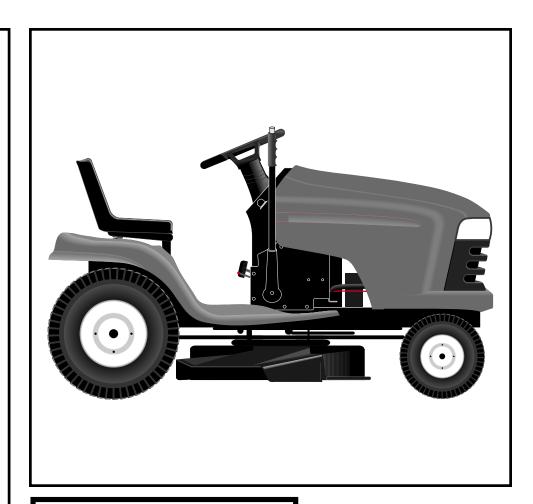


MODEL NO. 944.601051

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



CRAFTZMAN®

25.0 HP ELECTRIC START 48" MOWER AUTOMATIC LAWN TRACTOR

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts

A

SAFETY RULES

Safe Operation Practices for Ride-On Mowers



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

I. GENERAL OPERATION

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

DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels.
 They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object.
 Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them
- Check brake operation frequently. Adjust and service as required.

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

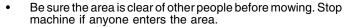












- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of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



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



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



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



CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

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PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 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 @ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	45-55 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 "Customer Responsibilities" and "Storage" sections of this owner's manual.

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

A spark arrester for the muffler is available through your nearest authorized service center/department (See 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 NOT cover:

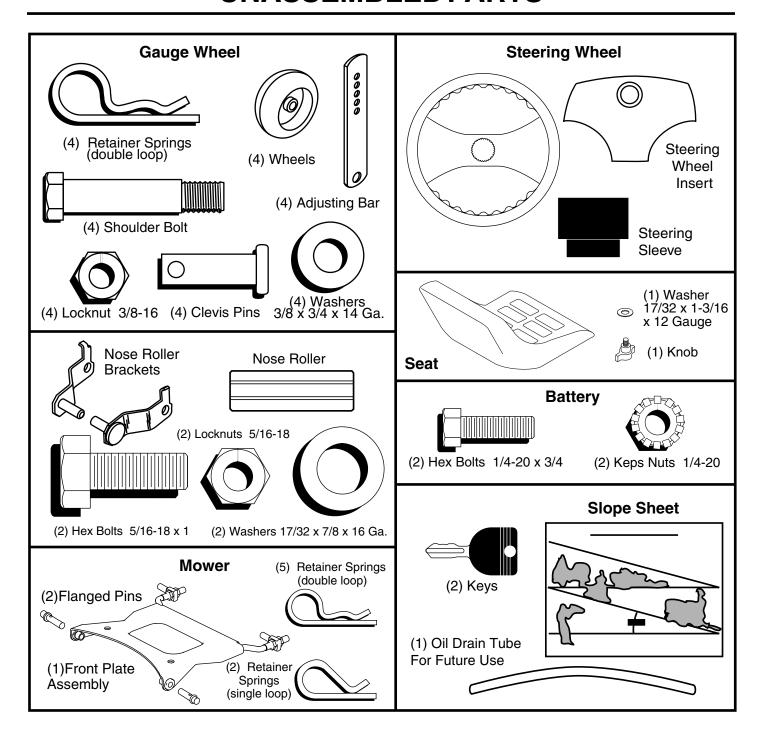
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

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

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

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

UNASSEMBLED PARTS



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" wrench Pliers

(2) 7/16" wrenches Tire pressure gauge

(1) 1/2" wrench 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.
- Remove mower and packing materials.
- 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 straightforward.
- 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.

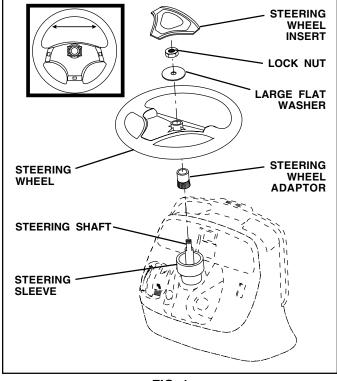


FIG. 1

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.

Use terminal access doors for:

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

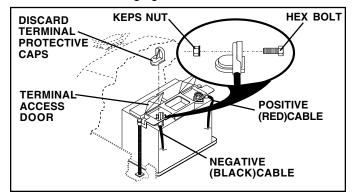


FIG. 2

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.

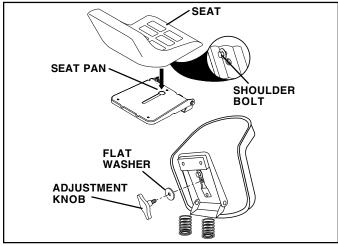


FIG. 3

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

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

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.
- 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 "OFF" position.

Continue with the instructions that follow.

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

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.
- For ease of mower to tractor assembly, raise gauge wheels to highest position and retain with clevis pins and spring retainers.
- Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.

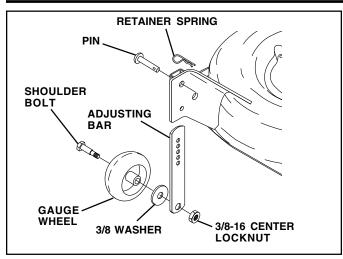


FIG. 4

TO ATTACH NOSE ROLLER (See Fig. 5)

- Position brackets, 17/32 x 7/8 x 16 gauge washers, and nose roller between deck mounting brackets as shown.
 Be sure to position brackets on correct side, as shown.
- Install hex bolts and lock nuts as shown. Tighten hardware securely.

NOTE: Be sure bracket tabs are positioned in tab holes in deck brackets.

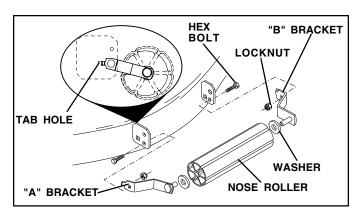


FIG. 5

INSTALL MOWER AND DRIVE BELT (See Figs. 6 and 7)

Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- Cut and remove ties securing anti-sway bar and belts.
 Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with deflector shield to right side of tractor.

IMPORTANT: Check belt for proper routing in all mower pulley grooves.

- If equipped, turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Be sure belt tension rod is in disengaged position.
- Install belt into electric clutch pulley groove.
- Place the suspension arms on outward pointing deck pins. Retain with double loop retainer spring with loops up as shown.
- Install front plate assembly to tractor suspension brackets and retain with single loop retainer springs as shown.
- Position front plate assembly between front mower brackets. Raise deck and plate assembly to align holes and insert flanged pins. Secure pins with double loop retainer springs between the plate assembly and mower brackets.

NOTE: To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin.If necessary, move mower side-to-side to give space between plate and mower brackets.

IMPORTANT: Check belt for proper routing in all mower pulley grooves. Engage belt tension rod by pushing rod into locking bracket.

Engage belt tension rod by pushing rod into locking bracket.



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- If equipped, turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

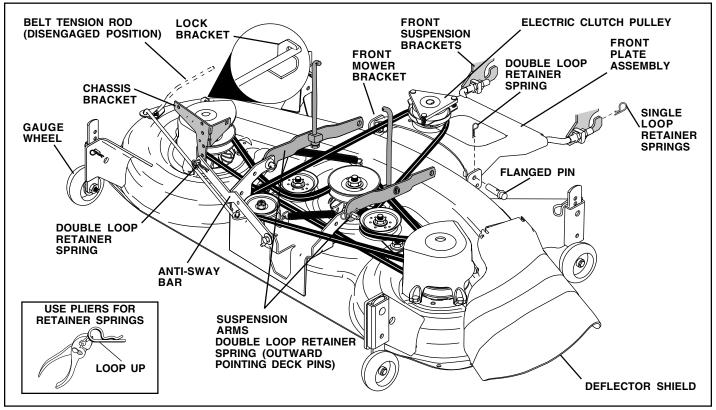


FIG. 6

CHECK TIRE PRESSURE

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

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

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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

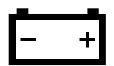
PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH





PARKING BRAKE



*

ATTACHMENT CLUTCH DISENGAGED







LOW





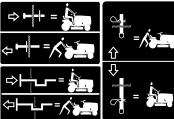
KEEP AREA CLEAR

AR SLOPE HAZARDS
SEE SAFETY BUILES SECTION)





DANGER, KEEP HANDS AND FEET AWAY



FREE WHEEL (Automatic Models only)

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.

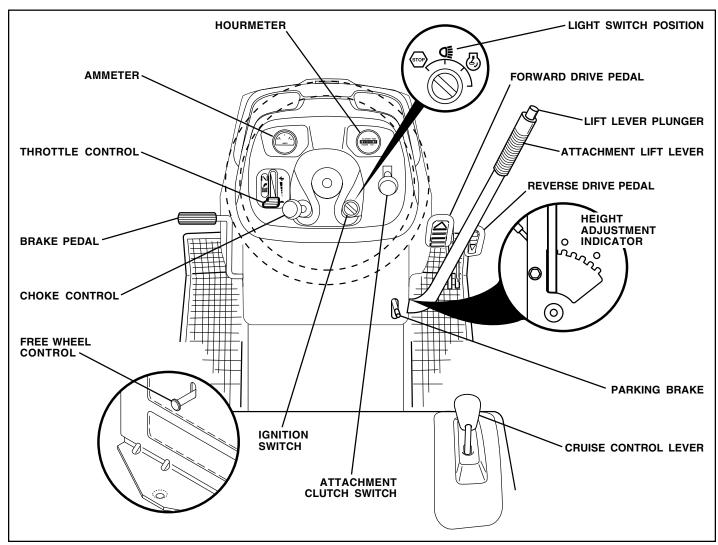


FIG. 7

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: 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 11 tractor.



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. 8)

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.

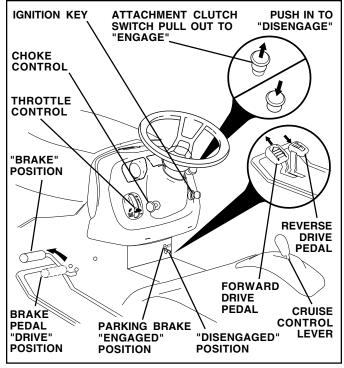


FIG. 8

STOPPING (See Fig. 8)

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. 8)

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. 8)

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. 8)

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.

- 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. 8)

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.

