

- Service and Adjustments
- Repair Parts

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

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

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mowerrelated 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 buildup 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.

DONOT:

- *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.

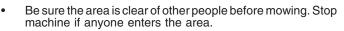
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere 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





- 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

GASOLINE CAPACITY AND TYPE:	4 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 10W-30 motor oil.	the factory with non-synthetic SAE
OIL CAPACITY:	W/FILTER: 4.0 PINTS W/OFILTER: 3.75 PINTS
SPARK PLUG: (GAP: .040")	CHAMPION RC12YC
GROUND SPEED (MPH):	FORWARD: 0 – 5.5 REVERSE: 0 – 2.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	16 AMPS @ 3600RPM
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 centre/department (See RE-PAIR 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 <u>NOT</u> cover:

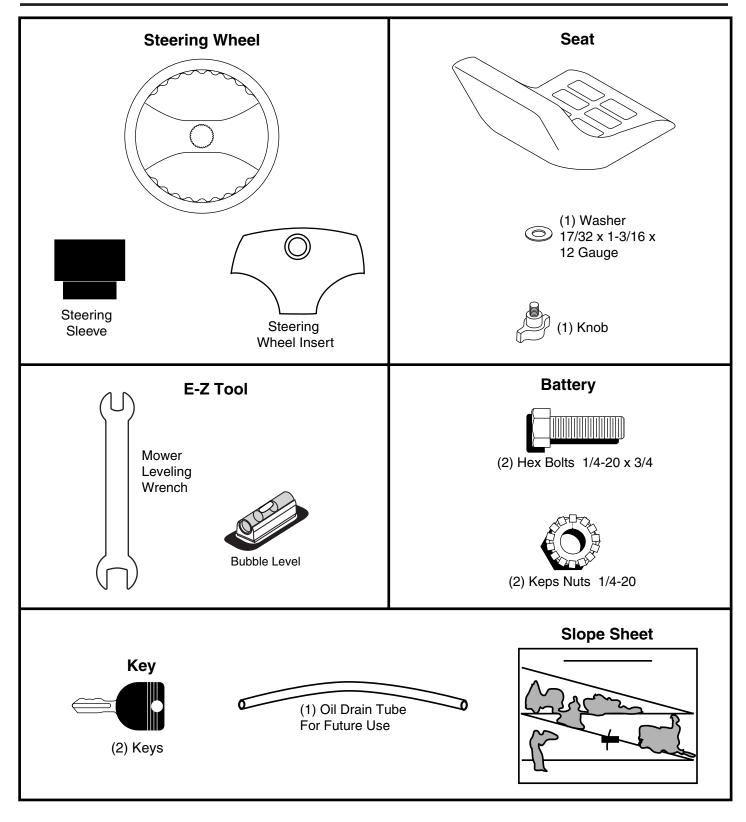
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

- (2) 9/16" wrenches
- Pliers
- (2) 7/16" wrenches(1) 1/2" wrench
- Tire pressure gauge Utility knife
- (1) 3/4" socket w/drive ratchet

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, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (See Fig. 1)

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. 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.

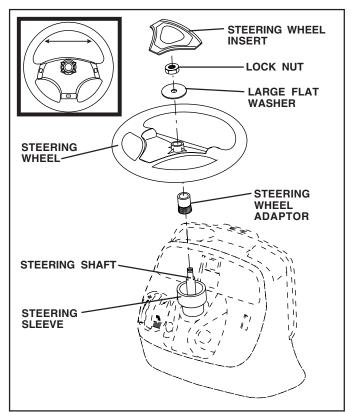


FIG. 1

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Fig. 2)

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

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

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

ASSEMBLY

Use terminal access doors for:

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

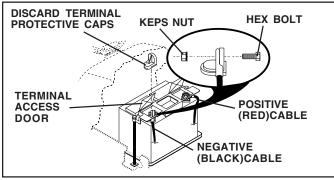
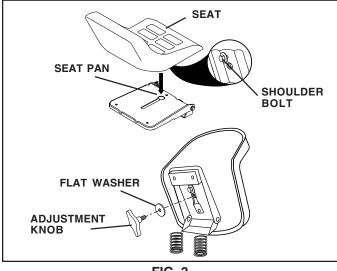


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

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



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

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

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

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

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

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position (see "TO TRANSPORT" in Operation section of this manual).
- Sit on seat in operating position, depress brake pedal and set the parking brake.
- 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 depress forward drive pedal and drive tractor off skid.
- Apply brake to stop tractor and set parking brake.
- Turn ignition key to "STOP" position.

Continue with the instructions that follow.

ASSEMBLY

ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 4A)

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

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

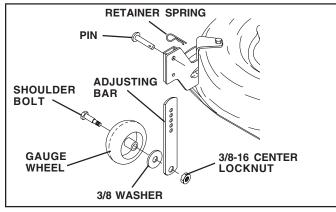


FIG. 4A

INSTALL MULCHER PLATE (See Fig. 4B)

(If previously removed)

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

CAUTION: Do not remove deflector shield from mower.

TO CONVERT TO BAGGING OR DISCHARGING

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

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

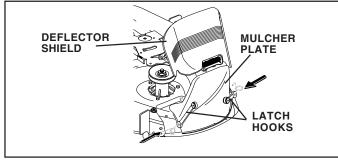


FIG. 4B

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 "TOLEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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





FREE WHEEL (Automatic Models only)

Failure to follow instructions could result in serious injury or

death. The safety alert symbol

is used to identify safety inform-

ation about hazards which can

result in death, serious injury

and/or property damage.

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.

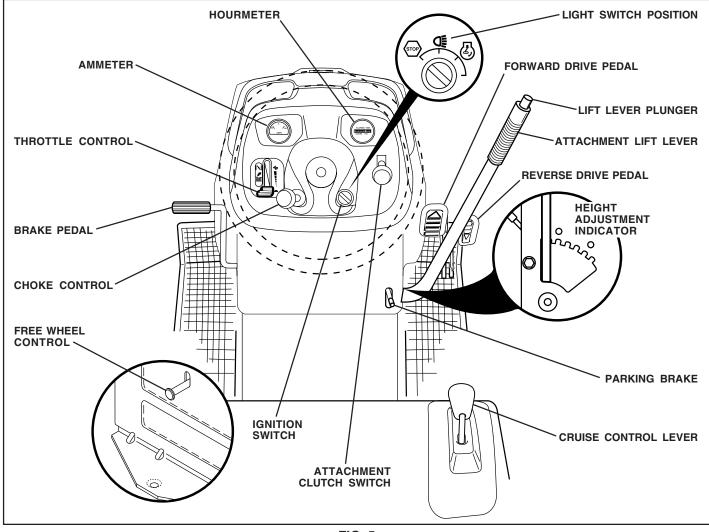


FIG. 5

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

ATTACHMENT CLUTCH SWITCH: Used to engage the mower blades, or other attachments mounted to your tractor. **LIGHT SWITCH POSITION**: Turns the headlights on and off.

THROTTLE CONTROL: Used to control engine speed.

CHOKE CONTROL: Used when starting a cold engine. **BRAKE PEDAL**: Used for 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.

CRUISE CONTROL LEVER - Used to set forward movement of tractor at desired speed without holding the forward drive pedal. **AMMETER:** Indicates charging (+) or discharging (-) of battery.

HOURMETER - Indicates hours of operation.

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.

FORWARD DRIVE PEDAL - Used for forward movement of tractor.

REVERSE DRIVE PEDAL- Used for reverse movement of tractor.

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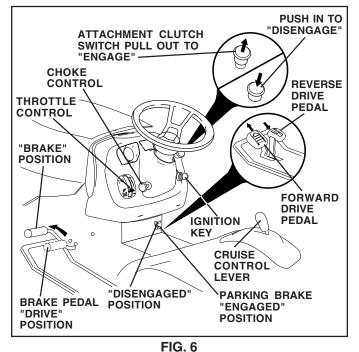
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety 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 brake pedal into full "BRAKE" position and hold. .
- Place parking brake lever in "ENGAGED" position and • release pressure from brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.



STOPPING (See Fig. 6)

MOWER BLADES -

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

GROUND DRIVE -

To stop ground drive, depress brake pedal into full "BRAKE" position.

IMPORTANT: FORWARD AND REVERSE DRIVE PEDALS RETURN TO NEUTRAL POSITION WHEN NOT DEPRESSED.

- 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 USE CHOKE CONTROL (See Fig. 6)

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

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

TO MOVE FORWARD AND BACKWARD (See Fig. 6)

The direction and speed of movement is controlled by the forward and reverse drive pedals.

- Start tractor and release parking brake.
- Slowly depress forward or reverse drive pedal to begin movement. Ground speed increases the further down the pedal is depressed.

TO USE CRUISE CONTROL (See Fig. 8)

The cruise control feature can be used for forward travel only. **SYSTEM CHARACTERISTICS**

The cruise control should only be used while mowing or transporting on relatively smooth, straight surfaces. Other conditions such as trimming at slow speeds may cause the cruise control to disengage. do not use the cruise control on slopes, rough terrain or while trimming or turning.

- With forward drive pedal depressed to desired speed, move cruise control lever forward to "SET" position and hold while lifting your foot off the pedal, then release the cruise control lever.
- To disengage the cruise control, pull the lever backward to "OFF" position, or fully depress the brake pedal.

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.

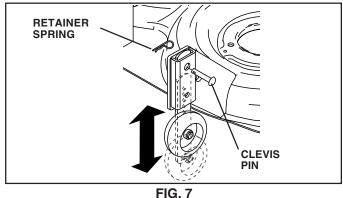
TO ADJUST GAUGE WHEELS (See Fig. 7)

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

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

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

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



TO OPERATE MOWER (See Fig. 8)

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

- Select desired height of cut.
- Start mower blades by engaging attachment clutch control.

 ${\tt TO\,STOP\,MOWER\,BLADES\,-\,disengage\,attachment\,clutch\,control.}$

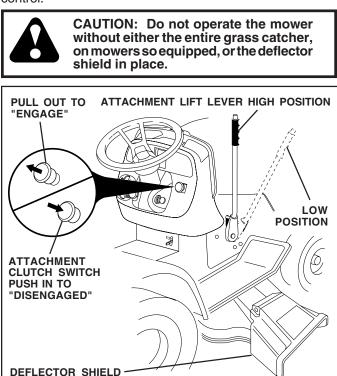


FIG. 8

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 stopping is absolutely necessary, push brake pedal quickly to brake position and engage parking brake.
- To restart movement, slowly release parking brake and brake pedal.
- Slowly depress appropriate drive pedal to slowest setting.
- Make all turns slowly.

