691626	Nut (Starter Terminal)
654	690958	Nut (Carburetor)		690958	Nut (Starter Terminal)
691	692407	Seal-Governor Shaft	1090	691293	Retainer-Brush
697	690372	Screw (Drive Cap)	1091	691333	Cap-Limiter
718	690959	Pin-Locating	1095	690190	Gasket Set-Valve
729	691224	Clip-Wire	1119	691183	Screw (Alternator)
741	697128	Gear-Timing	1263	697124	Reed-Breather
757	697607	Link-Counterweight	1264	697104	Screw (Breather Reed)
758	697134	Counterweight	1265	697125	Support-Blower Housing
759	697392	Pin-Counterweight	1266	691917	•Ø Seal-O Ring (Intake Elbow)
783	693713	Gear-Pinion	1266A	697123	Ø Seal-O Ring (Intake Elbow)
783A	693059	Gear-Pinion	1267	697575	Latch-Blower Housing
789	698329	Harness-Wiring	1270	697156	Plug-AVS Counterweight
797	693167	Nut (Brush Retainer)	1279	690960	Screw (Blower Housing Support)
801	691283	Cap-Drive			
801A	394856	Cap-Drive	RPM S	Settings:	Low Speed: 1900-2100
802	691286	Cap-End			High Speed: 3000-3200
802A	395537	Cap-End			
803	693757	Housing-Starter	•	Included	in Engine Gasket Set, Key. No. 358
803A	398159	Housing-Starter	Ø		in Carburetor Overhaul Kit, Key. No. 121
830	691095	Stud (Rocker Arm)	‡		in Carburetor Gasket Set, Key. No. 977
842	691031	Seal-O Ring (Dipstick Tube) Provided (Tube Assembly)	+	included	in Valve Gasket Set, Key. No. 1095
847	697611	Dipstick/Tube Assembly	NOTE:	All comp	onent dimensions given in U.S. inches

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

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



- 1. Fold this page along dotted line indicated above.
- 2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
- 3. Sight across the fold in the direction of hill slope you want to measure.
- 4. Compare the angle of the fold with the slope of the hill.

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