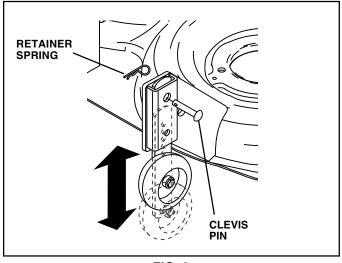
TO ADJUST GAUGE WHEELS (See Fig. 9)

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

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

- Adjust mower to desired cutting height (See "TO 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. 10)

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

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

TO STOP MOWER BLADES - disengage attachment clutch control.



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

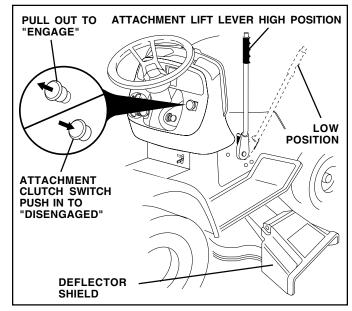


FIG. 10

TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down
- 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.

FIG. 9

TO TRANSPORT (See Figs. 7 and 11)

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

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and 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.).

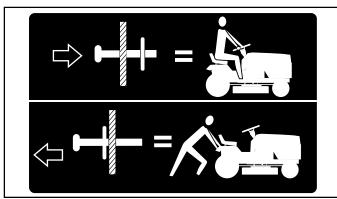


FIG. 11

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 Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness. **IMPORTANT:** WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

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



CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 7)

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 tractor is now purged and now ready for normal operation.

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 12).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

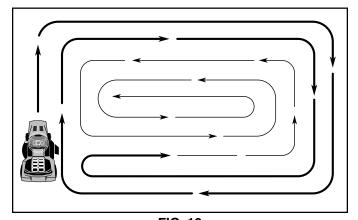


FIG. 12

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE EGULAR SERVICE	E	BEFORE	EACHUS EVERY 8	HOURS WERY?	5 HOURS	SHOUP VERY	S HOUP OO HOUP SVERY ST	ASON FORE	SER	چة VICE	E DAT	ΓES
	Check Brake Operation	V	1										
1	Check Tire Pressure	/	/										
_	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	V				1 7		/					
I A	Sharpen/Replace Mower Blades			1 4									
Ι¥	Lubrication Chart			/				/					
Ιċ	Check Battery Level			1 6									
R	Clean Battery and Terminals			/				/					
1	Check Transaxle Cooling			/									
1	Adjust Blade Belt(s) Tension					1 5							
	Adjust Motion Drive Belt(s) Tension					1 5							
	Check Engine Oil Level	V	1										
1	Change Engine Oil			1,2,3				/					
lε	Clean Air Filter			1 2									
N	Clean Air Screen			1 2									
Ģ	Inspect Muffler/Spark Arrester				1								
ľ	Replace Oil Filter (If equipped)					1,2							
ΙË	Clean Engine Cooling Fins					1 /2							
1	Replace Spark Plug					/	1						
	Replace Air Filter Paper Cartridge					1 2							
	Replace Fuel Filter						/						

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 If equipped with oil filter, change oil every 50 hours.
- 4 Replace blades more often when mowing in sandy soil.

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery.
- 7 Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

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.

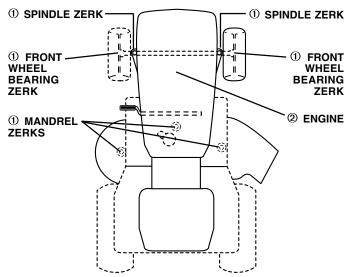
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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.

LUBRICATION CHART



- **① GENERAL PURPOSE GREASE**
- **② REFER TO CUSTOMER RESPONSIBILITIES "ENGINE"** SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POW-16 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. 13)

 Raise mower to highest position to allow access to blades.

NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth.

- Remove blade bolt by turning counterclockwise.
- Install new or resharpened blade with stamped "THIS SIDE UP" facing deck and mandrel assembly.

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

Install and tighten blade bolt securely (45-55 Ft. Lbs. torque).

IMPORTANT: SPECIAL BLADE BOLT HEAT TREATED.

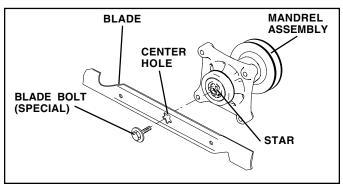


FIG. 13

TO SHARPEN BLADE (See Fig. X14)

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

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

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

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

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

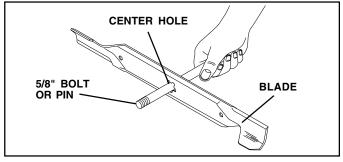


FIG. 14

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.

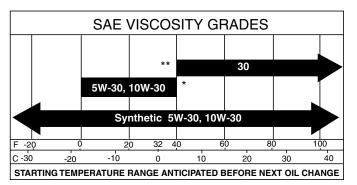
TRANSAXLE PUMP FLUID

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.



*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 bottom fitting of drain valve and install the drain tube onto the fitting.

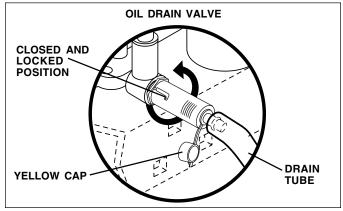


FIG. 15

- 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.

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.

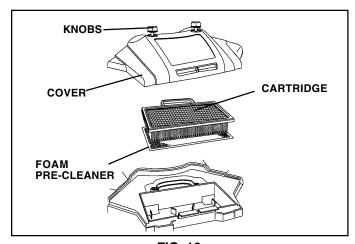


FIG. 16

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.

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.

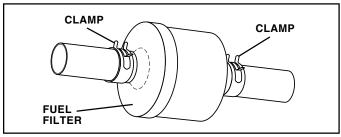


FIG. 17

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.

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER (See Fig. 18)

- Place attachment clutch in "DISENGAGED" position.
- If equipped, turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Disengage belt tension rod from lock bracket.



CAUTION: Rod is spring loaded. Have a tight grip on rod and release slowly.

 Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.

- Remove four retainer springs from front plate assembly and remove plate.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

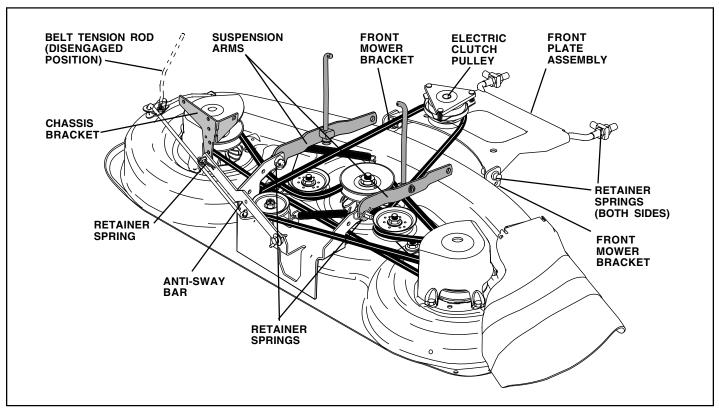


FIG. 18

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 (See Figs. 19 and 20)

- · Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- 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 3/16".

Recheck measurements after adjusting.

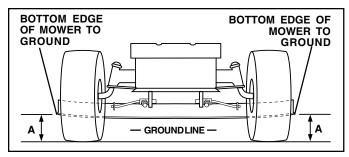


FIG. 19

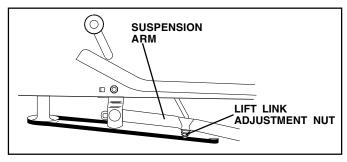


FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

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

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



CAUTION: Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

Check adjustment on right side of tractor. Position any blade so the tip is pointing straight forward. Measure distance "B" at front and rear tip of the blade.

- 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 blade, loosen nut "C" on both front links an equal number of turns.

NOTE: Each full turn of nut "C" will change distance. "B" by approximately 3/16".

- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- To raise front of blade, loosen nut "D" from trunnion on both front links. Tighten nut "C" on both front links an equal number of turns.
- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- Recheck side-to-side adjustment.

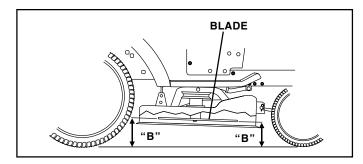


FIG. 21

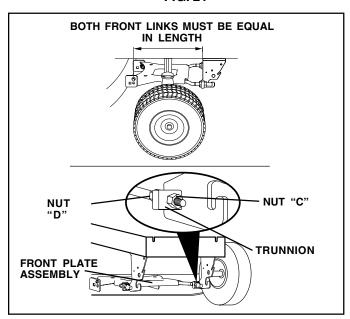


FIG. 22

TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 23)

- Park tractor on a level surface. Engage parking brake.
- Lower mower to its lowest position.
- Disengage belt tention rod from lock bracket.



CAUTION: Rod is spring loaded. Have a tight grip on rod and release slowly.

- Remove screws from R.H. mandrel cover and remove cover.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface
- Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
- Roll belt over the top of R.H. mandrel pulley carefully.
- Remove belt from electric clutch pulley.

- Remove belt from idler pulleys.
- Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to primary idler arm and spring arm.

MOWER DRIVE BELT INSTALLATION (See Fig. 23)

- Install belt in both idlers.
- Install new belt onto electric clutch pulley.
- Roll belt into upper groove of R.H. mandrel pulley carefully.
- Carefully check belt routing making sure belt is in the grooves correctly.
- Reconnect R.H. suspension arm to rear deck bracket with retainer spring.
- Reassemble R.H. mandrel cover.
- Engage belt tension rod by pushing rod into locking bracket.