TO TRANSPORT (See Figs. 5 and 9)

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 into the slot and release so it is held in the disengaged position.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

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

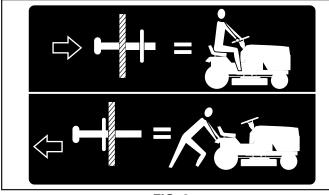


FIG. 9

TOWING CARTS AND OTHER ATTACHMENTS

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

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

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

ADD GASOLINE

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



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

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

CAUTION: Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

TO START ENGINE (See Fig. 5)

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

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION



CAUTION: Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. Disengage parking brake
- Depress forward drive pedal to full forward position, hold for five (5) seconds and release pedal. Depress reverse drive pedal to full reverse position, hold for five (5) seconds and release pedal. Repeat this procedure three (3) times.

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

- Shut- off engine and set parking brake.
- Engage transmission by placing freewheel control in 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. Disengage parking brake.
- Drive tractor forward for approximately five feet then backwards for five feet. Repeat this driving procedure three times.

Your transmission is now purged and now ready for normal operation.

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. 10).
- 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.

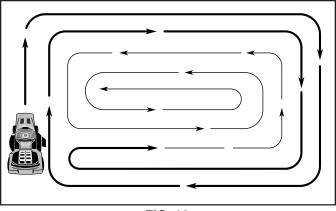


FIG. 10

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 11). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

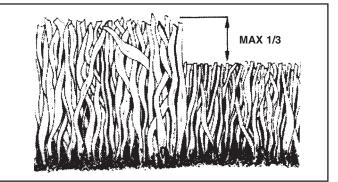


FIG. 11

AS	MAINTENANCE SCHEDUL LL IN DATES YOU COMPLETE GULAR SERVICE	E	BEFORE	EACHUS EVERY P	HOURS	SHOUR SHOUR SERVES	SHOUP VERV	NO HOL	RS SEASON SEFORE	SERVIC	CE DATES
	Check Brake Operation	~	V	Í			Í				
	Check Tire Pressure	~	1								
Т	Check Operator Presence and Interlock Systems	V									
R	Check for Loose Fasteners	~				V 5		V			
A	Sharpen/Replace Mower Blades			V ₃							
C	Lubrication Chart			V				V			
l o	Check Battery Level			V 4							
Ř	Clean Battery and Terminals			1				V			
	Check Transaxle Cooling			/							
	Check V-Belts					1					
	Check Engine Oil Level	~	v								
	Change Engine Oil (with oil filter)				V _{1,2}	2		V			
E	Change Engine Oil (without oil filter)			1 ,2				~			
Ň	Clean Air Filter			V ₂							
Ģ	Clean Air Screen			V 2							
N	Inspect Muffler/Spark Arrester				/						
Ē	Replace Oil Filter (If equipped)					1,2					
 -	Clean Engine Cooling Fins					V 2					
	Replace Spark Plug					1	/				
	Replace Air Filter Paper Cartridge					V 2					
	Replace Fuel Filter						V				

in high ambient temperatures.

2 - Service more often when operating in dirty or dusty conditions.

GENERAL RECOMMENDATIONS

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

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

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

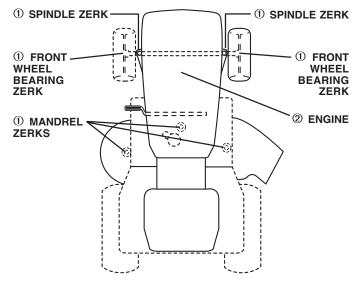
BEFORE EACH USE

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

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

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

LUBRICATION CHART



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

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRI-CANTS 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, POW-DERED 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.

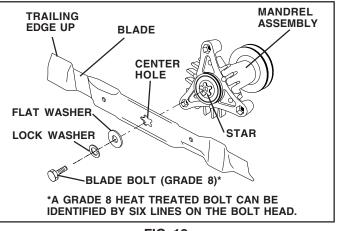
BLADE REMOVAL (See Fig. 12)

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

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

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.





TO SHARPEN BLADE (See Fig. 13)

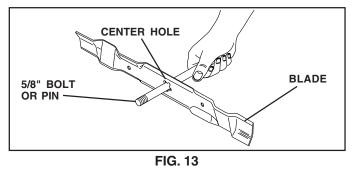
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer.)

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

• Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.



BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

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

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "CONNECT BATTERY" in the Assembly section of this manual).

V-BELTS

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

TRANSAXLE COOLING

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

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

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

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature. When operating in temperatures below 0° F (-18° C) synthetic oil must be used.

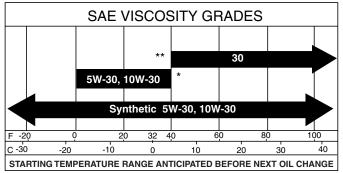


FIG. 14

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

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



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

Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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

TO CHANGE ENGINE OIL (See Fig. 15)

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

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

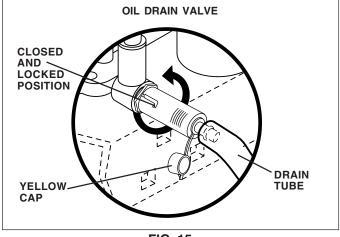


FIG. 15

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

• Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

CLEAN AIR SCREEN

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

CLEAN AIR INTAKE/COOLING AREAS

To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

ENGINE OIL FILTER

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

AIR FILTER (See Fig. 16)

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

Service air cleaner more often under dusty conditions.

- Remove knobs and cover.
- TO SERVICE PRE-CLEANER
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- TO SERVICE CARTRIDGE
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall precleaner cartridge, cover and secure with knobs.

IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

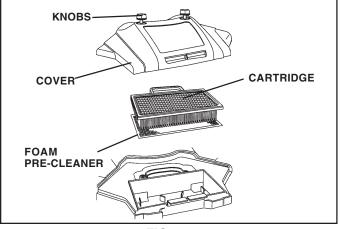


FIG. 16

MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" section of this manual.

IN-LINE FUEL FILTER (See Fig. 17)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

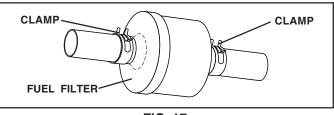


FIG. 17

CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER (See Fig. 18)

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

- Place attachment clutch switch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off electric clutch pulley.
- Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links.

TO INSTALL MOWER (See Fig. 18)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- Lower lift lever to its lowest position.
- Connect front links to mower deck and secure with retainer springs..
- Connect suspension arms to rear deck brackets and secure with retainer springs.
- Connect anti-swaybar to chassis bracket and secure with retainer spring.
- Install belt into electric clutch pulley groove.

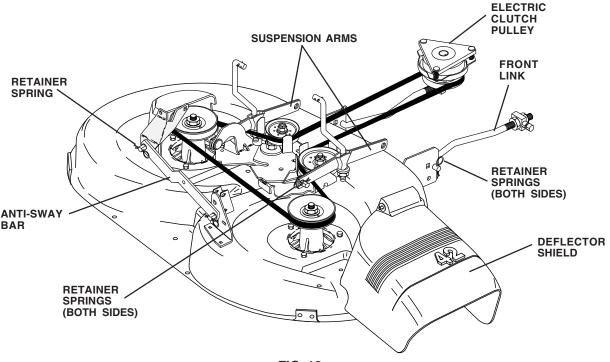


FIG. 18



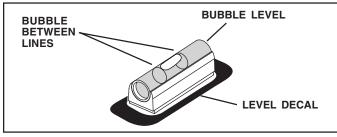
TO LEVEL MOWER HOUSING

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

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

NOTE: If necessary, check side-to-side surface below tractor for levelness with a long board and the bubble level.

- Using the lift lever, place mower in position where no part of the mower, including gauge wheels, is touching the ground.
- From left side of tractor, find the level decal on top of mower and place bubble level on decal as indicated.
- Mower is level side-to-side when bubble is between the two lines in the bubble level.
- If adjustment is necessary, under left hand footrest, turn lift link adjustment nut (above yellow cap) in appropriate direction to bring bubble between the lines in the bubble level.
- Remove bubble level from mower and store in a safe place.





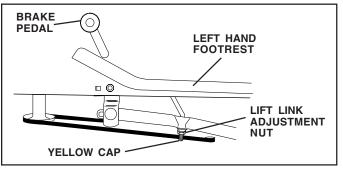


FIG. 20

ALTERNATE SIDE-TO-SIDE ADJUSTMENT METHOD (See Figs. 21 and 22)

- 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.

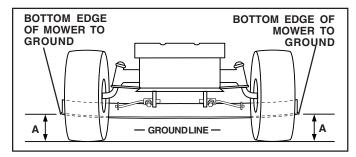


FIG. 21

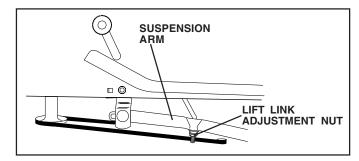


FIG. 22

FRONT-TO-BACK ADJUSTMENT (See Figs. 23 and 24)

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

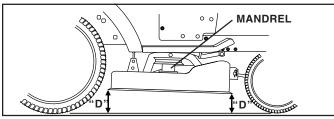


FIG. 23

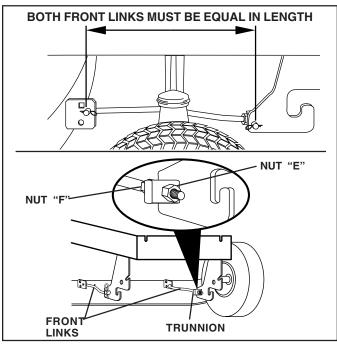


FIG. 24

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 25)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of manual).
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Work belt around both mandrel pulleys and idler pulleys.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower (See "To Install Mower" in this section of manual).

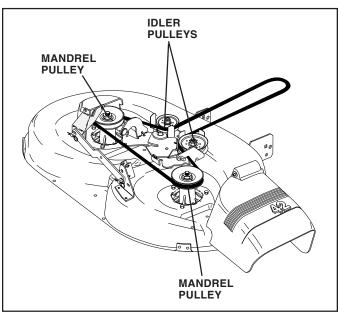


FIG. 25

TO CHECK AND ADJUST BRAKE (See Fig. 26)

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

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

TO CHECK BRAKE

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

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

TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". 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.

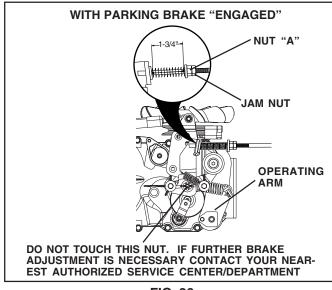


FIG. 26

TO REPLACE MOTION DRIVE BELT (See Fig. 27)

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

BELT REMOVAL -

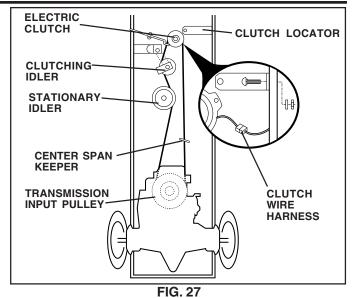
Remove mower (See "TO REMOVE MOWER" in this section of manual).