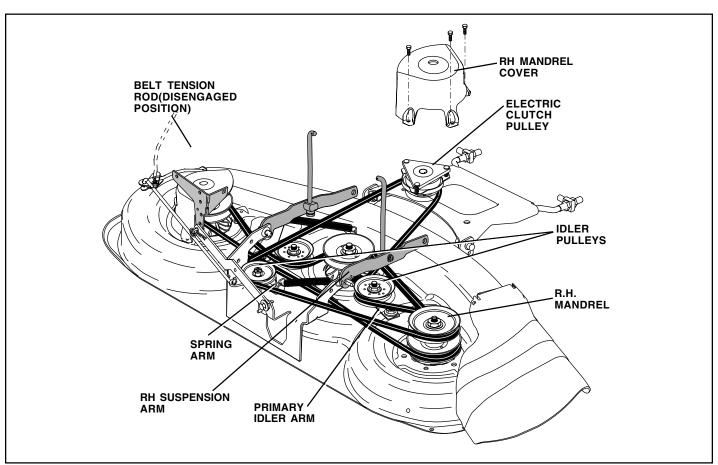


FIG. 23

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 24)

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove screws from L.H. mandrel cover and remove cover.
- Carefully roll belt off L.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and R.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- Check secondary idler arm and idler pulley to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and secondary spring arm.
- Install new belt in lower groove of R.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Carefully roll belt over L.H. mandrel pulley. Make sure belt is in all grooves properly.
- Reinstall L.H. mandrel cover.
- Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

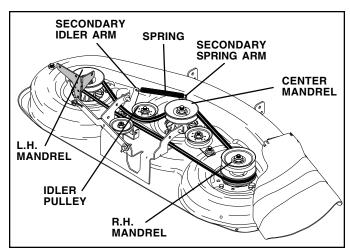


FIG. 24

TO ADJUST BRAKE (See Fig. 25)

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear on a level dry concrete or paved surface, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

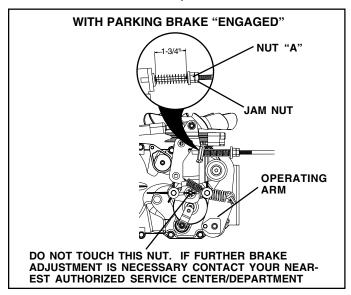


FIG. 25

TO REPLACE MOTION DRIVE BELT (See Fig. 26)

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Disconnect clutch wire harness.
- Remove clutch locator.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Pull belt toward front of tractor and remove downwards from around electric clutch.
- Install new belt by reversing above procedure.

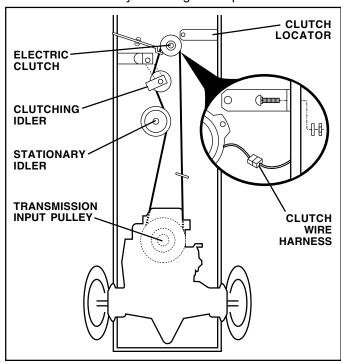


FIG. 26

TRANSMISSION REMOVAL/REPLACEMENT

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

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS (See Fig. 27)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

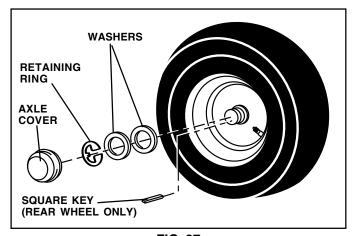


FIG. 27

TO START ENGINE WITH A WEAK BATTERY (See Fig. 28)



CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

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

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

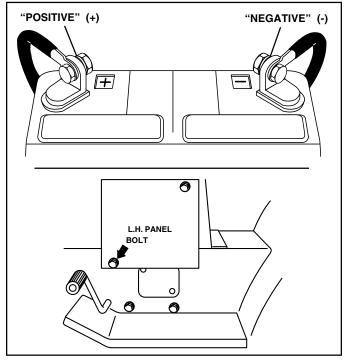


FIG. 28

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. 29)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.

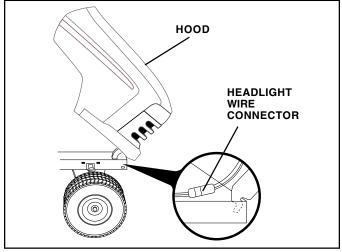


FIG. 29

ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30)

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

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

TO ADJUST CHOKE CONTROL (See Fig. 31)

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

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

TO ADJUST CARBURETOR

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

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

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

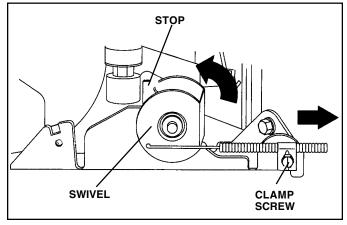


FIG. 30

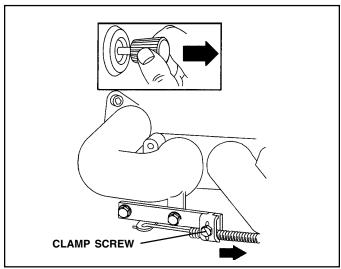


FIG. 31

STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.



CAUTION: 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 Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

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

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 Customer Responsibilities 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. 	 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. 8. 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 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.		 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 vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts. 			

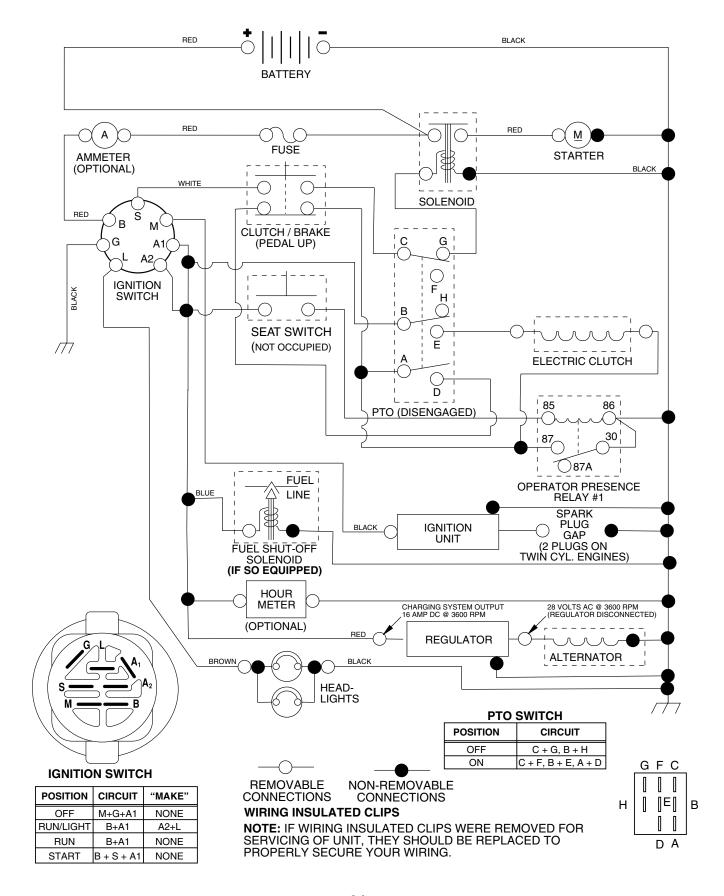
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION			
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.			
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes. 			
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel. 			
Poor grass discharge 1. Engine speed too slow. 2. Travel speed too fast. 3. Wet grass. 4. Mower deck not level. 5. Low/uneven tire air pressure. 6. Worn, bent or loose blade. 7. Buildup of grass, leaves and trash under mower. 8. Mower drive belt worn. 9. Blades improperly installed. 10. Improper blades used. 11. 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) 1. Switch is "OFF". 2. Bulb(s) or lamp(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. 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" 1. 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.			

SERVICE NOTES

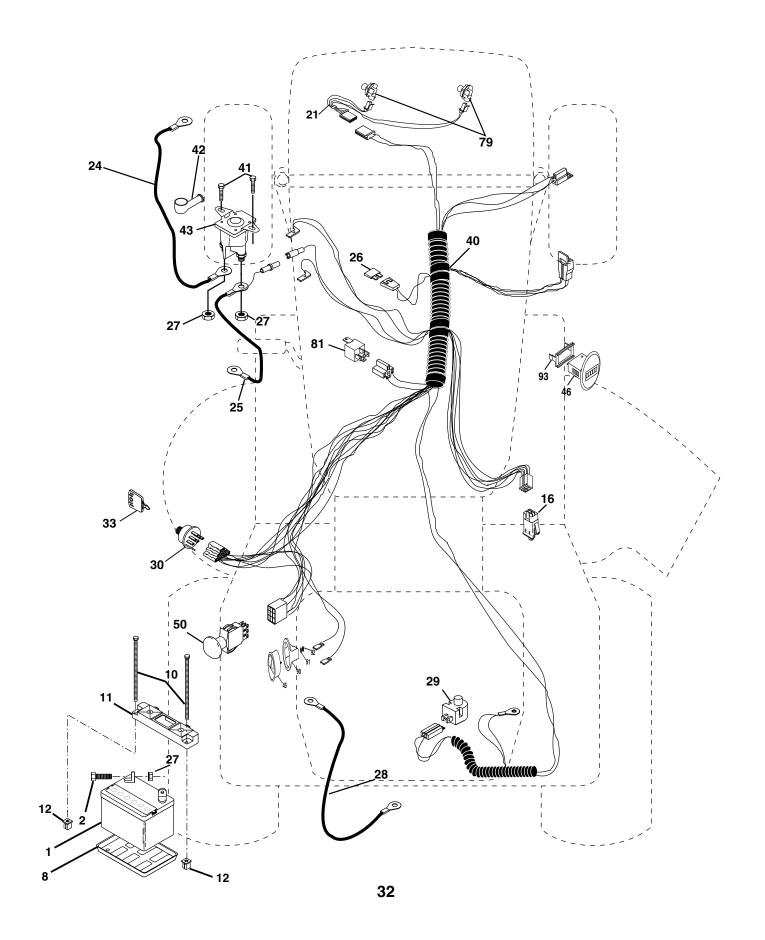
TRACTOR - - MODEL NUMBER 944.601051

SCHEMATIC



TRACTOR - - MODEL NUMBER 944.601051

ELECTRICAL



TRACTOR - - MODEL NUMBER 944.601051

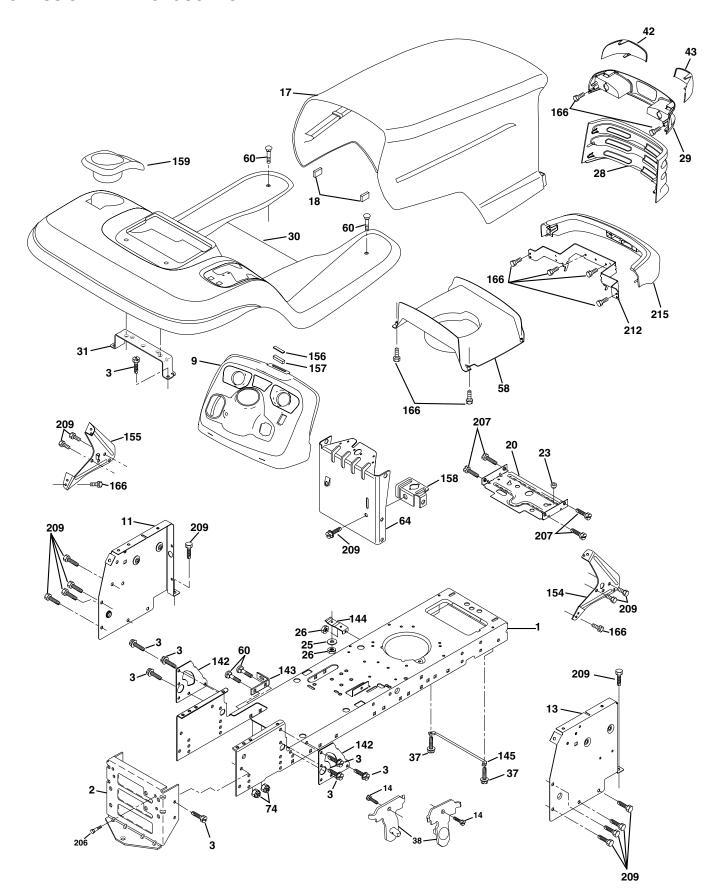
ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	163465	Battery 12 Volt 28 Amp
2 8	74760412	Bolt Hex Hd 1/4-20unc X 3/4
8 10	7603J 145211	Tray Battery Bolt Btr Frt 1/4-20 x 7.5
11	150109	Holddown Battery Front Mount
12	145769	Nut Push Nylon 1/4" Battery
16	153664	Switch Interlock
21	175449	Harness Asm Light
24	8860R	Cable Battery 6 Ğa 17"red
25	146148	Cable Battery 6 Ga w/16 wire,red
26	175158	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28 29	145491	Cable Ground
29 30	160784 175442	Switch Plunger OP Olive Switch Ign
33	175447	Key Ign
40	178451	Harness Ign
41	71110408	Bolt Fin Hex 1/4-20 x 1/2
42	131563	Cover Terminal Red
43	175141	Solenoid
45	175548	Ammeter
46	175549	Hourmeter
50	178461	Switch PTO
79 81	175448 109748X	Bulb Holder Asm. Halogen
89	176717	Relay Asm. Clamp Back Amp Gage
90	176730	Washer Lock Amp Gage
91	176733	Nut Amp Gage
92	176732	Clamp Hourmeter
93	176731	Washer Lock Hourmeter
94	176734	Nut Hourmeter

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

TRACTOR - - MODEL NUMBER 944.601051

CHASSIS AND ENCLOSURES



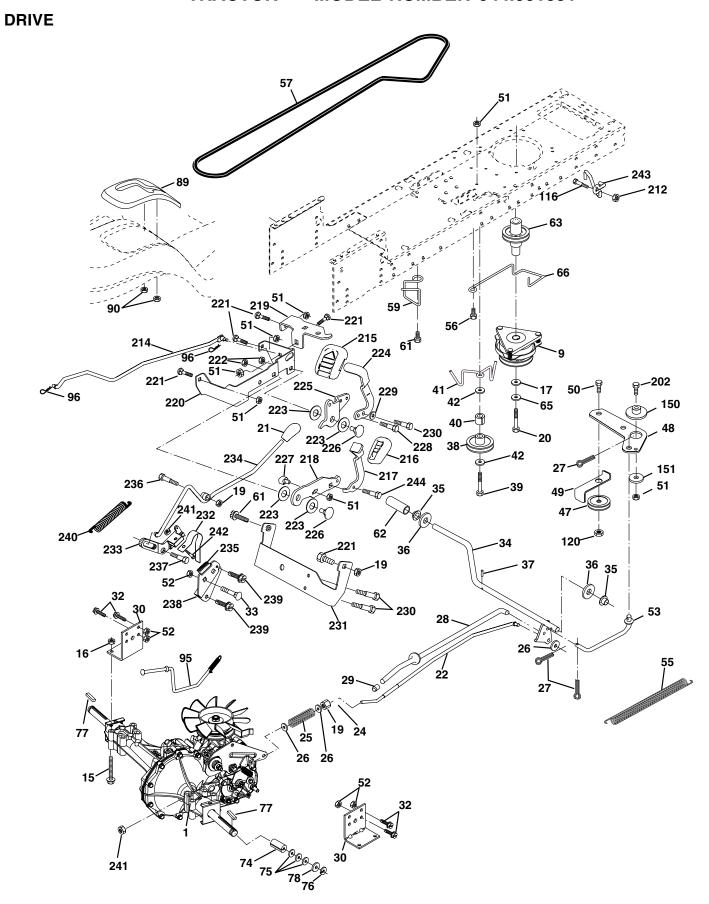
TRACTOR - - MODEL NUMBER 944.601051

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
11	174996	Panel, Dash, LH
13	179174X010	Panel, Dash, RH
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	172540X615	Hood Assembly
18	126938X	BumperHood
20	156437	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	174945X418	Grille
29	174944X418	Lightbox Dual
30	175692X615	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
42	172545X599	Lens Lh
43	172544X599	Lens Rh
58	174993	Duct Hood
60	STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	174997	DashLower
74	STD541437	Nut Crownlock 3/8-16 UNC
142	175702	Plate Reinforcement
143 144	154966	Bracket Swaybar Chassis Bracket Footrest
144	175582 156524	Rod Pivot Chassis/Hood
154	174679	Bracket Dash Rh
155	174679	Bracket Dash Lh
156	163805	Striker Plate
157	163806	Magnet YTGT
158	162037	Parking Brake Bkrt
159	155123X418	Cupholder Stl Blk
166	164863	HWHDH:-Lo.#13-16x3/4
206	170165	Bolt Shoulder 5/16-18
207	17670508	Screw Thdrol 5/16-18 x 1/2
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
212	174988	Bracket Pivot Hood
215	172543X615	Bumper
		- F -

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

TRACTOR - - MODEL NUMBER 944.601051



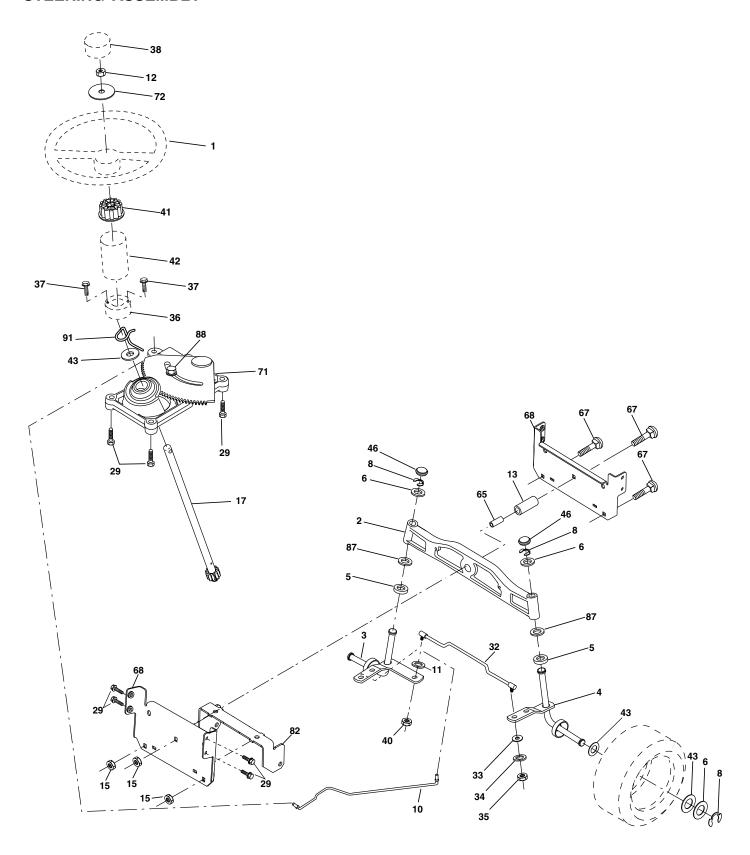
TRACTOR - - MODEL NUMBER 944.601051

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown)	76	12000001	E-Ring
		Hydro gear Model 323-0510	77	123583X	Key, Šquare
9	174367	Clutch Elec	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
15	74490544	Bolt Hex Flghd 5/16-18 Gr. 5	89	174901X418	Console, Shift
16	73800500	Nut Lock Hex W/Ins. 5/16-18 Unc	90	124346X	Nut Self-Thd Wsh-hd 1/4 Zinc
17	126197X	Washer 1-1/2 OD x 15/32 ID x	95	175899	Rod Bypass
		.250	96	4497H	Retainer Spring 1" Zinc/Cad
19	73800600	Nut Lock Hex W/Wsh 3/8-16 Unc	116	72140608	Bolt RDHD SQNK 3/8-16 Unc x 1
20	173937	Bolt Hex 7/16-20 x 4 x Gr. 5-1.5	120	73900600	Nut Lock Flg 3/8-16 Unc
21	175036X505	Knob Custom Control Cruise	150	175456	Spacer Retainer
22	175896	Rod, Brake	151	19133210	Washer 13/32 x 2 x 10 Ga.
24	73350600	Nut, Hex Jam 3/8-16 Unc	202	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5
25	106888X	Spring, Brake Rod	212	145212	Nut HexFlange Lock
26	19131316	Washer	214	174735	Link Transaxle
27	76020412	Pin Cotter 1/8 x 3/4 CAD.	215	175646	Cover Pedal Forward
28	175798	Rod, Parking Brake	216	175647	Cover Pedal Reverse
29	175799X505	Knob Brake Parking	217	174737	Pedal Reverse
30	169592	Bracket, Transaxle	218	174713	Arm Control Pedal Reverse
32	74760512	Bolt Hex Hd 5/16-18 Unc x 3/4	219	174839	Bracket Frest Pdl Ctrl. Hyd
33	72140506	Bolt Rdhd Sqnk 5/16-18 Unc x 3/4	220	174711	Bracket Mtg. Pedal Control
34	175578	Shaft, Foot Pedal	221	72140606	Bolt Rdhd Sqnk 3/8-16 Unc x 3/4
35	120183X	Bearing, Nylon	222	73680700	Nut Crownlock 7/16-14 Unc
36	19211616	Washer	223	174840	Washer Nylon 11/16 ID x .060
37	1572H	Pin, Roll	224	174736	Pedal Forward
38	165936	Pulley, Composite, Flat	225	174712	Arm Control Pedal Forward
39	74760648	Bolt Fin Hex 3/8-16 Unc x 3	226	174902	Bolt Pivot Spacer
40	175461	Spacer, Split	227	174710	Cam Reverse Pedal LT
41	175556	Keeper, Belt Idler Flat	228	171873	Bolt Shoulder 5/16-18
42	19131312	Washer 13/32 x 13/16 x 12 Ga.	229	176451	Washer Serrated 5/16 x .75
47	127783	Pulley, Idler, V-Groove	230	17060512	Screw 5/16-18
48	154407	Bellcrank Clutch Grnd Drw Stl	231	174573	Strap Torque
49 50	123205X 74760624	Retainer, Belt Bolt	232	175570	Actuator Cruise Disengage
50 51	73680600	Nut Crownlock 3/8-16 UNC	233 234	174856 174858	Pawl Control Cruise
52	73680500	Nut, Crownlock 5/16-18 Unc	235	174857	Lever Control Cruise
53	105710X	Link, Clutch	236	128903	Sector Control Cruise Bolt Shoulder 3/8-16 Unc 1/44
55	105710X 105709X	Spring, Return, Clutch	237	170165	Bolt Shoulder 5/16-18
56	17060616	Screw 3/8-16 x 1.0	238	175807	Arm Mtg. Cruise Sector
57	140294	V-Belt, Ground Drive	239	17490508	Screw Thdrol 5/16 x 1/2
59	169691	Keeper, Center Span	240	175610	Spring Return Cruise Control
61	17060612	Screw 3/8-16 x 3/4	241	73930400	Nut Centerlock 1/4-20 Unc
62	123533X	Cover, Pedal	242	74760408	Bolt Fin Hex 1/4-20 Unc x 1/2
63	175417	Pulley, Engine	243	178289	Bracket Anti-Rotation CVX
65	10040700	Washer	244	17060508	Screw 5/16-18 x 1/2
66	154778	Keeper Belt Engine	<u>~</u> -⊤⊤	. 7 000000	3010W 0/10 10 X 1/L
74	137057	Spacer, Axle	NOTI	E: All compone	ent dimensions given in U.S. inches
75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.		1 inch = 25	
. •					