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

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

BELT INSTALLATION -

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



TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMIS-SION" 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.

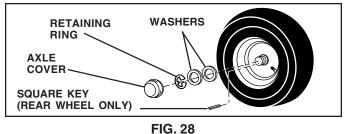
FRONT WHEEL TOE-IN/CAMBER

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. 28)

- 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.



TO START ENGINE WITH A WEAK BAT-TERY (See Fig. 29)



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. 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.

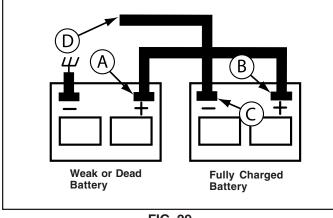


FIG. 29

TO REPLACE HEADLIGHT LAMP



CAUTION: When lit, the halogen lamps get extremely hot. Hold lamp assembly by the holder and do not touch the bulb.

- Raise hood.
- Disconnect harness from lamp assembly.
- Rotate counterclockwise and pull lamp assembly out of the hole in the backside of the grill.
- Insert new lamp assembly and rotate clockwise to lock.
- Reconnect harness to lamp assembly.
- 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. 30)

- 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.

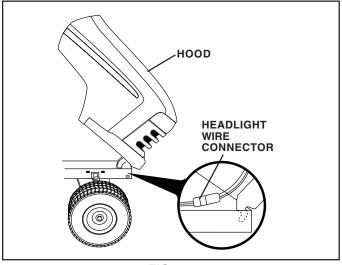


FIG. 30

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 31)

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

- With engine not running, move throttle control lever to fast position.
- Check that swivel is against stop. If it is not, loosen cable clamp screw and pull cable back until swivel is against stop. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL (See Fig. 32)

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

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

TO ADJUST CARBURETOR

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your tractor to an authorized service center for repair and/or adjustment.

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

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT A SEARS OR OTHER QUALIFIED SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

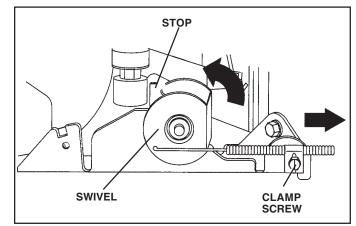


FIG. 31

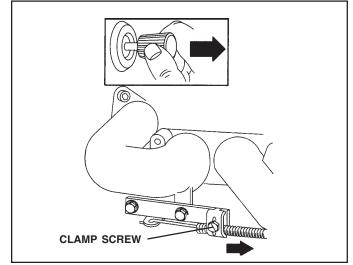


FIG. 32

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.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual).

CYLINDER(S)

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

OTHER

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

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

TROUBLESHOOTING POINTS

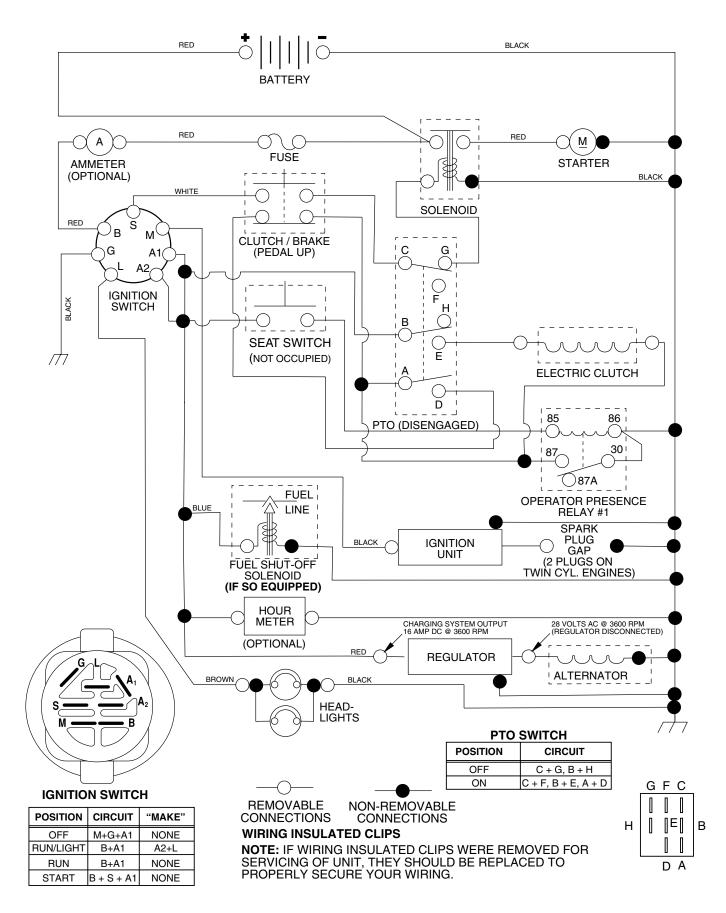
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in the Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in the Service and Adjustments section. Contact an authorized service center/department.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "TO ADJUST CARBURETOR" in the Service and 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. 	 Set in "Higher Cut" position/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "TO ADJUST CARBURETOR" in the Service and Adjustments section. Contact an authorized service center/department.
Excessive vibration1. Worn, bent or loose blade.2. Bent blade mandrel.3. Loose/damaged part(s).		 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION			
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	 Check wiring, switches and connections. If not corrected, contact an authorized service center/ department. 			
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes. 			
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel. 			
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes. 			
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse. 			
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator. 			
Loss of drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken. Air trapped in transmission during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission. 			
Engine "backfires" when turning engine "OFF"	 Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	 Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine. 			

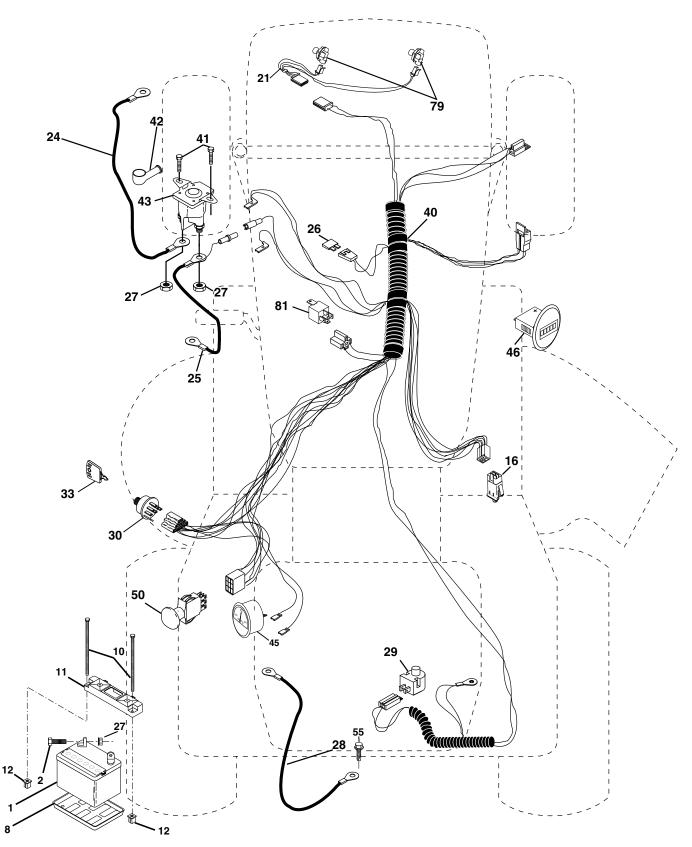
TRACTOR - - MODEL NUMBER 944.602011

SCHEMATIC



TRACTOR - - MODEL NUMBER 944.602011

ELECTRICAL



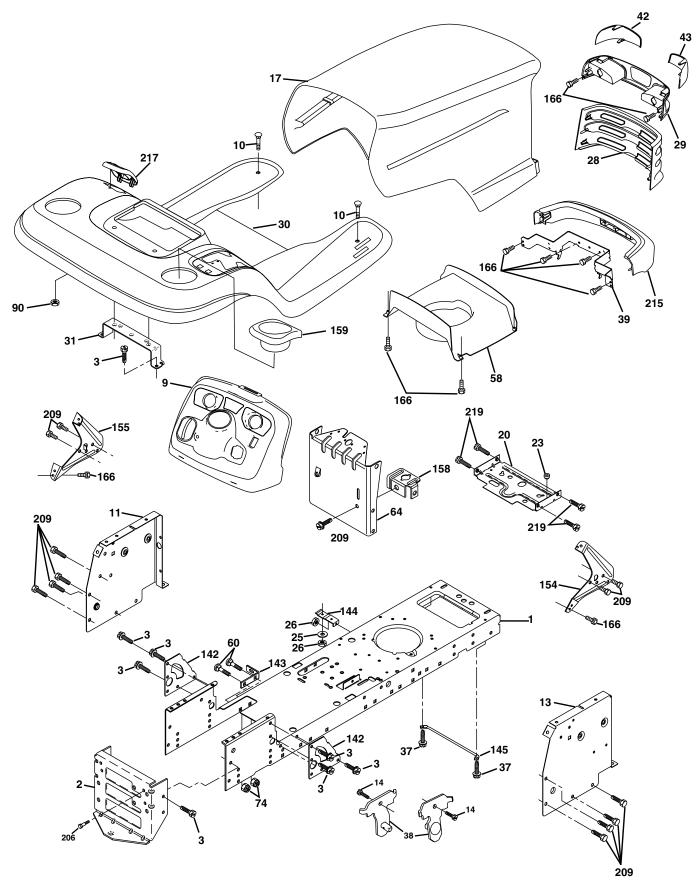
TRACTOR - - MODEL NUMBER 944.602011

ELECTRICAL

KEY NO.		DESCRIPTION
1 2 8 10 11 24 25 26 27 28 29 30 33 40 41 23 55 79 81	175158	Battery 12 Volt 28 Amp Bolt Hex Hd 1/4-20unc X 3/4 Tray Battery Bolt Btr Frt 1/4-20 x 7.5 Holddown Battery Front Mount Nut Push Nylon 1/4" Battery Switch Interlock Harness Asm Light Cable Battery 6 Ga 17"red Cable Battery 6 Ga 17"red Cable Battery 6 Ga w/16 wire,red Fuse Nut Keps Hex 1/4-20 Unc Cable Ground Switch Plunger OP Olive Switch Ign Key Ign Harness Ign Bolt Blk Fin Hex 1/4-20 Unc x 1/2 Cover Terminal Red Solenoid Ammeter Hourmeter Switch PTO Screw Thdrol 5/16-18 x 1/2 Bulb Holder Asm. Halogen Relay Asm.