TRACTOR - - MODEL NUMBER 944.601051

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.601051

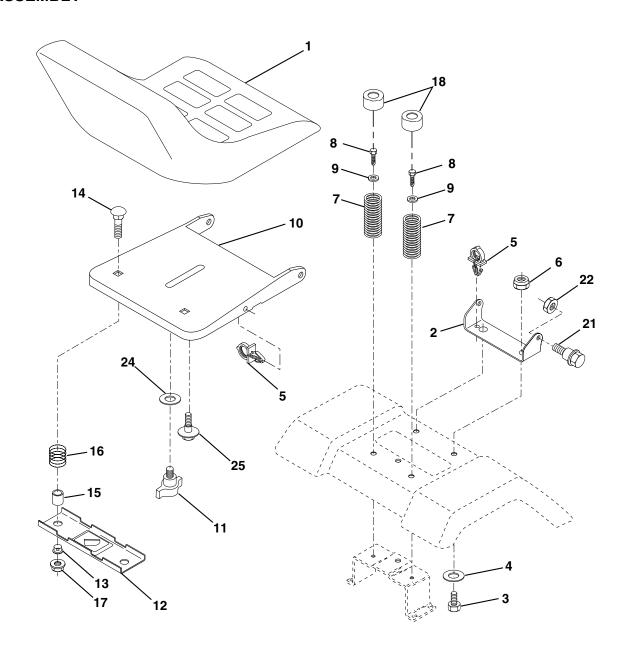
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 8 10 11 12 13 15 17 29 32 33 34 35 36 37 38 40 41 42 43 46 65 67 82 87 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 Hlcl 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 Hlcl 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 component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.601051

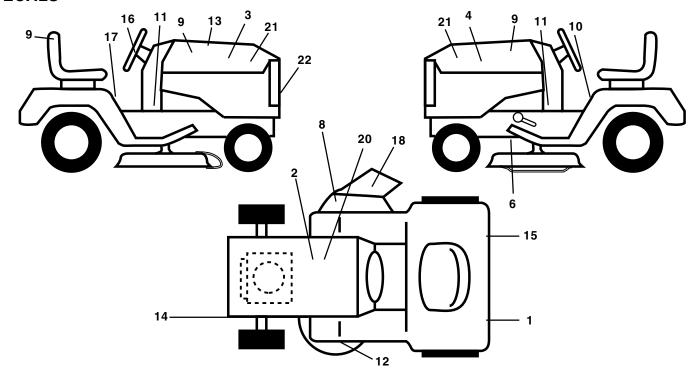
SEAT ASSEMBLY



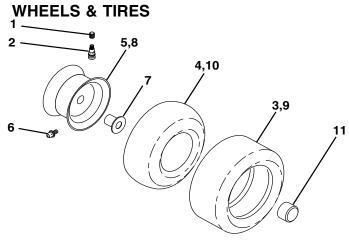
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9	175134 140551 STD523710 19131610 145006 STD541437 124181X 17000616 19131614	Seat Bracket Pivot Seat 8 720 Bolt Fin Hex 3/8-16unc X 1 Washer 13/32 X 1 X 10 Ga Clip Push-In Nut Hex w/Ins. 3/8-16 Unc Spring Seat Cprsn Screw 3/8-16 X 1-1/2 Washer 13/32 X 1 X 14 Ga.	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.
10 11 12	174894 177957 121246X	Pan Seat Knob Seat Adj. Wingnut Bracket Mounting Switch	25 NOTI	127018X E: All compon 1 inch = 25	Bolt Shoulder 5/16-18 X 62 ent dimensions given in U.S. inches .4 mm

TRACTOR - - MODEL NUMBER 944.601051

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 6 8 9	174969 138047 177909 177910 146046 178502 177888 157140	Reflector LH Decal Battery Diehard Sears Decal Hood RH Decal Hood LH Decal V Belt Drive Sch Decal Deck Caution Decal Craftsman Decal Fender Danger Eng/Fr	15 16 17 18 19 20 21 22	174970 177890 177982 170563 174970 149517 177913	Decal Reflector RH Decal Strng Whl Decal Fender Cruise Decal Warning Reflector RH Decal Bat Dan/Psn Decal Hood Side Panel Decal Grille
11 12 13 14	177975 178482 177605 175291	Decal Pnl Dash Decal Mower Heavy Duty Decal Replacement Parts Decal V-Belt Schematic		174998X418 175542X418 138311 169210 179190 179191	Pad Footrest LH STLT Pad Footrest RH STLT Decal Handle Lft Height Adjust Decal By-Pass Manual Owner's (English) Manual Owner's (French)

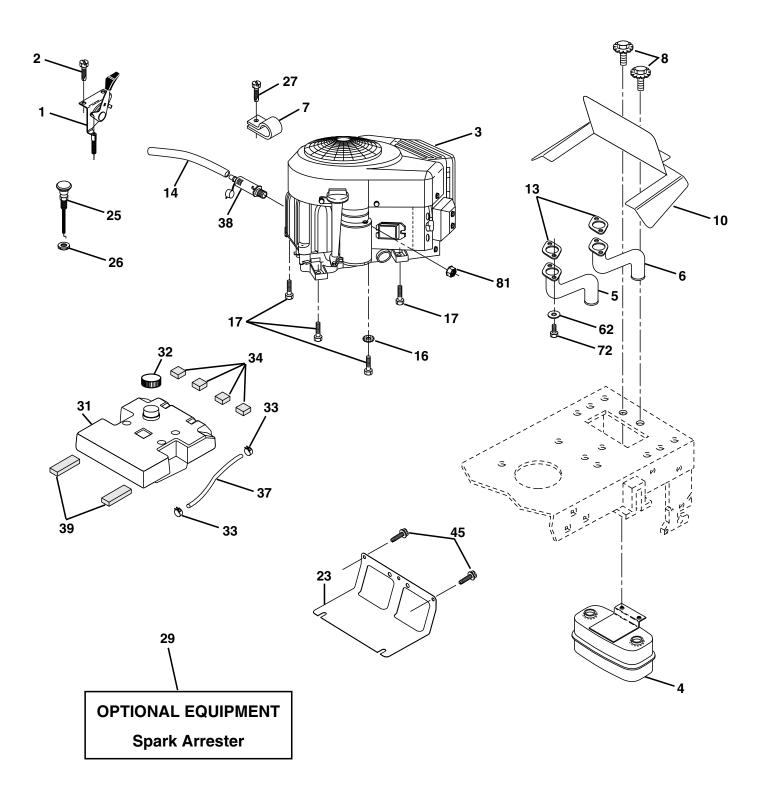


PART NO.	DESCRIPTION
-	
59192	Cap Valve Tire
65139	Stem Valve
177750	Tire F Ts 15 X 6 0 - 6 Service
59904	Tube Front (Service Item Only)
106732X417	Rim Asm 6"front Service
278H	Fitting Grease (Front Wheel Only)
9040H	Bearing Flange (Front Wheel Only)
106108X417	Rim Asm 8"rear Service
177771	Tire R Ts 20x10-8 C Service
7152J	Tube Rear (Service Item Only)
104757X417	Cap Axle Blk 1 50 X 1 00
144334	Sealant, Tire (10 oz. Tube)
	NO. 59192 65139 177750 59904 106732X417 278H 9040H 106108X417 177771 7152J 104757X417

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

TRACTOR - - MODEL NUMBER 944.601051

ENGINE



TRACTOR - - MODEL NUMBER 944.601051

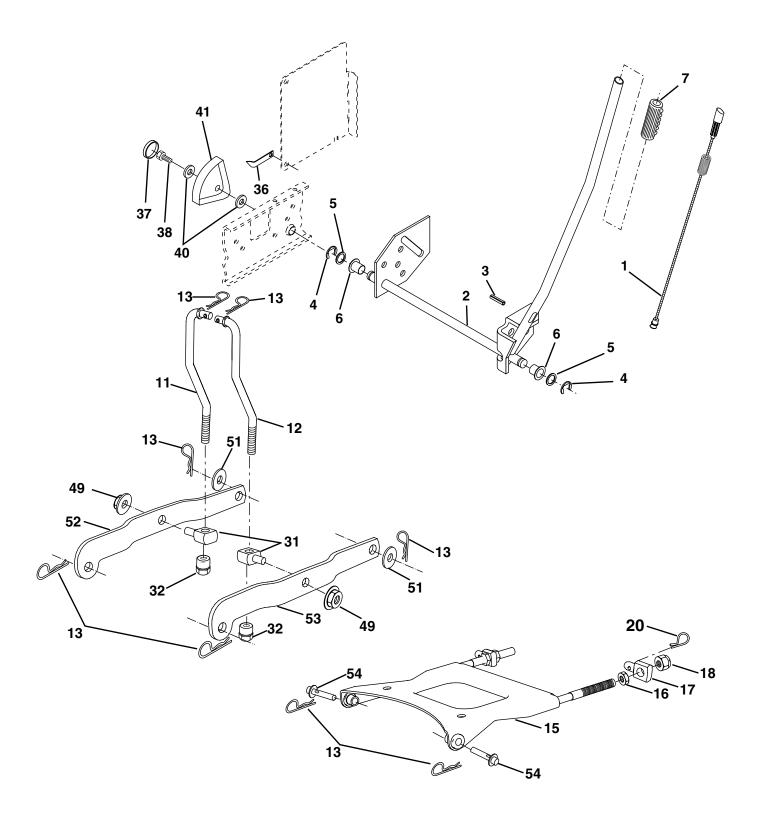
ENGINE

KEY NO.	PART NO.	DESCRIPTION
1 3	175437X505	Control, Throttle Engine (See Breakdown) Briggs Model 445777-0154-E1
4	149723	Muffler, Asm. Twin Lo-Tone
5	160589	Pipe Exhaust Intek 20 RH
6	159955	Pipe Exhaust Intek 20 LH
7	138129	Clamp Tube Double Engine
8	171877	Bolt 5/16-18 UNC x 3/4
10	145552	Shield Heat
13	165391	Muffler Gasket_
16	STD551237	Washer, Lock Ext tooth 3/8
17	17490624	Screw Thdrol 3/8-16 x 1-1/2
23	169837	Shield, Browning/Debris Guard
25	175440X505	Control Choke
26 27	73920600 152927	Nut Keps 3/8-24 UNF Screw
29	137180	
31	157103	Arrester, Spark Tank, Fuel
32	161696	Cap Gauge, Fuel
33	123487X	Clamp, Hose Blk
34	106082X	Spacer, Pad
37	8543R	Line, Fuel 7.5
38	148315	Plug, Drain Oil Easy
39	109227X	Pad, Idler
45	17000612	Screw Hex Wsh Thdrol 3/8-16 x 3/4
62	10040500	Washer Lock Hvy Hlcl Spr 5/16
72	71070512	Screw Hex Hd Cap 5/16-18 x 3/4
81	73510400	Nut Keps Hex 1/4-20 Unc
102	164863	Screw Hwhd Hi-Lo #13-16 x 3/4