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

TRACTOR - - MODEL NUMBER 944.602011 CHASSIS AND ENCLOSURES



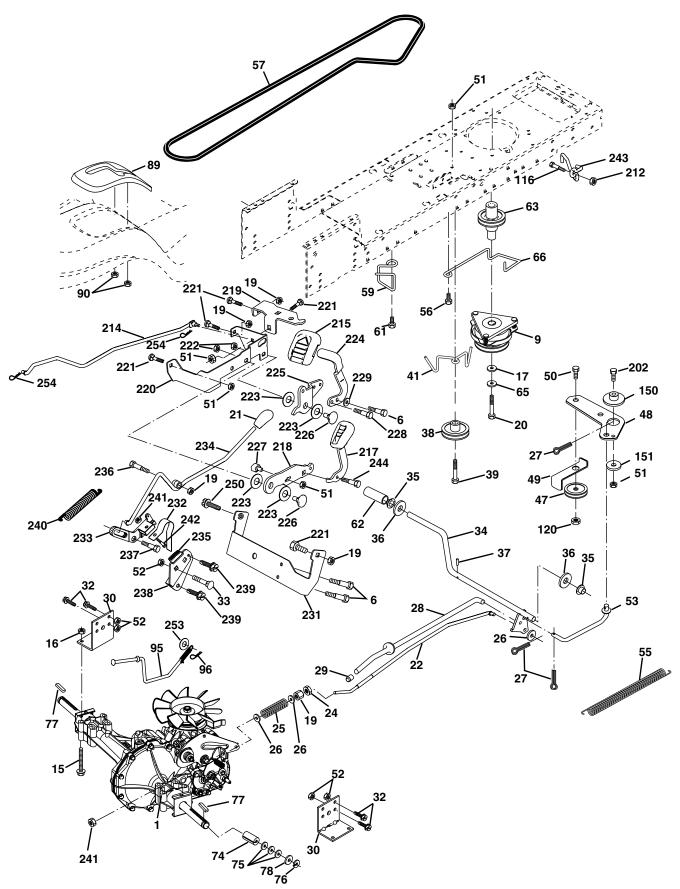
TRACTOR - - MODEL NUMBER 944.602011 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	174619	Chassis
2	176554	Drawbar
3	17060612	Screw, 3/8-16 x 3/4
9	172542X418	Dash Balt 0/0 10 x 1
10 11	72140608 174996	Bolt 3/8-16 x 1 Panel, Dash, LH
13	179174X010	Panel, Dash, RH
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	174989	Hood Assembly
20	180679	Plate Battery
23	124028X	Bushing Snap
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28 29	174945X418 174944X418	Grille Lightbox Dual
30	179131X615	Fender/Footrest
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	175710	Bracket Asm Pivot Mower Rear
39	174988	Bracket Pivot Hood
42	172545X599	LensLh
43	172544X599	Lens Rh
58 60	174993 STD533707	Duct Hood Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	174997	Dash Lower
74	STD541437	Nut Crownlock 3/8-16 UNC
90	124346X	Nut Self-Thd. Wsh-Hd 1/4
142	175702	Plate Reinforcement
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Footrest
145	156524	Rod Pivot Chassis/Hood
154 155	174679 174680	Bracket Dash Rh Bracket Dash Lh
158	162037	Parking Brake Bkrt
159	179950X418	Cupholder Stl Gray
166	164863	HŴHDH:-Lo. #13-16x3/4
206	170165	Bolt Shoulder 5/16-18
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
215	172543X615	Bumper
217 219	179132X418 17000512	Console Shift Screw 5/16-18 x 3/4
		ant dimensions given in LLS inches

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

TRACTOR - - MODEL NUMBER 944.602011

DRIVE



TRACTOR - - MODEL NUMBER 944.602011

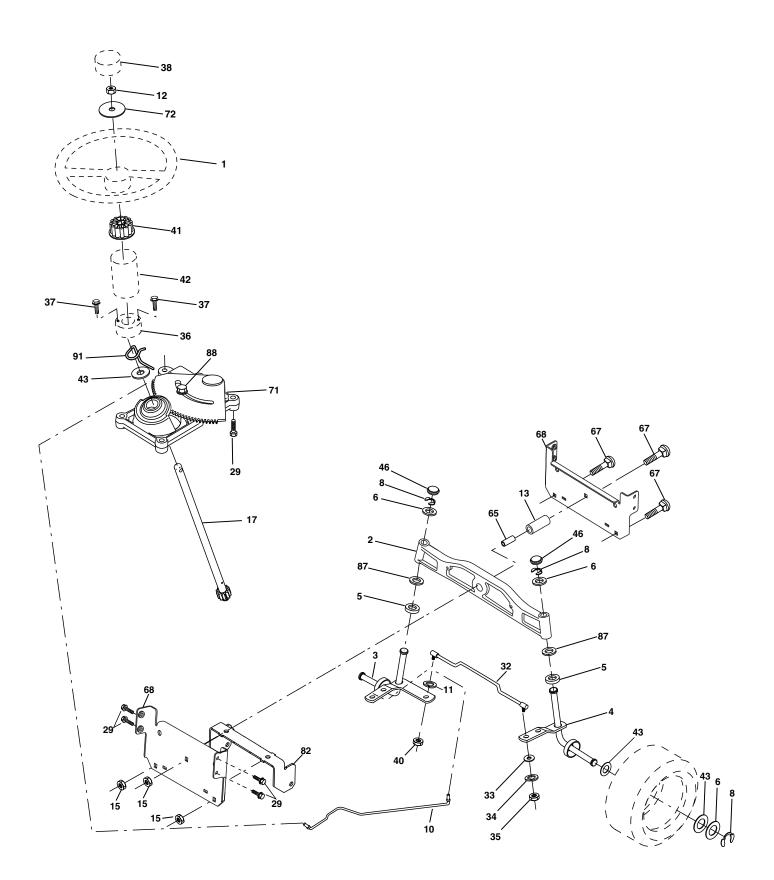
DRIVE

Key No.	Part No.	DESCRIPTION
1		Transaxle (See Breakdown) Hydro gear Model 323-0510
6 9 15 16 17	17060512 137140 74490544 73800500 126197X	Screw 5/16-18 Clutch Elec Bolt Hex Flghd 5/16-18 Gr. 5 Nut Lock Hex W/Ins. 5/16-18 Unc Washer 1-1/2 OD x 15/32 ID x .250
19 20 21 22 24 25	73800600 150280 175036X505 175896 73350600 106888X	Nut Lock Hex W/Wsh 3/8-16 Unc Bolt Hex 7/16-20 x 4 x Gr. 5-1.5 Knob Custom Control Cruise Rod, Brake Nut, Hex Jam 3/8-16 Unc Spring, Brake Rod
26 27 28 29 30 32 33 34	19131316 76020412 179607 179608X505 169592 74760512 72140506 175578	Washer Pin Cotter 1/8 x 3/4 CAD. Rod, Parking Brake Knob Brake Parking Bracket, Transaxle Bolt Hex Hd 5/16-18 Unc x 3/4 Bolt Rdhd Sqnk 5/16-18 Unc x 3/4 Shaft, Foot Pedal
35 36 37 38 39 41 47 48 49 50	120183X 19211616 1572H 179114 74760648 175556 127783 154407 123205X 74760624	Bearing, Nylon Washer Pin, Roll Pulley, Composite, Flat Bolt Fin Hex 3/8-16 Unc x 3 Keeper, Belt Idler Flat Pulley, Idler, V-Groove Bellcrank Clutch Grnd Drw Stl Retainer, Belt Bolt
50 51 52 55 56 57 59 61 62 63 66 64 75	73680600 73680500 105710X 105709X 17060620 140294 169691 17120614 123533X 175417 10040700 154778 137057 121749X	Bolt Nut Crownlock 3/8-16 UNC Nut, Crownlock 5/16-18 Unc Link, Clutch Spring, Return, Clutch Screw 3/8-16 x 1-1/4 V-Belt, Ground Drive Keeper, Center Span Screw 3/8-16 x .875 Cover, Pedal Pulley, Engine Washer Keeper Belt Engine Spacer, Axle Washer 25/32 x 1-1/4 x 16 Ga.
76	12000001	E-Ring

KEY NO.	Part No.	DESCRIPTION
NO. 77 78 89 90 95 96 116 120 150 151 202 212 214 215 217 218 219 220 221 222 223 224 225 226 227 228 229 231 232 233 234 235 236 237 238 239 240 241 242 243 244 250 251 256 257 258 239 240 241 255 256 257 258 259 259 259 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 252 253 254 255 256 257 258 259 231 232 233 234 235 236 237 238 239 240 241 255 256 257 258 259 257 258 259 251 256 257 258 259 257 258 259 257 258 259 251 255 256 257 258 259 257 258 259 257 258 259 257 258 259 257 258 257 258 259 250 257 258 259 257 258 259 257 258 259 250 257 258 259 250 257 258 259 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 256 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 250 257 258 259 250 250 257 258 259 250 250 250 257 258 259 250 250 250 250 257 258 259 250 250 250 250 250 250 250 250	NO. 123583X 121748X 174901X418 124346X 180825 4497H 72140608 73900600 175456 19133210 72110612 145212 174735 175646 179433 174713 174839 174713 174839 174711 72140606 73680700 174840 174712 174902 174710 179032 176451 174573 175570 174856 174858 174857 128903 170165 175807 17490508 175610 73930400 74780412 176212 17622 17722 17622 17722 17	DESCRIPTION Key, Square Washer 25/32 x 1-5/8 x 16 Ga. Console, Shift Nut Self-Thd Wsh-hd 1/4 Zinc Rod Bypass Retainer Spring 1" Zinc/Cad Bolt RDHD SQNK 3/8-16 Unc x 1 Nut Lock Flg 3/8-16 Unc Spacer Retainer Washer 13/32 x 2 x 10 Ga. Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5 Nut HexFlange Lock Link Transaxle Cover Pedal Forward Pedal Reverse Arm Control Pedal Reverse Bracket Frest Pdl Ctrl. Hyd Bracket Mtg. Pedal Control Bolt Rdhd Sqnk 3/8-16 Unc x 3/4 Nut Crownlock 7/16-14 Unc Washer Nylon 11/16 ID x .060 Pedal Forward Arm Control Pedal Forward Bolt Pivot Spacer Cam Reverse Pedal LT Bolt Shoulder 5/16-18 Washer Serrated 5/16 x .75 Strap Torque Actuator Cruise Disengage Pawl Control Cruise Lever Control Cruise Bolt Shoulder 3/8-16 Unc 1/44 Bolt Shoulder 5/16-18 Arm Mtg. Cruise Sector Screw Thdrol 5/16 x 1/2 Spring Return Cruise Control Nut Centerlock 1/4-20 Unc Bolt Fin Hex 1/4-20 x .75 Bracket Anti-Rotation CVX Screw 5/16-18 x 5/8 Screw 3/8-16 x .75 Washer .3125 x .615 x 16 Gr.
254	178062	Clip Retainer