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

TRACTOR - - MODEL NUMBER 944.601051

MOWER LIFT



TRACTOR - - MODEL NUMBER 944.601051

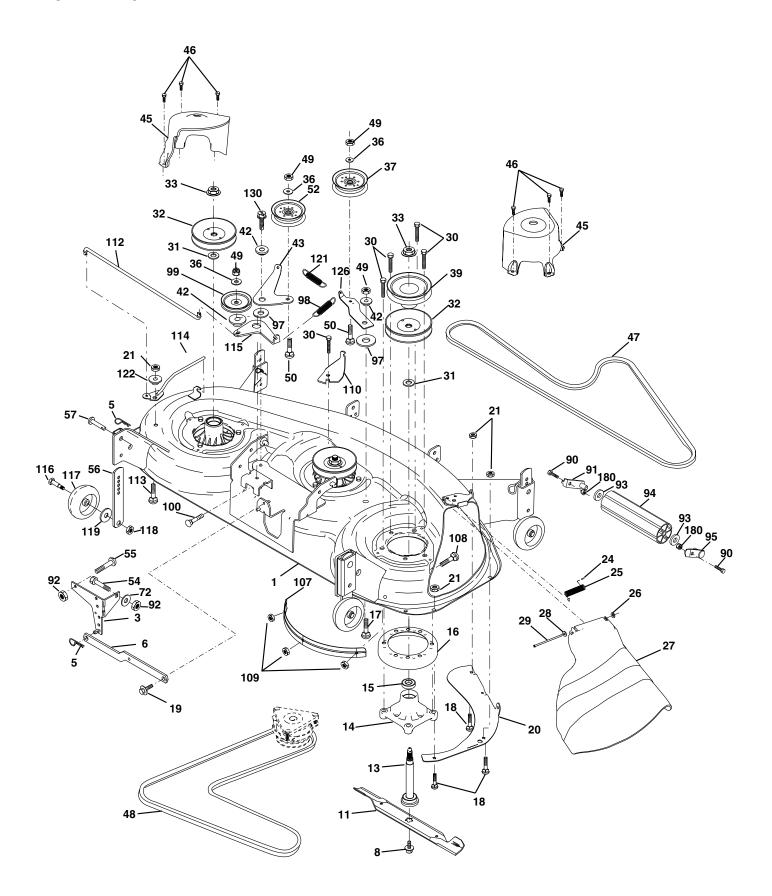
MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
1	176263	Plunger Assembly
2	159476	Shaft Assembly, Lift
	178981	Pin, Groove
4	12000002	E-Ring
5	19211621	Washer 21/32 x 1 x 21 Gauge
6 7	120183X	Bearing, Nylon
/ 11	175830 175370	Grip, Handle, Fluted
12	175370	Link, Lift, L.H. Link, Lift, R.H.
13	4939M	Retainer Spring
15	175562	Plate Asm Suspension Front
16	73350800	Nut Hex Jam 1/2-13 Unc
17	175689	Trunnion Front Susp.
18	73800800	Nut Lock w/Wsh 1/2-13 Unc
20	163552	Retainer Spring
31	176205	Trunion Sups. Arm.
32	175994	Nut Lift Link 7/16-20
36	155097	Pointer Height Indicator
37	123935X	Plug Hole
38	17060516	Screw 5/16-18 x 1
40	19112410	Washer 11/32 x 1-1/2 x 10 Ga
41	155098	Indicator Height Stlt
49	145212	Nut Hex/Large Lock
51	19171416	Washer 17/32 x 7/8 x 16 Ga.
52	175378	Arm Suspension Rear LH
53	175802	Arm Suspension Rear RH
54	175560	Pin Flange

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

TRACTOR - - MODEL NUMBER 944.601051

MOWER DECK

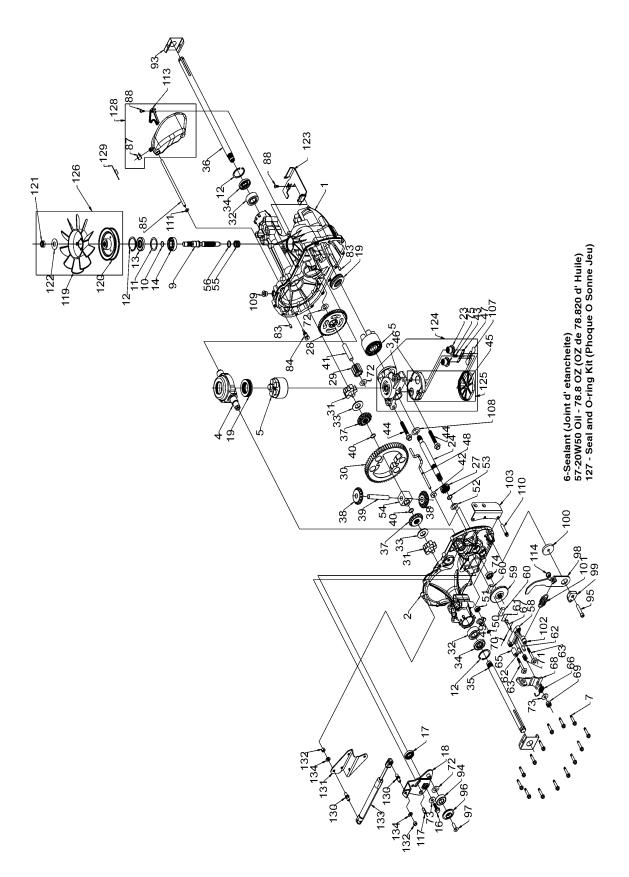


TRACTOR - - MODEL NUMBER 944.601051

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	174348	Deck Weldment Mower 48	55	72140608	Bolt Rdhd Sqnk 3/8-16 Unc x 1
3	138017	Bracket Asm., Sway Bar	56	155986	Bar Pnt Adj. '
5	4939M	Retainer Spring	57	156941	Pin Head Rivet
6	130832	Arm, Suspension, Rear (Sway Bar)	72	19131312	Washer 13/32 x 13/16 x 12 Ga.
8	174365	Bolt 7/16 Asm. Blade	90	74760516	Bolt Hex Hd 5/16-18 x 1
11	173920	Blade	91	175384	Bracket Asm Noseroller LH
13	174360	Shaft Mandrel Asm. Greaseable	92	73800500	Nut Lock Hex w/Ins 5/16-18 Unc
14	174358	Housing Mandrel	93	19171416	Washer 17/32 x 7/8
15	110485X	Bearing, Ball, Mandrel	94	176066	Noseroller
16	174493	Stripper Mandrel Deck	95	175996	Bracket Asm Noseroller RH
17	72110610	Bolt RDHD Sq Neck 3/8-16 x 1.25	97	133943	Washer Hardened
18	72140505	Bolt, Carriage 5/16-18 x 5/8	98	174370	Spring Primary Drive
19	132827	Bolt, Hex Hd, Shoulder 5/16-18	99	175080	Pulley Idler"V"
20	174378	Baffle, Vortex Mower	100	72110616	Bolt RDHD Sqnk 3/8-16 UNC x 2
21	73680500	Nut, Crownlock 5/16-18 UNC	107	175294	Baffle Vac Edge Mower
24	105304X	Cap, Sleeve	108	72110404	Bolt Carr.
25	178102	Spring, Torsion	109	73680400	Nut Crownlock 1/4-20
26	110452X	Nut, Push	110	175016	Arm Spring Secondary
27	174346X428	Deflector Shield	112	174387	Link Tension Relief Lever
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	113	72110508	Bolt Carr. 5/16-18 x 1
29	131491	Rod, Hinge	114	174384	Tension Asm Relief Lever
30	157722	Screw, Thdroll Washer Head	115	174609	Arm Spring Tension Relief
31	129963	Washer, Spacer Mower Vented	116	137644	Bolt, Shoulder
32	177865	Pulley, Mandrel	117	174873	Gauge Wheel
33	178342	Nut, Flg. Top Lock Cntr. 9/16	118	73930600	Nut, Centerlock 3/8-16 UNC
36	19131316	Washer 13/32 x 13/16 x 16 Ga.	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
37	173437	Pulley, Idler, Flat	121	174371	Spring Secondary Drive
39	174375	Pulley, Idler, Driven	122	174606	Bushing Pivot Tension Relief
42	165723	Spacer, Retainer	126	174372	Arm, Idler, Primary Deck
43	174373	Arm, Idler Secondary	130	17060616	Screw 3/8-16 x 1.0
45	174343	Cover, Mandrel Deck	180	73800500	Nut Lock 5/16-18
46	137729	Screw, Thdroll. 1/4-20 x 5/8		175312	Replacement Mower, Complete
47	174369	V-Belt, Mower, Secondary		174356	Mandrel Asm. Service (Includes
48	174368	V-Belt, Mower, Primary			Key Nos. 13-15)
49	73680600	Nut, Crownlock 3/8-16 UNC			
50	72110612	Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5	NOT	E: All compor	nent dimensions given in U.S. inches
52	175820	Pulley Idler Flat		1 inch = 2	
54	74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5			