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

TRACTOR - - MODEL NUMBER 944.602011 STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.602011

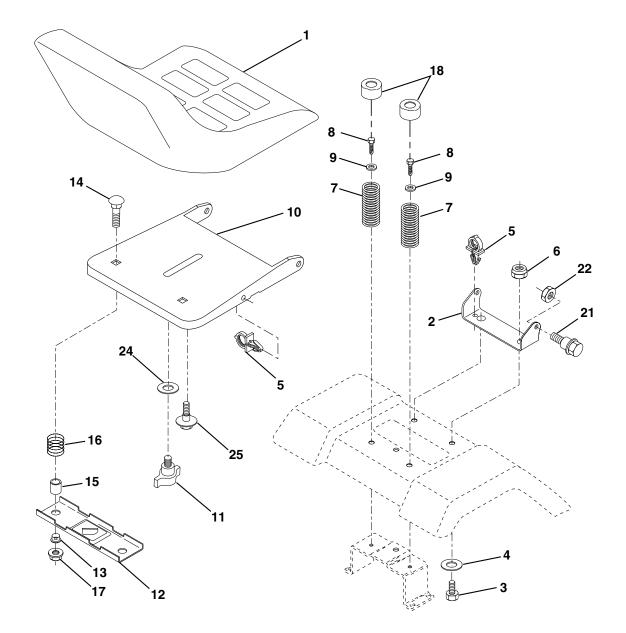
STEERING ASSEMBLY

KEY		
NO.	NO.	DESCRIPTION
1 2 3 4 5 6 8 10 11 12 13 15 17 99 22 33 24 55 66 77 84 14 24 34 66 67 68 17 12 82 78 88 91	175139X418 172393 169840 169839 6266H 121748X 12000029 175121 STD551137 73940800 136518 145212 177883 17060612 170162 19111216 10040500 73540500 155105 152927 175140X418 STD541537 159945 174530X418 121749X 121232X 160367 72140618 169827 175146 19182411 169835 173966 175118 175553	Wheel Steering Axle Asm Spindle Asm LH Spindle Asm RH Bearing Race Thrust Harden Washer 25/32 X 1-5/8 X 16 Ga Ring Klip #t5304-75 Link Drag Washer Lock Hvy HIcl Spr 3/8 Nut Hex Jam Toplock 1/2-20 Unf Spacer Bearing Axle Front Nut Hex Flange Lock Shaft Asm. Steering Screw 3/8-16 x 3/4 Rod Tie Washer 11/32 x 3/4 x 16 Ga. Washer Lock HIcl Spr 5/16 Crownlock Nut 5/16-24 Unf Bushing Strg Screw Insert Cap Strg Wh Lock nut Center 3/8-24 Adaptor Wheel Strg Boot Steering Washer 25/32 1 1/4 X 16 Ga Cap Spindle Fr Top Blk Spacer Brace Axle Bolt, Rdhd Sq 3/8-16 Unc x 2-1/4 Axle, Brace Steering Asm. Washer 9/16 ID x 1-1/2 OD 11Ga. Bracket Susp. Chassis Front Washer Flat .781 x 1-1/2 x .15 Bolt Shoulder 7/16-20 Unc Clip Steering
NOTE	 All compone 	ent dimensions given in U.S. inches

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

TRACTOR - - MODEL NUMBER 944.602011

SEAT ASSEMBLY



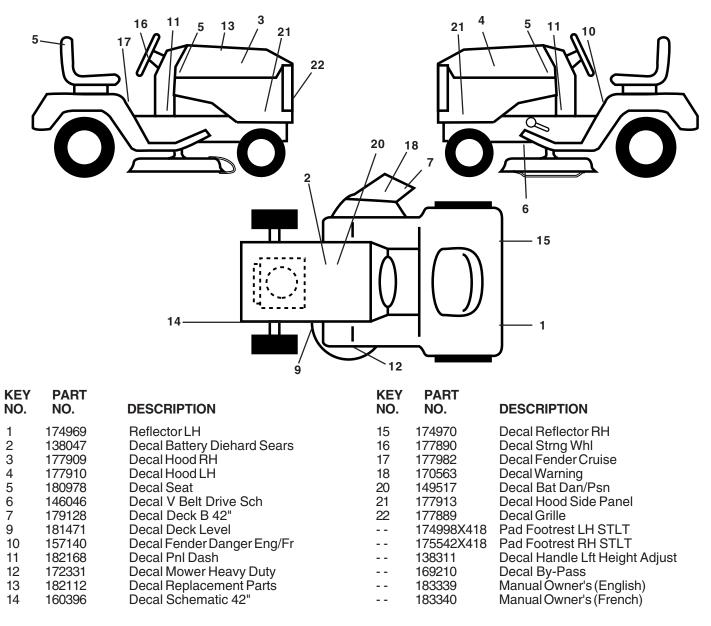
Key No.	PART NO.	DESCRIPTION
1	175134	Seat
2	140551	Bracket Pivot Seat 8 720
3	STD523710	Bolt Fin Hex 3/8-16unc X 1
4	19131610	Washer 13/32 X 1 X 10 Ga
5	145006	Clip Push-In
6	STD541437	Nut Hex w/Ins. 3/8-16 Unc
7	124181X	Spring Seat Cprsn
8	17000616	Screw 3/8-16 X 1-1/2
9	19131614	Washer 13/32 X 1 X 14 Ga.
10	182493	Pan Seat
11	177957	Knob Seat Adj. Wingnut
12	121246X	Bracket Mounting Switch

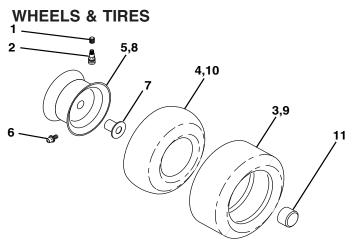
KEY PART			
	NO.	NO.	DESCRIPTION
	13 14 15 16 17 18 21 22 24	121248X 72050412 121249X 123740X 123976X 124238X 171852 STD541431 19171912	Bushing Snap Blk Nyl 50 Id Bolt Rdhd Sqnk 1/4-20x1-1/2 Spacer Split 28x .88 Zinc Spring Cprsn Plate 1.310 Ga Nut Lock 1/4 Lge Flg Gr 5 Zinc Cap Spring Seat Bolt Shoulder 5/16-18 Unc Nut Hex Lock W/Ins 5/16-18 Washer 17/32 X 1-3/16 X 12 Ga.
	25	127018X	Bolt Shoulder 5/16-18 X 62
	ΝΟΤΕ		nt dimonsions given in LLS inches

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

TRACTOR - - MODEL NUMBER 944.602011

DECALS





KEY NO.	PART NO.	DESCRIPTION			
1	59192	Cap Valve Tire			
2	65139	Stem Valve			
3	177750	Tire F Ts 15 X 6 0 - 6 Service			
4	59904	Tube Front (Service Item Only)			
5	106732X417	Rim Asm 6"front Service			
6	278H	Fitting Grease (Front Wheel Only)			
7	9040H	Bearing Flange (Front Wheel Only)			
8	106108X417	Rim Asm 8"rear Service			
9	177751	Tire R Ts 20x10-8 C Service			
10	7152J	Tube Rear (Service Item Only)			
11	104757X417	Cap Axle Blk 1 50 X 1 00			
	144334	Sealant, Tire (10 oz. Tube)			
NOT	NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm				

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160589

159955

171877

162797

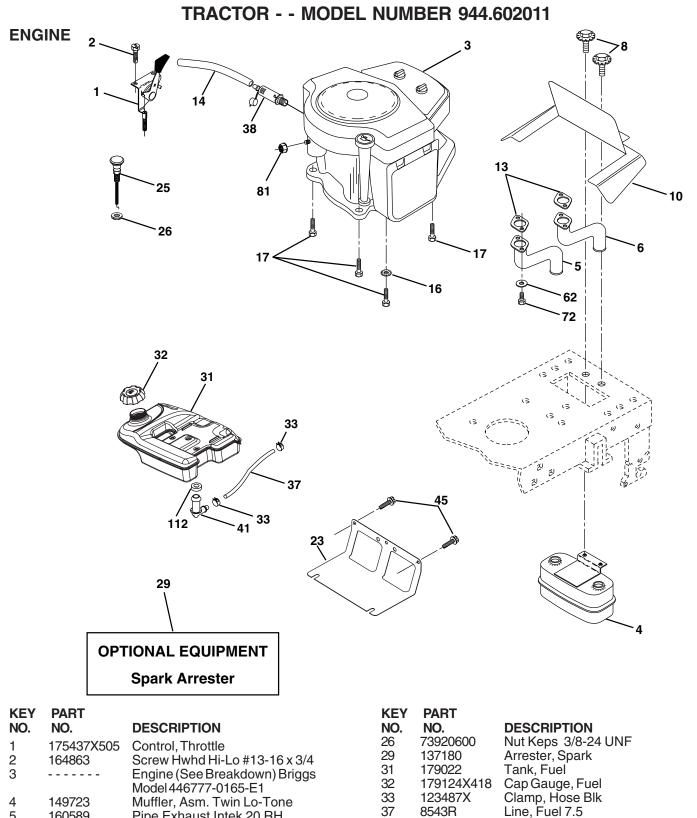
165391

148456

169837

STD551237

17060624



62
72
81

38

41

45

112

Pipe Exhaust Intek 20 RH

Pipe Exhaust Intek 20 LH

Washer, Lock Ext tooth 3/8

Screw Thdrol 3/8-16 x 1-1/2

Shield, Browning/Debris Guard

Bolt 5/16-18 UNC x 3/4

Shield Heat

175440X505 Control Choke

Muffler Gasket

Tube Drain Oil Easy

3645J Bushing All component dimensions given in U.S. inches NOTE: 1 inch = 25.4 mm