TRACTOR - - MODEL NUMBER 944.601051 HYDRO GEAR TRANSAXLE - MODEL NUMBER 323-0510

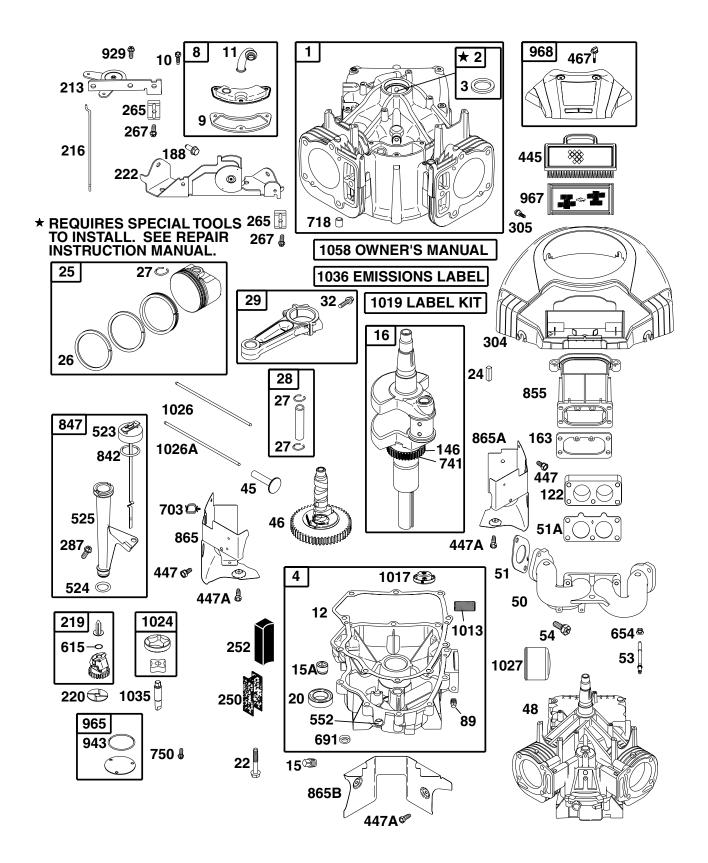


TRACTOR - - MODEL NUMBER 944.601051

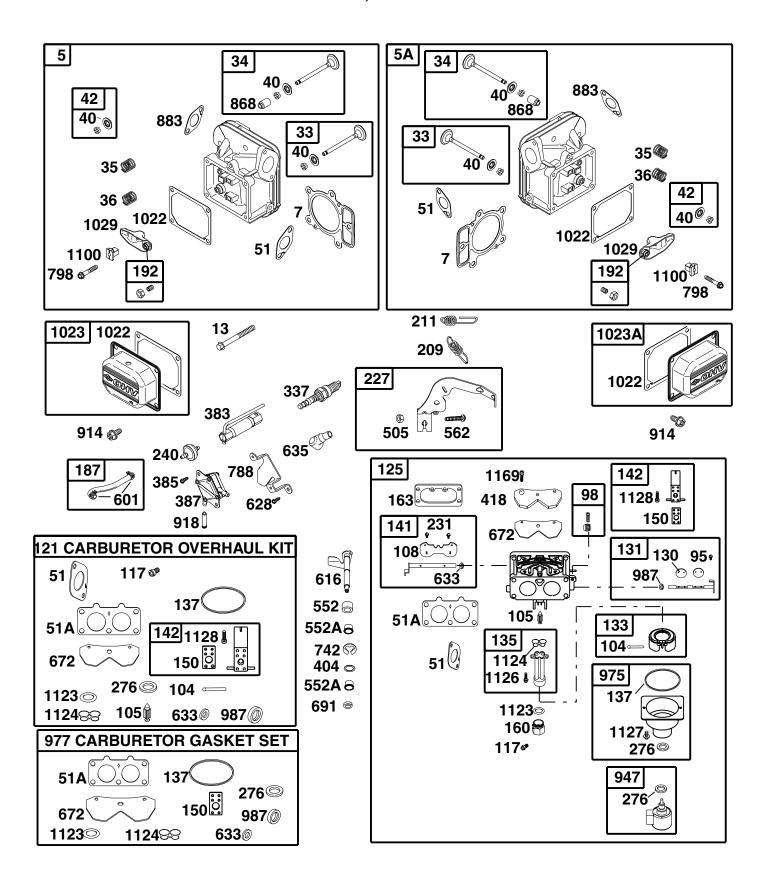
HYDRO GEAR TRANSAXLE - MODEL NUMBER 323-0510

KEY	PART		KEY		
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 71	170416	Cotter Pin 3/32 X 3/4
4	170354	Swashplate, Trunion Machined	71 72	170417 170418	Compression Spring Brake Anti-Drag Washer, Ht .5 I.D. X 1 O.D. X .032
5	169898	Block - Assembly	72 73	142884	Flat - Washer 11/32 I.D. X 7/8 O.D
6	170355	Sealant 10.5 Oz	73 74	170419	Oil Seal .625 X 1.0 X .25
7	170356 170357	Hex Flange Screw 1/4-20 X 1.25	75	170420	Check Plug Assembly, .027, Washer
8 9	170357	Stud, 5/16-24 Hex Double End Shaft, Input	76	170421	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
14	169869	Ball Brg 17mm ldX40mm OdX 12mm	04	470400	Insert)
16	170362	Hex Flange Head Screw 5/16	81	170423	Wedge, Friction Pack
		24X0.75	82	170424	Clip, Washer .316x1.50x.1046
17	170363	Lip Seal 18 X 32 X 7	83	161168	(Plated) Pin, Standard Headless
18	178781	Arm, Control	84	170425	Fitting, 5/16 Sae 5/32 Tube
19	150771	Bearing, 30x52x13 Thrust	85	170426	Hose, Expansion Tank
23	170365 170366	Check Plug Assembly, Washer Shaft, Motor	87	142917	Cap - Poppet Valve
24 27	170366	Gear - Pinion, 13t	88	170429	Bolt, Self Tapping 10-32 X 1/2
28	170368	10t/48t Gear	90	170430	Puck, Inner Wedge
29	170369	Gear, 10t Jackshaft	93	170431	Spring Clip - Housing Thrust
30	170370	60t Bull Gear	94	178783	Bearing, Ball
31	170371	Sleeve Bearing .75 X 1.575 X .625	95	178784	Screw, Socket Head Cap 5/16-24X1-
32	170389	SleeveBearing(Outboard)			1/2
		.75x1.750x.625	96	178786	Spacer, Locating
33	142991	Washer, 3/4 ld X 1-1/2 Od X .13 Thk	97	178787	Screw, SFHCS 5/16-18 X1
34	170390	Lip Seal Axle Seal	98 99	178789	Arm Return
35	170391	Shaft, Axle .75 X 11.39 (Key, R.H.)	100	178792 178793	Puck, Adjusting Washer, .24 ID X 1.60 OD X .239
36	170392	Shaft, Axle .75 X 16.99 (Key, L.H.)	101	178794	Spring, Extension
37 38	150792	Miter Gear (Splined)	102	178795	Spacer .260 ID X .560 OD X .870
39	150793 150809	Miter Gear 15t (0.5 ld) Shaft	103	178796	Bracket, Torque
40	170393	Ring, Spiral Retaining	107	170432	Deflector
41	170394	Pin, Jackshaft	108	170433	Washer, Motor Shaft
42	170395	Magnet, Ring			.71idx1.15odx.030thk
43	170396	Spring, Bypass	109	170434	Plug, Sae #6
44	150797	Hydro Mtg Screw 3/8-24 X 2.5 Long	111	170435	O-Ring .07 X .301 I.D.
45	170397	Filter	113	170437	Bracket, Support Expansion Tank
46	170398	Base, Filter	114 116	178797	Spring Silicon Sponge
47	170399	Actuator, Bypass	117	170438 178799	Pin, Spring
48	170400	Rod, Bypass Actuator	117	170439	Fan, 7 In.
49 50	170401	Arm, Bypass	120	170440	Pulley
50 51	170402 170403	Retaining Ring .250 External Seal, Lip .741 X .250 X .250 Tc	121	170441	Hex Lock Nut 1/2-20 (Nylon Insert)
52	170403	Flat Washer, 5/8 IdX1.0 OdX.05 Thk	122	170442	Washer, Belleville
53	170405	Retaining Ring	123	178800	Belt Keeper
54	170406	Bearing, Center Block	124	170444	Center Section-Filter-Bypass
55	142977	Spring - Helical Compression			Assembly
56	142978	Washer	125	170445	Filter Assembly
57	150798	20w-50 Oil	126	170446	Fan - Pulley Service Assembly
58	170407	Brake Yoke	127	170447	Seal - O-Ring Kit
59	170408	Rotor, Brake	128	173165	Kit, Expansion Tank
60	142883	Brake Puck	130	178802	Stud Ball
61	142882	Puck Plate	131	178803	Bracket, Cruise Damper
62	142887	Brake Actuating Pin	132	178804	Hex Nut 5/16-18 NC
63	170410	Hfhcs 1/4-20x2 W/	133	178806	Damper
64	142892	Patch,SpecialFlange	134	178808	Washer, Helical Spring Lock 5/16
65	170411	Bolt, 1/4-20 X 1 W/Patch Spacer	900	173839	Transaxle Complete
66	170411	Spring, Brake Arm Bias	NOT	E. Alloomeo	nent dimensions given in U.S. inches
67	170412	Sa Hd Bolt 5/16-24-Ribbed		1 inch = 25	
	-		19	1 111011 = 20	. T 111111