Plug, Drain Oil Easy

Screw Hex Wsh Thdrol 3/8-16 x 3/4

Washer Lock Hvy Hlcl Spr 5/16

Nut Keps Hex 1/4-20 Unc

Screw Hex Hd Cap 5/16-18 x 3/4

Stem Tank Fuel

148315

139277

17000612

10040500

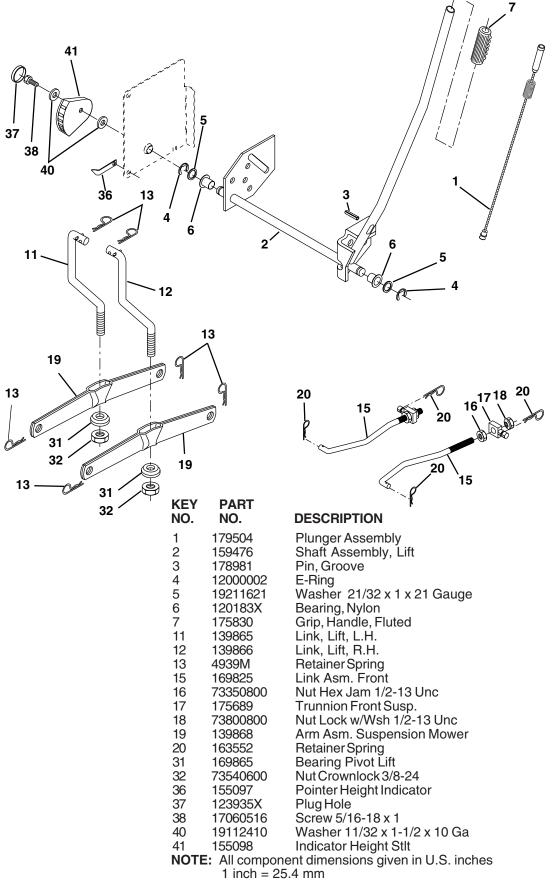
71070512

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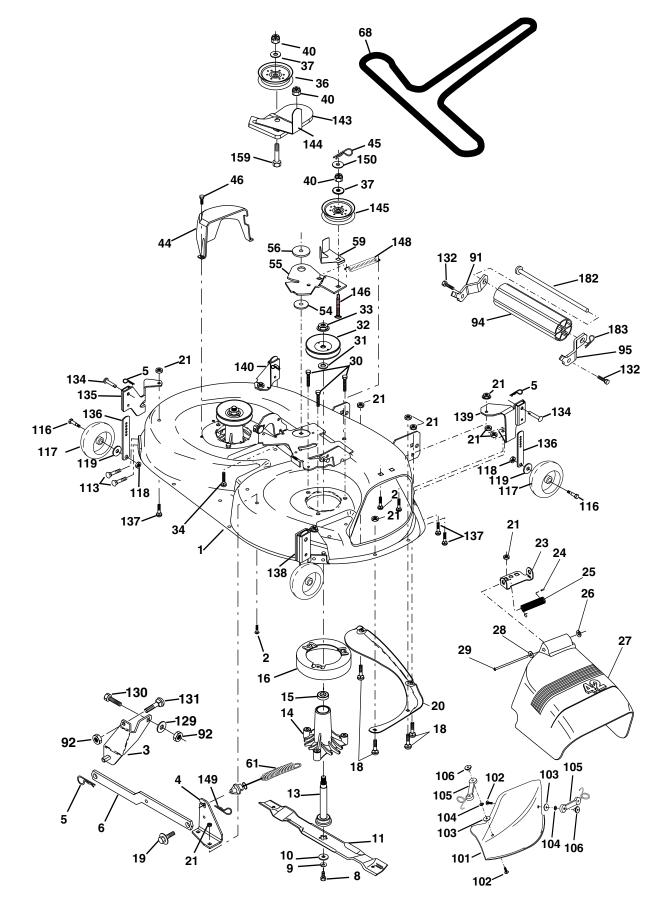
TRACTOR - - MODEL NUMBER 944.602011

MOWER LIFT



TRACTOR - - MODEL NUMBER 944.602011

MOWER DECK

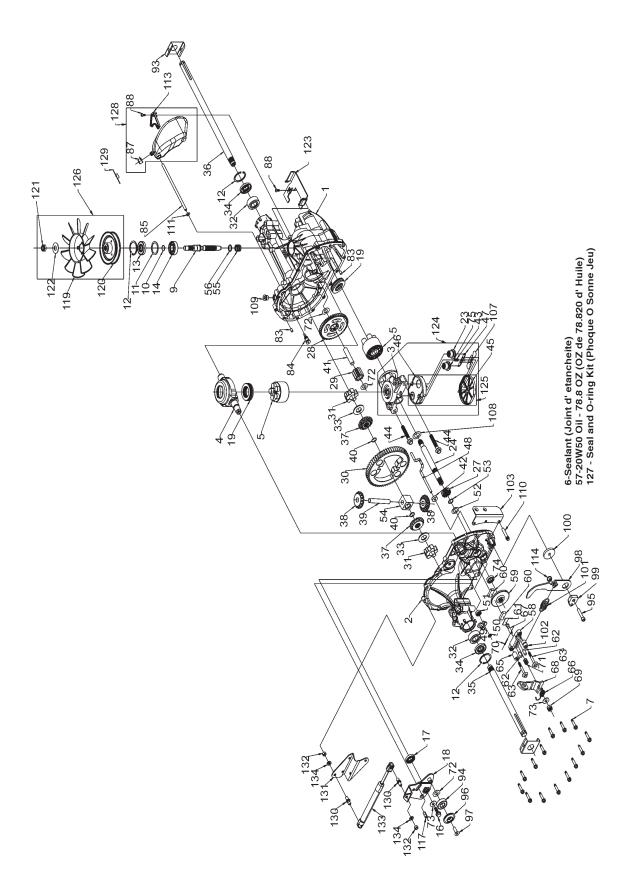


TRACTOR - - MODEL NUMBER 944.602011

MOWER DECK

Key No.	PART NO.	DESCRIPTION	Key No.	Part No.	DESCRIPTION
1 2 3 4 5 6 8 9 10 11 13 14 15 16 18 19 20 123 24 25 26 27 28 29 30 132 33 4 36 37 04 4 56 56 59 61 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 13 14 56 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	182032 72140506 138017 165460 4939M 178024 850857 10030600 140296 139775 138498 137645 128774 110485X 174493 72140505 132827 159770 73680500 177563 105304X 123713X 110452X 130968X428 19111016 131491 173984 129963 153535 178342 72110614 131494 19131316 73680600 140088 4497H 137729 133943 155046 165723 141043 174882	Mower Deck Assembly, 42" Bolt Bracket Asm Fr. Sway Bar 3/42 Bracket Asm Deck 42" Sway Bar Retainer Spring Bar Sway Deck Bolt 3/8-24 x 25 Grade 8 patched Washer, Lock Washer, Hardened Blade, Mulching Premium Blade Mower 42" Hi-Lift Std Shaft Assembly, Mandrel, Vented Housing, Mandrel, Vented Bearing, Ball, Mandrel Stripper, Mandrel Deck Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder Baffle, Vortex Nut Bracket, Deflector Cap, Sleeve 80 x 112 Blk Mower Spring, Torsion, Deflector 2 52 Nut, Push Phos & Oil Shield, Deflector 42" Blk Washer 11/32 x 5/8 x 16 Gauge Rod, Hinge 42" 6 75 W/G Screw Thdrol Washer Head asher, Spacer Mower Vented Pulley, Mandrel Nut, Toplock Flange Bolt Pulley, Idler, Flat Washer 13/32 x 13/16 x 16 Gauge Nut Guard, Mandrel, LH Retainer Screw, Thdrol 1/4-20 x 5/8 T Washer, Hardened Arm, Idler Spacer, Retainer Guard TUV Idler Spring Ext. Elect Clutch	90 91 92 94 95 101 102 103 104 105 106 116 117 118 119 129 130 131 132 134 135 136 137 138 139 140 143 144 145 146 148 149 150 159 182 183 	74760616 180532 73800600 132264 180533 136420 71081010 19061216 10071000 160793 2029J 4898H 165746 73930600 19121414 19131312 74780616 72140608 17060612 156941 155989 155986 72110505 155992 159644 159643 157109 158634 165888 171977 169022 165898 19091216 72140614 179126 163552 130794 181542	Bolt Fin Hex 3/8-16 Unc x 1 Bracket Asm Noseroller LH Nut Lock Hex W/Ins 3/8-16unc Roller Nose 38 & 42 Bracket Asm Noseroller RH Mulcher Cover Screw Pan HD Phillip 10-24 x 5/8 Washer, Flat Washer, Lock Latch Assembly Nut, Weld Bolt, Shoulder Wheel, Gauge Nut Centerlock 3/8-16 Washer 3/8 x 7/8 x 14 Ga. Washer 13/32 x 13-16 x 12 Ga. Bolt Fin Hex 3/8-16unc x 1 Gr. 5 Bolt RDHD 3/8-16unc x 1 Gr. 5 Bolt RDHD 3/8-16unc x 1 Screw 3/8-16 x .75 Pin Head Pivet Brkt Asm WhI Ga. R.LH Bar Adjusting Gauge Wheel Bolt Carr. 5/16-18 x 5/8 Brkt Asm WhI Ga. F. RH Brkt Asm WhI Ga. F. RH Brkt Asm WhI Ga. F. LH Bracket Arm Idler 42" Keeper Belt 42" Clutch Cable Pulley Idler Flat Bolt Carriage Idler Spring Return Idler Retainer Spring Yellow Washer 9/32 x 3/4 x 16 Ga. Bolt Rdhd Sqn 3/8-16 UNC x 1-3/4 Rod Roller Nose Retainer Spring Mandrel Assembly (Includes Housing, Shaft and Shaft Hardware Only - Pulley Not Included) Replacement Mower, Complete
68	174883	V-Belt, 42" Mower		1 inch = 25	5.4 mm

TRACTOR - - MODEL NUMBER 944.602011 HYDRO GEAR TRANSAXLE - MODEL NUMBER 323-0510

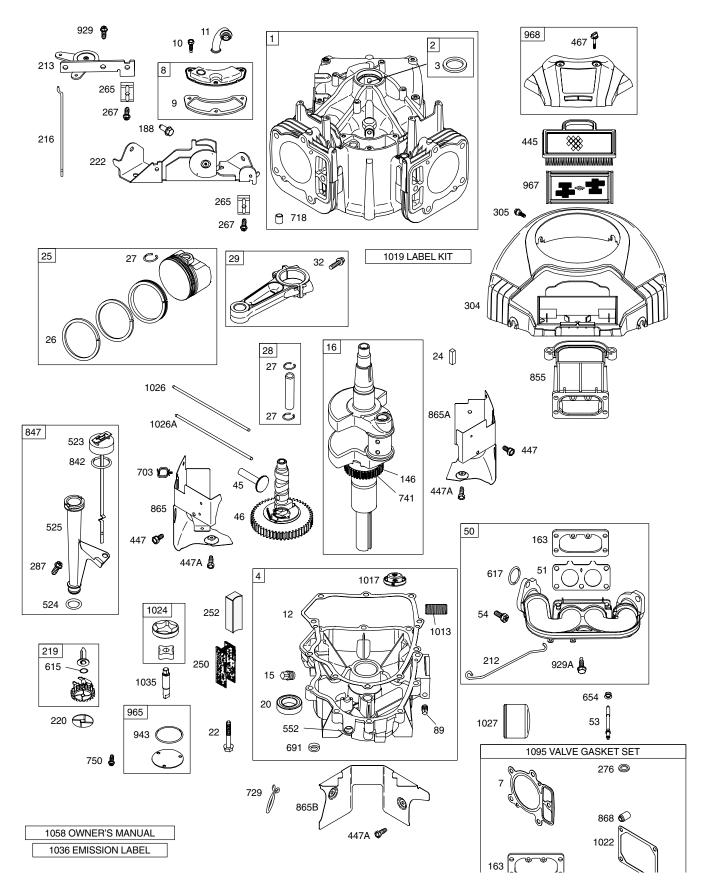


TRACTOR - - MODEL NUMBER 944.602011

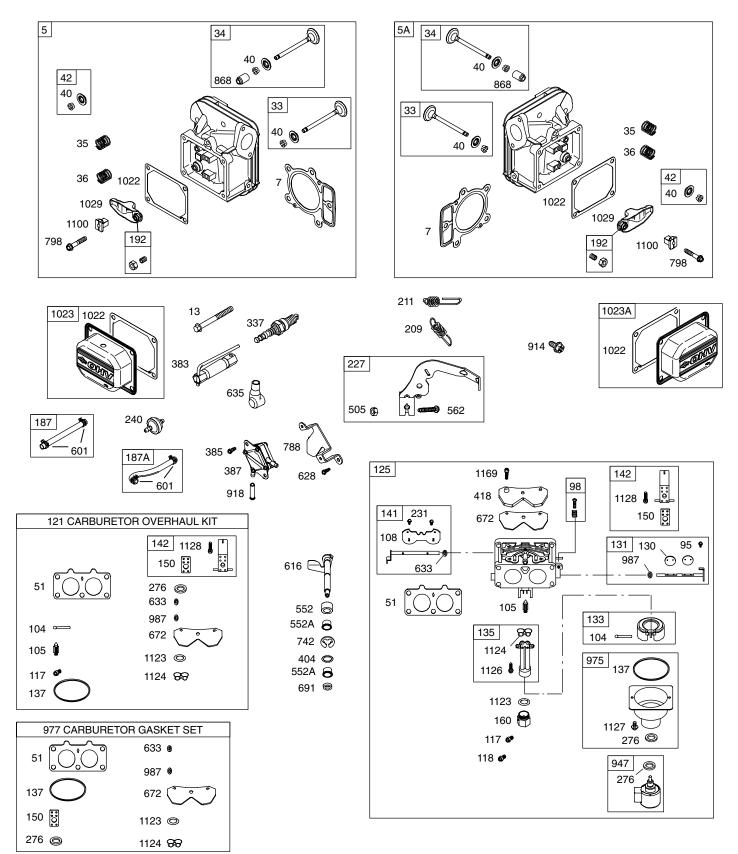
HYDRO GEAR TRANSAXLE - MODEL NUMBER 323-0510

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	170351	Main Housing, Assembly	68	178782	Arm, Brake
2	170352	Side Housing, Assembly	69	170415	Slotted Hex Nut 5/16-24
3	170353	Center Section, Assembly	70	170416	Cotter Pin 3/32 X 3/4
4	170354	Swashplate, Trunion Machined	71	170417	Compression Spring Brake Anti-Drag
5	169898	Block - Assembly	72	170418	Washer, Ht .5 I.D. X 1 O.D. X .032
6	170355	Sealant 10.5 Oz	73	142884	Flat - Washer 11/32 I.D. X 7/8 O.D
7	170356 170357	Hex Flange Screw 1/4-20 X 1.25	74 75	170419 170420	Oil Seal .625 X 1.0 X .25 Check Blug Accombly .027 Weeher
8 9	170358	Stud, 5/16-24 Hex Double End Shaft, Input	75 76	170420	Check Plug Assembly, .027, Washer Stud, 5/16-24 Friction Pack
10	170359	Ring - Retaining	77	170422	Puck, .330 X 1.50 X .0975
11	170360	Spacer	78	142969	Spring, Helical Comp
12	169870	Ring - Retaining	79	142980	Spacer
13	170361	Seal, Lip .67 X 1.58 X .276	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon Insert)
14	169869	Ball Brg 17mm Id X 40mm Od X 12mm	81	170423	Wedge, Friction Pack
16	170362	Hex Flange Head Screw 5/16-24X0.75	82	170424	Clip, Washer .316x1.50x.1046 (Plated)
17	170363	Lip Seal 18 X 32 X 7	83	161168	Pin, Standard Headless
18	178781	Arm, Control	84	170425	Fitting, 5/16 Sae 5/32 Tube
19 23	150771 170365	Bearing, 30x52x13 Thrust Check Plug Assembly, Washer	85 87	170426	Hose, Expansion Tank
23 24	170366	Shaft, Motor	88	142917 170429	Cap - Poppet Valve Bolt, Self Tapping 10-32 X 1/2
27	170367	Gear - Pinion, 13t	90	170430	Puck, Inner Wedge
28	170368	10t/48t Gear	93	170431	Spring Clip - Housing Thrust
29	170369	Gear, 10t Jackshaft	94	178783	Bearing, Ball
30	170370	60t Bull Gear	95	178784	Screw, Socket Head Cap 5/16-24X1-1/2
31	170371	Sleeve Bearing .75 X 1.575 X .625	96	178786	Spacer, Locating
32	170389	SleeveBearing(Outboard)	97	178787	Screw, SFHCS 5/16-18 X1
		.75x1.750x.625	98	178789	Arm Return
33	142991	Washer, 3/4 ld X 1-1/2 Od X .13 Thk	99	178792	Puck, Adjusting
34	170390 170391	Lip Seal Axle Seal	100 101	178793 178794	Washer, .24 ID X 1.60 OD X .239
35 36	170391	Shaft, Axle .75 X 11.39 (Key, R.H.) Shaft, Axle .75 X 16.99 (Key, L.H.)	102	178795	Spring, Extension Spacer .260 ID X .560 OD X .870
37	150792	Miter Gear (Splined)	102	178796	Bracket, Torque
38	150793	Miter Gear 15t (0.5 ld)	107	170432	Deflector
39	150809	Shaft	108	170433	Washer, Motor Shaft
40	170393	Ring, Spiral Retaining			.71idx1.15odx.030thk
41	170394	Pin, Jackshaft	109	170434	Plug, Sae #6
42	170395	Magnet, Ring	111	170435	O-Ring .07 X .301 I.D.
43	170396	Spring, Bypass	113	170437	Bracket, Support Expansion Tank
44	150797	Hydro Mtg Screw 3/8-24 X 2.5 Long	114	178797	Spring
45 46	170397 170398	Filter Base, Filter	116 117	170438 178799	Silicon Sponge Pin, Spring
40	170399	Actuator, Bypass	119	170439	Fan, 7 In.
48	170400	Rod, Bypass Actuator	120	170440	Pulley
49	170401	Arm. Bypass	121	170441	Hex Lock Nut 1/2-20 (Nylon Insert)
50	170402	Retaining Ring .250 External	122	170442	Washer, Belleville
51	170403	Seal, Lip .741 X .250 X .250 Tc	123	178800	Belt Keeper
52	170404	Flat Washer, 5/8 ld X 1.0 Od X .05 Thk	124	170444	Center Section-Filter-Bypass Assembly
53	170405	Retaining Ring	125	170445	Filter Assembly
54	170406	Bearing, Center Block	126	170446	Fan - Pulley Service Assembly
55 56	142977	Spring - Helical Compression	127	170447	Seal - O-Ring Kit
56 57	142978 150798	Washer 20w-50 Oil	128 130	173165	Kit, Expansion Tank
57 58	170407	Brake Yoke	130	178802 178803	Stud Ball Bracket, Cruise Damper
59	170408	Rotor, Brake	132	178804	Hex Nut 5/16-18 NC
60	142883	Brake Puck	133	178806	Damper
61	142882	Puck Plate	134	178808	Washer, Helical Spring Lock 5/16
62	142887	Brake Actuating Pin	900	173839	Transaxle Complete
63	170410	Hfhcs 1/4-20x2 W/Patch,SpecialFlange			·
64	142892	Bolt, 1/4-20 X 1 W/Patch	NOTE:		ent dimensions given in U.S. inches
65	170411	Spacer		1 inch = 25.4	4 mm
66	170412	Spring, Brake Arm Bias			
67	170413	Sq. Hd. Bolt 5/16-24-Ribbed			

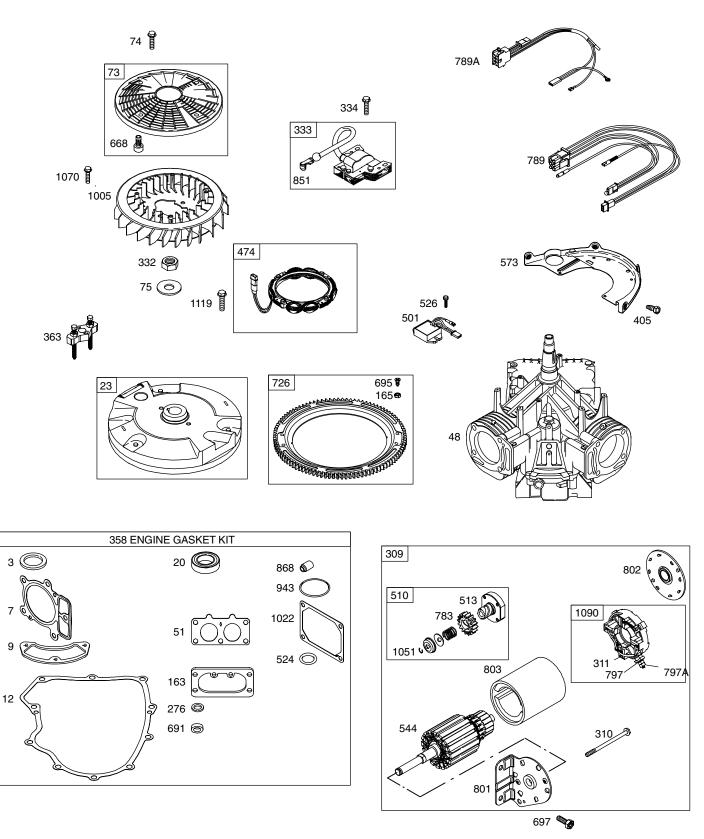
TRACTOR - - MODEL NUMBER 944.602011 BRIGGS ENGINE - MODEL NUMBER 446777, TYPE NUMBER 0165-E1