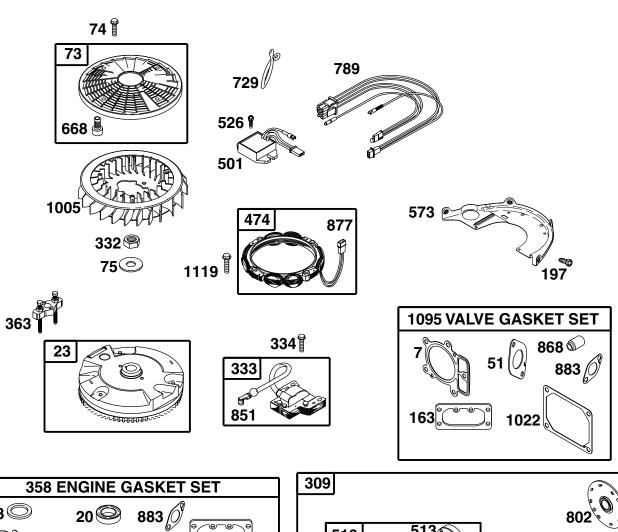
TRACTOR - - MODEL NUMBER 944.601051

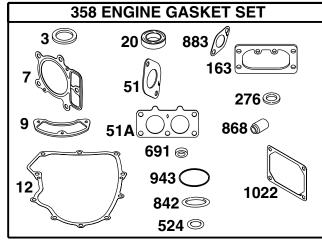


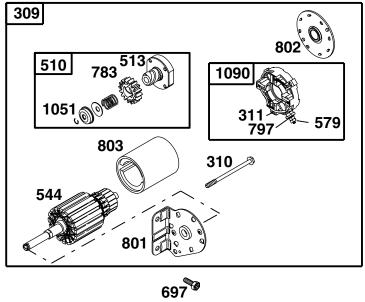
TRACTOR - - MODEL NUMBER 944.601051



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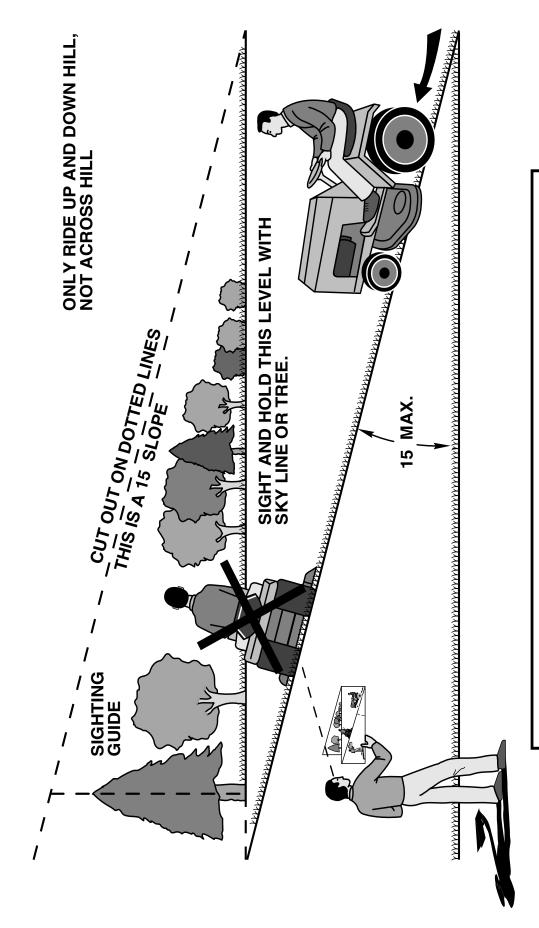
TRACTOR - - MODEL NUMBER 944.601051

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	694001	Cylinder Assembly	130	690993	Valve-Throttle
2	499585	Bushing/Seal Kit	131	499805	Kit-Throttle Shaft
3	391086	Seal-Oil (Magneto Side)	133	499806	Float-Carburetor
4	690069	Sump-Engine /	135	499803	Tube-Fuel Transfer
5	693998	Head-Cylinder (Cylinder 1)	137	690994 Ø:	‡ Gasket-Float Bowl
5A	693999	Head-Cylinder (Cylinder 2)	141	499807	Kit-Choke Shaft
7	693997 •-	+ Gasket-Cylinder Head	142	499808	Nozzle-Carburetor
8	499601	Breather Assembly	146	690979	Key-Timing
9		 Gasket-Breather 	150		‡ Gasket-Nozzle
10	690960	Screw_(Breather Assembly)	160	690996	Retainer-Solenoid
11	690942	Tube-Breather	163		+ Gasket-Air Cleaner
12		Gasket-Crankcase	187	693180	Line-Fuel
13	690360	Screw (Cylinder Head)	188	690960	Screw (Control Bracket)
15	690946	Plug-Oil Drain	192	690083	Adjuster-Rocker Arm
15A	691680	Plug-Oil Drain	197	690960	Screw (Back Plate)
16 20	691046 690947	Crankshaft • Seal-Oil (PTO Side)	209 211	691018	Spring-Governor
22	694966		213	691019 691021	Spring-Governed Idle Bracket-Choke Control
23	691053	Screw (Crankcase Cover) Flywheel	216	691021	Link-Choke
24	222698	Key-Flywheel	219	696376	Gear-Governor
25	694003	Piston Assembly (Standard)	220	690412	Washer (Governor Gear)
20	694005	Piston Assembly (.010 Oversized)	222	691023	Bracket-Control
	694007	Piston Assembly (.020 Oversized)	227	691048	Lever-Governor Control
	694009	Piston Assembly (.030 Oversized)	231	690718	Screw (Choke Valve)
26	694004	Ring Set (Standard)	240	691035	Filter-Fuel
	694006	Ring Set (.010 Oversized)	250	690957	Retainer-Breather
	694008	Ring Set (.020 Oversized)	252	690956	Collector-Oil
	694010	Ring Set (.030 Oversized)	265	691024	Clamp-Casing
27	690975	Lock-Piston Pin	267	695134	Screw (Casing Clamp)
28	690229	Pin-Piston (Standard)	276		‡ Washer-Sealing
29	499583	Rod-Connecting (Standard)	287	690960	Screw (Dipstick/Tube Assembly)
32	690976	Screw (Connecting Rod)	304	695277	Housing-Blower
33	499596	Valve-Exhaust	305	691005	Screw (Blower Housing)
34	499597	Valve-Intake	309	691262	Motor-Starter
35 36	690963	Spring-Valve (Intake)	310 311	691263	Screw (Starter Motor)
40	690963 690964	Spring-Valve (Exhaust) Retainer-Valve	332	497608 691059	Brush Set Nut (Flywheel)
42	499596	Keeper-Valve	333	691060	Armature-Magneto
45	690977	Tappet-Valve	334	691061	Screw (Magneto Armature)
46	690978	Camshaft	337	691043	Sparkplug
48	693893	Short Block (Replacement Engine	358	694012	Gasket Set-Engine
.0	000000	445777-0027-E2)	363	691062	Puller-Flywheel
50	690948	Manifold-Intake	383	690966	Wrench-Sparkplug
51	690949 •Ø-	+ Gasket-Intake	385	690960	Screw (Fuel Pump)
51A	690950 •Ø:	‡ Gasket-Intake	387	808656	Pump-Èuel
53	690951	Stud-Carburetor	404	690442	Washer (Governor Crank)
54	690953	Screw (Intake Manifold)	418	690999	Plate-Carburetor
73	691055	Screen-Rotating	445	499486	Filter-Air Cleaner Cartridge
74	691057	Screw (Rotating Screen)	447	691003	Screw (Air Guide Cover)
75	691056	Washer (Flywheel)	447A	690960	Screw (Air Guide Cover)
89	690283	Plug-Oil			
95	690718	Screw (Throttle Valve)			
98	499802	Kit-Idle Speed	•	Included in En	igine Gasket Set, Key. No. 358
104		7 Yolvo Float Noodlo	Ø		arburetor Overhaul Kit, Key. No. 121
105 108		Valve-Float Needle Valve-Choke	‡		arburetor Gasket Set, Key. No. 977
117	690986 690232 Ø		+		alve Overhaul Kit, Key. No. 1095
117	690232	ð Jet-Main (Standard) Jet-Main (High Altitude)	•		2
121	499811	Kit-Carburetor Overhaul	NOTE	. All composi	ant dimancians given in LLS inches 1
122	690952	Spacer-Carburetor		•	ent dimensions given in U.S. inches 1
125	499804	Carburetor	inch :	= 25.4 mm	

TRACTOR - - MODEL NUMBER 944.601051

KEY NO.	PART NO.		KEY NO.	PART NO.	DESCRIPTION
467 474	691008 691064	Alternator	868 877	690968 399916	•+ Seal-Valve Wire/Connector-Alternator
501 505	691185 691029		883 914	690970 690960	•+ Gasket-Exhaust Screw (Rocker Arm Cover)
510	497606		918	694000	Hose-Vacuum
513	692024		929	691003	Screw (Choke Control Bracket)
523	691036		943	690589	 Seal-O Ring (Oil Pump Cover)
524	691032	J \ 1	947	499809	Solenoid-Fuel
525	691037	. 4.50 2.50	965 967	499613	Cover-Oil Pump Filter-Pre Cleaner
526	690960		967 968	273638 499788	Cover-Air Cleaner
			975	499810	Bowl-Float
552	690552	Bushing-Governor Crank	977	499812	Gasket Set-Carburetor
552A	690553	Bushing-Governor Crank	987	691000	؇ Seal-Throttle Shaft
562	690311	- ()	1005	691243	Fan-Flywheel
573	691009		1013 1017	690954	Nipple-Oil Filter
579 601	691029 95162	(1017	690770 693995	Screen-Oil Pump Kit-Label
615	690317		1022	690971	•+ Gasket-Rocker Cover
616	691045		1023		Cover-Rocker Arm (Cylinder 1)
628	690960			499600	Cover-Rocker Arm (Cylinder 2)
633	690998			499054	Pump-Oil
635 654	66538			690981 690982	Rod-Push (Steel) Rod-Push (Aluminum)
668	690958 691215	()		492932	Filter-Oil
672	690234		1029	690972	Arm-Rocker
691	690657		1035	691042	Shaft-Pump
697	690372		1036	695704	Label-Emission
703	691010		1051	691265	Ring-Retaining
718 729	690959	· ··· = · · · · · · · · · · · · · · · ·	1058 1090	274794 691293	Owner's Manual Retainer-Brush
729 741	694123 690980	0.1p 11.10	1090	694013	Set-Valve Gasket
742	690328		1100	690973	Pivot-Rocker Arm
750	691033		1119	691183	Screw (Alternator)
783	693058		1123	690987	؇ Seal-O Ring (Solenoid Retainer)
788	691039		1124	690988	؇ Seal-O Ring (Fuel Transfer Tubé)
789 797	695050 693167		1126 1127	690991 690992	Screw (Fuel Transfer Tube) Screw (Float Bowl)
797 798	690967		1128	690990	Ø Screw (Carburetor Nozzle)
801	691283		1169	693140	Screw (Carburetor Cover Plate)
802	691286	Cap-End			
803			•		in Engine Gasket Set, Key. No. 358
			Ø		in Carburetor Overhaul Kit, Key. No. 121
842	691031	Seal-O Ring (Dipstick) Accombly Dipstick/Type	‡	Included	in Carburetor Gasket Set, Key. No. 977
847 851	499602 493880	Assembly-Dipstick/Tube Terminal-Sparkplug	+	iriciuaea	in Valve Overhaul Kit, Key. No. 1095
855	691011		NOTE:	: All comp	onent dimensions given in U.S. inches 1
865	691012			25.4 mm	g
865A	691014	Cover-Air Guide (Cylinder 2)			
865B	691015	Cover-Air Guide			

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



greater than 15), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme Operate your Tractor up and down the face of slopes (not caution when changing direction on slopes.

55

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