TRACTOR - - MODEL NUMBER 944.602011 BRIGGS ENGINE - MODEL NUMBER 446777, TYPE NUMBER 0165-E1



TRACTOR - - MODEL NUMBER 944.602011 BRIGGS ENGINE - MODEL NUMBER 446777, TYPE NUMBER 0165-E1



TRACTOR - - MODEL NUMBER 944.602011 BRIGGS ENGINE - MODEL NUMBER 446777, TYPE NUMBER 0165-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	NO. 694001 499585 391086 690069 697580 697581 693997 499601 690937 690960 690942 697227 690360 690946 691046 690947 694966 691046 690947 694966 6910453 222698 697689 697681 697682 697683 697684 697685 697684 697685 697685 697685 697685 697685 697684 69775 690975 690975 690963 690963 690963 690977 690978 690977 690978 692714 695241	DESCRIPTION Cylinder Assembly Kit-Bushing/Seal (Magneto Side) Seal-Oil (Magneto Side) Sump-Engine Head-Cylinder (Cylinder 1) Head-Cylinder (Cylinder 2) Gasket-Cylinder Head Breather Assembly Gasket-Breather Screw (Breather Assembly) Tube-Breather Gasket-Crankcase Screw (Cylinder Head) Plug-Oil Drain Crankshaft Seal-Oil (PTO Side) Screw (Engine Sump) Flywheel Key-Flywheel Piston Assembly (Standard) Piston Assembly (J010" Oversize) Piston Assembly (J020" Oversize) Piston Assembly (J020" Oversize) Piston Assembly (J020" Oversize) Ring Set-Piston (Standard) Ring Set-Piston (J00" Oversize) Ring Set	NO. 117 118 121 125 130 131 133 135 137 141 142 146 150 163 165 187 187A 182 209 211 212 213 216 220 227 231 240 252 265 267 276 287 305 309 311 333 334 337	NO. 690232 690989 499811 499804 690993 499805 499805 499807 499807 499807 499808 690994 690995 690995 691001 693148 691059 691049 690083 691049 690083 697674 691019 695238 691021 691022 696376 690412 691023 691048 690718 695666 690957 690956 691024 695134	 Ø Jet-Main (Standard) Jet-Main (High Altitude) Kit-Carburetor Overhaul Carburetor Valve-Throttle Shaft Float-Carburetor Tube-Fuel Transfer Gasket-Float Bowl Kit-Choke Shaft Nozzle-Carburetor Key-Timing Gasket-Nozzle Retainer-Solenoid Gasket-Air Cleaner Nut (Ring Gear) Line-Fuel (Cut to Required Length) Line-Fuel (Molded) Screw (Control Bracket) Adjuster-Rocker Arm Spring-Governor Spring-Governor Spring-Governor Lever) Bracket-Choke Control Link-Choke Gear-Governor Control Screw (Choke Valve) Filter-Fuel Retainer-Breather Collector-Oil Clamp-Casing Screw (Dipstick Tube) Housing-Blower Screw (Blower Housing) Motor-Starter Bolt-Starter Motor Brush Set Nut (Flywheel) Armature-Magneto Screw (Magneto Armature) Spark Plug
53 54 73	690951 695240 691055	Stud (Carburetor) Screw (Intake Manifold) Screen-Rotating	333 334 337	691060 691061 491055	Armature-Magneto Screw (Magneto Armature) Spark Plug
74 75 89 95 98	691057 691056 690283 690718 499802	Screw (Rotating Screen) Washer (Flywheel) Plug-Oil Screw (Throttle Valve) Kit-Idle Speed	358 RPM \$	694012 Settings:	Set-Engine Gasket Low Speed: 1900-2100 High Speed: 3000-3200
104 105 108	690984 🖉	Valve-Choke	• Ø ‡ +	Included in Included in	Engine Gasket Set, Key. No. 358 Carburetor Overhaul Kit, Key. No. 121 Carburetor Gasket Set, Key. No. 977 Valve Gasket Set, Key. No. 1095

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

TRACTOR - - MODEL NUMBER 944.602011 BRIGGS ENGINE - MODEL NUMBER 446777, TYPE NUMBER 0165-E1

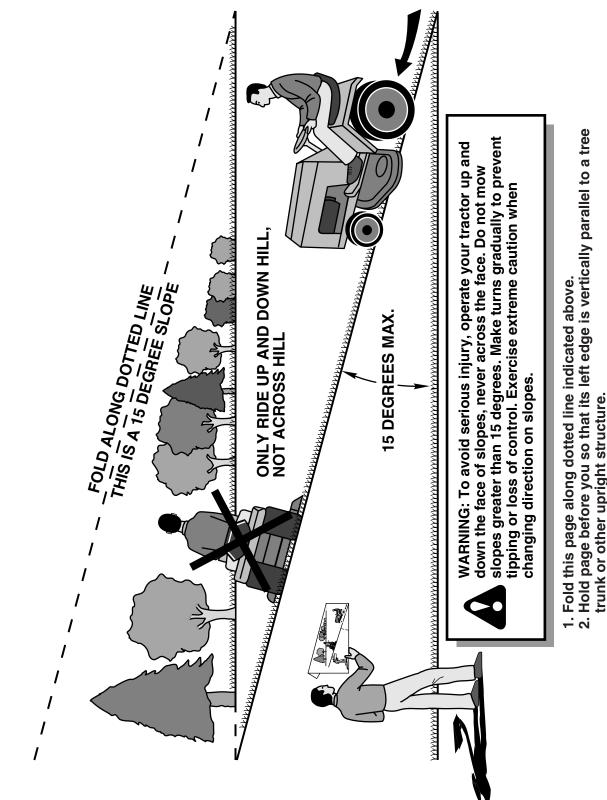
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO. DESCRIPTION	
363	691062	Flywheel Puller	802	691286 Cap-End	
383	690966	Wrench-Spark Plug	803	———— Housing-Starter	
385	690960	Screw (Fuel Pump)		(Service with 691262 Starte	er Motor)
387	808656	Pump-Fuel	842	691031 • Seal-Dipstick/Tube	
404	690442	Washer (Governor Crank)	847	499602 Dipstick/Tube Assembly	
405	690960	Screw (Back Plate)	851	493880 Terminal-Sparkplug	
418 445	690999 695667	Plate-Carburetor	855 865	691011 Adapter-Air 691012 Cover-Air Guide	
445	691003	Filter-Air Cleaner Cartridge Screw (Air Guide Cover)	865A	691012 Cover-Air Guide	
447A	690960	Screw (Air Guide Cover)	865B		
467	691008	Knob-Air Cleaner	868	690968 •+ Seal-Valve	
474	696458	Alternator	914	691127 Screw (Rocker Cover)	
501	691185	Regulator	918	694000 Hose-Vacuum (
505	691029	Nut (Governor Control Lever)	929	695239 Screw (Choke Control Brac	
510	497606	Drive-Starter	929A	691003 Screw (Choke Control Brac	ket)
513	692024	Clutch-Drive	943	690589 • Seal-O Ring (Oil Pump Cov	/er)
523	691036	Dipstick	947	499809 Solenoid-Fuel	
524	691032	Seal-Dipstick Tube Tube Dipstick	965	499613 Cover-Oil Pump	
525 526	691037 690960	Tube-Dipstick	967 968	272638 Filter-Pre Cleaner 499788 Cover-Air Cleaner	
520	<u> </u>	Screw (Regulator) — Armature-Starter	908 975	499810 Bowl-Float	
344		(Service with 691262 Starter Motor)	977	499812 Gasket Set-Carburetor	
552	690552	Bushing-Governor Crank	987	691000 ؇ Seal-Throttle Shaft	
552A	690553	Bushing-Governor Crank	1005		
562	690311	Bolt (Governor Control Lever)	1013		
573	691009	Plate-Back	1017	690770 Screen-Oil Pump	
601	691038	Clamp-Hose	1019	690103 Kit-Label	
615	690317	Retainer-Governor Shaft	1022		
616	691045	Crank-Governor	1023		
617	691917	Seal-O Ring (Intake Manifold)		499600 Cover-Rocker (Cylinder 2)	
628 633	690960 690998	Screw (Fuel Pump Bracket) ؇ Seal-Choke/Throttle Shaft	1024	499054 Pump-Oil 690981 Rod-Push (Steel)	
635	66538	Boot-Sparkplug		.690982 Rod-Push (Aluminum)	
654	690958	Nut (Carburetor)	1020		
668	691215	Spacer	1029		
672	690234	؇ Gasket-Carburetor Plate	1035	691042 Shaft-Pump	
691	690657	 Seal-Governor Shaft 	1036	695704 Label-Emission	
695	693149	Screw (Ring Gear)	1051	691265 Ring-Retaining	
697	690372	Screw (Drive Cap)	1058		
703	691010	Clip	1070		
718	690959	Pin-Locating	1090	691293 Retainer-Brush 694013 Gasket Set-Valve	
726 729	499612 694123	Gear-Ring Clip-Wire	1095 1100	694013 Gasket Set-Valve 690973 Pivot-Rocker Arm	
729	690980	Gear-Timing	1119	691183 Screw (Alternator)	
742	690328	Retainer-E Ring	1123	690987Ø ‡ Seal-O Ring (Solenoid Ret	ainer)
750	696999	Screw (Oil Pump Cover)	1124	690988Ø ‡ Seal-O Ring (Fuel Transfer	
783	693058	Gear-Pinion	1126	690991 Screw (Fuel Transfer Tube)	
788	691039	Bracket-Fuel Pump	1127	690992 Screw (Float Bowl)	
789	695050	Harness-Wiring	1128	690990 Ø Screw (Carburetor Nozzle)	
789A	696576	Harness-Wiring	1169	693140 Screw (Carburetor Cover P	late)
797	691029	Nut (Brush Retainer)			
797A	693167	Nut (Brush Retainer)	RPM	Settings: Low Speed: 1900-2100	
798	690967	Screw (Rocker Arm)		High Speed: 3000-3200	
801	691283	Cap-Drive	•	Included in Engine Gasket Set, Key. No. 3	358
			ø	Included in Carburetor Overhaul Kit, Key.	
			ŧ	Included in Carburetor Gasket Set. Key.	

Included in Carburetor Gasket Set, Key. No. 977 Included in Valve Gasket Set, Key. No. 1095 ‡

+

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





- trunk or other upright structure.
 - Sight across the fold in the direction of hill slope you want to measure.
 - Compare the angle of the fold with the slope of the hill.

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